

National Radio Astronomy Observatory

ALMA Massive Star Formation Workshop September 24, 2008

Welcome & Scientific Impressions

K. Y. Lo



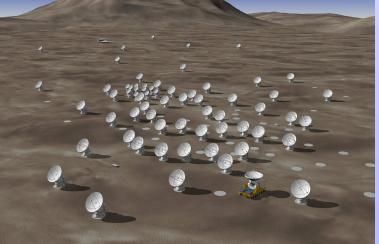


Atacama Large Millimeter/Submillimeter Array International astronomy facility, a partnership of Europe, North America and East Asia, in cooperation with Chile



Plano Chajnantor Northern Chile at 5000m elevation

> Operational 2013 (Early Science in 2010)



 50×12 -m telescopes + ACA: 12×7 -m + 4 × 12-m

Al Wootten, ALMA/US Project Scientist

North American ALMA Science Center Headed by Carole Lonsdale on 1 October 2008

- Portal for NA astronomers to ALMA
- User Support
- Schools





NRAO HQ Charlottesville, VA Search for new Head of NAASG

Spiral Galaxies in THINGS — The HI Nearby Galaxy Survey

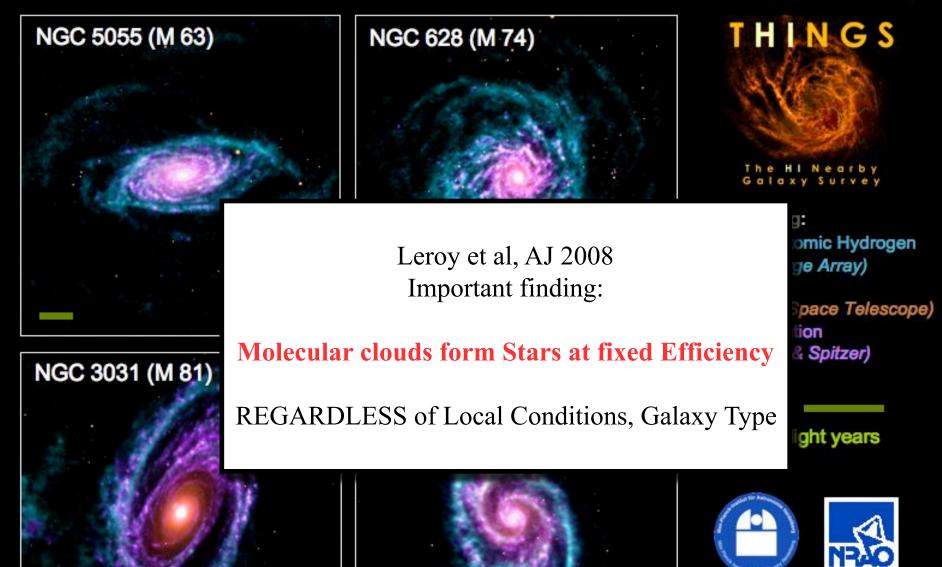


Image credits: VLA THINGS: Walter et al. 08 Spitzer SINGS: Kennicutt et al. 03 GALEX NGS: Gil de Paz et al. 07

Implications of fixed $SFE(H_2)$

- SFR in different environments depends on the formation of molecular clouds
- Do starbursts have the same fixed $SFE(H_2)$?
- \Rightarrow
- Understanding SF can be factored into 2 independent problems:
 - 1. Why is $SFE(H_2)$ fixed in molecular clouds?
 - 2. How are molecular clouds formed?