

The Nature of Gas and SF Tracers in Spiral Arm Studies -A Case Study in M51-

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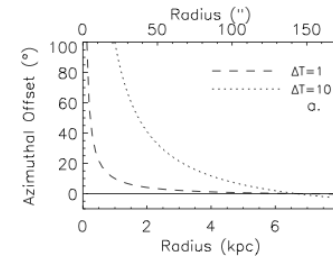
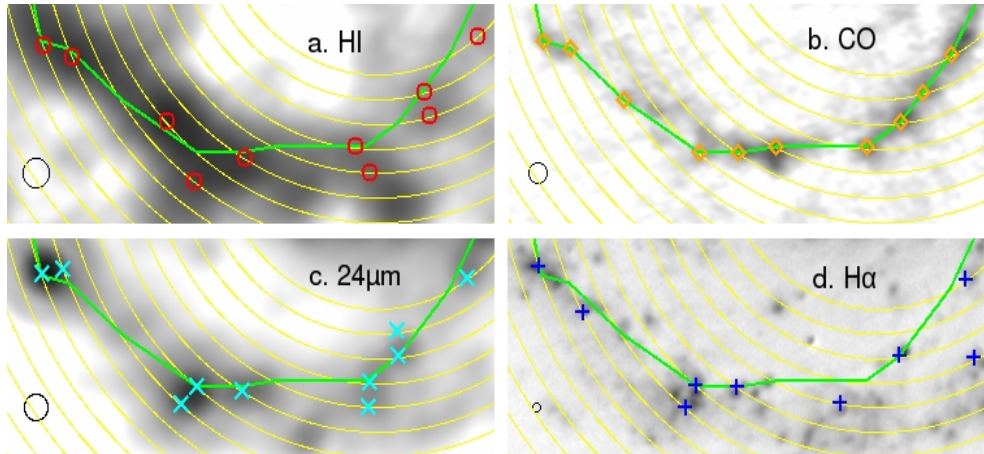
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Goal: Determine the cause of a discrepancy between previous gas and star formation offset measurements

- Two measurement techniques: manual peak tracing method and an automated cross-correlation method
- Compare four different tracers
 - Gas: HI & CO
 - Star formation: 24 μ m & H α



$$\Delta\theta(r)_{G \rightarrow SF} = (\Omega(r) - \Omega_p) \Delta t$$

