

赤外線放射スペクトルで探る大質量星形成に伴う メタノールメーザ出現時期の研究

-- Emission condition of 6.7GHz methanol maser --

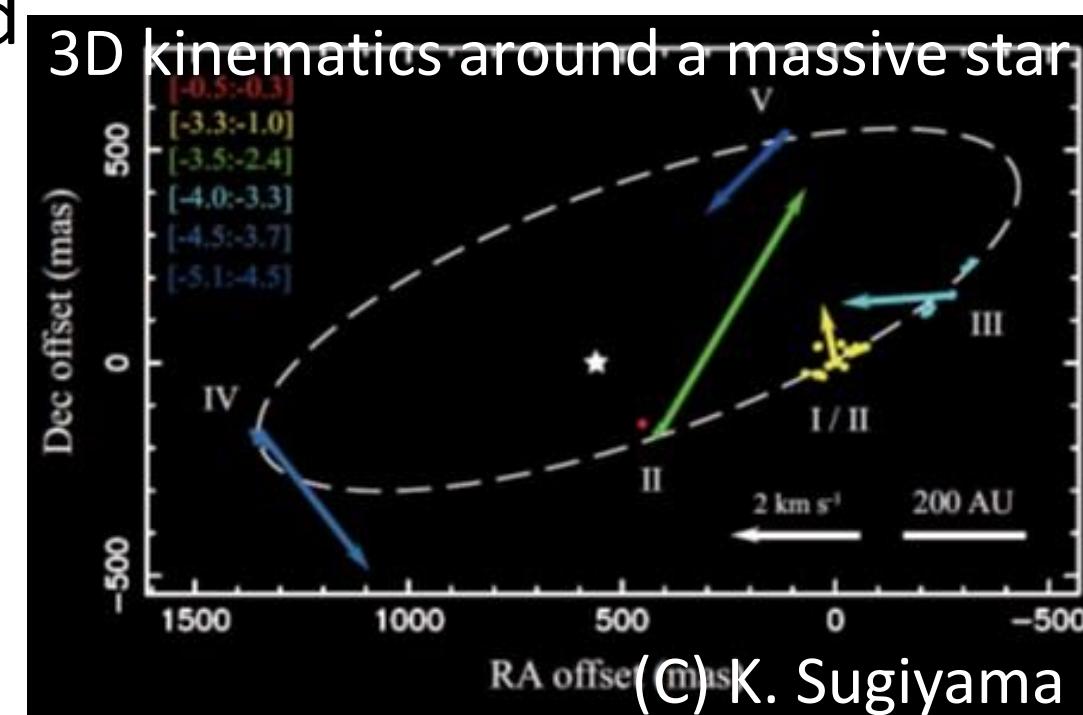
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- Formation process of massive stars: Unclear!

⇒ 6.7GHz methanol maser (①associated with massive star forming region only):
powerful tool !

- ②Reachable deep in molecular cloud
- ③3D kinematics (Doppler shift + Proper motion) available

But! In which condition ? When?

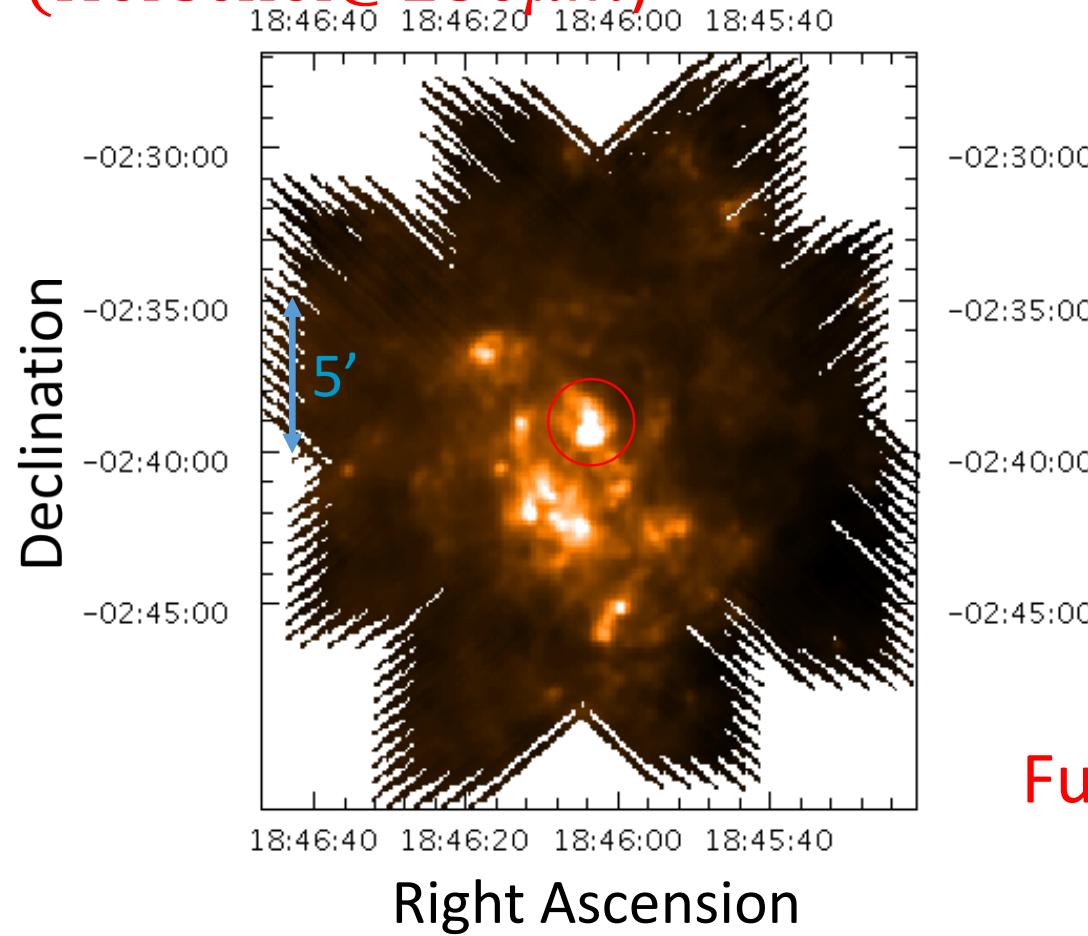


Method & Results

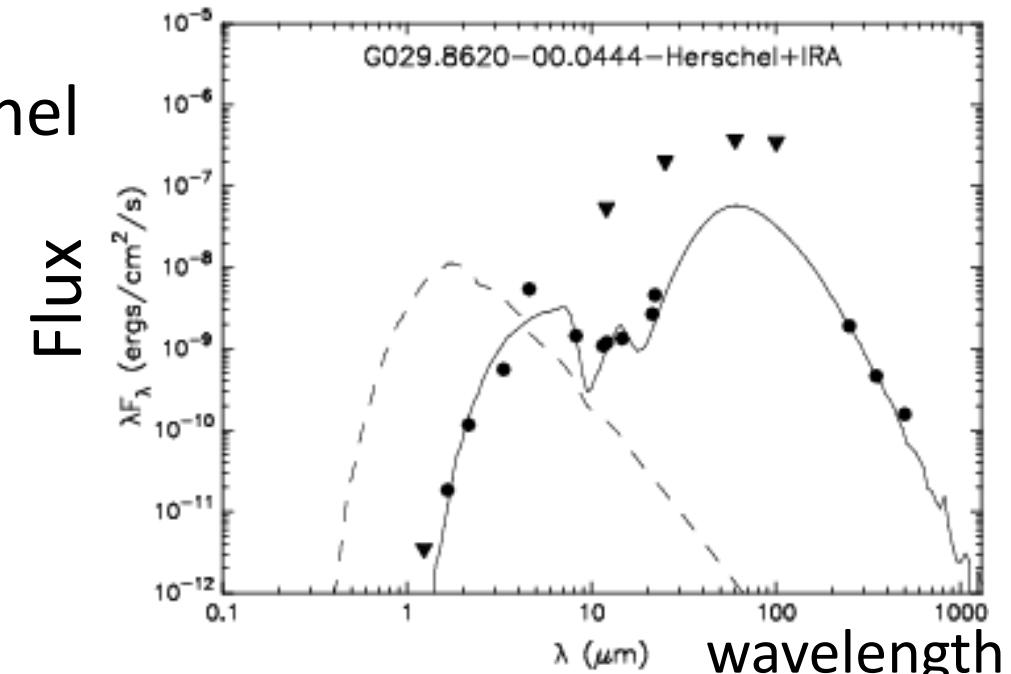
- Collect: IR catalog data
- Analysis: pipeline-processed data for Herschel

Example

(Herschel@250 μ m)



SED fitting: SED fitting web-tool 2/2
(Robitaille, 2006)



Age of star, Mass of star, Bolometric luminosity...etc

Future work

Detection object vs non-detection object