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1. EXECUTIVE SUMMARY

The Director established the Smithsonian Astrophysical Observatory [SAO] Proposal Process Review Committee in August 2007 and charged it to review the SAO proposal procedures and make recommendations for improvement. The Committee recognizes that a high rate of success in proposals is essential to SAO, in order to ensure that we maintain our scientific leadership position and obtain the resources needed to meet the goals of our scientific mission.

This report describes the metrics from the past few years, including numbers and types of proposals. The preponderance of proposals are for less than one million dollars; however, the dollar value of those proposals that are greater than a million dollars represents a very high percentage of the total dollar value of all proposals submitted during the course of a year.

The Committee solicited input from Division Administrators [DAs], Project Managers, Project Administrators, and other proposal submitters and met with staff from Sponsored Programs and Procurement [SPP], Financial Management [FM], and the Development Office. The Committee also obtained input regarding large proposals. They met with senior staff from Central Engineering [CE] and the High Energy Astrophysics Division [HEAD] to review lessons learned from the recent NASA Small Explorer and Mission of Opportunity rounds. The Committee also met with Peter Cheimets from CE and Jay Bookbinder from HEAD to review a tool for costing large projects.

There is general consensus that the SAO proposal process is working, i.e. that proposals meet the sponsors' deadlines and that the success rate is reasonable. However, there are concerns that the current process is not keeping pace with increasing external and internal demands. The sponsoring agencies introduce new requirements, which have become increasingly more restrictive, along with new software systems, which change frequently. Regulations have become more complex. While electronic systems can help us to streamline the review and submission processes, at the same time, the proposals are being submitted for the internal review process increasingly closer to the final deadline. Not only does a culture of "last-minute" proposals pose a risk of failing to meet deadlines, but it also undercuts the review process intended to ensure compliance and consistency. Furthermore, it puts tremendous stress on all those involved in the process. Based on statistical sampling, FM reports that approximately 80% of the proposal budgets that are received by them have errors, requiring additional inputs from the Proposal Coordinator and additional reviews. SPP notes that better planning during the proposal process, e.g. providing details on expected foreign travel, avoids additional and time-consuming interactions with the sponsor later on. Finally, the Committee recognizes that with the administrative and scientific groups primarily located at different sites, SAO must proactively build team work and communication systems.

This report recommends a number of changes to the proposal process, including imposing new internal deadlines for Principal Investigators [PIs] and Proposal Coordinators, standardizing proposal tools across Divisions and Departments, and improving electronic communications. The report also recommends developing a series of training sessions. In addition to technical process training, the Committee feels that general training that outlines the process and describes the responsibilities of all the parties involved will help to foster and maintain a spirit of team work.

While these proposed improvements should suffice to streamline and improve the proposal process for small proposals, the Committee recommend that SAO develop a large proposal process and team.

2. INTRODUCTION

The Director established the Smithsonian Astrophysical Observatory [SAO] Proposal Process Review Committee in August 2007. The charge of the Committee was to examine the present SAO proposal procedures to review what improvements may be made to further streamline the proposal routing and review process while ensuring that we meet the sponsors' deadlines, with the outcome a report containing recommendations concerning any new procedural changes.

The members of the Committee are: Nancy Brickhouse, Karen Modestino, Bob Palleschi, Nayla Rathle, and Peter Sozanski [chair].

3. BACKGROUND METRICS

A review of the past two calendar years revealed that SAO submitted 258 proposals valued at $201 million [not including revisions to proposals already submitted] in CY 2006 and 318 proposals valued at $99 million in CY 2007. Appendix A contains a summary of these proposals broken out by Divisions and Departments.

During CY 2007, there were 124 Principal Investigators [PIs] that submitted the 318 proposals. The number of proposals submitted by each PI during the course of the year varied from eleven proposals per PI [one PI managed to do this] to one proposal per PI [fifty PIs submitted one proposal each]. Appendix B provides a list of the 124 PIs, the number of proposals that each PI submitted, and the associated value for all of the proposals they submitted during the year.

During CY 2007, the 318 proposals were submitted to 57 different sponsors. The majority were submitted to Federal government agencies, such as NASA [89 proposals], JPL [50 proposals, mostly for Spitzer awards], NSF [37 proposals], and DOE [5 proposals for VERITAS] and to government pass-through entities such as SAO for the Chandra awards [38 proposals], the Space Telescope Science Institute for the Hubble awards [18 proposals], and the Lockheed Martin Space Systems Company [11 proposals for both the SolarB and TRACE projects]. Appendix C contains a list of the 57 sponsors, the number of proposals that were submitted to each sponsor, and the associated value for all of the proposals that were submitted to each sponsor during the year.

4. MAJOR TYPES OF PROPOSALS

The proposals submitted by SAO tend to fall into one of the following groups:

- Extremely Large Programs, such as Small Explorer [SMEX], Medium Explorer [MIDEX], and Discovery, where SAO is the PI. Average cost is ~$100 million spread over 9 years. SAO submitted one of these proposals in CY 2006 [valued at $97 million], none in CY 2007, and one to date in CY 2008 [valued at $107 million].
- Very Large Programs, such as SMEX Co-I, MIDEX Co-I, Discovery Co-I, Mission of Opportunity [MO], Hinode [SolarB], and AIA. The costs for these types of proposals range from $6 to $36 million spread over a period of 5-10 years. SAO submitted three of these proposals in CY 2006 [with a total value of $31 million], none in CY 2007, and six to date in CY 2008 [with a total value of $113 million].
- Large Programs, such as SMEX Co-I, Herschel, and NSF. The costs for these types of proposals range from $1 to $5 million spread over a period of 1-5 years. SAO submitted sixteen of these proposals in CY 2006 [with a total value of $34 million], sixteen in CY 2007 [with a total value of $44 million], and seventeen to date in CY 2008 [with a total value of $39 million].
- Small Programs for Research and Observing funding. The costs for these types of proposals range from $3,000 to $1 million spread over a period of 1-3 years. SAO submitted 238 of these proposals in CY 2006 [with a total value of $38 million], 302 in CY 2007 [with a total value of $55 million], and 118 through mid-July 2008 in CY 2008 [with a total value of $20 million].

If one looks at CY 2006, then 20 of the 258 proposals that were submitted were over $1 million [~8%], and 238 were under $1 million [~92%]. However, the 20 proposals over $1 million had a total value of $162 million or 81% of the total value of all proposals submitted during the year.

In CY 2007, 16 of the 99 proposals that were submitted were over $1 million [~5%], 302 were under $1 million [~95%], and the 16 proposals that were over $1 million had a total value of $44 million or 44% of the total value of all proposals submitted during the year.

From the above data, it is clear that a preponderance of the number of proposals that SAO submits are less than a million dollars; however, the dollar value of those proposals that are greater than a million dollars represents a very high percentage of the total dollar value of all proposals submitted during the course of a year.

Appendix D provides a list of the proposals submitted by SAO during CY 2007 that is ordered by decreasing proposal values.

5. METHODOLOGY

On 21 August 2007, an email was sent to the Divisional Administrators [DAs] that informed them that the Committee wanted to gather input from the DAs and the Project Managers, Project Administrators, and other proposal submitters within their divisions and requested that they provide the Committee with their inputs regarding any suggested improvements in the proposal routing and review process as well as their thoughts on the standardization of proposal tools such as proposal budget spreadsheets and salary calculation worksheets. Comments were received from eight of the nine divisions and departments contacted and are summarized in Section 6 below.

On 25 October, the Committee met with staff from Sponsored Programs who are responsible for the proposal process within their department to review the comments that we had received from the Divisions and Central Engineering [CE], to solicit their feedback on same, and to listen to any thoughts they had on improving the process.

On 01 and 16 November, the Committee met with staff from FM who are responsible for the proposal process within their department to review the comments we had received, to solicit their feedback on same, and to listen to any thoughts they have on improving the process.

On 29 November, the Committee met with Amanda Preston from the Development Office to review her comments in more detail.

In 11 December, the Committee met with Peter Cheimets from CE to discuss his input regarding a costing tool that had been used by CE and HEAD for costing large projects, i.e., over $10 million. On 17 December a demonstration of the Quick-Base Proposal Pricing Database Tool was provided by Peter to the Committee and staff from FM and Sponsored Programs.

On 19 December, the Committee met with all interested Divisional Administrators, Project Managers, Project Administrators, and administrative support staff to discuss the comments that had been received, to explore the commonality among the users, and to discuss the Committee's preliminary responses.

On 18 January 2008, the Committee met with senior staff from CE and HEAD who had just completed the submission of the SMEX and MO proposals to review the lessons learned as a result of their submissions. For the record, during the December 2007 – March 2008 timeframe, SAO submitted:

- one Small Explorer [SMEX] PI proposal [valued at $107 million],
- seven SMEX Co-I proposals [with values ranging from $1 million to $29 million and a total value for all seven of $59 million],
- one Mission of Opportunity [MO] PI proposal [valued at $37 million],
- one Focused Opportunity for Solar Explorer [FOSO] PI proposal [valued at $19 million], and
- one FOSO Co-I proposal [valued at $3 million].

The comments associated with this "lessons-learned" meeting are summarized in Section 7 below.

Appendix E provides a complete list of the individuals who submitted comments and/or met with the Committee.

6. QUESTIONS AND CONCERNS RAISED

6.1 PROPOSAL PREPARATION

6.1.1 Is there any interest in the standardization of proposal tools such as proposal budget and salary calculation worksheets?

Many of the responses indicated there is a strong interest in standardizing the spreadsheets, while at the same time maintaining the flexibility of allowing the use of non-standard formats.

The Committee was shown an Excel based system that is used by at least a couple of divisions to generate one-year and multi-year proposals.

6.1.2 Would SAO be willing to continue the development of an Intuit QuickBase system, which uses an Internet Explorer browser, that has been developed by CE and HEAD for large multi-year efforts in the $10M to $100M range that require monthly cost breakouts by Work Breakdown Structure [WBS]?

The Committee was provided with a demonstration of this application. Owing to some cost assumption limitations related to the timing of COLAs, MSIs, and promotions, the output of this system has been used to generate cost estimates that were, in turn, used as the basis for inputs into Excel spreadsheets for the proposal submittal.

6.1.3 Can we develop a standardized way of calculating salaries so it does not have to be done more than once a fiscal year unless there is a change in status?

The Committee will advocate developing a comprehensive budget tool that will include the capability of loading hourly rates. Further, the Committee will recommend that, for proposal purposes, all Merit Step Increases [MSIs] and Promotions for SAO employees be assumed to occur concurrently with the Cost Of Living Adjustment [COLA], which takes place in the first pay period in January. [The date for the actual MSIs and Promotions can occur anytime throughout the year, depending on the specific individual's anniversary date or actual promotion date.]

6.1.4 Can the procedure for small proposals [e.g. under $50k to $100k] be simplified?

Unfortunately, practically the same amount of detail is required in order to negotiate an award with one of SAO's sponsors regardless of the cost. With the advent of standardized worksheets and electronic routing, the whole process should become more simplified.

6.1.5 Why are the SAO cost pages required even if the sponsor does not require them?

A standardized set of budget sheets are required in order to facilitate SAO's internal review and to make sure that the sponsor-required cost sheets are correct, based on the internal SAO sheets. Sometimes a NASA Announcement of Opportunity [AO] will not require any detailed cost back-up, but it turns out that quite often it is requested by the NASA contracting or grant officer before they will make an award to SAO. If this data is provided with the proposal, it is much easier for SAO to respond to any questions during the negotiation process. If this exercise is left until later, the person responsible for generating the information may not be available to provide the answer or may not remember exactly how the detailed estimate was arrived at.

6.1.6 Could something be done by the DO to provide the scientists with absolute deadlines for getting proposals into review, especially during major proposal periods? Can we consider penalties for late submissions?

The Committee will provide new proposal submission deadlines [5 to 7 business days prior to due-date for "normal" proposals and more time for the larger SMEX-type proposals] as well as a process for dealing with late submittals into its recommendations to the DO.

6.1.7 Could Sponsored Programs pre-assign the proposal identification numbers, i.e., the "P" numbers?

We think this could confuse things as sometimes a PI decides at the last minute not to submit their proposal, or it is determined that the proposal should be submitted as a revision to an earlier proposal instead of as a new proposal.

6.1.8 Formatting of complicated proposal budget presentations would benefit from discussions among FM, Sponsored Programs, and the Project prior to their preparation.

When there is a complicated budget presentation required by the proposal, the Proposal Coordinator should check ahead of time with FM and Sponsored Programs in order to agree on a format prior to the proposal being prepared and routed. Sometimes this requires the Sponsored Programs staff to check with the sponsor to determine what they require and are expecting.

6.1.9 To ensure a quick turn-around within FM and Sponsored Programs, there is a need to increase the quality of the submitted materials.

Based on statistical sampling, FM reports that approximately 80% of the proposal budgets that are received have errors, from small to large, that require additional inputs from the Proposal Coordinators. Most require one revision before they can be considered acceptable, but several require two to three revisions before they can be sent out.

For FM to be able to conduct their review, they require the back-up calculations for salary, travel, equipment, and subcontracts. For salary calculations, grades and steps must be provided, and if they are going to change for an individual, the new grade/step and the anticipated date for the change must also be provided. Also, if staff from another Division are being included, then their name and grade/step must also be included on the proposal worksheets.

For Sponsored Programs to be able to deal with foreign travel effectively, they require the detailed specifics for any foreign trip so as to avoid having to go to the sponsor for prior foreign travel approval. In most cases, if these trips are specified in the approved award, then these trips are considered to have received prior approval.

6.2 PROPOSAL ROUTING AND REVIEW

6.2.1 Is there a possibility of the Proposal Coordinator submitting the budgets and associated proposal worksheets to FM ahead of the main proposal? It is better to catch rate mistakes or oversights before it gets to Sponsored Programs, which is the last step.

FM requires all portions of the proposal that deal with the cost for their review. This includes the budget worksheets as well as any pages from the proposal that have costing information on them. In this way, FM hopes to guarantee that no typos or errors were made in the process of transferring the costing information to the sponsors' forms. If the final version of these materials [i.e., the budget, the budget worksheets, and the associated pages from the proposal that have costing information on them] is available before the review copy of the proposal is ready for circulation, then the Proposal Coordinator could forward this information to FM in advance of the review copy of the complete proposal in order to expedite the cost review process.

6.2.2 Can the budget worksheets and proposal be routed electronically for the internal review cycle instead of via hardcopy?

The Committee endorses the idea of electronic routing of the budget worksheets and associated proposal pages via PDF format. However, since most of the internal SAO reviewers prefer to review an actual hardcopy of the proposal, the Committee supports the position that the Proposal Coordinator continue to route a single hardcopy of the review version of the proposal [which should include any corrections that have been made to the budget] to FM and Sponsored Programs. In this way, we can avoid each reviewer having to make their own individual copy of the proposal for their own review.

6.2.3 Can you provide more feedback about when the proposal is scheduled to be looked at?

Sponsored Programs and FM will work to expand the Excel "Proposal Status Check Sheet" currently provided by FM to show when the proposal is received by FM and include additional proposal data such as who in Sponsored Programs is reviewing the proposal, the P-number assigned to the proposal, and when it was actually sent to the sponsor.

6.2.4 Could you move the budget review from FM to Sponsored Programs for one-stop shopping?

We feel that this would not be a cost-effective use of staff, which perform other tasks in addition to that of proposal review.

6.2.5 Could you update the printing form? Sometimes Sponsored Programs has better info than we do filling that out.

We will investigate merging the Routing Sheet and the Printing/Mailing Request form and possibly the SAO Proposal Request form, which is required for DO approval of the proposal. We agree that the information about the sponsor is probably not required for proposals that are totally electronically submitted. References to letter proposals will be removed from the forms.

In addition, we will consider adding the following fields to the new combined form:

- the PI's rating of the proposal's likelihood of funding;
- providing the phone numbers for the Proposal Coordinator and PI;
- indicating the name of the "on-call" administrative person to be contacted for any questions or revisions;
- adding the email address for the sponsor's contact person to whom the proposal will be directed;
- stating if any Human Subject clearances are required and have been obtained;
- noting whether any NSF or NIH financial disclosure statements are required and have been filed;
- specifying if cost-sharing is required and, if required, attaching the associated pages from the AO that deal with cost-sharing; and
- stating whether an Administrative Support and Project Oversight [AS/PO] waiver will be required and, if required, whether it has been approved by the DO or SI's Chief Financial Officer [Ref. Smithsonian Directive 304 at http://prism.si.edu/opmb/pdf/SD304.pdf].

In addition, it will be required that all personnel who review the proposal should sign-off on the routing form and that alternates will only be allowed to sign for others in their Divisions in exceptional circumstances [and not routinely as is to often the case at present].

6.2.6 Could Sponsored Programs print out the required proposal copies?

Sponsored Programs could print the required number of copies of the proposal instead of the Division or Project, but it will require additional time [on the order of 2-3 business days] so that it can liaise with one of the outside printing companies that SAO is under contract with. It should be noted that approximately 50% of all proposals have to be submitted to the sponsors via hardcopy.

6.3 INFORMATION AND TRAINING REGARDING PROPOSAL PROCESS AND PROCEDURES

6.3.1 Could we have an email-list "forum" for proposal preparers to discuss and share ideas, especially during major proposal periods, since I am sure many of us have the same questions/concerns?

The Committee thinks this is worth exploring. A majordomo-style list could be set-up.

6.3.2 Can you make data readily accessible to authorized staff? Administrative knowledge must be embedded in any new system to have it always available and consistent. When key people are absent or as they retire, staff may not get the proper answers to process questions.

We agree this should be investigated. We will look into what resources will be required to provide training and workshops to the SAO staff [at a rate of two per year]. Some examples might include a workshop on how to improve the quality of the proposal, the NASA Proposal process, the NSF proposal process, how to generate a Biosketch, how to prepare a PI's Current and Pending Support list, etc.

6.3.3 Could FM and Sponsored Programs provide more attention to updating their websites with instructions, forms, and other changes? Maybe a monthly or quarterly update to make sure that the information posted on the Sponsored Programs and FM websites is current, accurate and complete.

Yes, we will attempt to do this as required. Both of these websites should explain what the mandated requirements are regarding proposal submittals and award administration.

6.3.4 Could you provide a flowchart that shows the process for a proposal as it works its way through the system, including responsibilities for the Project, DO, FM, and Sponsored Programs?

The Committee agrees that a flowchart should be provided on the FM and Sponsored Programs websites. It could provide both the process as well as a brief description of the responsibilities for each entity that handles the proposal preparation and submission. This material could also be presented at the workshops mentioned in 5.3.2 above.

7. RECOMMENDATIONS

The Committee developed its recommendations based on inputs from the Proposal Coordinators representing all of the scientific Divisions. The Coordinators consisted of Divisional Administrators, Project Managers, Project Administrators, and administrative support staff. Inputs were also solicited from scientists, senior project engineering staff from Central Engineering, and staff members responsible for the proposal process within the Financial Management [FM] and the Sponsored Programs and Procurement [SPP] departments.

In general, the feeling was that the proposal process at SAO works well, but that it could use some minor improvements. The prioritized recommendations are as follows:

Recommendation #1 – Require that proposals be submitted to Financial Management and Sponsored Programs for review at least five full business days prior to the agency/sponsor due-date.

Many of the problems encountered by both the Divisions and Departments are related to receiving proposals too close to the sponsor's due-date. In order to allow time for a proper review of each proposal, this must be avoided. To ensure that both the Financial Management [FM] and Sponsored Programs and Procurement [SPP] Departments have adequate time to review and approve the proposal, as well as time to ensure a successful electronic submission, the Committee recommends that the complete proposal, accompanied by the completed proposal approval form, the budget worksheets, and any other required attachments, must be submitted to FM and SPP for review at least five [5] full business days before the proposal must be received at the agency/sponsor and seven [7] full business days for Grants.gov submissions.

This should allow FM and Sponsored Programs adequate time for their review and any fact-finding and revisions that may be required as well as to deal with the problem of having to submit a large number of proposals that all have the same proposal deadline. If the proposal is of a more complicated nature, then the submittal lead-time should be increased accordingly. These requirements should apply to proposals that will be submitted in hardcopy as well as to those being submitted electronically. Note - Any last minute revisions to the science justification must be completed by the PI and forwarded to the Proposal Coordinator and on to FM and SPP at least two [2] full business days before the proposal must be received at the sponsor. For Grants.gov submissions and other more complicated proposals, the final science justification must be received at least four [4] full business days before the proposal must be received at the sponsor.

In the event that the Project chooses not to print the required number of copies itself but instead have Sponsored Programs print the hardcopy submission copies of the proposal, an additional 2-3 full business days have to be added to these numbers so that Sponsored Programs will have the required time to have one of the outside printing companies that SAO is under contract with complete the printing in time.

If a proposal is in response to an RFP, the RFP [or URL of the applicable Web site] should also be sent to Sponsored Programs at least five [5] full business days prior to the deadline to allow for adequate time for review of the RFP's terms and conditions. On occasion, an RFP may include terms and conditions that conflict with SAO's policies, and additional time may be needed to resolve/negotiate any issues.

In addition, the PI should make sure that the Proposal Coordinator who is responsible for the proposal receives the proposal [or at least the cost section of the proposal] ten [10] full business days prior to the sponsor's submittal deadline so that they will have adequate time to prepare and finalize the proposal budget prior to submittal to FM/SPP.

For the Small Explorer [SMEX], Medium Explorer [MIDEX], and Discovery type missions, significantly more time must be required between the time the proposal is submitted for internal review and the sponsor's deadline [on the order of two (2) weeks for the budget].

Appendix F provides an analysis of the administrative review lead-times for some 288 proposals processed during FY 2008. The analysis revealed the following:

22% [64 proposals] were received with the requirement that they be reviewed ASAP,
06% [16 proposals] were received on the day they were required by the sponsor,
11% [33 proposals] were received 1-business day before the sponsor's due-date,
12% [34 proposals] were received 2-business days before the sponsor's due-date,
13% [37 proposals] were received 3-business days before the sponsor's due-date,
15% [43 proposals] were received 4-days before the sponsor's due-date, and
21% [61 proposals] were received 5-days or more before the sponsor's due-date.

Appendix F is sorted by the different administrative lead-times with the proposals sorted by PI within each subgroup. [Note: an additional 40 proposals were also processed during FY 2008, but the administrative review lead-times were not available for the analysis.]

Because late proposal reviews have been a chronic problem at SAO for a long time, the Committee further recommends that SAO adopt a late submission policy of requiring the PI to obtain approval [from the Director's Office] for any proposal not meeting the five day submittal requirement before it can be processed by FM/SPP. The policy would apply to electronic and paper submissions of new, competing, renewal, continuation, and re-submission proposals, regardless of sponsor, as long as the sponsor specifies a deadline. If no deadline is specified, FM/SPP will expect to have five [5] full business days to review the proposal. To obtain approval to submit a proposal after the deadline, the PI would send an email request to the appropriate Associate Director with a copy to the Director's Office, explaining why the proposal is late and the reasons it could not or cannot be submitted on time. If the Associate Director approves the late submission, he/she would notify the Director's Office who will bring it to the Director for consideration. If approved, the Associate Director, PI, and FM/SPP would be notified accordingly, and the proposal would be processed by FM/SPP in the order it was received, with no guarantee that the proposal will make it through the system in time.

In addition, FM and Sponsored Programs should make a greater effort to review and submit those proposals that are provided well before the sponsor's deadline. All too often, these proposals have been set aside to allow time for the review of the proposals that have been submitted at the last minute.

Recommendation #2 – Require that Principal Investigators be up-to-date on their technical report submittals to their sponsors in order to submit a proposal.

The Committee recommends that the current policy of automatically disapproving proposals for those Principal Investigators [PIs] with reports on the SPP monthly Late Reports List be enforced. Late reports reflect poorly on SAO's management abilities, and this poor performance is used by many government agencies in their past performance evaluations, which are made available to all government agencies and are used when scoring management capabilities during the proposal evaluation process.

As an example, in April 2008, there were a total of 127 late monthly, quarterly, annual, or final technical reports. Of these 52 were over 6-months late, 19 were over 1-year late, and 2 were over 2-years overdue.

The Committee recommends that the current policy be revised to mirror the current Delinquent Travel Expense Report policy and not allow a PI to submit a proposal if he/she has a technical report overdue by more than 30 days.

Recommendation #3 – Standardize proposal tools for use by all Divisions and Departments.

Currently, almost every Division seems to use a different set of spreadsheets to calculate the proposal budgets. The Committee recommends that the proposal budget worksheets be standardized and made available for any proposers that would like to use them. The use of these standardized worksheets should also allow for a faster review by FM.

These Excel worksheets would use linked-cell spreadsheets and be available for generating both one-year and multi-year proposals. More complicated proposals, such as a SMEX proposal, would use a different system, which is described in Recommendation #7.

The new budget tool will include the capability of loading hourly rates. It will also standardize [for proposal purposes only] the date, among the Divisions and Projects, when all Merit Step Increases [MSIs] and Promotions for SAO employees occur to be coincident with the date for the annual Cost Of Living Adjustment [COLA], which occurs in the first pay period in January. [The date for the actual MSIs and Promotions can take place anytime throughout the year, depending on the specific individual's anniversary date or actual promotion date.]

Recommendation #4 – Allow for electronic routing of proposal budgets and associated worksheets.

In order to streamline the proposal review process, the Committee recommends that the Proposal Coordinators be encouraged to electronically submit the review version of the budget, budget justification, and associated budget worksheets to the Financial Management [FM] Department in advance of the review copy of the complete proposal. Since the budget review process generally takes the most time, it is felt that this step will make the proposal review process smoother.

If the Coordinator chooses to do this, he/she must provide FM with all portions of the proposal that deal with the cost including the budget justification and budget worksheets as well as any pages from the proposal that have costing information on them. In this way, FM will be able to guarantee that no typos or errors were made in the process of transferring the costing information to the sponsor's forms and will have an opportunity to catch any rate mistakes or oversights before it gets to Sponsored Programs for the final review.

Once there is agreement on the budget, then a review hardcopy of the proposal, containing all corrections to the budget, should be routed by the Proposal Coordinator for internal review and approval by all concerned parties. Since most of the internal SAO reviewers prefer to review an actual hardcopy of the proposal for their review purposes, the Committee supports the position that the Proposal Coordinator continue to route a single hardcopy of the review version of the proposal to the Program Manager/Administrator, PI, AD, Central Engineering [if required], FM, and Sponsored Programs. In this way, we can avoid each reviewer having to make a copy of the proposal for their own individual review and keep track of all comments in one place.

Recommendation #5 – Improve the quality of the proposal that is submitted for review.

The Committee was informed by FM that based on statistical sampling approximately 80% of the proposal budgets that are received by them have errors, from small to large, that require additional inputs from the Proposal Coordinators and additional reviews before they can be submitted to the sponsor. Most proposals require one revision before they can be considered acceptable, but several have required two to three revisions before they can be sent out.

For FM to be able to conduct their review, they require the back-up calculations for salary, travel, equipment, and subcontracts. For salary calculations, grades and steps must be provided, and if they are going to change for an individual, the new grade/step and the anticipated date for the change must also be provided. Also, if staff from another Division are being included, then their name and grade/step must also be included on the proposal worksheets.

For Sponsored Programs to be able to deal with foreign travel effectively, they require the detailed specifics for any foreign trip so as to avoid having to go to the sponsor for prior foreign travel approval. In most cases, if these trips are specified in the approved award, then these trips are considered to have received prior approval.

When there is a complicated budget presentation required for the proposal, the Proposal Coordinator should check ahead of time with FM and Sponsored Programs in order to agree on an agreed upon format prior to the proposal being prepared and routed. Sometimes this requires the Sponsored Programs staff to check with the sponsor to determine what they require and are expecting.

Recommendation #6 – Combine the SAO Proposal Routing Sheet and the Printing/Mailing Request Form.

The Committee recommends that the SAO Proposal Routing Sheet and the Printing/Mailing Request Form be combined into one form.

The Committee further recommends that all Project personnel who review the proposal [e.g., the PI, Associate Director, and Proposal Coordinator] should initial the routing form and that alternates should only be allowed to sign for others in their Divisions in exceptional circumstances [and not routinely as is too often the case at present].

In addition, we recommend adding additional data fields to the new combined form or to the SAO Proposal Request Form [which is required in advance of submission for the Director's Office (DO) approval of the proposal] that :

- provides the PI's rating of the proposal's likelihood of funding;
- provides the phone numbers for the Proposal Coordinator and PI;
- indicates the name of the "on-call" administrative person to be contacted for any questions or revisions;
- lists the email address for the sponsor's contact person to whom the proposal will be directed;
- states whether or not the PI has any late technical reports due;
- states if any Human Subject clearances are required and have been obtained;
- notes whether any NSF or NIH financial disclosure statements are required and have been filed;
- adds a short title [or nickname in the event that it is too early to create a short title];
- specifies if cost-sharing is required and, if required, providing the associated pages from the AO that deal with cost-sharing; and
- states whether an Administrative Support and Project Oversight [AS/PO] expense waiver will be required and, if required, provide a copy of the waiver form that has been approved by the DO or SI's Chief Financial Officer [Ref. Smithsonian Directive 304 at http://prism.si.edu/opmb/pdf/SD304.pdf].

The Committee recommends having the SAO Proposal Request Form submitted to the DO 30-days prior to the proposal due-date as a means of providing a "Heads-Up" for all concerned parties [and significantly more time for the larger SMEX-type proposals] and having the new combined form routed with the review copy of the complete proposal.

Recommendation #7 – Complete the development of the existing Intuit QuickBase system for large multi-year proposals in the $10M to $100M range.

The Committee recommends that SAO should appoint a team, which should include representation from Project Management, Central Engineering, Financial Management, and Sponsored Programs, to investigate the cost to complete the development of the existing Intuit QuickBase system, which uses an Internet Explorer browser, that has been developed for large multi-year efforts in the $10M to $100M range that require monthly cost breakouts by Work Breakdown Structure [WBS]. This tool was developed jointly by both CE and HEAD several years ago and has been used to generate "What-If" proposal cost estimates. It was used in the past for the AIA proposal and more recently for the APEX and GI-HRI SMEX submittals. Note: The estimated cost for this QuickBase application is approximately $7,200/year for an indefinite number of users.

The advantages of this system are as follows:

- Since it is a web-based system, it allows several Project personnel to be working on a proposal simultaneously, e.g. inputting costs by WBS, etc., and it permits fairly quick turn-arounds when performing “What-If” determinations.
- By having all of the formulas, rates, etc. embedded in QuickBase, the process efficiency could be improved by having FM review the rates and formulas long before the final version is ready for submittal, thereby potentially easing the last-minute crunch in FM to review many large proposals within a few days.

Owing to some cost assumption limitations related to the timing of Cost of Living Allowances [COLAs], Merit Salary Increases [MSIs], and promotions, the output of this system has been used to generate cost estimates that have been used, in turn, as the basis for inputs into Excel spreadsheets for the proposal submittal. In accordance with Recommendation #3, the Committee proposes that the timing of COLAs, MSIs, and promotions be standardized such that they are all effective on the same date, i.e. the first pay period in January.

If the system can be made compliant with the requirements of the Federal Acquisition Regulation [FAR] Subpart 15.4 [Contract Pricing] and the budget permits, the Committee recommends that the development of this tool should be completed and that all interested parties within the SAO user community be educated on how to use it.

Recommendation #8 – Update the FM and Sponsored Programs websites to provide the latest set of instructions, forms, and other changes.

The Committee recommends that the FM and Sponsored Programs websites be refreshed so as to provide the very latest information related to preparing and submitting a proposal and that this material be reviewed and updated on at least a quarterly basis and the staff be notified accordingly.

In response, Sponsored Programs informed the ADs, DAs, DMs, and DO via email on 30 August 2007 that Sponsored Programs had consolidated two documents entitled "Responsibilities for Preparing, Reviewing, Submitting, and Negotiating Proposals" and "Proposal Preparation and Review [Revised]", which detailed the SAO Proposal Preparation Procedures, into one document entitled "Proposal Preparation, Review, Submission and Negotiation Procedures". The consolidation did not address any changes to the current process and procedures but simply combined the separate documents into one comprehensive document in order to improve its ease of use. This change was also announced on the Sponsored Programs "What's New" section of its website.

In further response, the Financial Management [FM] and Sponsored Programs and Procurement [SPP] Departments informed the DAs and DMs on 19 February 2008 that they had rolled out a new joint FM - SPP version of the Proposal Routing Status List, which was available via the FM website. This new Excel Spreadsheet provides staff with the name of the Proposal Coordinator, the name of the PI, the name of the associated Division or Department, the proposal title, the name of the sponsor to whom the proposal is being sent, the value of the proposal, the period-of-time requested to perform the work scope, whether the proposal has to undergo an Administrative Support and Project Oversight [AS/PO] review, the anticipated sponsor due-date, the

date when the proposal arrived in FM, the identity of the FM reviewer, the date FM forwarded the proposal to Sponsored Programs, the proposal number assigned to proposal, the revision level of the proposal, the date the proposal was transmitted by Sponsored Programs to the sponsor, and any pertinent comments pertaining to the proposal.

In addition, the Sponsored Programs website underwent a complete review and update during March and April 2008.

Recommendation #9 – Provide training and workshops to SAO staff and institute an email forum for proposal preparers.

The Committee recommends that FM and Sponsored Programs investigate setting up a training program and holding workshops for the SAO staff [at a rate of two per year].

The training should cover all aspects of proposal preparation and award administration as well as a tutorial on the use of the FM and SPP websites. Flowcharts that show the preparation and submission process for a proposal as it works its way through the system, including responsibilities for the Project, DO, FM, and Sponsored Programs, should be developed and explained during the training.

The workshops should cover any topics recommended by the Proposal Coordinators, FM, and Sponsored Programs, e.g. how to improve the quality of the proposal, the NASA Proposal process, the NSF proposal process, how to generate both scientific and administrative Biosketches, how to prepare a PI's Current and Pending Support list, etc.

The Committee also recommends that FM and Sponsored Programs [in conjunction with the Computations Facility's Web Services Group] investigate creating a majordomo-style email-list "forum" [Twiki web site] for proposal preparers to discuss and share ideas, especially during major proposal periods, in order to facilitate answering any questions and/or concerns that the Proposal preparers may have.

Recommendation #10 – Develop a large proposal process and team.

Shortly after the Small Explorer [SMEX] and Mission of Opportunity [MO] proposals had been submitted [eight proposals valued at $203 million], the Committee met with several of the staff from the High Energy Astrophysics Division, Central Engineering, and Sponsored Programs who had been responsible for generating these proposals for a "Lessons Learned" review. The key "lessons" [in random order] were as follows:

- In cases where SAO is not the lead, but rather a Co-I participant, the Project should have assumed the responsibility for obtaining the proposal budget format requirements in writing from the PI institution.
- The decision as to which proposals to support should have been made several months earlier by the Director's Office.
- The amount of proposal preparation funding should have been decided upon and released earlier by the Director's Office [ideally this should have been done by the time the final Announcement of Opportunity [AO] had been issued by NASA].
- The funding by the Director's Office for the preparation of large proposals should be increased in the future.

- The Request for Information [RFI] used to select our teaming partners should have been sent out by the Project to potentially interested teaming partners sooner; an earlier RFI activity may have resulted in obtaining better resources from our partners.
- The Project, Central Engineering, and Procurement should generate an RFI template for use in the future.
- Word was not the best tool for generating a large proposal; SAO should purchase another tool, such as Adobe InDesign or FrameMaker, that would work with Word.
- A proposal template, which would have provided a uniformity for all of the SAO proposal submissions, should have been developed in advance; there was a concern that the proposals that were submitted were not easily identifiable in "look" or "feel" as being from SAO.
- The schedule that is used in the proposal should have been agreed upon sooner; once this was done, cost templates for breakouts by fiscal year and program phase should have been developed and mandated for use by all parties including our subcontractors.
- There should have been an overall AO "Kick-Off" meeting with representation from each of the proposal teams.
- There should have been a "Kick-Off" meeting for each of the proposals with participation by all members of the proposal team, i.e. science, engineering, administrative support, FM, and Sponsored Programs.
- Ideally, there should be an "on-call" SAO group of engineers and administrators [from the Projects, Divisions, Financial Management, and Sponsored Programs] that is available to work on any large proposals that SAO will submit.
- There should have been a web-based standardized tool available for the preparation of the costing that provides the capability to generate monthly cost breakouts by Work Breakdown Structure [per Recommendation #7 above].
- There should have been a minimum of a "Red-Team" and "Gold-Team" review for each of the proposals before they were submitted.
- A determination as to where to print the proposal could have been made sooner; some of the proposals could have been printed by our teaming partners instead of by the Project at SAO or by SAO's printing contractor.
- Financial Management and Sponsored Programs should have conducted early "in process" reviews of the proposals instead of limiting their review to the final versions of the proposals.
- The reviews by Financial Management and Sponsored Programs should have been conducted in parallel.

Recommendation #11 – Expand current written proposal policy to include PI's responsibilities for proposal development.

The Committee recommends that SAO expand the current written proposal policy to include the Principal Investigator's [PI's] responsibilities for proposal development. PIs naturally tend to focus on their primary responsibility for the scientific and technical content and for the organization of their Co-Investigators' [Co-Is] and Collaborators' contributions to the proposal. Most new and many experienced PIs are less aware of their responsibility for other aspects of the proposal. Given that SAO hosts a large number of postdocs and other junior scientists, the Committee believes that written policies and regular training opportunities would be extremely helpful.

Complexities associated with budget preparation are not always appreciated by PIs. Building detailed budgets at the proposal stage can prevent complicated negotiations with the funding agency after an award is made, as mentioned above. Also, foreign travel, financial, and purchasing requirements are becoming increasingly more restrictive, such that decisions to make a foreign trip or to purchase equipment [using the proper object classification for this type of property] are best built into the proposal.

The PI must ensure that the administrative support be obtained in a timely and professional manner. The PI needs to work with the Proposal Coordinator to meet any deadlines or other requirements for proposal components, such as the routing slip, budget, statement of work, etc. The PI should recognize that more complex proposals [e.g. subcontracts with other U.S. or foreign institutions, proposals requiring Memoranda of Understanding, International Traffic in Arms Regulations (ITAR), Export Administration Regulations (EAR), use of Human Subjects, etc.] require additional time and should act accordingly. Planning well ahead of the proposal due-date is the best way to ensure that the proposal receives the optimal level of support and review. The PI should be familiar with the overall SAO preparation, review, and submission processes and should take advantage of any opportunities for training in the area of proposal development. Any requests for extensions of internal deadlines require exceptional justification and should be made well in advance of the deadline.

Recommendation #12 – formalize the policy and process for requesting funding from Institutional and Development sources..

The Committee recommends that SAO formalize the policy and process for requesting funding from Institutional and other Development sources [e.g. IR&D, Research Equipment, SI Women's Committee, Scholarly Studies Program, Endowment, Atherton Seidell Grant Program, Brinson Foundation, Moore Foundation, etc.]. It should be clear to all if the proposal has to be formally reviewed by the Financial Management Department and the Sponsored Programs staff, if a proposal number will be assigned, if the proposal will be submitted by the Director's Office or Sponsored Programs, etc.

APPENDIX A

SUMMARY OF NEW PROPOSALS SUBMITTED BY SAO DIVISIONS AND DEPARTMENTS DURING CY 2006 AND CY 2007

	CY 2006		CY 2007	
DIVISIONS AND DEPARTMENTS	**# NEW PROPOSALS**	**$ NEW PROPOSALS**	**# NEW PROPOSALS**	**$ NEW PROPOSALS**
Atomic and Molecular Physics Division	27	$ 13,751,005	24	$ 9,737,953
Central Engineering Department	3	$ 137,166	7	$ 3,812,423
Director's Office	3	$ 1,778,262	1	$ 80,000
High Energy Astrophysics Division	111	$ 132,129,894	121	$ 28,526,710
Optical and Infrared Astronomy Division	40	$ 17,908,871	63	$ 31,210,926
Radio and Geoastronomy Division	27	$ 14,107,784	31	$ 6,110,439
Science Education Department	10	$ 9,986,873	18	$ 6,424,535
Solar, Stellar, and Planetary Science Division	23	$ 8,598,807	28	$ 7,097,821
Theoretical Astrophysics Division	14	$ 2,412,093	25	$ 6,168,396
TOTAL	**258**	**$ 200,810,755**	**318**	**$ 99,169,203**

APPENDIX B

TOTAL NUMBER [AND ASSOCIATED VALUE] OF NEW PROPOSALS SUBMITTED BY PIs DURING CY 2007

# of PIs Submitting Proposals	PI	Div	Total # of Proposals	Total $ of Proposals
1	Schneps, M.	SED	**11**	$ 2,560,360
1	Golub, L.	HEA	**10**	$ 3,580,225
1	DiStefano, R.	TA	**9**	$ 1,397,866
2	Chance, K.	AMP	**8**	$ 5,065,973
	Melnick, G.	OIR	8	$ 6,812,553
2	Kasper, J.	HEA	**7**	$ 1,057,652
	Silver, E.	HEA	7	$ 3,538,952
4	Bourke, T.	RG	**6**	$ 1,018,796
	Smith, H.	OIR	6	$ 10,031,559
	Stark, A	RG	6	$ 2,228,147
	Zezas, A.	HEA	6	$ 294,587
6	Cohen, L.	CE	**5**	$ 3,666,189
	Davis, J.	RG	5	$ 863,653
	Holman, M.	TA	5	$ 1,119,215
	Jones, C.	HEA	5	$ 981,789
	Torres, G.	OIR	5	$ 836,073
	Weekes, T.	OIR	5	$ 2,450,782

# of PIs Submitting Proposals	PI	Div	Total # of Proposals	Total $ of Proposals
10	Clemens, C.	HEA	**4**	$ 110,763
	Fabbiano, G.	HEA	4	$ 3,701,013
	Fazio, G.	OIR	4	$ 1,317,458
	Hora, J.	OIR	4	$ 259,196
	Karovska, M.	HEA	4	$ 158,336
	Kharchenko, V.	AMP	4	$ 1,040,025
	Korzennik, S.	SSP	4	$ 1,039,751
	Spahr, T.	SSP	4	$ 2,424,038
	Tolls, V.	OIR	4	$ 1,714,459
	Wolk, S.	HEA	4	$ 241,786
20	Alcock, C.	DO	**3**	$ 1,588,490
	Allen, L.	OIR	3	$ 642,719
	Ashby, M.	OIR	3	$ 3,246,938
	Bakos, G.	SSP	3	$ 1,311,498
	Brickhouse, N.	SSP	3	$ 481,906
	Forman, W.	HEA	3	$ 195,993
	Garcia, M.	HEA	3	$ 146,837
	Gorenstein, P.	HEA	3	$ 258,602
	Gould, R.	SED	3	$ 2,790,639
	Huang, J.	OIR	3	$ 155,915
	Kohl, J.	SSP	3	$ 1,660,014
	Maughan, B.	HEA	3	$ 145,831
	McClintock, J.	HEA	3	$ 359,487
	Nulsen, P.	HEA	3	$ 813,144
	Phillips, J.	AMP	3	$ 140,095
	Rines, K.	OIR	3	$ 149,141
	Siemiginowska, A.	HEA	3	$ 119,422
	Slane, P.	HEA	3	$ 198,262
	Slavin, J.	HEA	3	$ 663,194
	Vrtilek, S.	HEA	3	$ 617,609

# of PIs Submitting Proposals	PI	Div	Total # of Proposals	Total $ of Proposals
27	Bookbinder, J.	HEA	**2**	$ 700,000
	Chakrabarti, S.	TA	2	$ 118,529
	Elvis, M.	HEA	2	$ 130,217
	Harris, D.	HEA	2	$ 171,754
	Jonker, P.	HEA	2	$ 143,742
	Jordan, A.	OIR	2	$ 53,318
	Kalteneggar, L.	OIR	2	$ 897,907
	Kenyon, S.	SSP	2	$ 257,104
	Kim, D-W.	HEA	2	$ 122,501
	Latham, D.	OIR	2	$ (241,599)
	Li, Y	TA	2	$ 306,550
	Mamajek, E.	RG	2	$ 78,700
	Marengo, M.	OIR	2	$ 105,890
	Mazzotta, P.	HEA	2	$ 127,965
	Muench, A.	RG	2	$ 504,196
	Murray, S.	HEA	2	$ 405,017
	O'Sullivan, E.	HEA	2	$ 148,753
	Patnaude, D.	HEA	2	$ 73,635
	Petaev, M.	SSP	2	$ 345,576
	Reasenberg, R.	AMP	2	$ 1,881,229
	Risaliti, G.	HEA	2	$ 279,515
	Saar, S.	HEA	2	$ 133,354
	Sadeghpour, H.	AMP	2	$ 388,993
	Sridharan, T.	CE	2	$ 146,234
	Wang, H.	AMP	2	$ 450,664
	Wilkes, B.	HEA	2	$ 1,176,314
	Willman, B.	TA	2	$ 121,264
50	Blundell, R.	RG	**1**	$ 190,537
	Brissenden, R.	HEA	1	$ 936,607
	Butt, Y.	HEA	1	$ 59,976
	Cranmer, S.	OIR	1	$ 294,644
	Dame, T.	RG	1	$ 17,252
	David, L.	HEA	1	$ 48,198
	Drake, J.	HEA	1	$ 9,997
	Dupree, A.	SSP	1	$ 48,000
	Dussault, M.	SED	1	$ 556,487
	Eichhorn, E.	HEA	1	$ 16,285
	Evans, N.	HEA	1	$ 3,690

# of PIs Submitting Proposals	PI	Div	Total # of Proposals	Total $ of Proposals
	Gardner, L.	SSP	1	$ 368,503
	Gottlieb, C.	RG	1	$ 254,950
	Green, D.	SSP	1	$ 851,044
	Greenhill, L.	SSP	1	$ 17,724
	Griswold, A.	SED	1	$ 419,268
	Humphreys, L.	RG	1	$ 221,146
	Jucks, K.	OIR	1	$ 9,817
	Ko, Y.	SSP	1	$ 358,255
	Korreck, K.	HEA	1	$ 123,302
	Kurosu, T.	AMP	1	$ 89,998
	Kurucz, R.	SSP	1	$ 30,000
	Lada, C.	RG	1	$ 93,500
	Liu, Jifeng	TA	1	$ 128,015
	Loehr, A.	RG	1	$ 25,000
	Markevitch, M.	HEA	1	$ 204,283
	Matthews, L.	RG	1	$ 261,983
	McCarthy, M.	AMP	1	$ 378,752
	McLeod, B.	OIR	1	$ 945,747
	Meibom, S.	OIR	1	$ 263,089
	Nicastro, F.	HEA	1	$ 29,889
	Pahre, M.	OIR	1	$ 314,522
	Plucinsky, P.	HEA	1	$ 10,013
	Prestwich, A.	HEA	1	$ 40,669
	Raymond, J.	SSP	1	$ 34,307
	Reeves, K.	HEA	1	$ 276,047
	Roelofs, G.	HEA	1	$ 33,632
	Soon, W.	SSP	1	$ 55,000
	Steeghs, D.	HEA	1	$ 46,889
	Strachan, L.	SSP	1	$ 38,000
	Szentgyorgyi, A.	OIR	1	$ 891,523
	Tananbaum, H.	HEA	1	$ 4,978,109
	Tappe, A.	RG	1	$ 26,826
	Vikhlinin, A.	HEA	1	$ 119,040
	Vrtilek, J.	HEA	1	$ 48,192
	Walsworth, R.	AMP	1	$ 302,224
	Wang, Z.	OIR	1	$ 59,275
	Wargelin, B.	HEA	1	$ 88,990
	Weintroub, J.	RG	1	$ 77,948
	Wilner, D.	RG	1	$ 247,805
124		**TOTAL**	**318**	**$ 99,169,203**

APPENDIX C

LIST OF SPONSORS FOR NEW PROPOSALS SUBMITTED BY SAO DURING CY 2007

	Sponsor	# of Proposals Submitted to Sponsor	$ of Proposals Submitted to Sponsor
1	NASA	89	$ 36,716,158
2	Jet Propulsion Laboratory [JPL]	50	$ 21,787,060
3	SAO (Chandra)	38	$ 2,668,558
4	National Science Foundation [NSF]	37	$ 14,831,391
5	Space Telescope Science Institute [STScI]	18	$ 975,847
6	Lockheed Martin	11	$ 4,244,320
7	Massachusetts Institute of Technology [MIT]	9	$ 301,485
8	California Institute of Technology [Caltech]	5	$ 1,016,536
9	Department of Energy [DOE]	5	$ 2,026,928
10	Georgia State University	2	$ 170,176
11	Johns Hopkins University	2	$ 385,862
12	Museum of Science	2	$ 71,612
13	Naval Research Laboratory [NRL]	2	$ 171,530
14	Oregon State University	2	$ 868,491
15	Smithsonian Networks	2	$ 262,286
16	University of Arizona	2	$ 4,353,736
17	University of Massachusetts	2	$ 239,962
18	Argonne National Laboratory	1	$ 645,000
19	Arizona State University	1	$ 9,997
20	Astrophysical Journal	1	$ 35,905
21	Brinson Foundation	1	$ 25,000
22	Brown University	1	$ 138,636
23	Coalition of Essential Schools [CES]	1	$ 22,161
24	EDP Sciences	1	$ 16,285
25	FEI Company	1	$ 232,861
26	Free to Choose Media	1	$ 19,383
27	Fudan University	1	$ 604,569
28	Genzyme Corp	1	$ 60,029
29	Harvard University	1	$ 302,224
30	Kansas Sate University	1	$ 320,001
31	Keck Foundation	1	$ 80,000
32	National Center for Atmospheric Research [NCAR]	1	$ 17,148
33	National Institute for Environmental Studies [NIES]	1	$ 30,000
34	National Institutes of Health [NIH]	1	$ 111,368

	Sponsor	# of Proposals Submitted to Sponsor	$ of Proposals Submitted to Sponsor
35	National Institute of Standards and Technology [NIST]/ Department of Commerce [DOC]	1	$ 150,000
36	National Optical Astronomy Observatory [NOAO]	1	$ 945,747
37	New Hampshire Community Technical College	1	$ 399,201
38	Oberlin College	1	$ 424,899
39	Payload Systems, Inc.	1	$ 75,408
40	Praxis, Inc.	1	$ 80,056
41	Seabrook Engineering	1	$ 19,791
42	Southern Company Services [SCS]	1	$ 55,000
43	Southern University	1	$ 38,000
44	Space Science Institute	1	$ 90,180
45	Stanford Linear Accelerator Center [SLAC]	1	$ 17,252
46	Thomas Jefferson University	1	$ 1,155,905
47	U.S.-Israel Binational Science Foundation	1	$ 68,992
48	University Corporation for Atmospheric Research [UCAR]	1	$ 89,998
49	University of Chicago	1	$ 61,602
50	University of Colorado	1	$ 167,980
51	University of Maryland	1	$ 113,582
52	University of New Hampshire	1	$ 294,644
53	University of North Dakota	1	$ 32,336
54	University of Tennessee-Battelle, LLC Oak Ridge National Laboratory	1	$ 24,657
55	University of Toledo	1	$ 368,097
56	University of Virginia	1	$ 694,807
57	University of Washington	1	$ 38,564
57		**TOTAL**	**$ 99,169,203**

APPENDIX D

NEW PROPOSALS SUBMITTED BY PIs DURING CY 2007
SORTED BY PROPOSAL VALUE

	Proposal #	Date	PI	Div	Short Proposal Title	Sponsor	Value	# Yrs
1	P6799-10-07	10/03/07	Tananbaum, H.	HEA	Constellation X-Ray Technical, Science and Mission Study Support	NASA/GSFC	$4,978,109	3.0
2	P6863-12-07	12/14/07	Melnick, G.	OIR	Ground Data System [GDS] and Co-I Support to the Space Terahertz Interstellar Mapper (STIM)	University of Arizona [SMEX]	$4,323,736	5.5
3	P6831-10-07	10/31/07	Cohen, L.	CE	Independent Technical Oversight of JWST OTE Development	NASA/GSFC	$3,349,749	5.0
4	P6830-10-07	10/30/07	Fabbiano, G.	HEA	HerINGS: The Herschel Interacting Galaxies Survey	JPL [Herschel]	$3,177,992	3.5
5	P6807-10-07	10/18/07	Smith, H.	OIR	CFA Participation in the Hi-GAL Program	JPL [Herschel]	$3,156,957	3.5
6	P6822-10-07	10/29/07	Ashby, M.	OIR	The Herschel Reference Bright Galaxy Survey (HERBGS)	JPL [Herschel]	$3,054,013	3.5
7	P6827-10-07	10/30/07	Smith, H.	OIR	CFA Contributions to the Hermolirg Program	JPL [Herschel]	$3,026,400	3.5
8	P6861-12-07	12/12/07	Chance, K.	AMP	Imaging Fabry-Perot Spectrometer for CO Measurements from Space at 2.4 Microns	NASA	$2,981,172	3.0
9	P6583-12-06	12/28/06	Golub, J.	HEA	Continuation of SP02H1701R (Cost to Complete)	Lockheed	$2,971,452	9.7
10	P6812-10-07	10/23/07	Smith, H.	OIR	CfA Tasks in Support of the Herschel "HERLOGAL" Program	JPL [Herschel]	$2,773,560	3.5
11	P6571-11-06	11/15/06	Gould, R.	SED	Exploring the Frontiers of Science Using Online Telescopes	NSF	$2,685,559	5.0
12	P6729-8-07	08/07/07	Spahr, T.	TA	Operation of the Minor Planet Center	NASA	$2,122,901	3.0
13	P6691-6-07	06/01/07	Reasenberg, R.	AMP	Development of a Payload Design and Required Technology for a Test of the Equivalence Principle on a Sounding Rocket	NASA	$1,731,229	3.0
14	P6635-3-07	03/29/07	Kohl, J.	SSP	SOHO Ultraviolet Coronagraph Spectrometer (UVCS) Mission Operations and Data Analysis	NASA/GSFC	$ 1,500,000	1.0
15	P6590-1-07	01/17/07	Silver, E.	HEA	Resonant Nano-plasma Theranostics	Thomas Jefferson University	$1,155,905	3.0
16	P6825-10-07	10/30/07	Wilkes, B.	HEA	UniQuE: Unification in the Quasar Era	JPL [Herschel]	$1,016,315	3.5
17	P6560-10-06	10/31/06	Weekes, T.	OIR	Continuation of Grant DE-FG-02-91ER40635	DOE	$ 993,000	3.0
18	P6714-6-07	06/29/07	Silver, E.	HEA	Advanced Chemical Analysis of Cometary Materials and Interstellar Dust Using a Microcalorimeter and a Low Vacuum Scanning Electron Microscope	NASA	$ 992,927	3.0
19	P6738-8-07	08/30/07	McLeod, B.	OIR	MMIRS Continuation Proposal	NAOA	$ 945,747	1.8
20	P6850-11-07	11/16/07	Brissenden, R.	HEA	A Concept Study of the Technology Required for Generation X: A Large Area and High Angular Resolution X-Ray Observatory to Study the Early Universe	NASA	$ 936,607	1.0
21	P6851-11-07	11/19/07	Melnick, G.	OIR	Continued Study of the Cosmic Inflation Probe Mission Concept	NASA	$ 905,128	1.0
22	P6832-11-07	11/01/07	Szentgyorgyi, A.	OIR	Collaborative Research: Develop a Bright, Ultrastable Optical Wavelength Calibrator for Exoplanet and Cosmology Research	NSF	$ 891,523	2.0

	Proposal #	Date	PI	Div	Short Proposal Title	Sponsor	Value	# Yrs
23	P6565-11-06	11/15/06	Green, D.	SSP	Central Bureau for Astronomical Telegrams	NSF	$ 851,044	5.0
24	P6826-10-07	10/30/07	Melnick, G.	OIR	The Herschel Mapping Sgr B2 and Orion Program (MAPSO)	JPL [Herschel]	$ 840,976	3.5
25	P6828-10-07	11/05/07	Smith, H.	OIR	CFA Contributions to the Hercules Program	JPL [Herschel]	$ 831,730	3.5
26	P6769-9-07	09/12/07	Alcock, C.	HEA	Multi-Object High Speed Photometer Technology Demonstration Program	NASA	$ 828,061	3.0
27	P6642-4-07	04/10/07	Tolls, V.	OIR	Development of Soft-Edge Coronagraphic Occulter Masks for Visible and Near-Infrared Wavelenghts	NASA	$ 758,938	3.0
28	P6592-1-07	01/26/07	Stark, A.	RG	Development of a Parallel Imager for the Southern Cosmology Observations: Time Evolution of Dark Energy	NSF	$ 757,213	2.0
29	P6556-10-06	10/30/06	Stark, A	RG	Collaborative Research to Develop a Parallel Imager for Southern Cosmology Observations: Time Evolution of Dark Energy	NSF	$ 727,462	2.0
30	P6593-1-07	01/26/07	Bakos, G.	SSP	Acquisition of a 3-Station Global Network of Automated Telescopes to Detect a Large Number of Nearby Transiting Extra-solar Planets	NSF	$ 719,533	2.0
31	P6743-9-07	09/12/07	Jones, C.	HEA	REU Site for Astrophysics at SAO	NSF	$ 712,260	5.0
32	P6595-1-07	01/26/07	Schneps, M.	SED	Visuospatial Abilities and Dyslexia in STEM	University of Virginia	$ 694,807	3.0
33	P6558-10-06	10/31/06	Tolls, V.	OIR	Development of Soft-Edge Occulters and Apodizers for Coronagraphy	NSF	$ 683,899	3.0
34	P6846-11-07	11/15/07	Alcock, C.	TA\	Constraint on Dark Energy Through Measurement of Maser Distances and HO	NSF	$ 680,429	3.0
35	P6793-9-07	09/27/07	Weekes, T.	OIR	ACTPROPOSAL - A Proposal by ANL to the Department of Energy	Argonne Nat. Lab.	$ 645,000	3.0
36	P6551-10-06	10/17/06	Bookbinder, J.	HEA	Trace MODA, Phase IX	Lockheed	$ 630,000	2.8
37	P6644-4-07	04/10/07	Silver, E.	HEA	A Microcalorimeter Spectrometer System For the EBIT at Fudan University	Fudan University	$ 604,569	1.0
38	P6699-6-07	06/15/07	Chance, K.	AMP	Smithsonian Astrophysical Observatory Membership in the Aura Science Team	NASA	$ 602,339	3.0
39	P6641-4-07	04/03/07	Dussault, M.	SED	Observing With NASA: facilitating pathways for authentic STEM inquiry with real space science data using a robotic telescope network and an e-learning infrastructure	NASA	$ 556,487	3.0
40	P6698-6-07	06/15/07	Chance, K.	AMP	Satellite-Based Halogen Oxide Measurements in Support of the ARCTAS Campaign and Tropospheric Science	NASA	$ 552,576	3.0
41	P6829-10-07	10/30/07	Fazio, G.	OIR	H-COSMOS	JPL [Herschel]	$ 544,985	3.5
42	P6686-5-07	05/25/07	Bakos, G.	SSP	HATNet Detection and Characterization of Exoplanets Transiting Bright Stars	NASA	$ 492,495	3.0
43	P6632-3-07	03/16/07	Kalteneggar, L.	OIR	Mapping Planetary Atmospheres and Biomarkers and Assessing the Implication for Spitzer	NASA	$ 484,258	3.0
44	P6789-9-07	09/26/07	Weekes, T.	OIR	VERITAS	DOE	$ 462,782	1.0
45	P6649-4-07	04/13/07	Silver, E.	HEA	Spectroscopic Studies of Collisional and Photoionized Plasmas Using EBIT	NASA	$ 461,954	3.0
46	P6548-10-06	10/11/06	Schneps, M.	SED	Engineering and Science Education	Oregon State University	$ 449,223	3.0
47	P6568-11-06	11/15/06	Torres, G.	OIR	Critical Tests of Stellar EvolutionTheory	NSF	$ 427,637	3.0
48	P6823-10-07	10/26/07	Stark, A.	RG	SAO Component of Herschel Legacy Observations of Inner Galaxy Gas	Oberlin College [Herschel]	$ 424,899	3.5

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49	P6803-10-07	10/05/07	Griswold, A.	SED	Multimedia Production: Science and Engineering in the Lives of Students	Oregon State University	$ 419,268	3.0
50	P6682-5-07	05/24/07	Kaltenegger, L.	OIR	Super-Earths and Earth-Like Planets	NASA	$ 413,649	3.0
51	P6862-12-07	12/12/07	Fazio, G.	OIR	Phase E Engineering Support to Instrument Operations Warm Mission Planning for the IRAC for the SST [cont. Contract 2-1062296]	Caltech	$ 400,142	0.8
52	P6652-4-07	04/26/07	Schneps, M.	SED	Middle School Biotechnology Awareness	New Hampshire Community Technical College	$ 399,201	2.0
53	P6706-6-07	06/21/07	Muench, A.	RG	Constraining the Stellar Initial Mass Function Through a Broad Spectrum Archival Study of Star Forming Regions	NASA	$ 398,140	3.0
54	P6557-10-06	10/31/06	Chance, K.	AMP	Algorithm and Validation Studies for the Orbiting Carbon Observatory	NASA	$ 394,477	3.0
55	P6663-5-07	05/11/07	Korzennik, S.	SSP	Time-Series Mode Fitting: Improved Methodology Derived from Very Long Time Series	NASA	$ 389,741	3.0
56	P6840-11-07	11/13/07	Nulsen, P.	HEA	Mechanism and Effects of Nuclear Outbursts in Elliptical Galaxies, Groups and Clusters	NSF	$ 387,263	3.0
57	P6591-1-07	01/24/07	Brickhouse, N.	SSP	ATOMB: Towards an Accessible, Accurate and Complete Atomic Database	NASA/GSFC	$ 382,523	3.0
58	P6810-10-07	10/19/07	Kasper, J.	HEA	Imaging the Magnetic Field in the Inner Heliosphere to Improve Predictions of Geospace Environment Conditions	NASA	$ 379,412	3.0
59	P6646-4-07	04/12/07	McCarthy, M.	AMP	Negative Molecular Ions and Other Exotic Molecules in Space: A Coordinated Astronomical, Laboratory and Theoretical Study	NASA	$ 378,752	3.0
60	P6858-11-07	12/03/07	Melnick, G.	OIR	The Water Cycle, the Oxygen budget, and the Structure of Interstellar Clouds	NASA	$ 375,585	2.0
61	P6848-11-07	11/15/07	Vrtilek, S.	HEA	Modulation Tomography: Imaging the Disks of X-ray Binaries	NSF	$ 371,310	1.0
62	P6573-11-06	11/15/06	Nulsen, P.	HEA	Mechanism and Effects of Nuclear Outbursts in Elliptical Galaxies	NSF	$ 370,873	3.0
63	P6809-10-07	10/19/07	Kharchenko, V.	AMP	X-ray Emission as a Probe for CME Interaction with the Geocorona and Interplanetary Gas	NASA	$ 369,498	3.0
64	P6600-2-07	02/07/07	Gardner, L.	SSP	Final Archive of UVCS/Spartan Data and Modeling of the Corona During the First Two Polar Passages of Ulysses	NASA	$ 368,503	3.0
65	P6818-10-07	10/24/07	Allen, L.	OIR	Herschel Orion Protostar Survey	University of Toledo [Herschel]	$ 368,097	3.5
66	P6842-11-07	11/15/07	Di Stefano, R.	TA	Employing the Power of Lensing in the Solar Neighborhood: Nearby Dwarfs, Habitable Planets and Stellar Remnants with Mesolensing	NSF	$ 367,748	3.0
67	P6718-7-07	07/18/07	Wang, H.	AMP	Three Dimensional Modeling of Martian Atmospheric Composition	NASA	$ 365,275	3.0
68	P6564-11-06	11/15/06	Holman, M.	TA	Binary Lenses: The Power of Two	NSF	$ 365,234	3.0
69	P6598-2-07	02/02/07	Ko, Y.	SSP	Source Regions of the Slow Solar Wind: A Joint SOHO/UVCS and ACE/SWICS Abundance Study	NASA	$ 358,255	3.0
70	P6567-11-06	11/15/06	DiStefano, R.	TA	Lensing by Nearby Objects: The Kiloparsec Census	NSF	$ 357,176	3.0
71	P6660-5-07	05/09/07	Fazio, G.	OIR	Continuation of Caltech Contract 2-1062296	Caltech	$ 350,320	1.0
72	P6597-1-07	01/30/07	Murray, S.	HEA	Terabytes to Kilobytes: Finding the "needle in the haystack"	NASA	$ 350,181	1.5
73	P6692-6-07	06/01/07	Slavin, J.	HEA	Stardust Processing in the Interstellar Medium: From AGB Winds to Supernova Remnant Shocks	NASA	$ 344,057	3.0
74	P6602-2-07	02/09/07	Kharchenko, V.	AMP	X-Ray Diagnostics of Interactions Between the Solar Wind and Heliospheric Gas	NASA	$ 333,103	3.0

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75	P6811-10-07	10/19/07	Korzennik, S.	SSP	Robust Time-Distance Inferences	NASA	$ 331,855	3.0
76	P6725-7-07	07/31/07	Fabbiano, G.	HEA	ITR/IM Building the Framework of the National Virtual Observatory	Johns Hopkins Univ	$ 331,026	1.0
77	P6579-12-06	12/12006	Sadeghpour, H.	AMP	SAO Participation in NSF ann 06-595 NIRT Proposal	Kansas Sate University	$ 320,001	4.0
78	P6708-6-07	06/21/07	Pahre, M.	OIR	Pan-Chromatic View of Elliptical Galaxies: Not Old, Not Dead, Not Red?	NASA	$ 314,522	3.0
79	P6720-7-07	07/20/07	Kharchenko, V.	AMP	Impact of Energetic Ions and Atoms on the Formation and Evolution of Noctilucent Clouds	NASA	$ 312,767	3.0
80	P6685-5-07	05/25/07	Holman, M.	TA	Accurate Estimates of the Intrinsic Abundances of Different TNO Populations	NASA	$ 306,689	3.0
81	P6601-2-07	02/08/07	Schneps, M.	SED	Interventions to Support STEM Researchers with Dyslexia	NSF	$ 303,125	2.0
82	P6804-10-07	10/12/07	Walsworth, R.	AMP	Very Low Field MRI Optimization and Feasibility	Harvard University	$ 302,224	0.9
83	P6690-5-07	05/31/07	Cranmer, S.	OIR	Generation of the Solar Wind	Univ. of New Hampshire	$ 294,644	3.0
84	P6730-8-07	08/15/07	Reeves, K.	HEA	SHINE: Connecting CME Dynamics to Coronal Emissions Through Numerical Modeling	NSF	$ 276,047	3.0
85	P6856-11-07	11/28/07	Davis, J.	RG	Collaborative Research: Imaging Subcontinental-Scale Slip Events Near the Moho	NSF	$ 264,940	2.0
86	P6677-5-07	05/18/07	Meibom, S.	OIR	Kepler Mission Participating Scientist	NASA	$ 263,089	3.0
87	P6580-12-06	12/07/06	Davis, J.	RG	Collaborative Research: High-Resolution Studies of Glacier Dynamics at Two Major Outlet Glaciers in East Greenland	NSF	$ 262,096	3.0
88	P6849-11-07	11/15/07	Matthews, L.	RG	The HI 21-cm Line as a Probe of Stellar Mass-Loss and Evolution	NSF	$ 261,983	2.0
89	P6675-5-07	05/18/07	Korzennik, S.	SSP	p-Mode Characterization in the Kepler Field: From Collapsograms to Robust and Sophisticated Mode Fitting Methodologies	NASA	$ 261,270	3.0
90	P6569-11-06	11/15/06	Slavin, J.	HEA	Supernova Remnant Evolution and Turbulent Mixing Layers: Simulations and Diagnostics via High-Stage Ions	NSF	$ 257,535	3.0
91	P6684-5-07	05/24/07	Gottlieb, C.	RG	Precise Laboratory Measurements of Line Frequencies Useful to Studies of Star and Planet Formation	NASA	$ 254,950	3.0
92	P6614-2-07	02/23/07	Chance, K.	AMP	Optimal Data Record for Co-located Ozone and Carbon Monoxide Atmospheric Profiles Using EOS Aura, TES, MLS and OMI	JPL	$ 249,707	5.0
93	P6665-5-07	05/15/07	Wilner, D.	RG	Circumstellar Disk Structure and the origins of Planetary Systems	STScI	$ 247,805	3.0
94	P6570-11-06	11/15/06	Bourke, T.	RG	The Early Stages of Low Mass Star Formation	NSF	$ 244,060	3.0
95	P6843-11-07	11/15/07	Bourke, T.	RG	The Birth and Evolution of Protoplanetary Disks	NSF	$ 237,457	3.0
96	P6702-6-07	06/22/07	McClintock, J.	HEA	Measuring Black Hole Spin by Spectral Fitting of the X-Ray Continuum	NASA	$ 235,874	3.0
97	P6683-5-07	05/24/07	Bourke, T.	RG	Birth and Evolution of Proto-Planetary Disks	NASA	$ 234,766	3.0
98	P6833-11-07	11/02/07	Kenyon, S.	SSP	EDGES: Evolution of Dust and Gas in Exo-Solar Systems	JPL [Herschel]	$ 232,904	4.0
99	P6815-10-07	10/25/07	Silver, E.	HEA	FEI Microcalorimeter Project	FEI Company	$ 232,861	1.0
100	P6732-8-07	08/15/07	Kasper, J.	HEA	Collaborative Research: Structure, Dynamics and Sources fo the Slow Solar Wind	NSF	$ 228,942	3.0
101	P6647-4-07	04/12/07	Stark, A.	RG	The Stratospheric Terahertz Observatory (STO); Work at the Smithsonian Astrophysical Observatory	NASA	$ 227,014	4.0

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102	P6625-3-07	03/13/07	Risaliti, G.	HEA	Outflow Variability and Black Hole Occultation in NGC 1365	NASA/GSFC [XMM Stage-2]	$ 225,454	1.0
103	P6709-6-07	06/21/07	Vrtilek, S.	HEA	Inflows and Outflows in X-Ray Binaries: Getting the Big Picture	NASA	$ 223,100	2.0
104	P6680-5-07	05/24/07	Torres, G.	OIR	False Positive Elimination and Characterization of Candidate Extrasolar Transiting Planets	NASA	$ 222,368	3.0
105	P6707-6-07	06/21/07	Smith, H.	OIR	Atomic Oxygen in Molecular Clouds as Measured with ISOLWS and Its Fabry-Perot: A New Analysis of 150 Sources	NASA	$ 221,317	3.0
106	P6865-12-07	12/18/07	Humphreys, L.	RG	Maser Geometric Distance Estimation to Seyferts and Inference for Cosmology	DOE	$ 221,146	1.0
107	P6651-4-07	04/26/07	Schneps, M.	SED	Barcoding of Life	Smithsonian Networks	$ 219,829	0.7
108	P6689-5-07	05/30/07	Holman, M.	TA	The Orbits of Wide TNO Binaries Discovered with PAN-STARRS-1	NASA	$ 215,127	3.0
109	P6650-4-07	04/24/07	Allen, L.	OIR	Gould's Belt: Star Formation in the Solar Neighborhood	JPL (RSA)	$ 212,286	1.5
110	P6688-5-07	05/30/07	DiStefano, R.	TA	Observing Nearby Dark Lenses from Space	NASA	$ 209,795	3.0
111	P6762-9-07	09/11/07	Markevitch, M.	HEA	Bow Shock, Electron-Ion Equilibrium, Beakup of Cool Core, and Dark Subcluster in Abell 520	SAO (Chandra)	$ 204,283	2.0
112	P6681-5-07	05/24/07	DiStefano, R.	TA	Binaries That Go Bang: What Are The Progenitors of Type Ia Supernovae?	NASA	$ 202,446	3.0
113	P6575-11-06	11/16/06	Weekes, T.	OIR	Veritas Operations	DOE	$ 200,000	0.5
114	P6847-11-07	11/14/07	Li, Y.	TA	Collaborative Research: Cosmological All-Wavelength Radiative Transfer (CART)	NSF	$ 199,395	3.0
115	P6821-10-07	10/26/07	Blundell, R.	RG	HIMASS - Hi Fi Massive Star Forming Regions Spectral Study	JPL [Herschel]	$ 190,537	3.5
116	P6778-9-07	09/14/07	Hora, J.	OIR	SAGE Spectroscopy : The Life Cycle of Dust and Gas in the Large Magellanic Cloud & A Spitzer Legacy Survey of the Cygnus -X Complex	JPL(RSA)	$ 189,731	2.0
117	P6841-11-07	11/13/07	Davis, J.	RG	Collaborative Research: Neotectonic Experiment in Tibet (NEXT)	NSF	$ 185,256	4.0
118	P6717-7-07	07/20/07	Golub, L.	HEA	Front Filter Investigation &Structural Model Testing for AIA	Lockheed	$ 184,892	0.1
119	P6645-4-07	04/12/07	Tolls, V.	OIR	ExoPlanets Versus Speckle: Advancement of SAO's Labeyrie Speckle Reduction Method	NASA	$ 180,038	1.0
120	P6679-5-07	05/24/07	Petaev, M.	SSP	Isotopic and Chemical Studies of Zoned Metal Grains in CH and CB Chondrites	NASA	$ 173,453	3.0
121	P6676-5-07	05/18/07	Holman, M.	TA	Applying the Method of Transit Timing Variations to Kepler	NASA	$ 172,165	3.0
122	P6666-5-07	05/15/07	Petaev, M.	SSP	Nebular History of Amoeboid Olivine Aggregates: Insights from the metal and Olivine Chemistry	NASA	$ 172,123	3.0
123	P6620-3-07	03/12/07	Schneps, M.	SED	Astrobiology Documentary Production	U. of Colorado	$ 167,980	2.0
124	P6747-9-07	09/12/07	Wilkes, B.	HEA	Orientation Effects in the X-Ray and Multi-Wavelength Properties of High-Z, 3CRR Quasars	SAO (Chandra)	$ 159,999	2.0
125	P6824-10-07	10/26/07	Bourke, T.	RG	Exploring the Cloud-Core Connection with Herschel	University of Massachusetts [Herschel]	$ 158,355	3.5
126	P6695-6-07	06/08/07	Chance, K.	AMP	Participation in Improved Tropospheric ozone Profile Retrievals using OMI and TES Radiances	JPL	$ 154,972	3.0
127	P6664-5-07	05/11/07	Weekes, T.	OIR	Veritas Operations Support	DOE	$ 150,000	0.5
128	P6678-5-07	05/23/07	Reasenberg, R.	AMP	Principle of Eqivalence Measurement Proposal to NIST	NIST/Commerce	$ 150,000	3.0
129	P6750-9-07	09/12/07	Harris, D.	HEA	Towards a Complete Sample: 3CR Extragalactic Radio Sources with z<0.3	SAO (Chandra)	$ 146,449	1.0

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130	P6748-9-07	09/12/07	Fabbiano, G.	HEA	The Inner Kpc of NGC 4151: The AGN Host Interaction Region in Depth	SAO (Chandra)	$ 142,300	2.0
131	P6788-9-07	09/25/07	Kasper, J.	HEA	Cosmic Ray Telescope for the Effects of Radiation	Boston U	$ 138,636	2.0
132	P6629-3-07	03/13/07	Wolk, S.	HEA	A Survey of Orion A with XMM and Spitzer: SOXS	NASA/GSFC [XMM Stage-2]	$ 131,991	1.0
133	P6763-9-07	09/11/07	Slane, P.	HEA	A Deep Chandra Observation of G54.1+0.3	SAO (Chandra)	$ 129,677	2.0
134	P6662-5-07	05/11/07	Liu, Jifeng	TA	The Orbital Period for an Ultraluminous X-Ray Source in NGC 1313	STScI	$ 128,015	2.0
135	P6786-9-07	09/21/07	Kasper, J.	HEA	Virtual Heliospheric Observatory: A VxO for S3C Data	NASA/GSFC	$ 125,080	3.0
136	P6805-10-07	10/17/07	Korreck, K.	HEA	From Flare to Forecast: Using X-Ray Solar Data to Determine the Radiation Environment at 1AU	NASA	$ 123,302	3.0
137	P6761-9-07	09/11/07	Vikhlinin, A.	HEA	Scaling Relations for Low-Mass Galaxy Clusters and Groups	SAO (Chandra)	$ 119,040	1.0
138	P6744-9-07	09/11/07	Cohen, L.	CE	Independent Technical Oversight of AMSD and JWST (Augmentation to NCC5-716)	NASA/GSFC	$ 118,882	0.5
139	P6780-9-07	09/14/07	Melnick, G.	OIR	Spitzer Spectral Line Mapping of Interstellar Shockwaves: Probing the Physics and Chemistry of Shocked Molecular Clouds	JPL (RSA)	$ 118,800	2.0
140	P6693-6-07	06/08/07	Chance, K.	AMP	Participation in Simultaneos Retrieval of Lower Tropospheric Ozone and Carbonaceous Aerosols	Univ. of Maryland	$ 113,582	3.0
141	P6727-8-07	08/02/07	DiStefano, R.	TA	Progenitors of Type Ia Supernova and Other luminous Inhabitatnts of binary Zoo-Herschel Electron	Caltech	$ 112,771	2.0
142	P6700-6-07	06/15/07	Schneps, M.	SED	Peripheral Processing in Dyslexia	NIH	$ 111,368	2.0
143	P6561-10-06	11/01/06	Ashby, M.	OIR	Narrow-Band Filters for the MMT/Megacam	NSF	$ 110,925	1.0
144	P6619-3-07	03/09/07	O'Sullivan, E.	HEA	An Unbiased Sample of Local Elliptical Galaxies	NASA/GSFC [XMM Stage-2]	$ 109,591	1.0
145	P6857-11-07	11/28/07	Davis, J.	RG	Collaborative Research: Combined Seismological and Geodetic Constraints on 3-D Mantle Structure	NSF	$ 107,437	3.0
146	P6722-7-07	07/30/07	Li, Y	TA	Modeling the multi-Wavelength Properties of Z-6 Quasars an Their Galaxy progenitors	Caltech	$ 107,155	2.0
147	P6606-2-07	02/22/07	Muench-Nasrallah, A.	RG	Constraints on the Stellar Initial mass Function from Spitzer	JPL (Spitzer)	$ 106,056	1.0
148	P6783-9-07	09/14/07	Huang, J.	OIR	Deep IR Imaging of Submillimeter Galaxies Detected by SMA: Unambiguously Identifying SMGs at High Redshifts	JPL (RSA)	$ 104,365	2.0
149	P6667-5-07	05/15/07	Cohen, L.	CE	Augmentation to Cooperative Agreement NCC5-716	NASA/GSFC	$ 103,950	0.4
150	P6816-10-07	10/23/07	Spahr, T.	SSP	Support of the Minor Planet Center	JPL	$ 101,448	0.3
151	P6784-9-07	09/14/07	Marengo, M.	OIR	SAGE Spectroscopy : The Life Cycle of Dust and Gas in the Large Magellanic Cloud & The L/T Transition in the Photospheres of Young Sub-Stellar Companions	JPL (RSA)	$ 100,890	2.0
152	P6710-6-07	06/27/07	Spahr, T.	TA	Continuation of JPL Subcontract 1240091 (MPC Support)	JPL	$ 99,998	0.2
153	P6643-4-07	04/06/07	Spahr, T.	SSP	Continuation of JPL Subcontract 1240091 (MPC Support)	JPL	$ 99,691	0.3
154	P6779-9-07	09/14/07	Bakos, G.	SSP	HAT-P-2B: A Direct Glimpse at the Stormiest Exoplanet	JPL (RSA)	$ 99,470	2.0
155	P6634-3-07	03/26/07	Torres, G.	OIR	Space Interferometry Mission Key Project The MASSIF Effort: Understanding the Mass Character of the Galaxy	Georgia State University	$ 95,175	5.0

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156	P6782-9-07	09/14/07	Lada, C.	RG	A Spectroscopic Study of the Giant Infrared Jet Powering NGC 2264 G	JPL(RSA)	$ 93,500	2.0
157	P6555-10-06	10/27/06	Gorenstein, P.	HEA	OBSERVING GAMMA-RAY BURSTS AND TRANSIENT X-RAY SOURCES WITH LUNAR BASED DETECTORS	NASA	$ 92,407	1.0
158	P6773-9-07	09/12/07	Forman, W.	HEA	The Origin of the Galactic Ridge X-Ray Emission	SAO (Chandra)	$ 91,999	1.0
159	P6834-11-07	11/02/07	Gorenstein, P.	HEA	MASSIM: Mili-ArcSecond X-ray Imager	NASA/GSFC	$ 91,869	1.0
160	P6726-7-07	07/31/07	Tolls, V.	OIR	Demonstration of New Technologies for Coronagraphic Occulter Mask Development	NSF	$ 91,584	1.0
161	P6853-11-07	11/19/07	Kasper, J.	HEA	The Dark Ages Lunar Interferometer (DALI)	NRL	$ 91,572	1.0
162	P6723-7-07	07/27/07	Golub, L.	HEA	New Filter Support Plates/Replacement of Engineering Front Filters	Lockheed	$ 90,628	0.3
163	P6697-6-07	06/14/07	Schneps, M.	SED	Solar Tsunami: The perfect Storm of 1859	Space Science Institute	$ 90,180	1.0
164	P6562-11-06	11/03/06	Kurosu, T.	AMP	SAO Participation in the Investigation of the Imapcts of Bromie Chemistry on Ozone in the Troposphere and Lower Stratosphere	UCAR	$ 89,998	3.0
165	P6588-1-07	01/03/07	Gould, R.	SED	Pathways from Research Astrophysics to Careers Tomorrow in IT, Science and Engineering	MIT	$ 89,656	3.5
166	P6621-3-07	03/13/07	Maughan, B.	HEA	The X-Ray Temperature Function and Structure of Clusters at Z=0.6-1	NASA/GSFC [XMM Stage-2]	$ 89,504	1.0
167	P6752-9-07	09/12/07	Wargelin, B.	HEA	Solar Wind Charge Exchange and the Soft X-Ray Background	SAO (Chandra)	$ 88,990	1.0
168	P6572-11-06	11/15/06	Stark, A	RG	Measurement of Interfering Radio Sources in the South Pole Telescope Sunyaev-Zel'dovich Survey	NSF	$ 86,555	2.0
169	P6855-11-07	11/21/07	Melnick, G.	OIR	Extrasolar Planetary Imaging Coronagraph (EPIC)	NASA/GSFC	$ 86,174	1.0
170	P6574-11-06	11/15/06	Wang, H.	AMP	The Opposition Effect of Mars as Observed by the Mars Global Surveyor	NSF	$ 85,389	1.0
171	P6776-9-07	09/13/07	Jones, C.	HEA	Untangling Sombrero's X-Ray Emission from Coronally Active Binaries, Cataclysmic Variables, LMXBs, and Hot Gas	SAO (Chandra)	$ 85,066	1.0
172	P6781-9-07	09/14/07	Ashby, M.	OIR	Cadenced IRAC Monitoring of Infrared-Variable AGNs	JPL(RSA)	$ 82,000	2.0
173	P6814-10-07	10/23/07	Melnick, G.	OIR	Exploring the Cloud-Core Connection with Herschel	University of Massachusetts [Herschel]	$ 81,607	3.5
174	P6766-9-07	09/11/07	Jonker, P.	HEA	The Galactic Bulge Survey: Categorizing the Plethora of Faint X-Ray Sources in the Galactic Bulge	SAO (Chandra)	$ 80,694	1.0
175	P6653-4-07	04/30/07	Elvis, M.	HEA	NGC5548 Monitoring: Key to AGN Structure and Cosmic Feedback (Suzaku Cycle 2)	NASA	$ 80,586	1.0
176	P6813-10-07	10/23/07	Melnick, G.	OIR	Herschel O2 Project	JPL [Herschel]	$ 80,547	3.5
177	P6768-9-07	09/12/07	Siemiginowska, A.	HEA	The Cluster Around the Powerful Radio-Loud Quasar 3C186 at z=1.1	SAO (Chandra)	$ 80,481	1.0
178	P6808-10-07	10/19/07	Kohl, J.	SSP	SAO Participation in the Coronal Spectrometer Design and Analysis	Praxis, Inc.	$ 80,056	0.7
179	P6757-9-07	09/11/07	Zezas, A.	HEA	A Deep Observation of NGC4261: Understanding Its Unique X-Ray Source Population	SAO (Chandra)	$ 80,016	1.0
180	P6774-9-07	09/12/07	Brickhouse, N.	SSP	Highly Accurate Line Ratio Diagnostics from Helium-Like Ions	SAO (Chandra)	$ 80,000	1.0
181	P6577-11-06	11/27/06	Alcock, C.	DO	Interest Earned on the Keck Foundation Advance Payment made on Grant KECK FND1	SI	$ 80,000	4.0
182	P6637-3-07	03/30/07	Golub, L.	HEA	AIA Direction to Redesign Front End Window Support Plate	Lockheed	$ 79,978	1.0

	Proposal #	Date	PI	Div	Short Proposal Title	Sponsor	Value	# Yrs
183	P6604-2-07	02/22/07	Chakrabarti, S.	TA	The Next Generation of Galaxy SED Templates	JPL (Spitzer)	$ 79,965	1.0
184	P6737-8-07	08/27/07	Kohl, J.	SSP	Coronal Spectrometer Design and Analysis	NRL	$ 79,958	0.7
185	P6608-2-07	02/22/02	Zezas, A.	HEA	Towards a Full Sample of Interacting Galaxies	JPL (Spitzer)	$ 79,787	1.0
186	P6819-10-07	10/25/07	Weintroub, J.	RG	Second Generation VLBI Processor for the Submillimeter Array	MIT	$ 77,948	1.0
187	P6613-2-07	02/22/07	Garcia, M.	HEA	Continued M31 Monitoring for Black Hole X-Ray Nova	STScI	$ 75,772	1.0
188	P6694-6-07	06/08/07	Phillips, J.	AMP	Measuring Glacier Motion Using Optical Ranging	Payload Systems	$ 75,408	1.0
189	P6596-1-07	01/31/07	Torres, G.	OIR	Continuation of the Space Interferometry Mission Key Project: The MASSIF Effort	Georgia State University	$ 75,001	1.5
190	P6775-9-07	09/13/07	Jones, C.	HEA	Harnessing the Full Power of Chandra Surveys	SAO (Chandra)	$ 74,981	1.0
191	P6603-2-07	02/12/07	Gorenstein, P.	HEA	High Resolution Telescopes	NASA	$ 74,326	0.6
192	P6559-10-06	10/31/06	Sridharan, T.	CE	An Instrument for the Measurement of the B-Mode Polarization of the CMBR - A Design Development Proposal	NSF	$ 73,949	1.0
193	P6704-6-07	06/20/07	McClintock, J.	TA	Study the Nature of Ultraluminous X-Ray Sources (2nd Yr Chandra Fellowship - Jifeng Liu)	SAO (Chandra)	$ 73,629	1.0
194	P6612-2-07	02/22/07	DiStefano, R.	TA	Lensing Studies with Spitzer	JPL (Spitzer)	$ 73,119	1.0
195	P6759-9-07	09/11/07	Mazzotta, P.	HEA	LoCuss: Cluster Mass Comparison with Chandra and HST - Observational Discrepancy of Agreement in the New Millennium?	SAO (Chandra)	$ 72,989	1.0
196	P6639-3-07	03/30/07	Sridharan, T.	CE	A New Instrument Concept for the Measurement of the B-mode Polarization of the CMBR	NSF	$ 72,285	1.0
197	P6668-5-07	05/15/07	Bourke, T.	RG	A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster	STScI	$ 72,154	1.0
198	P6611-2-07	02/22/07	Bourke, T.	RG	Determining the Physical Conditions in Outflow Shocks with IRAC	JPL (Spitzer)	$ 72,004	1.0
199	P6701-6-07	06/18/07	Rines, K.	OIR	Integrated h-alpha and Far Infrared Star Formation of High Redshift Galaxy Clusters and Evolution of Star Formation in the 400 Square Degree Galaxy Cluster Survey	JPL (RSA)	$ 71,043	2.2
200	P6582-12-06	12/14/06	Bookbinder, J.	HEA	Continuation od SP02H1801R	Lockheed	$ 70,000	0.3
201	P6673-5-07	05/16/07	Saar, S.	HEA	Exploring the Early FUV History of Cool Stars: Transition Regions at 30 Myr	STScI	$ 69,971	1.0
202	P6576-11-06	11/21/06	Sadeghpour, H.	AMP	Novel Channel Interaction	BSF	$ 68,992	4.0
203	P6740-8-07	08/30/07	Kim, D-W.	HEA	Intermediate-Age Elliptical Galaxies	SAO (Chandra)	$ 67,485	1.0
204	P6581-12-06	12/13/06	Clemens, C.	HEA	Continuation of MOS Agreement 232.1.02	Museum of Science	$ 66,582	0.5
205	P6770-9-07	09/12/07	Wolk, S.	HEA	X-Ray and Radio Imaging of the Protostar Complex Adjacent to IC 348	SAO (Chandra)	$ 65,149	1.0
206	P6795-9-07	09/28/07	Rines, K.	OIR	Evolution of Star Formation in the 400 Square Degree Cluster Survey	JPL (RSA)	$ 63,830	2.0
207	P6638-3-07	03/30/07	Golub, L.	HEA	AIA Miscellaneous Direrction Requests	Lockheed	$ 63,665	1.0
208	P6764-9-07	09/11/07	Saar, S.	HEA	A Detailed Investigation of Coronal/Magnetic and Rotational Changes in Cool Stars Using NGC 3532	SAO (Chandra)	$ 63,383	1.0
209	P6566-11-06	11/15/06	Willman, B.	TA	Simulating the Properties of Galaxy Stellar Halos	NSF	$ 63,180	2.0

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210	P6765-9-07	09/11/07	Jonker, P.	HEA	Following a Black Hole Candidate X-Ray Transient to Quiescence	SAO (Chandra)	$ 63,048	1.0
211	P6610-2-07	02/22/07	Allen, L.	OIR	Uniform Catalogs of Molecular Clouds	JPL (Spitzer)	$ 62,336	1.0
212	P6705-6-07	06/21/07	Slavin, J.	HEA	Heliospheric Foregrounds in the WMAP Data	Univ. of Chicago	$ 61,602	3.0
213	P6713-6-07	06/29/07	Schneps, M.	SED	Astronomy Podcasts	Genzyme Corp	$ 60,029	1.0
214	P6563-11-06	11/09/06	Holman, M.	TA	HAT-P-1: A Direct Glimpse into the Atmosphere of a Hot Jupiter	STScI	$ 60,000	1.0
215	P6731-8-07	08/XX/07	Butt, Y.	HEA	Imaging the Hyperactive Cygnus TeV Superstructure in Soft Gamma-Rays	NASA INTEGRAL Stage-2	$ 59,976	1.0
216	P6802-10-07	10/04/07	Zezas, A.	HEA	A Deep Observation of NGC4261: Understanding Its Unique X-Ray Source Population, Gas Morphology, and Jet Properties	STScI	$ 59,975	1.0
217	P6794-9-07	09/28/07	Jones, C.	HEA	GRBs as Beacons of Star Formation at High Redshifts	JPL (RSA)	$ 59,860	2.0
218	P6790-9-07	09/27/07	Wang, Z.	OIR	Star Formation in the Tidal Streams of the M81 Group	JPL (RSA)	$ 59,275	2.0
219	P6844-11-07	11/13/07	Willman, B.	TA	Simulating the Observable Properties of Stellar Halos	NSF	$ 58,084	1.0
220	P6586-1-07	01/05/07	Golub, L.	HEA	Additional Engineering Support for Subcontract SP02H1701R	Lockheed	$ 57,348	0.1
221	P6589-1-07	01/12/07	Korzennik, S.	SSP	Termination Settlement Costs for Observations with AFOE Camera at mt. Wilson	JPL	$ 56,885	0.5
222	P6716-7-07	07/20/07	Golub, L.	HEA	AIA Vibration Test of New Washer Material for Phase C/D/E	Lockheed	$ 56,639	0.1
223	P6617-3-07	03/09/07	Kim, D-W.	HEA	Young Elliptical Galaxies	NASA/GSFC [XMM Stage-2]	$ 55,016	1.0
224	P6630-3-07	03/13/07	Nulsen, P.	HEA	Abell1201 as a Merging Cluster	NASA/GSFC [XMM Stage-2]	$ 55,008	1.0
225	P6578-12-06	12/07/06	Soon, W.	SSP	Understanding Artic Climate Change	Southern Company	$ 55,000	1.0
226	P6633-3-07	03/26/07	Mazzotta, P.	HEA	Relics and Halos at Intermediate Redshift: Testing the Merging Paradigm in the Massive Galaxy Cluster RXCJ1314.4--2515	NASA/GSFC [XMM Stage-2]	$ 54,976	1.0
227	P6852-11-07	11/20/07	Murray, S.	HEA	WFXRT	Johns Hopkins	$ 54,836	1.0
228	P6838-11-07	11/07/07	Cohen, L.	CE	Independent Technical Oversight of AMSD and JWST (Augmentation to NCC5-716)	NASA/GSFC	$ 54,575	0.5
229	P6777-9-07	09/13/07	Risaliti, G.	HEA	Short-Time Monitoring of Extreme Spectral Variations in Seyfert 2s	SAO (Chandra)	$ 54,061	1.0
230	P6628-3-07	03/13/07	Forman, W.	HEA	Detailed Diagnostics of the Nuclear Explosions in the Hydra A Galaxy	NASA/GSFC [XMM Stage-2]	$ 52,003	1.0
231	P6753-9-07	09/12/07	Forman, W.	HEA	Reading the Historical Chronicle of Activity of the SMBH in NGC 5813 Using Cavities and Shocks in the Surrounding Hot Gas	SAO (Chandra)	$ 51,991	1.0
232	P6754-9-07	09/12/07	McClintock, J.	HEA	Estimating Black Hole Spin: Assessing the Importance of the Warm Absorber	SAO (Chandra)	$ 49,984	1.0
233	P6741-8-07	08/31/07	Karovska, M.	HEA	X-Ray Jets Activity in the Symbiotic System CH Cyg	SAO (Chandra)	$ 49,972	1.0
234	P6772-9-07	09/12/07	Patnaude, D.	HEA	Investigating the X-Ray Variability of Cassiopeia	SAO (Chandra)	$ 49,748	1.0
235	P6836-11-07	11/07/07	Fabbiano, G.	SED	Observing the X-Ray Unverse	Chandra EPO	$ 49,695	1.0
236	P6552-10-06	10/19/06	Elvis, M.	HEA	Black Holes and Galaxy Evolution Museum Exhibit Component (E/PO)	SAO (Chandra)	$ 49,631	1.0

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237	P6657-5-07	05/04/07	Jones, C.	HEA	Obscured AGN and XBONGS in Bootes	NASA	$ 49,622	1.0
238	P6587-1-07	01/08/07	Latham, D.	OIR	Continuation of JPL 1237162	JPL	$ 49,599	1.5
239	P6791-9-07	09/27/07	Mamajek, E.	RG	Search for the Terrestrial Temperature Debris Around Needles in a Haystack: A Survey for Disks in a Newly Discovered Nearby 23-30 Myr Old Association	JPL (RSA)	$ 48,700	2.0
240	P6627-3-07	03/13/07	Slane, P.	HEA	An XMM-Newton Study of the Supernova Remnant G296.1-0.5	NASA/GSFC [XMM Stage-2]	$ 48,600	1.0
241	P6758-9-07	09/11/07	David, L.	HEA	The Filamentary Structure of the Hot Gas in the NGC 5044 Group	SAO (Chandra)	$ 48,198	1.0
242	P6755-9-07	09/12/07	Vrtilek, J.	HEA	AWM4: A Sharp Look at the Core of a Poor Cluster Stirred by AGN Activity	SAO (Chandra)	$ 48,192	1.0
243	P6835-11-07	11/07/07	Karovska, M.	SED	All Jets Great and Small	Chandra EPO	$ 48,086	1.0
244	P6712-6-07	06/28/07	Dupree, A.	SSP	Wind Evolution in the Eta Cha Association	NASA [FUSE Cy8]	$ 48,000	1.0
245	P6860-12-07	12/17/07	Kasper, J.	HEA	Mileura Wide-Field Array Low Frequency Demonstration	MIT	$ 47,862	1.0
246	P6792-9-07	09/27/07	Garcia, M.	HEA	Continued M31 Monitoring for Black Hole X-Ray Nova	STScI	$ 47,033	1.0
247	P6839-11-07	11/08/07	Steeghs, D.	HEA	SWIFT TOO Observations of Galactic X-Ray Transients	NASA	$ 46,889	1.0
248	P6787-9-07	09/21/17	Kasper, J.	HEA	Understanding Energetic Particle Responses to Local Interplanetary Shocks Through Observations and Theory	Caltech	$ 46,148	2.1
249	P6711-6-07	06/28/07	Silver, E.	HEA	Supplement to NTD-Germanium-Based Microcalorimeter Array Development for Constellation-X (NNG05GK80G)	NASA/GSFC	$ 45,809	0.3
250	P6622-3-07	03/13/07	Maughan, B.	HEA	Galaxy Evolution and a Baryon Census in the Large Scale Structure Around Two PISCES Galaxy Clusters	NASA/GSFC [XMM Stage-2]	$ 44,996	1.0
251	P6640-4-07	04/03/07	Silver, E.	HEA	Microcalorimeters with NTD Germanium Thermistors for High Resolution Soft and Hard X-Ray Astronomy	NASA	$ 44,927	1.0
252	P6594-1-07	01/31/07	Phillips, J.	AMP	Development of a Science Museum Exhibit on Testing Gravity using the World's Most Precise Distance Gauge.	NASA/GSFC	$ 44,896	2.5
253	P6868-12-07	12/27/07	Davis, J.	RG	Beta-testing, Development and Dissemination of "Zaidaco," a Program for Exploration of Time-Variable Planetary Fields	NASA	$ 43,924	3.0
254	P6715-7-07	07/03/07	Schneps, M.	SED	Barcoding the Planet Pnama Shoot	Smithsonian Networks	$ 42,457	0.1
255	P6771-9-07	09/12/07	Prestwich, A.	HEA	An Archival Study of High Mass X-Ray Binaries and Young Star Cluster	SAO (Chandra)	$ 40,669	1.0
256	P6618-3-07	03/09/07	O'Sullivan, E.	HEA	NGC499 - Mapping the Merger of Two X-Ray Luminous Galaxy Groups	NASA/GSFC [XMM Stage-2]	$ 39,162	1.0
257	P6655-5-07	05/04/07	Cohen, L.	CE	Augmentation to NCC5-716	NASA/GSFC	$ 39,033	0.5
258	P6751-9-07	09/12/07	DiStefano, R.	TA	Testing Binary Evolution in Pristine Ancient Dwarf Galaxies	SAO (Chandra)	$ 38,768	1.0
259	P6648-4-07	04/19/07	Golub, L.	HEA	Design a Fabrication of Flight Structural Parts and GSE for AIA/SDO	Lockheed	$ 38,634	0.2
260	P6724-7-07	07/30/07	Chakrabarti, S.	TA	Interpreting the HERSCEL View of Galaxy Formation and Evolution	U of Washington/Caltech	$ 38,564	2.0
261	P6733-8-07	08/22/07	Strachan, L.	SSP	Partnership in Astronomy and Astrophysics Education and Research at Southern University	Southern University	$ 38,000	1.0
262	P6616-3-07	03/02/07	Golub, L.	HEA	A Scientific Editor fo the Astrophysical Journal	Astrophysical Journal	$ 35,905	3.0

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263	P6672-5-07	05/16/07	Raymond, J.	SSP	Imaging the Shock Precursor in Tycho's SNR	STScI	$ 34,307	1.0
264	P6864-12-07	12/13/07	Roelofs, G.	HEA	FOLLOW-UP OF THE DIRECT TECTION OF THE PROGENITOR OF THE TYPE 1A SUPERNOVA	SAO (CHANDRA)	$ 33,632	1.0
265	P6859-12-07	12/11/07	Huang, J.	OIR	The Evolution of Faint AGN at High Redshift	JPL (RSA)	$ 32,800	2.5
266	P6626-3-07	03/13/07	Zezas, A.	HEA	The ISM in NGC 4261	NASA/GSFC [XMM Stage-2]	$ 32,450	1.0
267	P6719-7-07	07/16/07	Clemens, C.	HEA	NEOO - E/PO	Univ of North Dakota	$ 32,336	3.0
268	P6817-10-07	10/23/07	Jordan, A.	OIR	The ACS Fornax Cluster Survey	STScI	$ 32,215	1.0
269	P6800-10-07	10/04/07	Karovska, M.	HEA	X-Ray Jets Activity in the Symbiotic System CH Cyg	STScI	$ 30,442	1.0
270	P6854-11-07	11/19/07	Hora, J.	OIR	Secondary Eclipses of XO Planets	JPL (RSA)	$ 30,440	3.0
271	P6721-7-07	07/25/07	Kurucz, R.	SSP	Synthetic Solar Flux spectrum	NIES	$ 30,000	1.0
272	P6806-10-07	10/19/07	Mamajek, E.	RG	SAO Component of Evolution of Planetary Systems	University of Arizona [Herschel]	$ 30,000	3.5
273	P6654-5-05	05/03/07	Nicastro, F.	HEA	The Nature of the Variations of State in the Phoenix Galaxy (Suzaku Cycle 2)	NASA	$ 29,889	1.0
274	P6797-9-07	09/28/07	Wolk, S.	HEA	A Deep and Wide View of the RCW 108 Star Forming Complex	JPL (RSA)	$ 29,860	2.0
275	P6671-5-07	05/16/07	Karovska, M.	HEA	Unraveling Mira AB Accretion Mysteries	STScI	$ 29,836	1.0
276	P6624-3-07	03/13/07	Siemiginowska, A.	HEA	X-Ray Clues on the Ultimate Fate of Compact Radio Sources	NASA/GSFC [XMM Stage-2]	$ 28,122	1.0
277	P6623-3-07	03/13/07	Tappe, A.	RG	Polycyclic Artomatic Hydrocarbon Emission in the Supernova Remnant N132D	JPL (RSA)	$ 26,826	1.5
278	P6745-9-07	09/11/07	DiStefano, R.	TA	X-Ray Localization of the Globular Cluster G1 in M31	MIT	$ 26,000	2.0
279	P6760-9-07	09/11/07	Harris, D.	HEA	Monitoring the Giant Flare of HST-1 in the M87 Jet	SAO (Chandra)	$ 25,305	1.0
280	P6867-12-07	12/26/07	Loehr, A.	RG	Chasing Dark Energy	Brinson Foundation	$ 25,000	1.0
281	P6631-3-07	03/14/07	Zezas, A.	HEA	The X-Ray Source Populations of Different Stellar Generations in the SMC	NASA/GSFC [XMM Stage-2]	$ 24,984	1.0
282	P6736-8-07	08/24/07	Kharchenko, V.	AMP	Emission X-Ray and EUV Spectra	UT-Battelle	$ 24,657	0.2
283	P6820-10-07	10/26/07	Kenyon, S.	SSP	MIPS 24 Micron Observations of h & chi Perseii: Debris Disk Evolution at 13 Myr	JPL (RSA)	$ 24,200	3.0
284	P6746-9-07	09/12/07	Garcia, M.	HEA	Continued M31 Monitoring for Black Hole X-Ray Nova	SAO (Chandra)	$ 24,032	1.0
285	P6801-10-07	10/04/07	Patnaude, D.	HEA	Investigating the X-Ray Variability of Cassiopeia A	STScI	$ 23,887	1.0
286	P6605-2-07	02/22/07	Hora, J.	OIR	LMC Planetary Nebulae	JPL (Spitzer)	$ 23,305	1.0
287	P6656-5-07	05/04/07	Vrtilek, S.	HEA	Superorbital Variation of LMC X-4: Exploring the Accretion Flow	NASA	$ 23,199	1.0
288	P6785-9-07	09/19/07	Schneps, M.	SED	CES Common Principles Moments Video Collection (Continuation of Contract CES-001)	Coalition of Essential Schools	$ 22,161	0.3
289	P6609-2-07	02/22/07	Fazio, G.	OIR	A simple proof that lyman alpha emitters are Galaxies in the Act of Formation	JPL (Spitzer)	$ 22,011	1.0
290	P6798-9-07	09/28/07	Smith, H.	OIR	Spectroscopic Study of Massive YSO Candidates in the Galactic Center	JPL (RSA)	$ 21,595	2.0

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291	P6607-2-07	02/16/07	Jordan, A.	OIR	The Structure, Formation and Evolution of Galactic Core Nuclei	STScI	$ 21,103	1.0
292	P6796-9-07	09/28/07	Slane, P.	HEA	IRS Spectroscopy of the Shell Surrounding the Pulsar Wind Nebula	JPL (RSA)	$ 19,985	2.0
293	P6661-5-07	05/11/07	Phillips, J.	AMP	Optical Analysis of Beam Combination Systems for Spare-Aperture Telescopes	Seabrook Engineering	$ 19,791	0.1
294	P6742-9-07	09/05/07	Brickhouse, N.	SSP	The Sun's Influence on Climate Change	Free to Choose Media	$ 19,383	0.3
295	P6674-5-07	05/16/07	Huang, J.	OIR	Characterizing the Stellar Populations in Lyman-Alpha Emitters and Lyman Break Galaxies at 5.7<z<7 in the Subaru Deep Field	STScI	$ 18,750	1.0
296	P6735-8-07	08/23/07	Greenhill, L.	SSP	CFA Participation in the Milleura Wide-Field Array Demonstrator	MIT	$ 17,724	0.3
297	P6739-8-07	08/30/07	Zezas, A.	HEA	Galaxies Across the Octaves: A Chandra Legacy Survey of SINGS Galaxies	NASA	$ 17,375	1.0
298	P6550-10-06	10/16/06	Dame, T.	RG	A Large Extension of the SAO CO Survey to Higher Latitudes	SLAC	$ 17,252	0.5
299	P6696-6-07	06/13/07	Chance, K.	AMP	Participation in the Integration of AURA Atmospheric Composition Data into a Chemical Weather Analysis and Prediction System	NCAR	$ 17,148	3.0
300	P6599-2-07	02/06/07	Eichhorn, E.	HEA	2007 Mirror Host for EDP Sciences	EDP Sciences	$ 16,285	1.0
301	P6659-5-07	05/08/07	Torres, G.	OIR	The Architecture of Exoplanetary Systems	STScI	$ 15,892	1.0
302	P6687-5-07	05/29/07	Hora, J.	OIR	Thermal Emission from Extrasolar Planet XO-1	JPL (RSA)	$ 15,720	2.3
303	P6549-10-06	10/12/06	Gould, R.	SED	Kids Question the Cosmos	MIT	$ 15,424	1.0
304	P6553-10-06	10/20/06	Wolk, S.	HEA	Hooked on Science: Early Intervention to Nurture Scientists of the Future	SAO (Chandra)	$ 14,786	1.0
305	P6658-5-07	05/08/07	Rines, K.	OIR	Star-Formation Rates of 9 Intermediate-Redshift Galaxy Clusters	JPL (RSA)	$ 14,268	1.5
306	P6767-9-07	09/11/07	Maughan, B.	HEA	Characterization of the Most Distant Cluster of Galaxies, JKCS041 at z=1.91	SAO (Chandra)	$ 11,331	1.0
307	P6749-9-07	09/12/07	Siemiginowska, A.	HEA	X-Ray Properties of Compact CSS Quasar with BALS - 1045+352	SAO (Chandra)	$ 10,819	1.0
308	P6734-8-07	08/21/07	DiStefano, R.	TA	The First Integral Image of M31	MIT INTEGRAL Stage-2	$ 10,043	1.0
309	P6615-2-07	02/27/07	Plucinsky, P.	HEA	The X-ray Source population of the Andromeda Galaxy M31	MIT/XMM	$ 10,013	1.0
310	P6756-9-07	09/11/07	Drake, J.	HEA	Multiwavelength Observations of Two Bright Dust Forming CO Novae: V2362 Cyg and V1280 Sco CH Cyg	AZ State U	$ 9,997	1.0
311	P6554-10-06	10/24/06	Jucks, K.	OIR	Atmospheric Flux Modelling in Support of REFLECT	JPL	$ 9,817	0.7
312	P6728-8-07	08/02/07	Clemens, C.	HEA	SAO Participation in Project Astro	MIT	$ 6,815	1.0
313	P6703-6-07	06/20/07	Clemens, C.	HEA	Augmentation to MOS 232.1.02	Museum of Science	$ 5,030	0.5
314	P6585-12-06	12/29/06	Stark, A	RG	Supplement to Tetrahertz and Spitzer Legacy Field Observations with the Antarctic Submillimeter Telescope and Remote Observatory (AST/RO)	NSF	$ 5,004	1.0
315	P6670-5-07	05/16/07	Marengo, M.	OIR	The L/T Transition in the Photospheres of Young Sub-Stellar Companions	STScI	$ 5,000	1.0
316	P6669-5-07	05/15/07	Evans, N.	HEA	The Dynamical Mass of the Bright Cepheid Polaris	STScI	$ 3,690	1.0
317	P6636-3-07	03/30/07	Golub, L.	HEA	AIA Direction to Fabricate Aperture Wheel Mount	Lockheed	$ 1,084	1.0

	Proposal #	Date	PI	Div	Short Proposal Title	Sponsor	Value	# Yrs
318	P6584-12-06	12/26/06	Latham, D.	OIR	Supplement to NCC2-1390	NASA/AMES	$ (291,198)	7.0
318						**GRAND TOTAL**	**$ 99,169,203**	

APPENDIX E

LIST OF INDIVIDUALS WHO SUBMITTED COMMENTS AND/OR MET WITH THE COMMITTEE

Jerry Austin, Central Engineering Department
Jennifer Barnett, Radio and Geoastronomy Division
Kathleen Batlle, High Energy Astrophysics Division
Sarah Block, Radio and Geoastronomy Division
Jay Bookbinder, High Energy Astrophysics Division
John Boczenowski Central Engineering Department
Peter Cheimets, Central Engineering Department
Leslie Feldman, Optical and Infrared Astronomy Division
William Ford, Sponsored Programs and Procurement Department
Michael Griffith, Sponsored Programs and Procurement Department
Muriel Hodges, Radio and Geoastronomy Division
Christine McNeil, Sponsored Programs and Procurement Department
Marci Miller, Financial Management Department
Thomas Mullen, Radio and Geoastronomy Division
Norman Novack, Atomic and Molecular Physics Division
Henry Park, Financial Management Department
Michael Pearlman, Optical and Infrared Astronomy Division
Judith Peritz, Science Education Department
Amanda Preston, Director's Office
Jane Robie, Optical and Infrared Astronomy Division
Margaret Simonini, Radio and Geoastronomy Division
Erica Sohl, Financial Management Department
Richard Taylor, Optical and Infrared Astronomy Division
Michael Trischitta, High Energy Astrophysics Division
Sara Yorke, Solar, Stellar, and Planetary Sciences Division

APPENDIX F

ANALYSIS OF ADMINISTRATIVE REVIEW LEAD-TIMES FOR PROPOSALS DURING FY 2008

NUMBER OF DAYS PROPOSAL RECEIVED BEFORE DUE-DATE	# Proposals	Cumulative Total #	%	Cumulative Total %
Received with ASAP Requirement	64	64	22%	22%
Received the Same Day as Due-Date	16	80	6%	28%
Received 1-Day Before Due-Date	33	113	11%	39%
Received 2-Days Before Due-Date	34	147	12%	51%
Received 3-Days Before Due-Date	37	184	13%	64%
Received 4-Days Before Due-Date	43	227	15%	79%
Received 5-Days Before Due-Date	15	242	6%	85%
Total Received 5-Days Before Due-Date	**242**		**85%**	
Total Received More Than 5-Days Before Due-Date	46	46	15%	15%
TOTAL	**288**	288	**100%**	100%

c	PI	Div	Short Proposal Title	Sponsor	Sponsor Due Date	Date Rcvd at FM	# DAYS Lead-Time	Date Sent to SPP	Proposal #	Rev #	Date Sent to Sponsor
Robie	Allen, L.	OIR	Herschel Orion Protostar Survey (HOPS)	JPL [Herschel]	ASAP	05/09/08	ASAP	05/12/08	P6818-10-07	1	05/19/08
Conry	Arcand, K.	HEA	"From Earth to the Universe" Cornerstone Project: Coordination for the Year of Astronomy [IYA] 2009	IAU	ASAP		ASAP		P7079-9-08	0	09/24/08
Gardner	Benbow, W	OIR	VERITAS Operations for 09/08	Argonne National Laboratory	ASAP	07/11/08	ASAP	07/14/08	P6991-6-08	1	07/17/08
Gardner	Benbow, W	OIR	VERITAS:(Supplement to Grant DE-FG02-91ER40635)	DOE	ASAP	07/25/08	ASAP	07/30/08	P7016-8-08	0	08/01/08
Novack	Chance, K.	AMP	SAO Membership in the NPP Science Team: Tropospheric Ozone, Trace Gases & Development of Climate Data Records	NASA	ASAP	01/11/08	ASAP	01/14/08	P6472-7-06	1	01/15/08
Novack	Chance, K.	AMP	SAO Participation in the Evolution, Review and Assessment of the Proposed Orbiting Carbon Observatory (OCO) Technical Issues	JPL	ASAP	01/08/08	ASAP	01/08/08	P6873-1-08	0	01/10/08
Brennan	Cohen, L.	CE	Independent Technical Oversight of JWST OTE Development	NASA	asap	10/23/07	ASAP	10/30/07	P6831-10-07	0	10/31/07
Block	Davis, J.	RG	Collaborative Research: Imaging Subcontinental Scale Slip Events near the Moho	NSF	ASAP	06/16/08	ASAP	06/17/08	P6856-11-07	1	06/18/08
Block	Davis, J.	RG	EarthScope Panorama: Informal Geoscience Education for Young People	NSF	ASAP	04/24/08	ASAP	04/25/08	P6927-4-08	0	05/01/08
Modestino	Fabbiano, G.	HEA	The Inner Kpc of NGC 4151: The AGN Host Interaction Region in Depth	SAO [Chandra]	ASAP	12/03/07	ASAP	12/04/07	P6748-9-07	1	12/04/07
Wilson	Golub, L	HEA	Dr. Petrus Martens' Supoort of Phase C/D/E of the AIAInvestigation of the SDO Mission	Lockheed Martin	ASAP	02/21/08	ASAP	02/25/08	P6901-2-08	0	02/26/08
Thomas	Golub, L	HEA	P. Martens AIA Prelaunch Support	Lockheed Martin	ASAP	07/17/08	ASAP	07/18/08	P6901-2-08	2	07/22/08
Thomas	Golub, L	HEA	Procurement and Coating of One Spare Set of Flight Caliber AIA Sunshade Extensions	Lockheed Martin	ASAP	04/17/08	ASAP	07/19/08	P7005-7-08	0	07/22/08
Thomas	Golub, L	HEA	Preparation of Fourteen Non-Flight AIA Surrogate Filters for Upcoming Thermal-Vacuum Test	Lockheed Martin	ASAP	04/17/08	ASAP	07/19/08	P7006-7-08	0	07/22/08
Thomas	Golub, L	HEA	AIA - Thermal Engineering Test Support at GSFC	Lockheed Martin	ASAP	04/17/08	ASAP	07/19/08	P7007-708	0	07/22/08
Thomas	Golub, L	HEA	AIA Vacuum Bakeout of EM Filters	Lockheed Martin	ASAP	04/17/08	ASAP	07/19/08	P7008-7-08	0	07/22/08
Wilson	Golub, L	HEA	SAO Participation in Phase A of the Interface Region Imaging Spectograph (IRIS)	Lockheed Martin	ASAP	08/18/08	ASAP	08/19/08	P6871-1-08	1	08/20/08
Thomas/ Bookbinder	Golub, L	HEA	Procurement of Additional Polyimide Filters for the AIA Program	Lockheed Martin	ASAP	01/29/08	ASAP	01/31/08	P6894-2-08	0	02/07/08
Modestino	Golub, L	HEA	Hi-C Telescope (SMEX Co-I)	NASA/MSFC [SMEX]	ASAP	03/20/08	ASAP	03/21/08	P6911-3-08	0	03/31/08
Wilson	Golub, L	HEA	AIA Phase C/D Launch Slip and Augmented Phase E	Lockheed Martin	ASAP	05/15/08	ASAP	05/21/08	P6956-5-08	0	05/30/08
Modestino	Golub, L.	HEA	A Scientific Editor for the Astrophysical Journal	Astrophysical Journal	ASAP	01/03/08	ASAP	01/03/08	P6870-1-08	0	01/09/08
Rathle	Green, D.	SSP	Central Bureau for Astronomical Telegrams	NSF	ASAP	01/03/08	ASAP	01/04/08	P6565-11-06	1	01/08/08
Williamson	Griswold, A.	SMG	Multimedia Production: Science and Engineering in the Lives of Students [SELS]	Oregon State University	ASAP	02/25/08	ASAP	02/25/08	P6803-10-07	1	02/27/08
Modestino	Hickox, R.	HEA	Ultra-deep X-ray Spectra in the CDF-S: A New Class of Hard, Unabsorbed AGN?	SAO [Chandra]	ASAP	01/04/08	ASAP	01/07/08	P6872-1-08	0	01/11/08

Proposal Coordinator	PI	Div	Short Proposal Title	Sponsor	Sponsor Due Date	Date Rcvd at FM	# DAYS Lead-Time	Date Sent to SPP	Proposal #	Rev #	Date Sent to Sponsor
Modestino	Jones, C.	HEA	Obscured AGN and XBONGS in Bootes	NASA [Suzaku Cy 2-Stage2]	ASAP	04/11/08	ASAP	04/11/08	P6657-5-07	1	04/14/08
Feldman	Jordan, A.	OIR	The ACS Fornax Cluster Survey	STScI	asap	10/17/07	ASAP	10/24/07	P6817-10-07	0	10/23/07
Batlle	Kasper, J	HEA	The Dark Ages Lunar Interferometer (DALI)	NRL	ASAP	09/23/08	ASAP	09/25/08	P6853-11-07	2	09/26/08
Battle	Kasper, J.	HEA	The Dark Ages Lunar Interferometer (DALI)	NRL	ASAP	06/18/08	ASAP	06/18/08	P6853-11-07	1	06/23/08
Batlle	Kasper, J.	HEA	The Solar Wind Experiment on the Wind Spacecraft	NASA	ASAP	04/23/08	ASAP	04/25/08	P6925-4-08	0	04/25/08
Batlle	Kasper, J.	HEA	SAO Participation in Lunar University Node for Astrophysics Research (LUNAR)	University of Colorado	ASAP	08/13/08	ASAP	08/15/08	P7034-8-08	0	08/20/08
Bernard	Kohl, J.	SSP	SAO Participation in the Coronal Spectrometer Design and Analysis	Praxis, Inc.	ASAP	10/17/07	ASAP	10/19/07	P6808-10-07	0	10/19/07
Bernard	Kohl, J.	SSP	UVCS/SOHO Mission Operations and Data Analysis	NASA	ASAP	05/15/08	ASAP	05/19/08	P6944-5/08	0	05/21/08
Rathle	Korzennik, S.	SSP	Time Series Mode-Fitting: Improved Methodology Using Long and Very Long Time Series	NASA	ASAP	09/17/08	ASAP	09/18/08	P6889-2-08	1	09/18/08
Yorke	Kurucz, R.	SSP	Determining the IR Solar Irradiance Spectrum	NIES	ASAP	01/11/08	ASAP	01/14/08	P6721-7-07	1	01/30/08
Robie	Marengo, M.	OIR	Next Generation Atmospheric Models of Asymptotic Giant Branch Stars	East Tennessee State University	ASAP	05/29/08	ASAP	05/30/08	P6965-5-08	0	06/09/08
Modestino	Martens	HEA	Evolving Solar Magnetic Activity on Time Scales Relevant for Space Climate	NASA	ASAP	09/16/08	ASAP	09/17/08	P7067-9-08	0	09/18/08
Robie	Melnick, G.	OIR	Herschel 02 Project	JPL [Herschel]	ASAP	05/09/08	ASAP	05/13/08	P6813-10-07	1	05/19/08
Taylor	Melnick, G.	OIR	Continued Study of the Cosmic Inflation Probe Mission Concept	NASA	ASAP	03/24/08	ASAP	03/26/08	P6851-11-07	1	03/28/08
Robie	Melnick, G.	OIR	Extrasolar Planetary Imaging Coronagraph (EPIC)	NASA	ASAP	11/19/07	ASAP	11/19/07	P6855-11-07	0	11/21/07
Robie	Melnick, G.	OIR	The Water Cycle, the Oxygen budget, and the Structure of Interstellar Clouds	NASA	ASAP	11/27/07	ASAP	11/29/07	P6858-11-07	0	12/03/07
Robie	Melnick, G.	OIR	SAO Participation in a Herschel HIFI Guaranteed Time Observer Program	JPL [Herschel]	ASAP	01/04/08	ASAP	01/07/08	P6874-1-08	0	01/16/08
Trischitta	Murray, S.	CXT	New Approaches to X-Ray Optics and Silicon Detectors	Gordon and Betty Moore Foundation	ASAP	05/29/08	ASAP	06/06/08	P6972-6-08	0	06/20/08
Robie	Noeske, K.	OIR	At the Cradle of the Milky Way: Formation of the Most Massive Field Disk Galaxies at z >1	STScI	ASAP	01/16/08	ASAP	01/17/07	P6880-1-08	0	01/22/08
Modestino	Nulsen, P.	HEA	The Energetics and Metal Abundance Patterns in the Outskirts of M87	NASA [Suzaku Cy 2-Stage2]	ASAP	08/20/08	ASAP	08/21/08	P6928-5-08	1	08/26/08
Rathle	Raymond, J	SSP	Post-Eruption Heating of CME Plasma	NASA	ASAP	09/17/08	ASAP	09/18/08	P6893-2-08	1	09/18/08
Novack	Reasenberg, R.	AMP	Development of a Payload Design and Required Technology for a Test of the Equivalence Principle on a Sounding Rocket	NASA	ASAP	04/30/08	ASAP	05/01/08	P6691-6-07	1	05/06/08
Modestino	Risaliti, G.	HEA	Doubling the Number of Existing Good Quality Spectra of Obscured AGN	NASA [XMM-Stage2]	ASAP	04/09/08	ASAP	04/15/08	P6922-4-08	0	04/23/08
Modestino	Roelofs, G.	HEA	Follow-up of the Direct Detection of the Progenitor of the type Ia Supernova 2007	SAO [Chandra]	ASAP	02/25/08	ASAP	02/25/08	P6864-12-07		

Proposal Coordinator	PI	Div	Short Proposal Title	Sponsor	Sponsor Due Date	Date Rcvd at FM	# DAYS Lead-Time	Date Sent to SPP	Proposal #	Rev #	Date Sent to Sponsor
Williamson	Schneps, M.	SED	RDE-FRI: The Effects of Dyslexia on Scientists' Analysis of Astrophysical Data	NSF	ASAP	04/24/08	ASAP	04/25/08	P6932-5-08	0	05/08/08
Modestino	Siemiginowska, A.	HEA	X-ray Environment of Radio Galaxy 4C 29.30	NASA [XMM Cycle 6]	ASAP	05/02/08	ASAP	05/02/08	P6931-5-08	0	05/05/08
Robie	Smith, H.	OIR	CFA Participation in the Hi-GAL Program	JPL [Herschel]	ASAP	05/09/08	ASAP	05/14/08	P6807-10-07	1	05/19/08
Robie	Smith, H.	OIR	CFA Contributions to the Hercules Program	JPL [Herschel]	ASAP	05/09/08	ASAP	05/13/08	P6828-10-07	1	05/19/08
Robie	Smith, H.	OIR	CfA Contributions to the HERCULES Program	CalTech [HERSCHEL]	ASAP	07/09/08	ASAP	07/10/08	P6828-10-07	2	07/11/08
Cornelio	Soderberg, A	TA	Revealling the Explosion Geometry of Nearby GRB-SNe	STScI	ASAP	08/06/08	ASAP	08/06/08	P7022-8-08	0	08/07/08
Yorke	Soon, W.	SSP	Understanding Solar Variability and Climate Change: Signals from Temperature Records of the United States	Southern Company Services	ASAP	01/24/08	ASAP	01/25/08	P6882-1-08	0	01/30/08
Rathle	Spahr, T.	SSP	Support of the Minor Planet Center	JPL	ASAP	10/18/07	ASAP	10/22/07	P6816-10-07	0	10/23/07
Rathle	Spahr, T.	SSP	Support of the Minor Planet Center [Continuation of Subcontract 1321438]	JPL	ASAP	04/04/08	ASAP	04/04/08	P6919-4-08	0	04/11/08
Rathle	Spahr, T.	SSP	Support of the Minor Planet Center [Continuation of Subcontract 1321438]	JPL	ASAP	01/23/08	ASAP	01/24/08	P6881-1-08	0	01/29/08
Modestino	Steeghs, D.	HEA	SWIFT TOO Observations of Galactic X-Ray Transients	NASA	ASAP	04/09/08	ASAP	04/11/08	P6839-11-07	1	04/14/08
Feldman	Szentgyorgyi, A.	OIR	Collaborative Research: Develop A Bright, Ultrastable Optical Wavelength Calibrator for Exoplanet and Cosmology Research	NSF	ASAP	04/14/08	ASAP	04/17/08	P6832-11-07	1	04/18/08
Trischitta	Tananbaum, H.	HEA	Constellation X-Ray Technical, Science and Mission Study Support	NASA	ASAP	10/01/07	ASAP	10/02/07	P6799-10-07	0	10/03/07
Robie	Tolls, V	OIR	SAO Participation in the DAVINCI Mission Concept Study Support	JPL	ASAP	09/08/08	ASAP	09/08/08	P7055-9-08	0	09/09/08
Modestino	Wang, J	HEA	A First X-ray of Infrared Dark Clouds, Precursors to Star cClusters	NASA [XMM-Stage2]	ASAP	04/14/08	ASAP	04/14/08	P6921-4-08	0	04/23/08
Block	Weintroub, J.	RG	Second Generation VLBI Processor for the Submillimeter Array	MIT	ASAP	10/25/07	ASAP	10/25/07	P6819-10-07	0	10/25/07
							64 ASAP	22%			
Robie	Allen, L.	OIR	Herschel Orion Protostar Survey	University of Toledo [Herschel]	ASAP	10/22/07	1	10/24/07	P6818-10-07	0	10/24/07
Modestino	Arcand, K	HEA	International Year of Astronomy 2009 in the U.S.: Exhibiting Astronomy with the "From Earth to the Universe" Project	NASA	07/15/08	07/15/08	1	07/15/08	P7002-7-08	0	07/15/08
Brennan	Cohen, L.	CE	Augmentation to Technical Support in Mirror Analysis	JPL	05/28/08	06/04/08	(6)	06/05/08	P6963-6-08	0	06/09/08
Brennan	Cohen, L.	CE	Technical Support in Mirror Analysis	JPL	03/11/08	03/11/08	1	03/11/08	P6906-3-08	0	03/12/08
Daly	Dussault, M.	SED	The International Year of Astronomy a& Beyond: Libraries as a Pathway to Inspiring, Engaging, and educationing Tomorrow's Explorers	STScI	07/25/08	07/28/08	(2)	07/28/08	P7020-8-08	0	08/05/08
Modestino	Fabbiano, G.	HEA	HerINGS: The Herschel Interacting Galaxies Survey	JPL [Herschel]	10/26/07	10/26/07	1	10/29/07	P6830-10-07	0	10/30/07
Modestino	Jonker, P.	HEA	Following a Black Hole Candidate X-Ray Transient to Quiescence	SAO [Chandra]	ASAP	12/18/07	1	12/20/07	P6765-9-07	1	12/20/07

Proposal Coordinator	PI	Div	Short Proposal Title	Sponsor	Sponsor Due Date	Date Rcvd at FM	# DAYS Lead-Time	Date Sent to SPP	Proposal #	Rev #	Date Sent to Sponsor
Modestino	Kasper, J.	HEA	The Dark Ages Lunar Interferometer (DALI)	NRL	11/19/07	11/19/07	1	11/19/07	P6853-11-07	0	11/19/07
Modestino	Kasper, J.	HEA	Continuing Data Analysis for the Solar Wind Experiment on the Wind Spacecraft	NASA	07/09/08	07/09/08	1	07/09/08	P6999-7-08	0	07/10/08
Modestino	Kraft, R	HEA	The Multi-Faceted X-Ray Activity of Low-Redshift Active Galaxies	SAO [Chandra Cycle 10]	09/18/08	09/18/08	1	09/18/08	P7078-9-08	0	09/18/08
Modestino	Martens, P.	HEA	Development of Tehcniques for the Prediction of Medium Term Solar Activity	NSF	01/16/08	01/16/08	1	01/16/08	P6879-1-08	0	01/16/08
Modestino	Murray, M.	HEA	The Spin and Magnetic Moment of the Neutron Star in Cassiopeia A	SAO [Chandra Cycle 10]	09/17/08	09/17/08	1	09/17/08	P7076-9-08	0	09/18/08
Modestino	Plucinsky, P.	HEA	The X-ray Source population of the Andromeda Galaxy M31	University of Washington	03/12/08	03/12/08	1	03/12/08	P6909-3-08	0	03/14/08
Rathle/ Brennan	Shapiro, I.	TA	Testing the Principle of Equivalence in an Einstein Elevator	NASA	03/28/08	03/28/08	1	03/28/08	P6917-3-08	0	03/28/08
Modestino	Slavin, J.	HEA	Sensitive Polarization Measurements of the Interstellar Magnetic Field at the Heliosphere	University of Chicago	05/09/08	05/09/08	1	05/09/08	P6939-5-08	0	05/09/08
Novack	Wang, H.	AMP	SAO Participation in Using MRO Mars Daily Global Maps to Study Martian Weather and Climate	Caltech	08/14/08	08/14/08	1	08/14/08	P7023-8-08	0	08/14/08
							16 1D or Less	6%			
Conry	Arcand, K	HEA	"From Earth to the Universe" Cornerstone Project: Project Coordination for the International Year of Astronomy [IYA] 2009	International Astronomical Union	09/03/08	09/02/08	2	09/02/08	P7003-7-08	1	08/06/08
Battle	Brissenden, R.	HEA	Concept Study of the Technology Required for the Generation X Project	NASA	ASAP	05/08/08	2	05/09/08	P6850-11-07	1	05/13/08
Modestino	Cohen, O.	HEA	SHINE Postdoc: The Role of Coronal Mass Ejections in Reversal the Open Magnetic Flux of the Sun	NSF	09/05/08	09/04/08	2	09/05/08	P7045-9-08	0	09/05/08
Modestino	Fabbiano, G.	HEA	Management and Operation of the Virtual Astronomical Oservatory (VAO)	Virtual Astonomical Observatory, LLC [VAO]	04/22/08	04/21/08	2	04/22/08	P6924-4-08	0	04/22/08
Robie	Fazio, G.	OIR	H-COSMOS	JPL [Herschel]	ASAP	10/25/07	2	10/29/07	P6829-10-07	0	10/30/07
Brennan	Freeman, M.	CE	Thermal Systems Engineering Support to JUNO-JADE Instrument Development	Southwest Research Institute	02/06/08	02/05/08	2	02/05/08	P6896-2-08	0	02/08/08
Trischitta	Golub, L	HEA	A Grazing Incidence - High Resolution Imager [GI-HRI] for the Solar Orbiter	NASA [SMEX-FOSO]	02/01/08	01/31/08	2	01/31/08	P6884-1-08	0	01/31/08
Modestino	Golub, L.	HEA	SAO Participation in Phase A and Bridge Phase of the Interface Region Imaging Spectrograph [IRIS]	Lockheed Martin [SMEX]	12/14/07	12/13/07	2	12/17/07	P6871-1-08	0	01/09/08
Modestino	Hickox, R.	HEA	Exploring Supermassive Black Hole Accretion in Obscured AGN and BONGs	NASA (Suzaku Cycle 3)	05/23/08	05/22/08	2	05/22/08	P6951-5-08	0	05/23/08
Block	Holman, M.	TA	Accurate Estimates of the Intrinsic Abundances of Different TNO Populations with PAN-STARRS-1	NASA	05/16/08	05/15/08	2	05/16/08	P6942-5-08	0	05/16/08
Cornelio	Holman, M.	TA	HAT-P-1: A Direct Glimpse into the Atmosphere of a Hot Jupiter	STSCi	07/03/08	07/02/08	2	07/03/08	P6996-7-08	0	07/03/08
Batlle	Kasper, J.	HEA	Solar Wind Analyzer Ions Proposal for the Solar Orbiter	Southwest Research Institute [SMEX-FOSO]	01/29/08	01/28/08	2	01/29/08	P6883-1-08	0	01/30/08
Modestino	Kasper, J.	HEA	Anisotropy-driven Instabilities and Heating in the Solar Wind	University of California, Berkeley	02/04/05	02/01/08	2	02/04/08	P6886-2-08	0	02/07/08

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Batlle	Kasper, J.	HEA	The Microphysics of Interplanetary Shocks	University of Minnesota	04/13/08	04/14/08	2	04/14/08	P6923-4-08	0	04/24/08
Modestino	Kenter, A	HEA	Development of CMOS detectors as Soft X-ray Imaging Spectrometers	NASA	03/28/08	03/27/08	2	03/28/08	P6916-3-08	0	03/28/08
Modestino	Martens, P.	HEA	Diagnostic Modeling of Flaring and Quasi-Static Coronal Loops	NASA	05/09/08	05/08/08	2	05/09/08	P6938-5-08	0	05/09/08
Battle	Martens, P.	HEA	Design and Operation on a Solar Dynamics Observatory Science Center	NASA	07/25/08	07/24/08	2	07/25/08	P7015-8-08	0	08/01/08
Batlle	Martens, P.	HEA	REU Site: Solar Physics at CfA	NSF	08/18/08	08/15/08	2	08/18/08	P7033-8-08	0	08/18/08
Batlle	Martens, P.	HEA	Feature Recognition in Solar Images to Enagle Interactive Search	Montana State University	08/27/08	08/26/08	2	08/26/08	P7038-8-08	0	08/27/08
Modestino	Maughan, B.	HEA	The X-Ray Temperature Function and Structure of Clusters at z=0.6-1	NASA [XMM-Newton]	ASAP	11/07/07	2	11/07/07	P6621-3-07	1	11/08/07
Robie	Melnick, G.	OIR	The Herschel Mapping Sgr B2 and Orion Program (MAPSO)	JPL [Herschel]	10/26/07	10/25/07	2	10/26/07	P6826-10-07	0	10/30/07
Modestino	Murray, S.	HEA	WFXRT	Johns Hopkins University	11/19/07	11/16/07	2	11/19/07	P6852-11-07	0	11/20/07
Modestino	Reid, P	HEA	Adjustable Grazing Incidence X-Ray Optics with 0.1 Arc-Second Angular Resolution	NASA	03/28/08	03/27/08	2	03/28/08	P6915-3-08	0	03/28/08
Modestino	Risaliti, G.	HEA	The LSD Project: Dynamics, Merging and Stellar Populations of a Sample of Well-Studied LBGs at z~3	STScI	07/02/08	07/01/08	2	07/02/08	P6995-7-08	0	07/03/08
Modestino	Schwartz, D (Co-I)	HEA	Completing a Flux-limited Survey for X-Ray Emission from Radio Jets	SAO [Chandra Cycle 10]	09/02/08	08/29/08	2	08/29/08	P7043-9-08	0	09/05/08
Trischitta	Silver, E.	HEA	APEX, The Astrophysical Polarimetric Explorer	NASA [SMEX]	01/15/08	01/12/08	2	01/13/08	P6876-1-08	0	01/14/08
Robie	Smith, H.	OIR	CFA Contributions to the Hermolirg Program	JPL [Herschel]	10/26/07	10/25/07	2	10/26/07	P6827-10-07	0	10/30/07
Hodges	Stark, A.	RG	SAO Component of Herschel Legacy Observations of Inner Galaxy Gas	Oberlin College [Herschel]	10/26/07	10/25/07	2	10/26/07	P6823-10-07	0	10/26/07
Modestino	Steeghs, D.	HEA	SWIFT TOO Observations of Galactic X-Ray Transients	NASA	11/08/07	11/07/07	2	11/07/07	P6839-11-07	0	11/08/07
Modestino	Testa, P	HEA	Using Coronal Features as Building Blocks for Modeling Maunder-like Minima and Inactive Solar/Stellar Coronae	NASA	05/09/08	05/08/08	2	05/09/08	P6940-5-08	0	05/09/08
Modestino	Tuellmann, R	HEA	A Pulsar Wind Nebula in G18.95-1.1?	SAO [Chandra Cycle 10]	08/18/08	08/19/08	2	08/19/08	P7036-8-08	0	08/28/08
Modestino	Wilkes, B.	HEA	UniQuE: Unification in the Quasar Era	JPL [Herschel]	10/26/07	10/25/07	2	10/26/07	P6825-10-07	0	10/30/07
Modestino	Wills-Davey, M.	HEA	Tackling the Quandary: What are Coronal EIT Waves? Using Multi-Spacecraft Combined Data Analysis to Determine the Physics of Transient Solar Global Events	NASA	02/08/08	02/07/08	2	02/07/08	P6898-2-08	0	02/08/08
							33 2D or Less	11%			
Robie	Allen, L.	OIR	NICMOS Imaging of Protostars in the Orion A Cloud: The Role of Environment in Star Formation	STScI	07/03/08	07/01/08	3	07/02/08	P6994-7-08	0	07/02/08
Robie	Brodwin, M	OIR	Formation and Evolution of Massive Galaxies in the Richest Environments at 1.5<z<2.0	STScI	07/03/08	07/01/08	3	07/02/08	P6997-7-08	0	07/03/08
Modestino	Di Stefano, R.	TA	What are the Progenitors of Type Ia Supernovae?	NASA	05/30/08	05/28/08	3	05/29/08	P6955-5-08	0	05/30/08

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Modestino	Di Stefano, R.	TA	Observing Nearby Dark Lenses from Space	NASA	05/30/08	05/28/08	3	05/29/08	P6957-5-08	0	05/30/08
Modestino	Di Stefano, R.	TA	The Brightest X-Ray Binaries in the Universe: Determining their Natures with Data from NASA Missions	NASA	06/20/08	06/18/08	3	06/20/08	P6981-6-08	0	06/20/08
Modestino	Drake	HEA	The ChaSte Survey	SAO [Chandra Cycle 10]	09/18/08	09/16/08	3	09/16/08	P7072-9-08	0	09/17/08
Modestino	Elvis, M.	HEA	NGC3227 Monitoring: Key to AGN Structure and Cosmic Feedback	NASA (Suzaku Cycle 3)	05/05/08	05/01/08	3	05/02/08	P6930-5-08	0	05/05/08
Modestino	Galache, J	HEA	Study of the X-Ray Binary Population in the Magellanic Clouds: Evolution, XLFs and Neutron Star Properties	NASA	06/20/08	06/18/08	3	06/19/08	P6979-6-08	0	06/20/08
Modestino	Galache, J	HEA	Investigating the XRB Population of the SMC at High Energies	NASA [INTEGRAL-Stage2]	07/18/08	07/16/08	3	07/17/08	P7004-7-08	0	07/17/08
Hodges	Greenhill, L.	RG	The Murchison Wide-Field Array Radio Observatory Real-Time System and Foreground Model Development	MIT/NEROC	05/23/08	05/21/08	3	05/22/08	P6952-5-08	0	05/23/08
Modestino	Kasper, J.	HEA	Imaging the Magnetic Field in the Inner Heliosphere to Improve Predictions of Geospace Environment Conditions	NASA	10/19/07	10/17/07	3	10/19/07	P6810-10-07	0	10/19/07
Modestino	Kasper, J.	HEA	Remote Imaging of Total Electron Cotent and Magnetic Fields in the Ionosphere and Heliosphere	Air Force Office of Scientific Research [AFOSR]	07/22/08	07/18/08	3	07/21/08	P7009-7-08	0	07/22/08
Novack	Kharchenko, V.	AMP	X-ray Emission as a Probe for CME Interaction with the Geocorona and Interplanetary Gas	NASA	10/19/07	10/17/07	3	10/19/07	P6809-10-07	0	10/19/07
Bernard	Kohl, J.	SSP	SAO Participation in the Phase A Study of the Coronal Physics Explorer (CPEX) Mission	Praxis, Inc.	08/06/08	08/04/08	3	08/05/08	P7021-8-08	0	08/07/08
Modestino	Korreck, K.	HEA	A Study of the Effect of Coronal Mass Ejections on Mass and Angular Momentum Loss	NASA	05/09/08	05/07/08	3	05/07/08	P6934-5-08	0	05/09/08
Yorke	Korzennik, S.	SSP	Robust Time-Distance Inferences	NASA	10/19/07	10/17/07	3	10/19/07	P6811-10-07	0	10/19/07
Feldman	Latham, D.	OIR	Super Earths and Life Astrobiology Institute - Cycle 5	NASA	04/11/08	04/09/08	3	04/09/08	P6920-4-08	0	04/10/08
Modestino	Liu	HEA	The X-Ray Point Source Populations in Nearby Galaxies	SAO [Chandra Cycle 10]	09/18/08	09/16/08	3	09/17/08	P7074-9-08	0	09/17/08
Hodges	Mamajek, E.	RG	SAO Component of Evolution of Planetary Systems	Univ of Arizona [Herschel]	10/19/07	10/17/07	3	10/18/07	P6806-10-07	0	10/19/07
Modestino	Martens, P.	HEA	Diagnostic Modeling of Flaring and Quasi-Static Coronal Loops	NASA	02/08/08	02/06/08	3	02/07/08	P6897-2-08	0	02/08/08
Modestino	McNamara	HEA	A Deep Image of the Most Powerful Cluster AGN Outburst	SAO [Chandra Cycle 10]	09/18/08	09/16/08	3	09/17/08	P7077-9-08	0	09/18/08
Robie	Melnick, G.	OIR	Exploring the Cloud-Core Connection with Herschel	Univ of Masssachusetts [Herschel]	10/22/07	10/18/07	3	10/22/07	P6814-10-07	0	10/23/07
Taylor	Melnick, G.	OIR	Continued Study of the Cosmic Inflation Probe Mission Concept	NASA	11/20/07	11/16/07	3	11/15/07	P6851-11-07	0	11/19/07
Barnett	Pillai, T	RG	Infrared Dark Clouds: Initial Conditions, Early Stages, and Mechanisms of High Mass Star Formation	NASA	06/20/08	06/18/08	3	06/19/08	P6978-6-08	0	06/20/08
Modestino	Randall	HEA	A Study of Ram Pressure Stripping with Numerical Simulations of the Merging Galaxy Group M86	SAO [Chandra Cycle 10]	09/18/08	09/16/08	3	09/16/08	P7075-9-08	0	09/17/08
Novack	Rothman, L	AMP	Extended HITEMP Database for Astrophysical Applications	NASA	06/20/08	06/18/08	3	06/19/08	P6977-6-08	0	06/20/08

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Williamson	Schneps, M	SED	Investigating a Discovery of Reflexive Eye Motions Associated with Covert Attention	NSF	07/15/08	07/11/08	3	07/15/08	P7000-7-08	0	07/15/08
Modestino	Silver, E.	HEA	FEI Microcalorimeter Project	FEI Company	10/23/07	10/19/07	3	10/22/07	P6815-10-07	0	10/25/07
Field-Daly	Steel, S	SED	To the Edge of Understanding: Unlocking the Secrets of Black Holes with Future Space Telescopes	NASA	09/24/08	09/22/08	3	09/23/08	P7080-9-08	0	10/01/08
Modestino	Testa, P	HEA	The Thermal Structure of the Solar Corona w/Hinode/EIS and SOHO SUMER	NRL	05/07/08	05/05/08	3	05/06/08	P6933-5-08	0	05/08/08
Robie	Tolls, V.	OIR	Speckle Suppression in a Coronagraphic ExoPlanet Imager	NASA	03/28/08	03/26/08	3	03/28/08	P6914-3-08	0	03/28/08
Feldman	Torres, G.	OIR	Improved Parameters for Extrasolar Transiting Planets	NASA	05/09/08	05/07/08	3	05/08/08	P6941-5-08	0	05/23/08
Novack	Wang, H.	AMP	Barotropic Instability of Planetary Polar Vortices	NASA	06/20/08	06/18/08	3	06/20/08	P6980-6-08	0	06/20/08
Modestino	Zezas	HEA	The Evolution of Elliptical Galaxies with Different Fine-Structure Indices	SAO [Chandra Cycle 10]	09/18/08	09/16/08	3	09/16/08	P7071-9-08	0	09/17/08
							34 3D or Less	12%			
Barnett	Bourke, T.	RG	The Initial Conditions for Star Formation in Clusters	NSF	03/14/08	03/11/08	4	03/12/08	P6910-3-08	0	03/14/08
Modestino	Brissenden, R.	HEA	A Concept Study of the Technology Required for Generation X: A Large Area and High Angular Resolution X-Ray Observatory to Study the Early Universe	NASA	11/20/07	11/15/07	4	11/15/07	P6850-11-07	0	11/16/07
Novack	Chance, K.	AMP	Imaging Fabry-Perot Spectrometer for CO Measurements from Space at 2.4 Microns	NASA	12/12/07	12/07/07	4	12/11/07	P6861-12-07	0	12/12/07
Daly	Cohen, L.	CE	Independent Technical Oversight of AMSD and JWST (Augmentation to NCC5-716)	NASA	11/07/07	11/02/07	4	11/05/07	P6838-11-07	0	11/07/07
Yorke	Dupree, A.	SSP	Wind Evolution in the Eta Cha Association	NASA [FUSE]	01/31/08	01/28/08	4	01/29/08	P6712-6-07	1	01/30/08
Modestino	Elvis, M.	HEA	NGC3227 Monitoring: Key to AGN Structure and Cosmic Feedback	NASA [Suzaku Cy 3-Stage2]	08/28/08	08/25/08	4	08/26/08	P6930-5-08	1	08/26/08
Demski-Hamelin	Frebel, A	OIR	Cosmo-Chronometry and Elemental Abundance Distribution of the Ancient Star HE 1523-0901	STScI	07/03/08	06/30/08	4	07/01/08	P6993-7-08	0	07/02/08
Modestino	Gaetz, T	HEA	Searching for Ejecta in the Vela Supernova Remnant Fragments	NASA [Suzaku Cy 3-Stage2]	08/28/08	08/25/08	4	08/26/08	P6929-5-08	1	08/26/08
Williamson	Griswold, A.	SED	Welcome to the Smithsonian: Fred L. Whipple Observatory	Smithsonian Astrophysical Observatory	08/01/08	07/29/08	4	07/30/08			
Williamson	Griswold, A.	SED	Welcome to the Smithsonian: Smithsonian Asian Pacific American Program	Smithsonian Asian Pacific American Program/SAO	08/01/08	07/29/08	4	07/30/08			
Williamson	Griswold, A.	SED	Welcome to the Smithsonian: Smithsonian Latino Center	Smithsonian Latino Center/SAO	08/01/08	07/29/08	4	07/30/08			
Williamson	Griswold, A.	SED	Welcome to the Smithsonian: Tropical Research Institute	Smithsonian Tropical Research Institute	08/01/08	07/29/08	4	07/30/08			
Cornelio	Holman, M.	TAD	An Archival Search for Faint Kuiper Belt Objects	STScI	07/03/08	06/30/08	4	07/01/08	P6992-7-08	0	07/02/08
Feldman	Kaltenegger, L.	OIR	Spectral Fingerprints of the First Detectable Habitable Planets	NASA	05/23/08	05/20/08	4	05/22/08	P6950-5-08	0	05/23/08

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Daly	Karovska, M.	SED	All Jets Great and Small	SAO [Chandra EPO]	11/07/07	11/02/07	4	11/05/07	P6835-11-07	0	11/07/07
Rathle	Kenyon, S.	SSP	Understanding the Diversity of Debris Disks	NASA	05/23/08	05/20/08	4	05/21/08	P6946-5-08	0	05/22/08
Bernard	Kohl, J.	SSP	Coronal Physics Explorer (CPEX) Mission	NRL [SMEX]	01/11/08	01/08/08	4	01/11/08	P6875-1-08	0	01/11/08
Feldman	Latham, D.	OIR	Target Characterization for Kepler	NASA	11/01/07	10/29/07	4	11/01/07			
Hodges	Matthews, L.	RG	The HI 21-cm Line as a Probe of Stellar Mass-Loss and Evolution	NSF	11/15/07	11/09/07	4	11/14/07	P6849-11-07	0	11/15/07
Bernard	Miralles, M.	SSP	Determining the Contribution of Jets and Plumes to the Fast Solar Wind	NASA	02/08/08	02/05/08	4	02/06/08	P6892-2-08	0	02/07/08
Robie	Pahre, M.	OIR	Pan-Chromatic View of Elliptical Galaxies: Not Old, Not Dead, Not Red?	NASA	06/20/08	06/17/08	4	06/18/08	P6976-6-08	0	06/19/08
Yorke	Raymond, J.	SSP	Post-eruption Heating of CME Plasma	NASA	02/08/08	02/05/08	4	02/06/08	P6893-2-08	0	02/08/08
Novack	Reasenberg, R.	AMP	Planetary Ephemeris Program: Application to the APPLO Data and Increased Ease of Use by the Scientific Community	NASA	05/30/08	05/27/08	4	05/28/08	P6960-5-08	0	05/30/08
Modestino	Risaliti, G	HEA	Short-Time Monitoring of Extreme Spectral Variations in Seyfert 2s	SAO [Chandra Cycle 10]	09/18/08	09/15/08	4	09/16/08	P7073-9-08	0	09/17/08
Conry	Romaine, S.	HEA	A Mission of Opportunity with SIMBOL-X	NASA [MO]	01/15/08	01/10/08	4	01/12/08	P6877-1-08	0	01/14/08
Brennan	Shapiro, I.	TA	Testing the Principle of Equivalence in an Einstein Elevator	NASA	05/30/08	05/27/08	4	05/30/08	P6959-5-08	0	05/30/08
Modestino	Siemiginowska, A. Kelly, B.	HEA	Hubble Fellowship: Observational Constraints on Supermassive Black Hole Growth, Quasar Structure and Cosmological Feedback	STScI	06/30/08	06/25/08	4	06/30/08	P6990-6-08	0	06/30/08
Robie	Smith, H.	OIR	Atomic Oxygen Abundances as Determined from Self-Absorption Profiles of the [OI]63 micron Line in Clouds as Measured by the ISO Fabry-Perot Analysis of 150 Sources	NASA	06/20/08	06/17/08	4	06/18/08	P6975-6-08	0	06/19/08
Rathle	Smith, R	SSP	ATOMDB: Towards An Accessible, Accurate and Complete Atomic Database for X-Ray Astronomy	NASA	06/20/08	06/17/08	4	06/17/08	P6974-6-08	0	06/19/08
Cornelio	Soderberg, A	TAD	The Energetics and Environments of "Naked" Supernovae	SAO [Chandra Cycle 10]	ASAP	09/15/08	4	09/15/08	P7068-9-08	0	09/18/08
Cornelio	Soderberg, A	TAD	An In-Depth Study of the Nearest Gamma-Ray Bursts	SAO [Chandra Cycle 10]	09/18/08	09/15/08	4	09/16/08	P7070-9-08	0	09/17/08
Hodges	Stark, A.	RG	SAO Component of Herschel Legacy Observations of Inner Galaxy Gas	JPL [Herschel]	05/20/08	05/15/08	4	05/19/08	P6823-10-07	1	05/23/08
Hodges	Stark, A.	RG	Analysis of ISO Galactic Center Observations: Far Infrared Grating Line Maps and Fabry-Perot Spectra	NASA	06/20/08	06/17/08	4	06/18/08	P6973-6-08	0	06/20/08
Feldman	Szentgyorgyi, A.	OIR	Collaborative Research: Develop a Bright, Ultrastable Optical Wavelength Calibrator for Exoplanet and Cosmology Research	NSF	11/01/07	10/29/07	4	10/31/07	P6832-11-07	0	11/01/07
Robie	Tolls, V.	OIR	Development of Soft-Edged Coronagraphic Occulter Masks for Visible and Infrared Wavelength	NASA	03/28/08	03/25/08	4	03/27/08	P6913-3-08	0	03/28/08
Modestino	Vrtilek, S.	HEA	Modulation Tomography: Imaging the Disks of X-ray Binaries	NSF	11/15/07	11/09/07	4	11/14/07	P6848-11-07	0	11/15/07
Modestino	Wills-Davey, M.	HEA	Coronal Dimming Regions as Proxies for Coronal Mass Ejection and Geomagnetic Storms	NASA	09/05/08	09/02/08	4	09/03/08	P7044-908	0	09/08/08
							37 4D or Less	13%			

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Block	Alcock, C.	TA\	Constraint on Dark Energy Through Measurement of Maser Distances and HO	NSF	11/15/07	11/08/07	5	11/13/07	P6846-11-07	0	11/15/07
Robie	Ashby, M.	OIR	The Herschel Reference Bright Galaxy Survey (HERBGS)	JPL [Herschel]	10/26/07	10/22/07	5	10/26/07	P6822-10-07	0	10/29/07
Rathle	Bakos, G.	SSP	Operating a Global Network of Southern Hemisphere Automated Telescopes to Detect and Characterize a Multitude of Transiting Exoplanets	NASA	05/23/08	05/19/08	5	05/21/08	P6948-5-08	0	05/23/08
Bernard	Cranmer, S.	SSP	The Impact of Stellar Winds on Star Formation and Solar System Evolution	NASA	05/30/08	05/23/08	5	05/28/08	P6954-5-08	0	05/29/08
Block	Davis, J.	RG	Collaborative Research: Neotectonic Experiment in Tibet (NEXT)	NSF	11/15/07	11/08/07	5	11/08/07	P6841-11-07	0	11/13/07
Modestino	DeLuca, E.	HEA	Modeling the Evolution of Global Coronal Magnetic Fields	NASA	02/08/08	02/04/08	5	02/05/08	P6890-2-08	0	02/07/08
Rathle	Di Stefano, R.	TA	Employing the Power of Lensing in the Solar Neighborhood: Nearby Dwarfs, Habitable Planets and Stellar Remnants with Mesolensing	NSF	11/15/07	11/08/07	5	11/09/07	P6842-11-07	0	11/15/07
Modestino	Evans, N.	HEA	Mysteries of the North Star: HST/COS Confirmation of Real-Time Evolution and Upper Atmosphere Heating in Polaris	STScI	07/03/08	06/27/08	5	06/27/08	P6989-6-08	0	06/30/08
Modestino	Forman, W.	HEA	Gas Dynamics Around M87	NASA/GSFC [XMM Stage-2]	03/14/08	03/10/08	5	03/10/08	P6905-3-08	0	03/12/08
Modestino	Gorenstein, P.	HEA	MASSIM: Mili-ArcSecond X-ray Imager	NASA	11/08/07	11/02/07	5	11/02/07	P6834-11-07	0	11/02/07
Williamson	Griswold, A.	SED	Multimedia Production: Science and Engineering in the Lives of Students	Oregon State University	10/05/07	10/01/07	5	10/03/07	P6803-10-07	0	10/05/07
Modestino	Hickox, R.	HEA	Exploring Supermassive Black Hole Accretion in Obscured AGN and BONGs	NASA [Suzaku Cy 3-Stage2]	09/08/08	09/02/08	5	09/03/08	P6951-5-08	1	09/08/08
Hodges	Holman, M.	TA	The Transit Light Curve Project	NASA	05/23/08	05/19/08	5	05/21/08	P6949-5-08	0	05/23/08
Batlle	Kasper, J.	HEA	Mileura Wide-Field Array Low Frequency Demonstration	MIT	12/07/07	12/03/07	5	12/03/07	P6860-12-07	0	12/17/07
Battle	Kasper, J.	HEA	Development of a Multi-Phase High Voltage Power Supply for STROFIO	SouthWest Research Institute	05/09/08	05/05/08	5	05/07/08	P6943-5-08	0	05/27/08
Yorke	Kenyon, S.	SSP	Spitzer Space Telescope Fellowships Program for Dr. Mukremin Kilic [A New Approach for Finding Planets And Brown Dwarfs around White Dwarfs]	Caltech	03/31/08	03/25/08	5	03/26/08	P6912-3-08	0	03/28/08
Rathle	Kenyon, S.	SSP	Formation of Gas Giant Planets	NASA	05/30/08	05/23/08	5	05/27/08	P6953-5-08	0	05/29/08
Yorke	Korennik, S	SSP	Analysis of Astrometric and Radial Velocity Data Sets in Response to Call for SIM Planet-Finding Astrometry Analysis Teams	JPL	03/25/08	03/19/08	5	03/21/08	Not Submitted	n/a	n/a
Modestino	Korreck, K.	HEA	A Study of the Effect of Coronal Mass Ejections on Mass and Momentumo of the Sun Over Time	NASA ROSES	02/08/08	02/04/08	5	02/05/08	Not Submitted	n/a	n/a
Rathle	Korzennik, S.	SSP	Time-Distance Inferences: Towards a Robust and Rigorous Diagnostic Methodology in and around Active Regions	NASA	05/09/08	05/05/08	5	05/07/08	P6935-5-08	0	05/09/08
Rathle	Korzennik, S.	SSP	Study of the Internal Solar Structure, its Dynamics and their Evolution During Cycle 23 Inferred from Improved Mode Fitting of MDI Observations	NASA	05/09/08	05/05/08	5	05/07/08	P6936-5-08	0	05/09/08
Rathle	Korzennik, S.	SSP	Completion of the Analysis of MDI High Degree Data for NASA SOHO Michelson Doppler Imager Program	Stanford University	07/11/08	07/07/08	5	07/08/08	P6998-7-08	0	07/10/08
Rathle	Li, Y.	TA	Collaborative Research: Cosmological All-Wavelength Radiative Transfer (CART)	NSF	11/15/07	11/08/07	5	11/13/07	P6847-11-07	0	11/14/07

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Modestino	Martens, P.	HEA	The Virtual Solar Observatory	National Solar Observatory	12/20/07	12/14/07	5	12/18/07	P6866-12-07	0	12/21/07
Modestino	Martens, P.	HEA	SAO Contribution to the Expansion and Maintenance Phase of the Virtual Solar Observatory	AURA/NOAO	06/30/08	06/24/08	5	06/25/08	P6987-6-08	0	06/27/08
Robie	Melnick, G.	OIR	Herschel O2 Project	JPL [Herschel]	10/22/07	10/16/07	5	10/22/07	P6813-10-07	0	10/23/07
Taylor	Melnick, G.	OIR	Ground Data System [GDS] and Co-I Support to the Space Terahertz Interstellar Mapper (STIM)	University of Arizona [SMEX]	12/14/07	12/10/07	5	12/13/07	P6863-12-07	0	12/14/07
Bernard	Miralles, M.	SSP	Comprehensive Study of Reconnection Events with Hinode, SOHO, STEREO, and TRACE	NASA	05/09/08	05/05/08	5	05/07/08	P6937-5-08	0	05/09/08
Modestino	Nicastro, F.	HEA	The Nature of the Variations of State in the Phoenix Galaxy	NASA	10/24/07	10/18/07	5	10/22/07	P6654-5-07	1	10/23/07
Modestino	Nicastro, F.	HEA	The Ultradeep Survey in the CDFS: An XMM-Newton Legacy	NASA/GSFC [XMM Stage-2]	03/14/08	03/10/08	5	03/11/08	P6907-3-08	0	03/14/08
Modestino	Nicastro, F.	HEA	Searching for the Missing Baryons to Better Understand the Universe: A Crucial Test for our Standard Cosmological Paradigm	NASA	06/20/08	06/16/08	5	06/17/08	P6971-6-08	0	06/19/08
Modestino	Nulsen, P.	HEA	Mechanism and Effects of Nuclear Outbursts in Elliptical Galaxies, Groups and Clusters	NSF	11/15/07	11/08/07	5	11/08/07	P6840-11-07	0	11/13/07
Modestino	Nulsen, P.	HEA	The Energetics and Metal Abundance Patterns in the Outskirts of M87	NASA (Suzaku Cycle 3)	05/05/08	04/29/08	5	05/02/08	P6928-5-08	0	05/05/08
Rathle	Petaev, M.	SSP	Modeling of Isotopic and Chemical Zoning in Metal Grains from CH and CB Chondrites	NASA	05/23/08	05/19/08	5	05/20/08	P6947-5-08	0	05/22/08
Modestino	Risaliti, G.	HEA	Black Hole Occultation and Outflow Variability in NGC 1365	NASA [Suzaku Cy 2-Stage2]	04/25/08	04/21/08	5	04/24/08	P6926-4-08	0	04/28/08
Modestino	Roelofs, G.	HEA	Follow-up of the Direct Detection of the Progenitor of the type Ia Supernova 2007on	SAO [Chandra]	12/18/07	12/12/07	5	12/13/07	P6864-12-07	0	12/17/07
Williamson	Schneps, M	SED	Peripheral Processing in Dyslexia: A New formulation of the Magnocellular Deficit Theory	National Insitute of Health (NIH)	03/16/08	03/10/08	5	03/13/08	P6700-6-07	1	03/14/08
Modestino	Slane, P	HEA	ChicAGO: Chandra Identification of ASCA Galactic Objects	SAO [Chandra Cycle 10]	09/18/08	09/12/08	5	09/12/08	P7066-9-08	0	09/15/08
Robie	Smith, H.	OIR	CFA Contributions to the Hercules Program	JPL [Herschel]	11/06/07	10/31/07	5	11/02/07	P6828-10-07	0	11/05/07
Rathle	Spahr, T.	SSP	Minor Planet Center Operations [Follow-On]	NASA	06/13/08	06/09/08	5	06/10/08	P6966-6-08	0	06/11/08
Conry	Tananbaum, H	HEA	For Additional Funds to Extend the Chandra X-Ray Center Grants Program Administration Through 31 December 2012 and Conduct the Einstein Fellowship Program	NASA-MSFC	09/29/08	09/23/08	5	09/29/08	P7081-9-08	0	09/30/08
Barnett	Willman, B.	TA	Simulating the Observable Properties of Stellar Halos	NSF	11/15/07	11/08/07	5	11/09/07	P6844-11-07	0	11/13/07
Modestino	Zezas	HEA	Wide, Deep and Sharp: A Comprehensive Observation of M82, the Exemplar of Starburst Activity	SAO [Chandra Cycle 10]	09/18/08	09/12/08	5	09/15/08	P7069-9-08	0	09/16/08
							43 5D or Less	15%			
Feldman	Alcock, C. Soderberg, A.	TA	Hubble Fellowship: Toward an Understanding of the Progenitors of Type Ibc Supernovae	STSCi	05/30/08	06/06/08	6	05/30/08	P6961-6-08	0	06/03/08
Barnett	Blundell, R.	RG	HIMASS - Hi Fi Massive Star Forming Regions Spectral Study	JPL [Herschel]	10/26/07	10/19/07	6	10/26/07	P6821-10-07	0	10/26/07
Barnett	Bourke, T.	RG	Exploring the Cloud-Core Connection with Herschel	Univ of Masssachusetts [Herschel]	10/26/07	10/19/07	6	10/26/07	P6824-10-07	0	10/26/07

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Barnett	Bourke, T.	RG	The Birth and Evolution of Proto-Planetary Disks	NASA	05/23/08	05/16/08	6	05/21/08	P6945-5-08	0	05/22/08
Bernard	Cranmer, S.	SSP	Definitive Tests of Competing Models of Coronal Heating and Solar Wind Acceleration: Waves versus Reconnection in Open Flux Tubes	NASA	02/08/08	02/01/08	6	02/05/08	P6888-2-08	0	02/06/08
Thomas	Dame, T.	RG	A Uniform CO Survey of the Northern Sky with the CFA Telescope	NASA	02/29/08	02/22/08	6	02/27/08	P6902-2-08	0	02/29/08
Block	Davis, J.	RG	Collaborative Research: Imaging Subcontinental-Scale Slip Events Near the Moho	NSF	12/01/07	11/23/07	6	11/28/07	P6856-11-07	0	11/28/07
Block	Davis, J.	RG	Beta-testing, Development and Dissemination of "Zaidaco," a Program for Exploration of Time-Variable Planetary Fields	NASA	12/28/07	12/20/07	6	12/21/07	P6868-12-07	0	12/27/07
Taylor	Fazio, G.	OIR	Phase E Engineering Support to Instrument Operations Warm Mission Planning for the IRAC for the SST [cont. Contract 2-1062296]	Caltech	12/14/07	12/07/07	6	12/11/07	P6862-12-07	0	12/12/07
Feldman	Latham, D.	OIR	Participation in the Transiting Exoplanet Survey Satellite [TESS]	MIT [SMEX]	12/28/07	12/20/07	6	01/02/08	P6869-1-08	0	01/03/08
Modestino	McClintock, J. Liu, Jifeng	TA	Chandra Fellowship: A Multiwavelength Approach to the nature of Ultraluminous X-Ray Sources	SAO [Chandra]	06/30/08	06/23/08	6	06/24/08	P6983-6-08	0	06/25/08
Robie	Smith, H.	OIR	CfA Tasks in Support of the Herschel "HERLOGAL" Program	JPL [Herschel]	10/23/07	10/16/07	6	10/22/07	P6812-10-07	0	10/23/07
Modestino	Testa, P	HEA	X-Ray Spectral Diagnostics of Accretion Processes in Pre-Main Sequence Stars: TWA 14	SAO [Chandra]	06/06/08	05/30/08	6	05/30/08	P6962-6-08	0	06/03/08
Gardner	Weekes, T.	OIR	The Application of Two Dimensional Imaging to Very High Energy Gamma Ray Astronomy	DOE	02/01/08	01/25/08	6	01/28/08	Not Submitted	n/a	n/a
Barnett	Wilner, D Andrews, S.	RG	Hubble Fellowship: Circumstellar Disk Structure and the Origins of Planetary Systems (2nd Yr)	STScI	06/30/08	06/23/08	6	06/24/08	P6982-6-08	0	06/27/08
							15 6D or Less	6%			
Block	Davis, J.	R&G	Combination of ICESat-II with Ground- and Space-Based Geodetic Data in Greenland: Science Goals and Required Mission Characteristics	NASA	07/30/08	07/22/08	7	07/23/08	P7012-7-08	0	07/30/08
Modestino	Elvis, M.	HEA	NGC 5548 Monitoring: Key to AGN Structure and Cosmic Feedback	NASA	10/24/07	10/16/07	7	10/18/07	P6653-4-07	1	10/19/07
Modestino	Evans, N.	HEA	The Dynamical Mass of the Bright Cepheid Polaris	STScI	07/03/08	06/25/08	7	06/25/08	P6986-6-08	0	06/26/08
Taylor	Fazio, G.	OIR	Continuation of Phase E Engineering Support for Instrument Operations of the Infrared Array Camera (IRAC)	Caltech	08/30/08	08/21/08	7	08/22/08	P7041-8-08	0	08/28/08
Modestino	Gaetz, T	HEA	Searching for Ejecta in the Vela Supernova Remnant Fragments	NASA (Suzaku Cycle 3)	05/05/08	04/25/08	7	04/28/08	P6929-5-08	0	05/05/08
Modestino	Green, P	HEA	How the ChaMP Stacks UP: 17 Years of Chandra Time on SDSS Galaxies	SAO [Chandra Cycle 10]	09/18/08	09/10/08	7	09/12/08	P7063-9-08	0	09/15/08
Block	Humphreys, L.	RG	Maser Geometric Distance Estimation to Seyferts and Inference for Cosmology.	DOE	12/18/07	12/10/07	7	12/12/07	P6865-12-07	0	12/18/07
Modestino	Jonker, P.	HEA	Following a Black Hole Candidate X-Ray Transient to Quiescence	SAO [Chandra Cycle 10]	09/18/08	09/10/08	7	09/11/08	P7065-9-08	0	09/15/08
Yorke	Korzennik, S.	SSP	Time-Series Mode Fitting: Improved Methodology Derived from Very Long Time Series	NASA	02/08/08	01/30/08	7	02/05/08	P6889-2-08	0	02/08/08
Thomas	McCarthy	R&G	Center for the Chemistry of the Universe	University of Virginia	07/25/08	07/17/08	7	07/21/08	P7011-7-08	0	07/23/08

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Modestino	Plucinsky, P.	HEA	Resolving a Mystery: What is the Emission Measure of the Local Hot Bubble?	NASA Stage 2 [XMM-Newton]	07/31/08	07/23/08	7	07/25/08	P7013-7-08	0	07/29/08
Modestino	Prestwich, A	HEA	Chandra Imaging of NGC 922 - The Closest Collisional Ring Galaxy	SAO [Chandra Cycle 10]	09/18/08	09/10/08	7	09/12/08	P7064-9-08	0	09/17/08
Williamson	Schneps, M.	SED	Physics for the 21st Century: A Multimedia Course for Adult Learners	Annenberg Media	06/03/08	05/23/08	7	05/29/08	P6970-6-08	0	06/12/08
Modestino	Slane, P	HEA	Rediscovering the Young Ejecta-Dominatd Supernova Remnant G350.1-0.3	SAO [Chandra Cycle 10]	09/18/08	09/10/08	7	09/10/08	P7062-9-08	0	09/12/08
Preston	Stark, A.	RG	Chasing Dark Energy: Efficient Measurements of Photometric Redshifts	Brinson Foundation	08/29/08	08/21/08	7	08/26/08	P7042-8-08	0	08/29/08
							15 7D or Less				
Modestino	David, L.	HEA	The Fe-to-Oxygen Ratio in Early-Type Galaxies with Galactic Winds	NASA/GSFC [XMM Stage-2]	03/14/08	03/05/08	8	03/05/08	P6904-3-08	0	03/14/08
Block	Davis, J.	RG	Collaborative Research: Combined Seismological and Geodetic Constraints on 3-D Mantle Structure	NSF	12/01/07	11/20/07	8	11/27/07	P6857-11-07	0	11/28/07
Block	Davis, J.	RG	EarthScope Panorama: Informal Geoscience Education Using Interactive Game Technology	NSF	07/16/08	07/07/08	8	07/15/08	P7001-7-08	0	07/16/08
Modestino	Harris, D	HEA	Using Chandra to Understand the TeV Emission from M87	SAO [Chandra Cycle 10]	09/18/08	09/09/08	8	09/09/08	P7059-9-08	0	09/11/08
Modestino	Harris, D	HEA	Tracking the Aftermath of the Giant Flare in the M87 Jet	SAO [Chandra Cycle 10]	09/18/08	09/09/08	8	09/10/08	P7060-9-08	0	09/11/08
Modestino	Harris, D	HEA	Probing Physical Conditions in the Extended Emission-Line Regions of Powerful Radio Galaxies: The Case of 3C171	SAO [Chandra Cycle 10]	09/18/08	09/09/08	8	09/10/08	P7061-9-08	0	09/11/08
Yorke	Korzennik, S.	SSP	Time-Distance Inferences: Towards More Rebust and Rigorous Diagnostic Methodologies in Magnetized Regions	NASA	02/08/08	01/30/08	8	02/05/08	P6887-2-08	0	02/08/08
Novack	Walsworth, R.	AMP	Very Low Field MRI Optimization and Feasibility	Harvard University	10/12/07	10/03/07	8	10/10/07	P6804-10-07	0	10/12/07
Modestino	Zezas, A.	HEA	A Deep Observation of NGC4261: Understanding Its Unique X-Ray Source Population, Gas Morphology, and Jet Properties	STScI	10/12/07	10/03/07	8	10/03/07	P6802-10-07	0	10/04/07
							9 8D or Less				
Modestino	Constantin, A.	HEA	Constraining the Co-Evolution of Black Hole Growth and Star Formation at the Lowest Levels of Galactic Nuclear Activity	STScI	07/03/08	06/23/08	9	06/24/08	P6984-6-08	0	06/30/08
Yorke	Kenyon, S.	SSP	EDGES: Evolution of Dust and Gas in Exo-Solar Systems	JPL [Herschel]	11/06/07	10/25/07	9	11/01/07	P6833-11-07	0	11/02/07
Rathle	Kurucz, R.	SSP	Line Data and Software Tools for Interpreting IR, Visible, UV, and X-Ray Spectra	NASA	06/20/08	06/10/08	9	06/10/08	P6968-6-08	0	06/12/08
Mullen	Lada, C.	RG	Spitzer Fellowship: Health Benefits Augmentation for Subaward 2-1080368	Caltech	06/20/08	06/10/08	9	06/11/08	P6967-6-08	0	06/27/08
Modestino	Markevitch, M	HEA	The X-Ray Gaseous Environment of Dying Radio Sources	SAO [Chandra Cycle 10]	09/18/08	09/08/08	9	09/09/08	P7057-9-08	0	09/09/08
Modestino	Mazzotta, P	HEA	LoCuSS: An Unbiased Multi-Wavelength Study of the Cluster Quadchotomy-Gas Cooling and Cluster Mergining at z=0.2	SAO [Chandra Cycle 10]	09/18/08	09/08/08	9	09/09/08	P7058-9-08	0	09/12/08
Modestino	Patnaude, D.	HEA	Investigating the X-Ray Variability of Cassiopeia A	STScI	10/12/07	10/02/07	9	10/03/07	P6801-10-07	0	10/04/07

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Modestino	Roelofs, G.	HEA	Resolving the Puzzling Nature of the Ultra-Compact Binary V407 Vul	STScI	07/03/08	06/23/08	9	06/24/08	P6985-6-08	0	06/26/08
	Smith, H.	OIR	CFA Participation in the Hi-GAL Program	JPL [Herschel]	10/23/08	10/11/08	9	10/18/08	P6807-10-07	0	10/18/07
							9 9D or Less				
Modestino	Forman, W	HEA	Precise Chandra Position Determinations of Compact Binary Candidates-Faint Persistent INTEGRAL Sources in the Bulge	SAO [Chandra Cycle 10]	09/18/08	09/05/08	10	09/08/08	P7056-9-08	0	09/09/08
Modestino	Jonker, P.	HEA	Deep Search from the Pulsars Powering the TeV Emission of LS I 61+303 and LS 5039	SAO [Chandra Cycle 10]	09/18/08	09/05/08	10	09/08/08	P7051-9-08	0	09/09/08
Modestino	Jonker, P.	HEA	XMMU J134736.6+173403: The Brightest ULX Known	SAO [Chandra Cycle 10]	09/18/08	09/05/08	10	09/08/08	P7052-9-08	0	09/09/08
Modestino	Jonker, P.	HEA	Completing the Galactic Bulge Survey: Categorizing the Plethora of Faint X-Ray Sources in the Galactic Buldge	SAO [Chandra Cycle 10]	09/18/08	09/05/08	10	09/08/08	P7053-9-08	0	09/09/08
Modestino	Jonker, P.	HEA	Taking the Temperature of the Superburster 4U 1608-522 After An Outburst	SAO [Chandra Cycle 10]	09/18/08	09/05/08	10	09/08/08	P7054-9-08	0	09/09/08
Modestino	Karovska, M.	HEA	X-Ray Jets Activity in the Symbiotic System CH Cyg	STScI	10/12/07	10/01/07	10	10/03/07	P6800-10-07	0	10/04/07
							6 10D or Less				
Modestino	Fabbiano, G.	HEA	Infant Ellipticals: The Evolution of Young Merger-Remnants	SAO [Chandra Cycle 10]	09/18/08	09/02/08	13	09/03/08	P7048-9-08	0	09/09/08
Modestino	Garcia, M.	HEA	Monitoring M31 for BHXNe	SAO [Chandra Cycle 10]	09/18/08	09/02/08	13	09/03/08	P7049-9-08	0	09/09/08
Modestino	Karovska, M.	HEA	Mapping the Centaurus A Nuclear Region	SAO [Chandra Cycle 10]	09/18/08	09/02/08	13	09/03/08	P7047-9-08	0	09/09/08
							3 13D or Less				
Modestino	Green, P	HEA	Two to Tango? Binary Quasars, Their Environments and the Merger Hypothesis	SAO [Chandra Cycle 10]	09/18/08	08/27/08	16	09/02/08	P7050-9-08	0	09/09/08
Modestino	Nicastro, F.	HEA	The Remarkable X-Ray Spectrum of the Luminous Red QSO FIM J0830+3759	NASA/GSFC [XMM Stage-2]	03/14/08	02/22/08	16	03/03/08	P6903-3-08	0	03/12/08
							2 16D or Less				
Modestino	Elvis, M.	HEA	A Co-Ordinated Chandra, Suzaku, HST Campaign for NGC 3227	SAO [Chandra Cycle 10]	09/18/08	08/25/08	18	09/03/08	P7046-9-08	0	09/09/08
Modestino	Jonker, P.	HEA	A > 10000 Solar Mass Black Hole	STScI	07/03/08	06/10/08	18	06/10/08	P6969-6-08	0	06/18/08
							2 18D or Less	16%			