

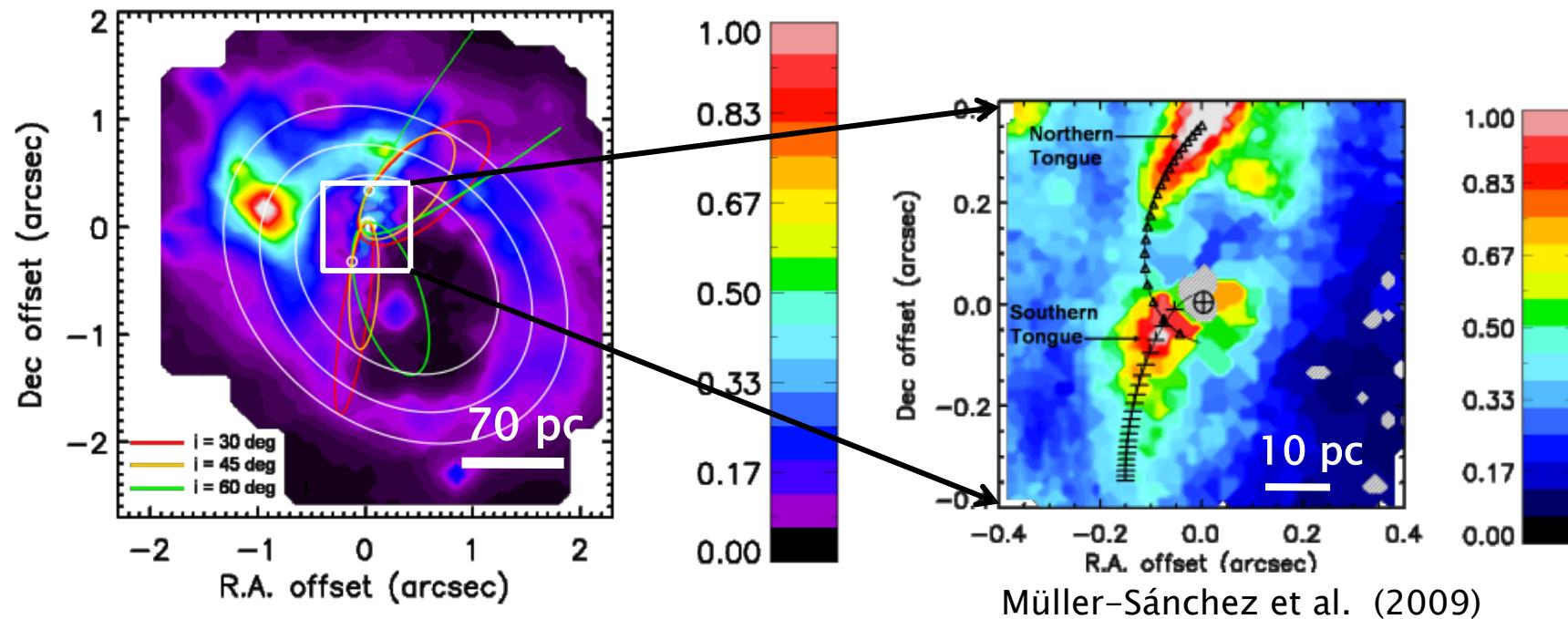
**LARGE SMA MOSAIC
DISCOVERED
THE MOLECULAR GAS STREAMS
PENETRATING THE 2-4 PC SCALE
CIRCUMNUCLEAR DISK IN THE MILKY WAY**

Papers: Liu et al. 2012, ApJ, 756, 195; Liu et al. 2013, ApJ, 770, 44

HAUYU BAOBAB LIU (ASIAA)

People: Paul T.-P. Ho (ASIAA), Young Chol Minh (KASI), Melvyn C.-H. Wright (Berkeley), Pei-Ying Hsieh (ASIAA), Yu-Nung Su (ASIAA), Ai-Lei Sun (Princeton), Sungsoo Kim (Kyung Hee University), Elisabeth Mills (Jansky Fellow), Sergio Martin (IRAM)

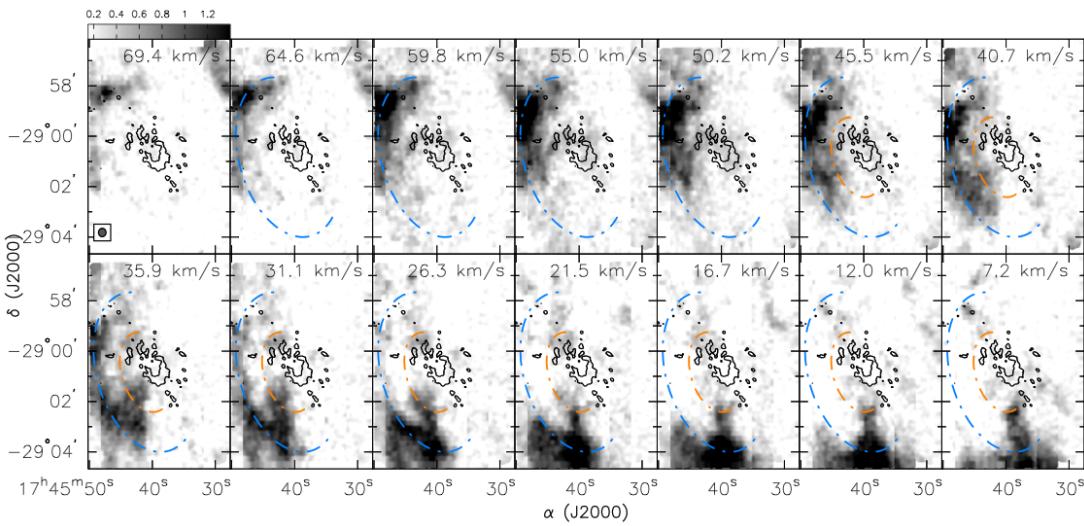
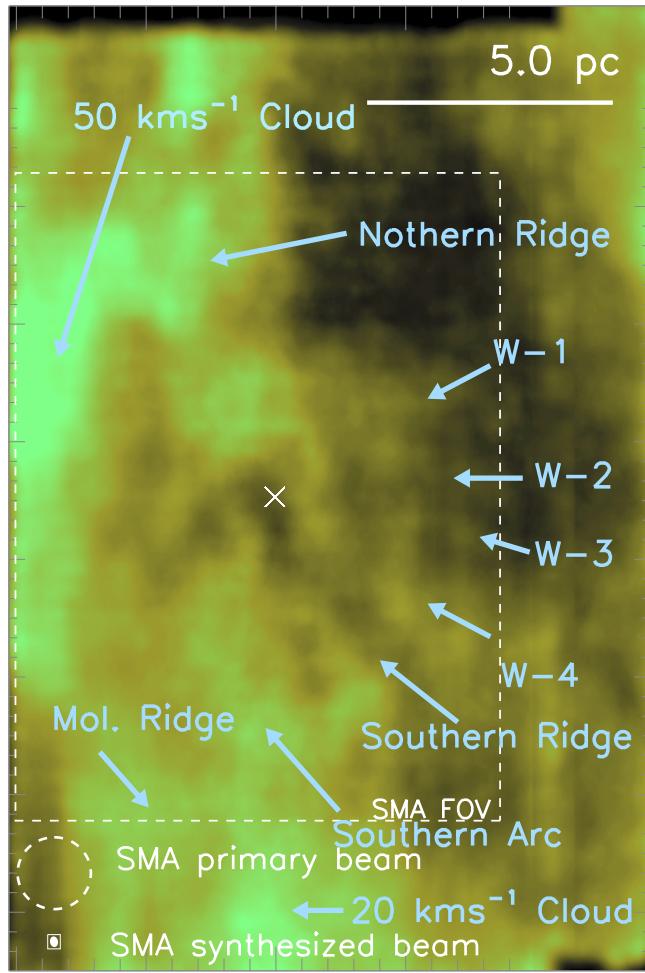
SINFONI/VLT Observation of the Nearest Seyfert 2: NGC 1068



Müller-Sánchez et al. (2009)

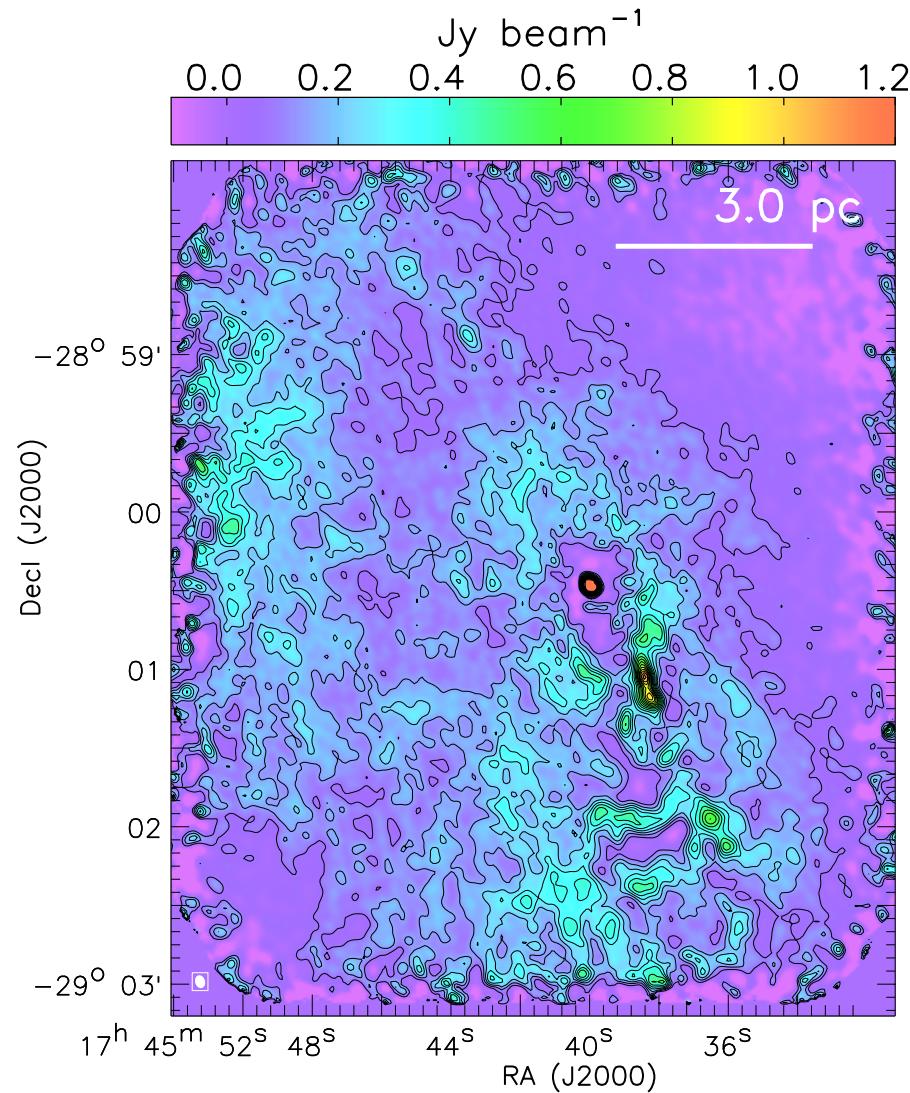
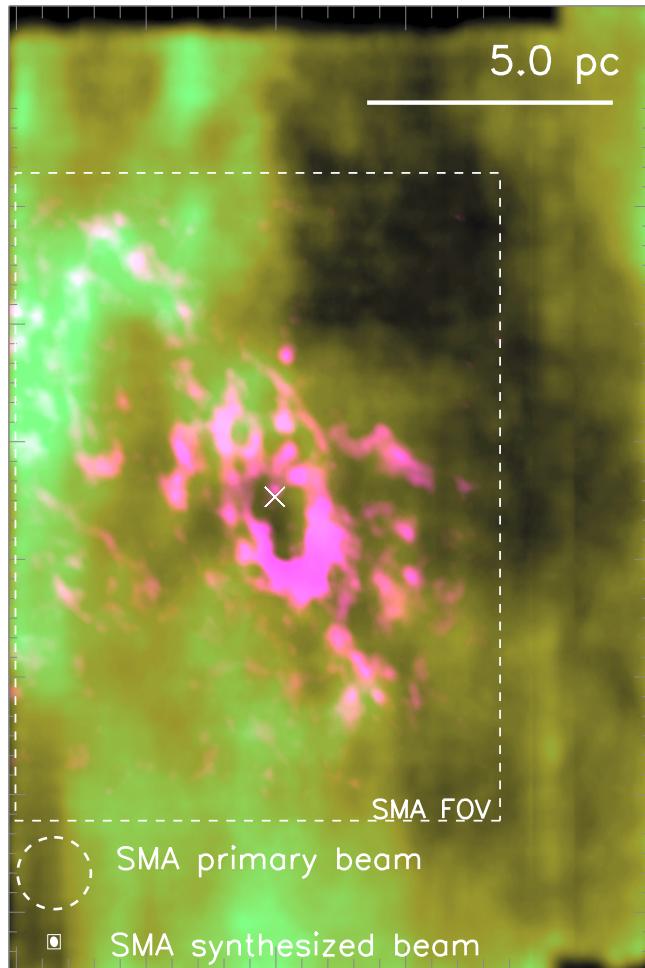
SINFONI/VLT 2.12 μm H₂ 1–0 S(1) flux map of the central region of NGC 1068 ($1''=70$). The angular resolution is 75 mas (~ 5 pc). The linear streamer apparently emanating from the circunnuclear ring and connecting to the AGN along a P.A. of $\sim -14^\circ$ is resolved. The proposed elliptical trajectories of gas streams are also indicated in this Figure. Details see Müller Sánchez et al. (2009).

The Dense Gas Streams Traced by CS 1-0



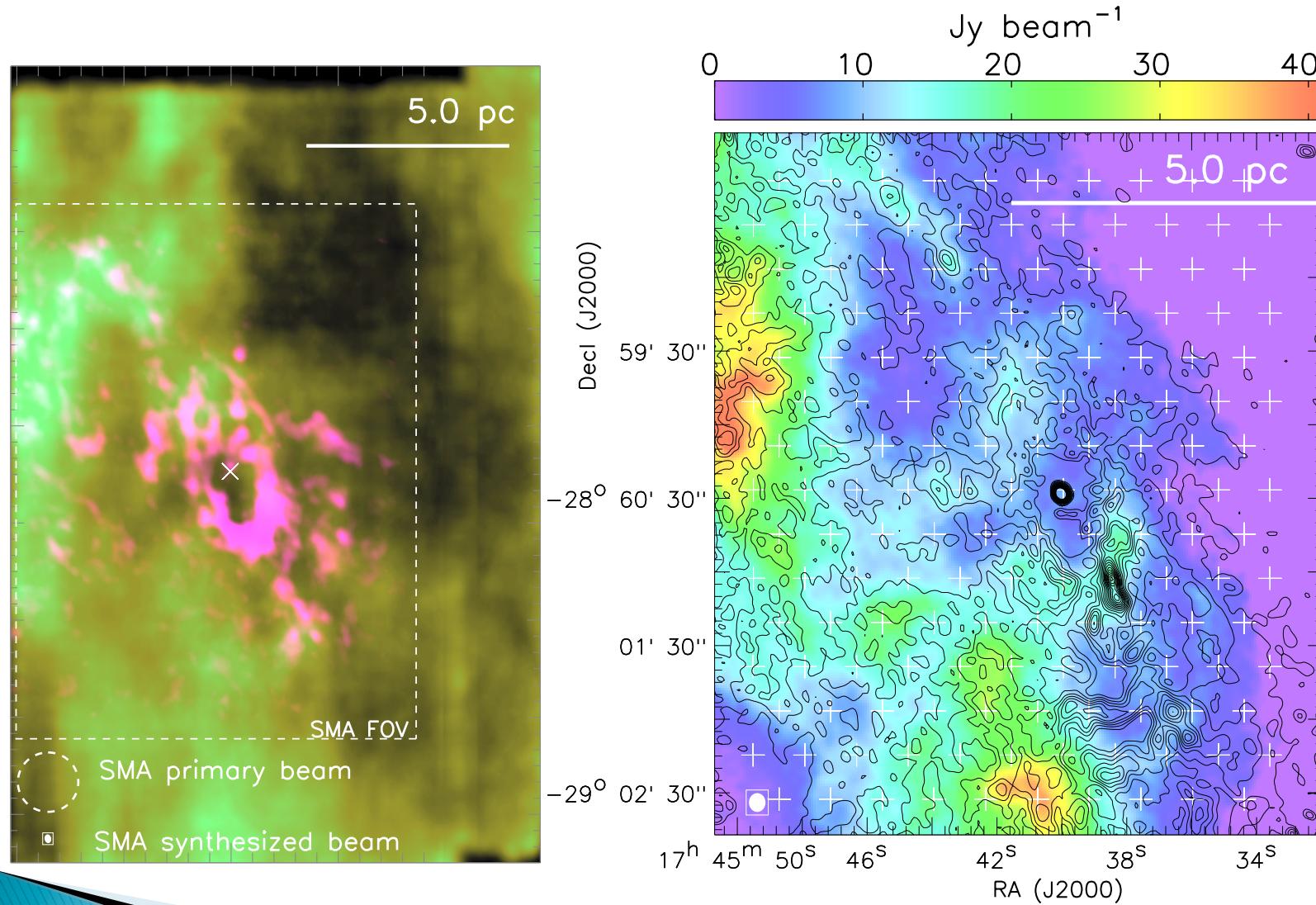
Liu et al. (2012)

The Clumpy Hot Gas Revealed in SMA Images



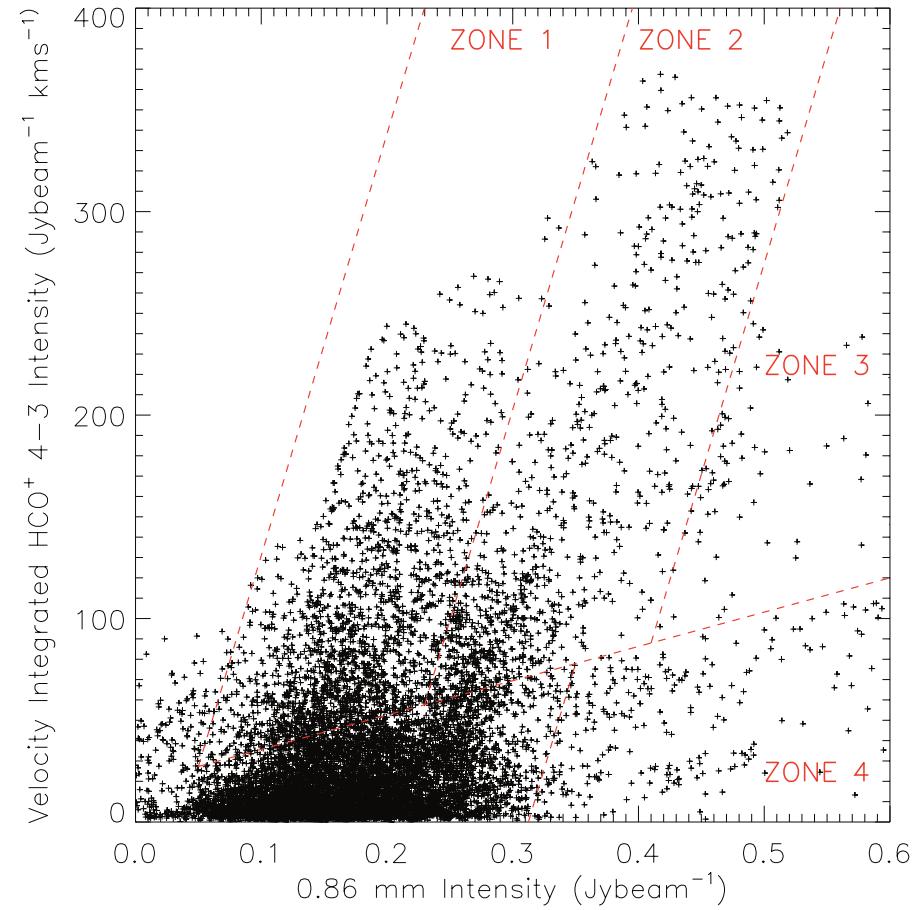
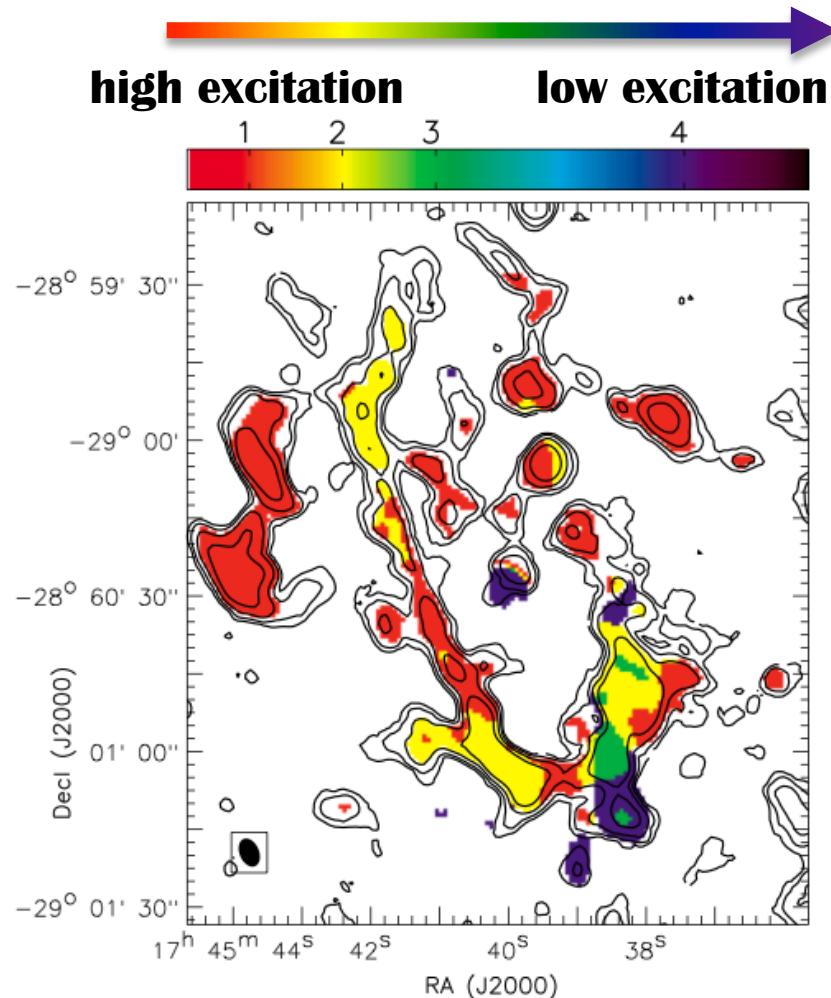
Liu et al. (2013)

The Clumpy Hot Gas Revealed in SMA Images



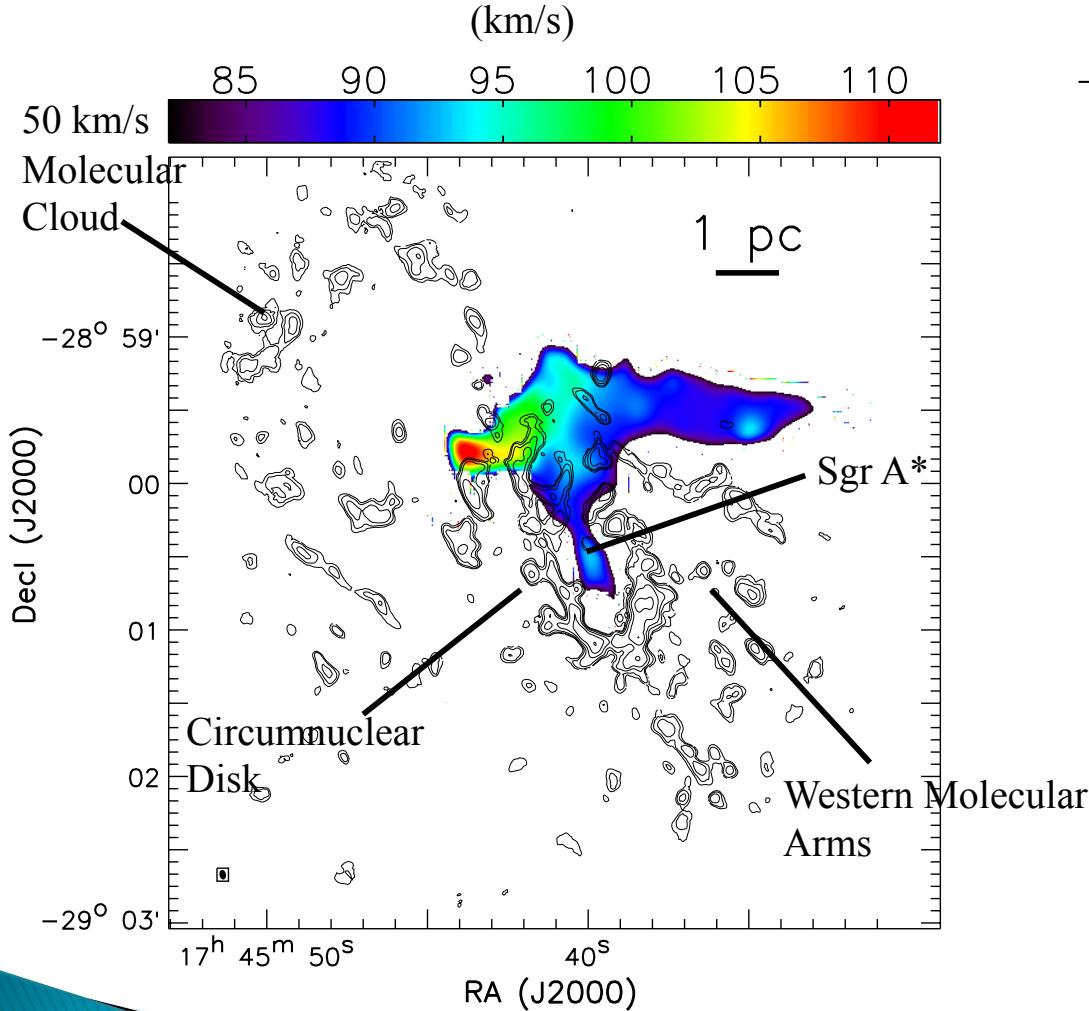
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The Highly Non-Uniform Excitation Condition in the CND

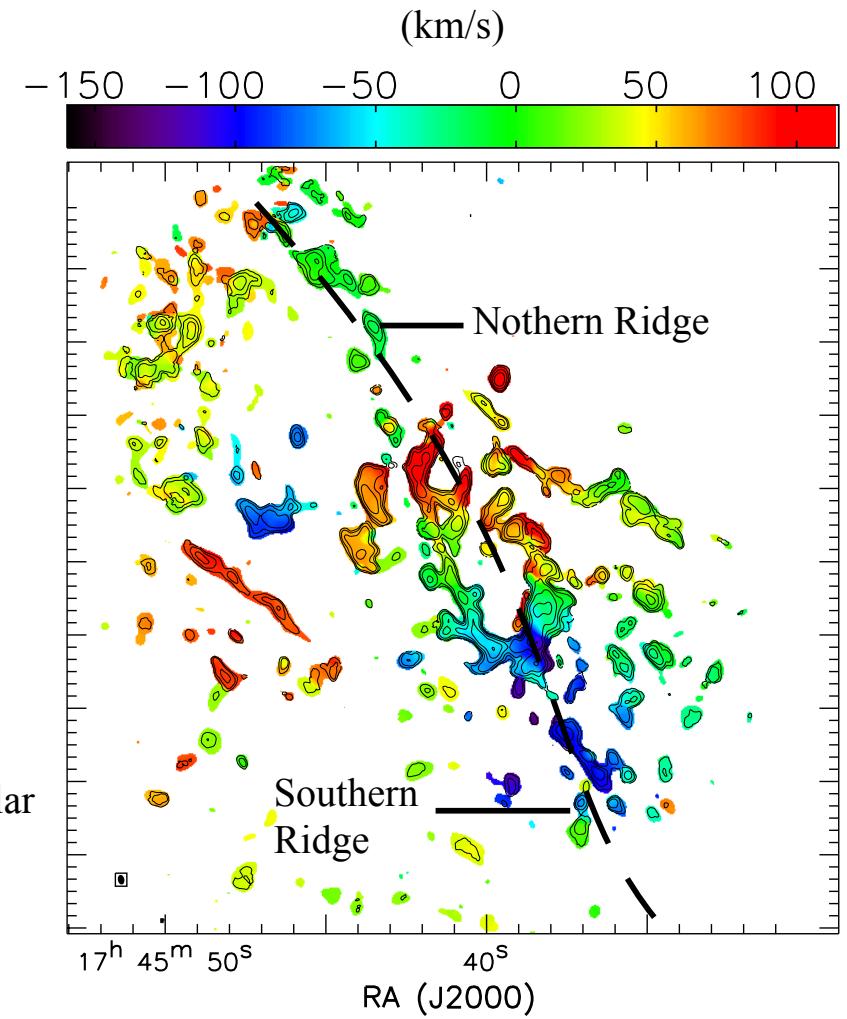


Liu et al. (2013)

The Large Scale Tidal Accretion Features Surrounding the SMBH

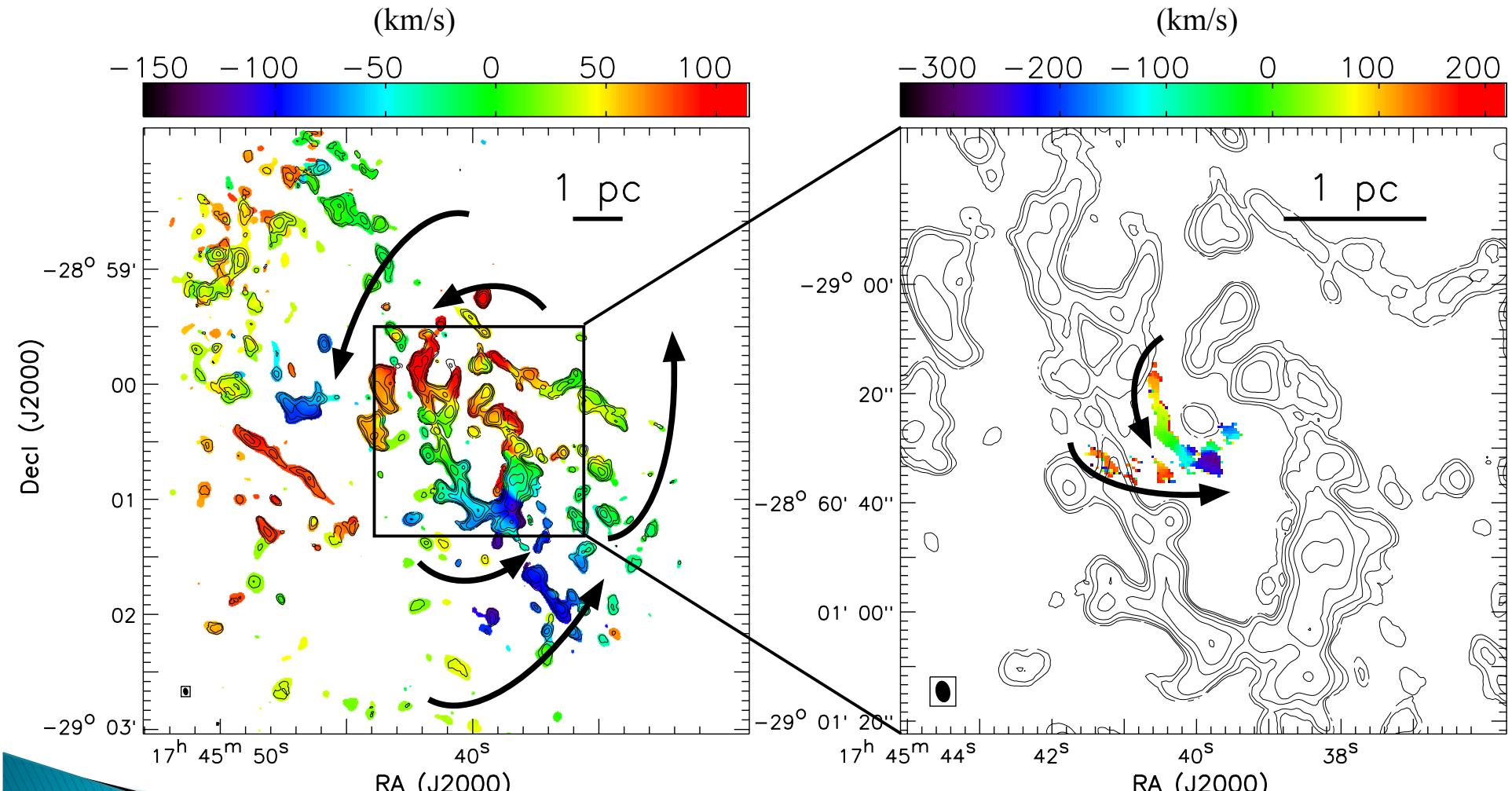


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Liu et al. (2012)

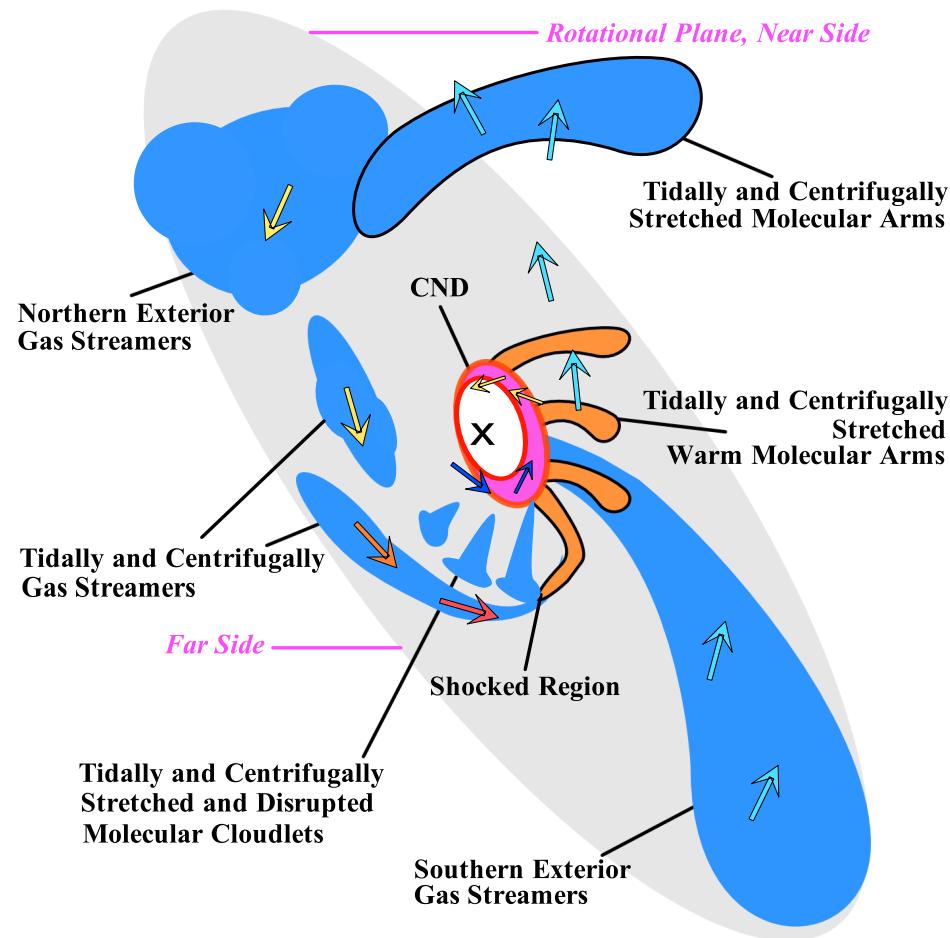
From the Molecular Gas Accretion Flow to the Ionized Mini-Spiral Arms



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Liu et al. (2012)

Tidal Accretion of the Molecular Gas Streams



Liu et al. (2012)