

Wavelength Dependence of Extinction and Polarization

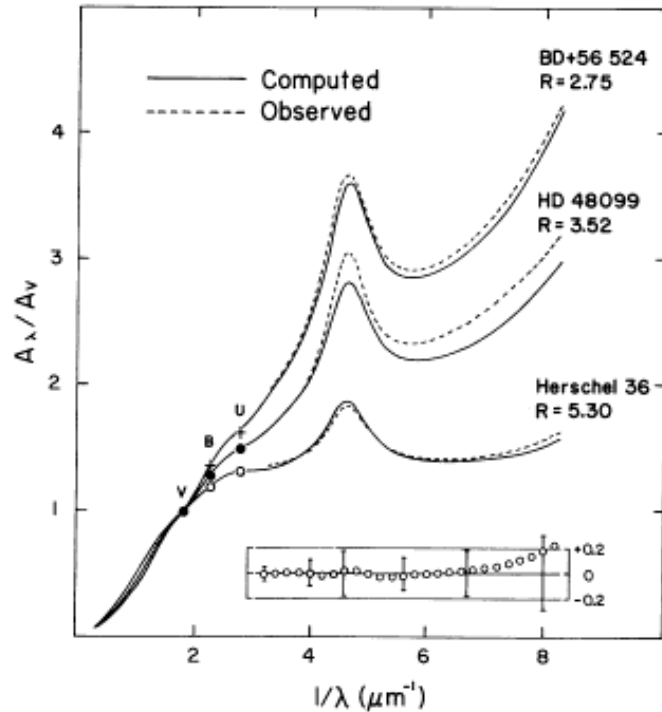


FIG. 4.—Same as Fig. 3 except for the UV portion of the mean R_V -dependent extinction law from eq. (4). The data at U , B , and V from Fig. 3 are also plotted. Again, the “error” bars in the lower inset represent the computed standard deviation of the data about the best fit of $A(\lambda)/A(V)$ vs. R_V^{-1} with $a(x) + b(x)/R_V$. The open symbols in the inset represent the difference between $A(\lambda)/A(V)$ from eq. (4) and the average curve of Seaton (1979) for $R_V = 3.2$. The only serious deviation occurs for $x > 7 \mu\text{m}^{-1}$ (see text).

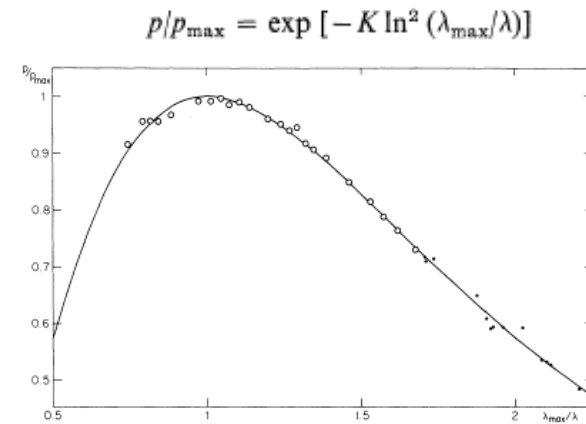


FIG. 3.—The normalized wavelength dependence of interstellar linear polarization derived from the observations with the Siding Spring multichannel polarimeter-photometer. The solid line is calculated from eq. (4) for $K = 1.15$. Every open circle is based on 20 stars, while each dot represents the observations of an individual star with a particular filter.

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