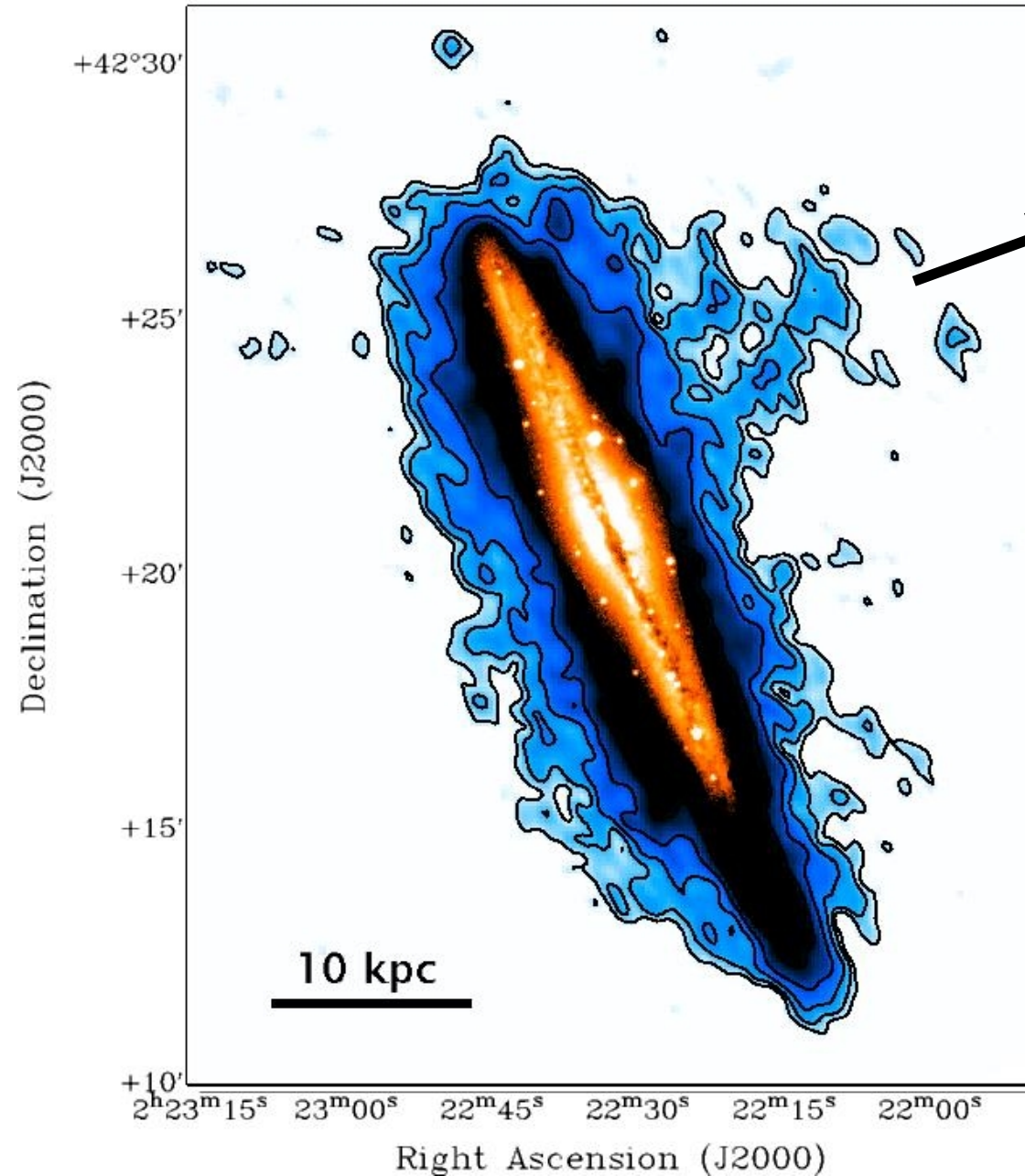


A Tale of Two Surveys: Disk-Halo Interaction in Nearby Spiral Galaxies



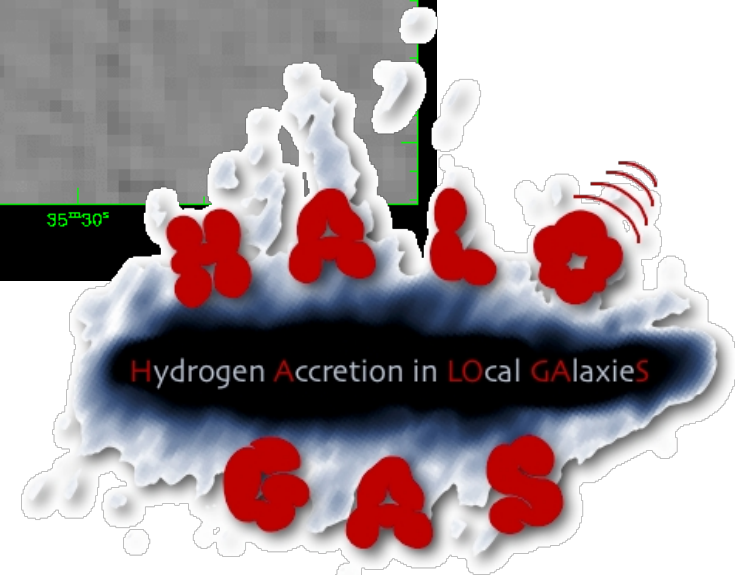
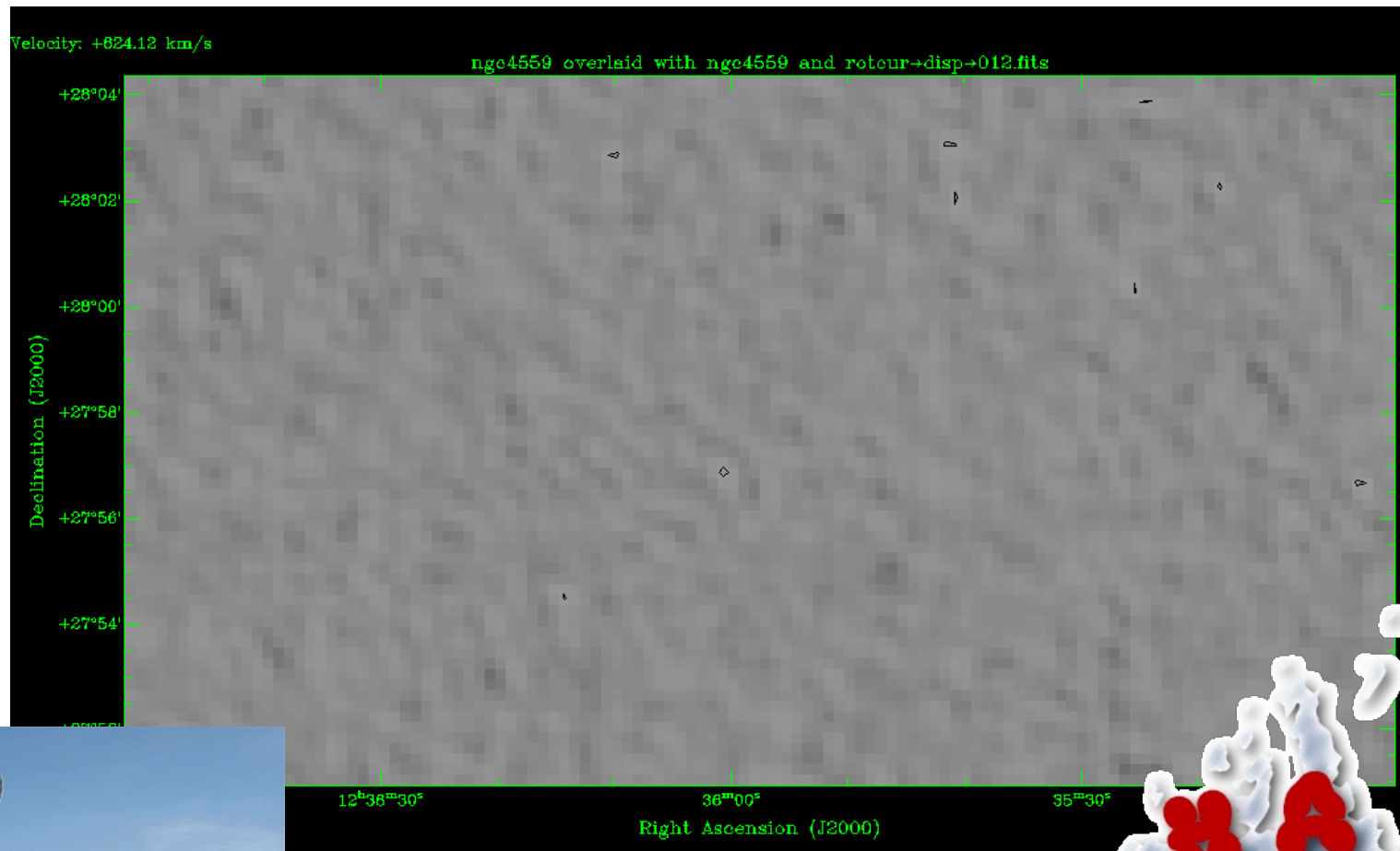
Carlos J. Vargas
June 8, 2016

What's the Point????

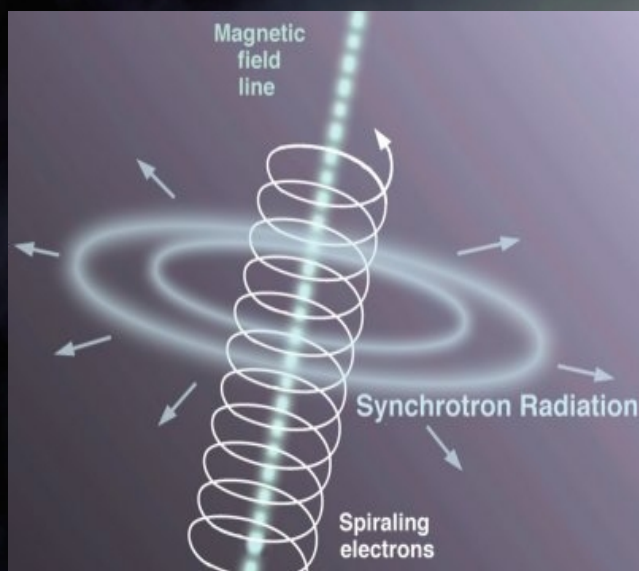


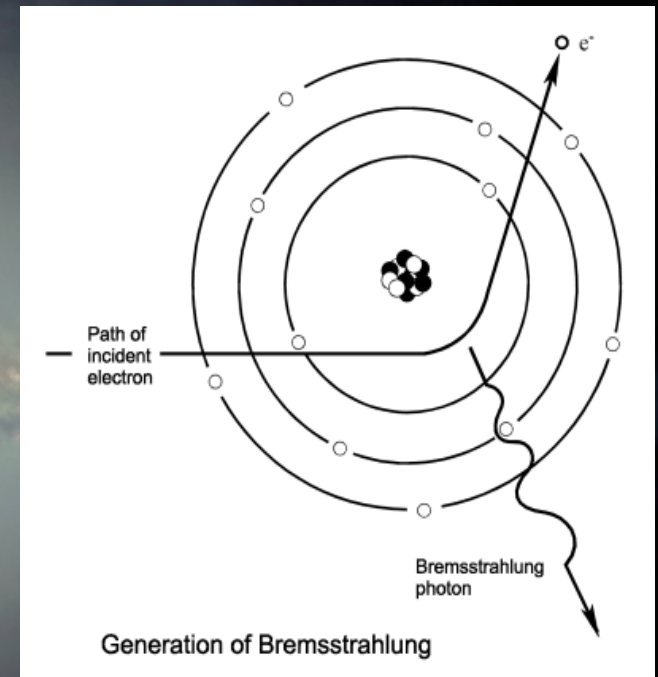
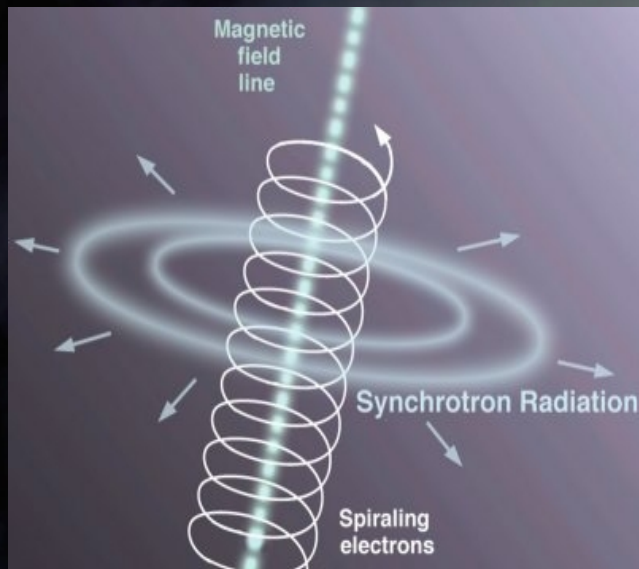
What is this stuff, how did it get there, **what is supporting it**, and will it form more stars later?

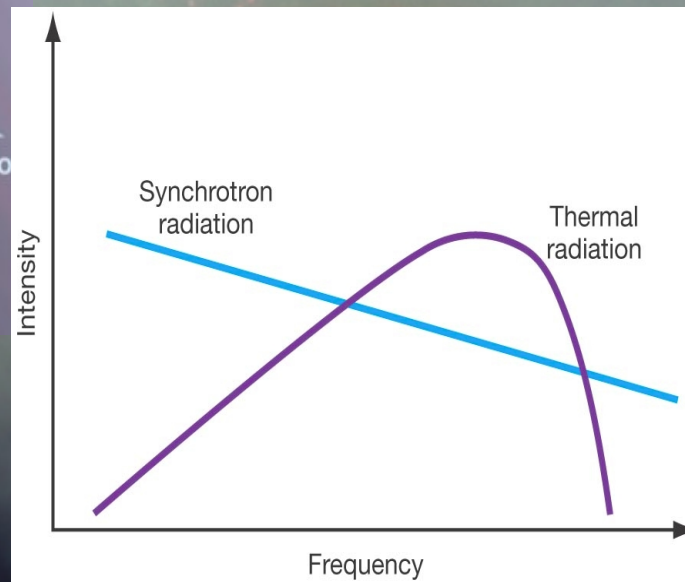
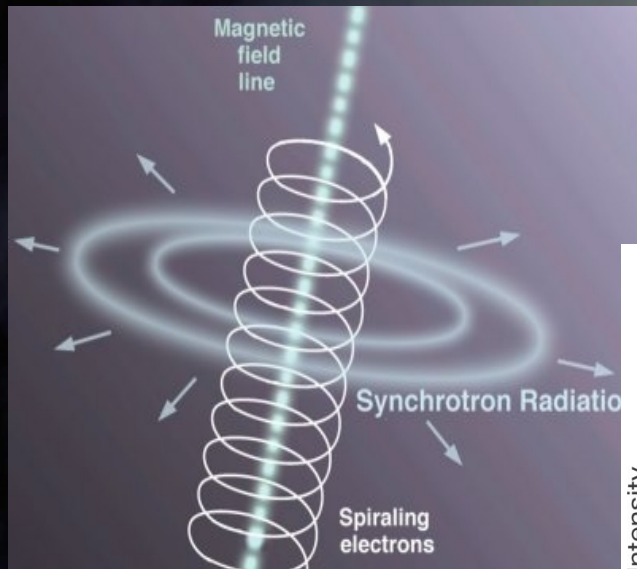
Plentiful Neutral Hydrogen NGC 4559





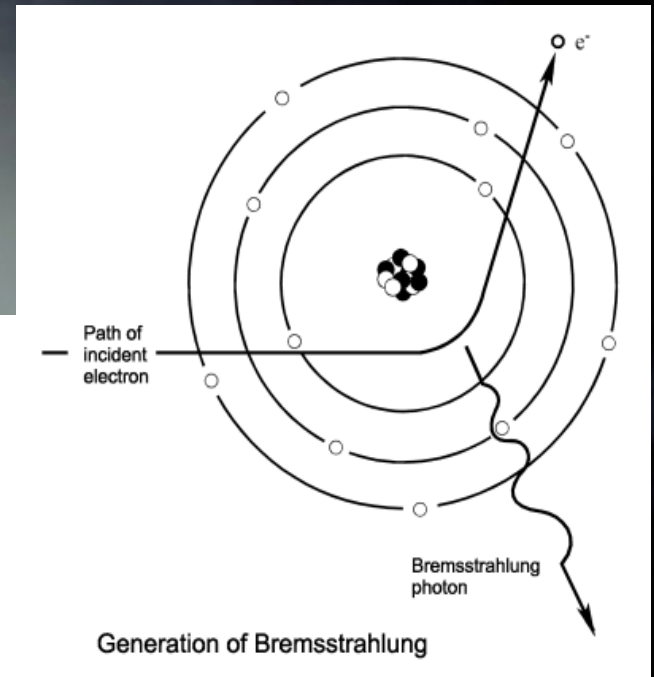




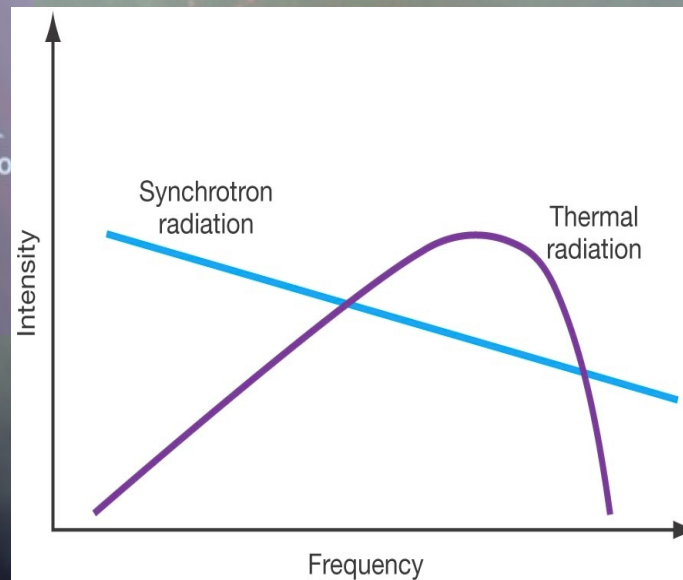


(b)

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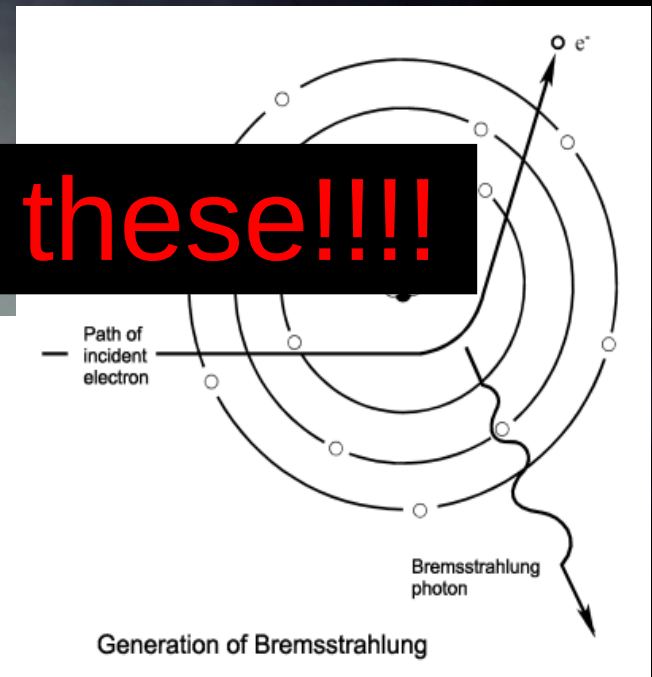


We need to separate these!!!!

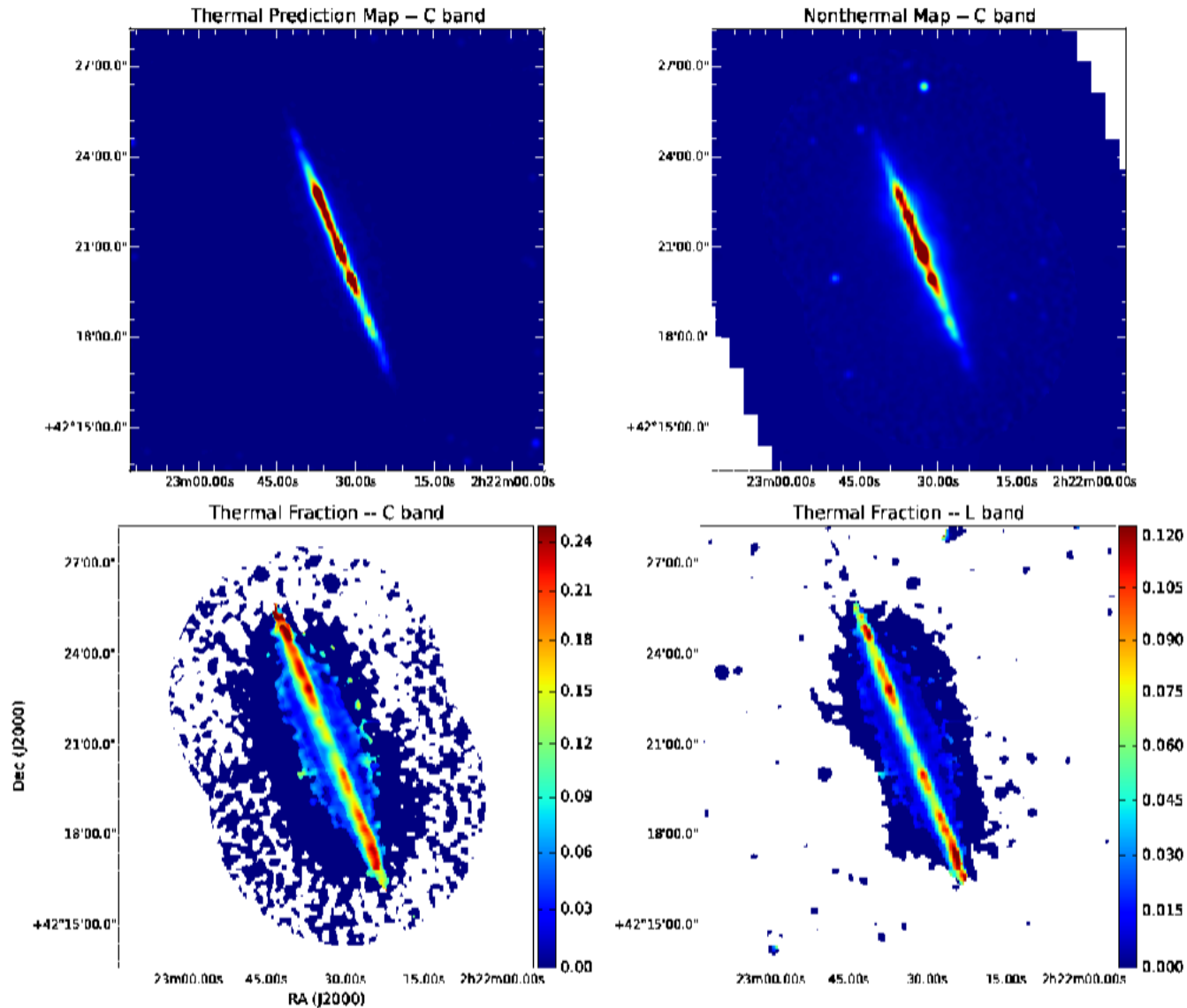


(b)

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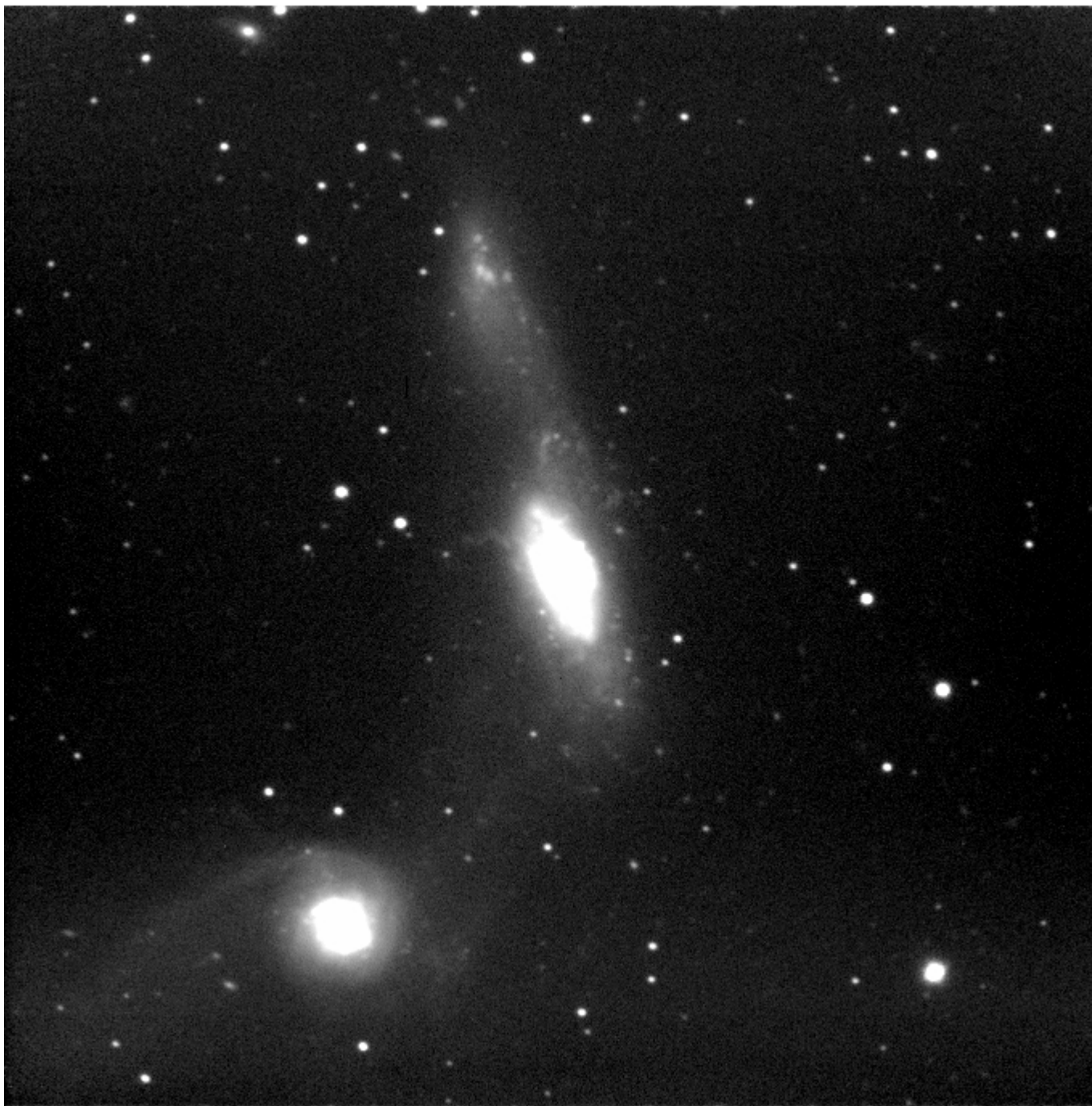


H α – Thermal Prediction



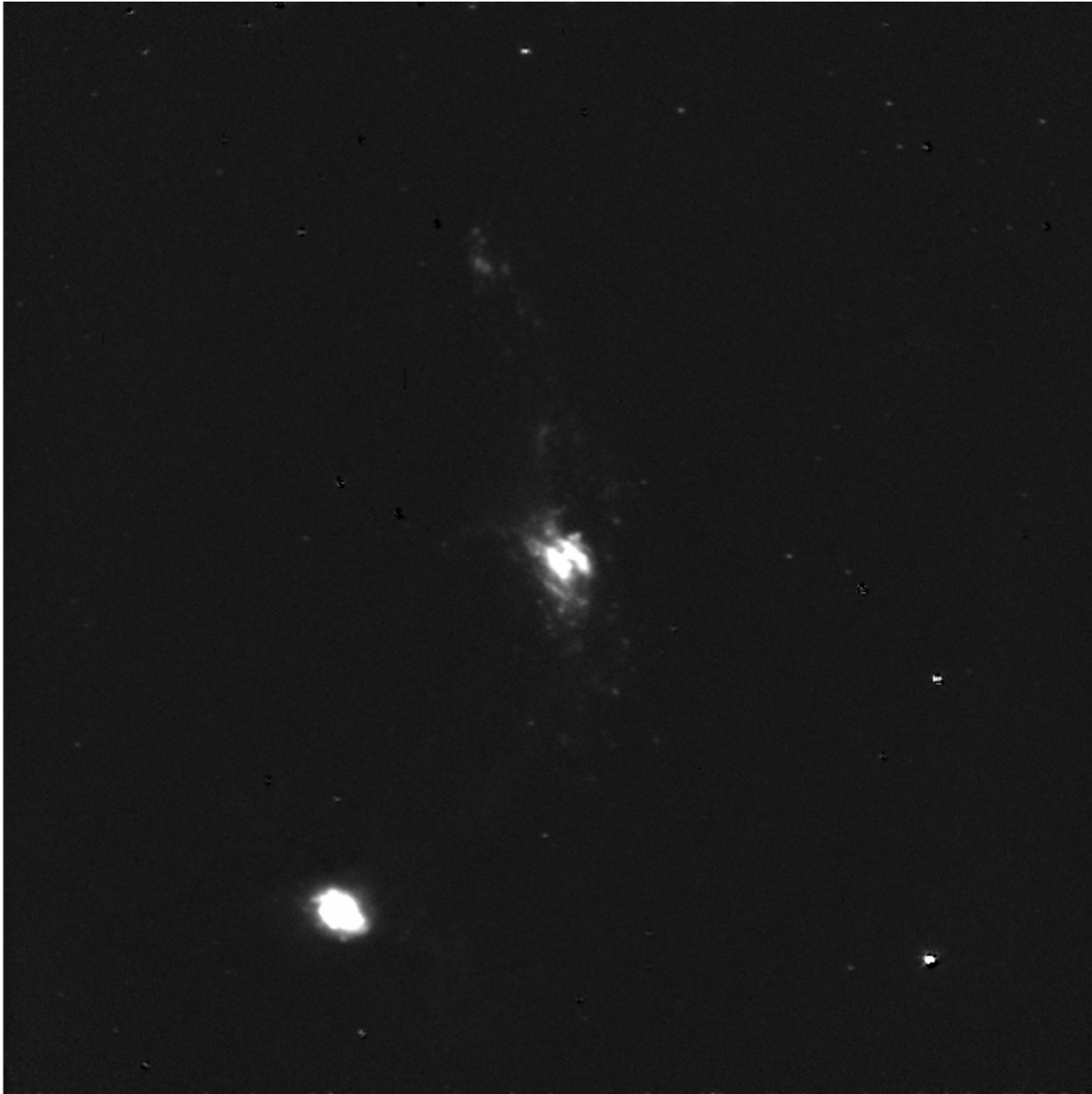
Empirical relations brought to you by:
Kennicutt+, Tabatabei+, Murphy+

My
Images!



NGC
2992

H α +R



Continuum
Subtracted
H α

What do I do again???

- 3D modeling of neutral hydrogen in nearby galaxies
- Prediction of thermal component in CHANG-ES galaxies
- $H\alpha$ observations of 27 edge-on galaxies for CHANG-ES at APO

