

**SAS Honors Seminar 259:
Extraterrestrial Life**

12/8/2008

GBT remote observing tonight

When: 7:00pm - midnight

Where: Serin Lab 309W

(Busch campus)

Who: Baker + Sharon + ???

How: Call me in my office

(732-445-2544) after

7:00pm, and I'll let you

in through the door at

the west end of the building

(across the street from ARC).

Try 732-445-5881 as well.



Term papers: topics

Green lighted

J. Churgin – The Search for Earth-Mass Extrasolar Planets

C. Grillo – The Cambrian Explosion

S. Ilyas – Terraforming Mars

S. Mitchell – Extremophiles in Ice

K. Rafferty – The Drake Equation

N. Ramay – The (Possible) Origin of Life on Mars

J. Remsen – Creating Life in a Lab: Is It Possible, and

What Are the Implications?

<http://www.physics.rutgers.edu/~ajbaker/honors259/termtopics.html>

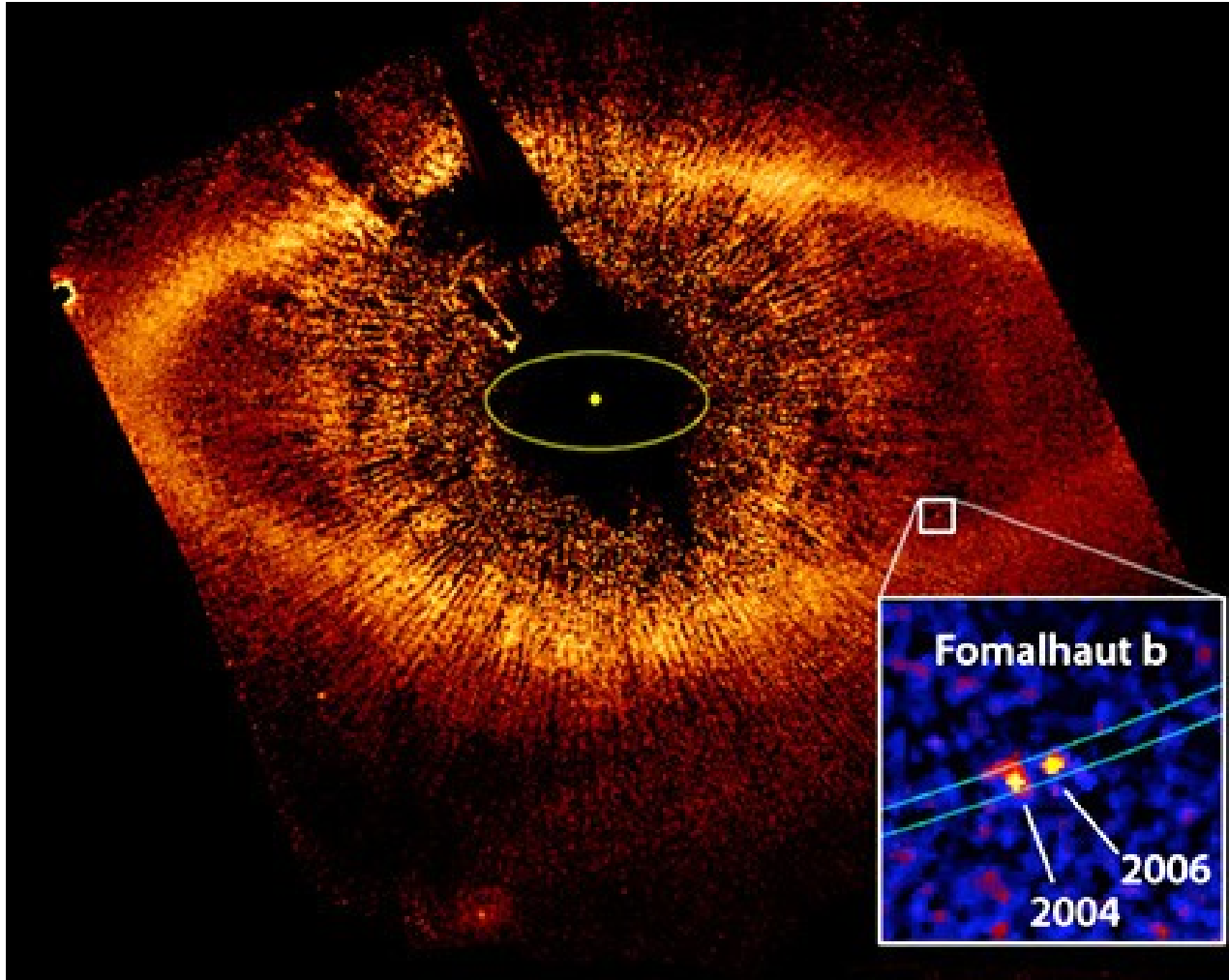
Discussion Wednesday (12/10)

Organize yourselves into at least three groups (every group should have at least three people).

Each group should discuss (in person or by email) the various terms in the **original form of the Drake Equation, and agree on consensus **most likely values** and **appropriate uncertainties**. **Do this before class.****

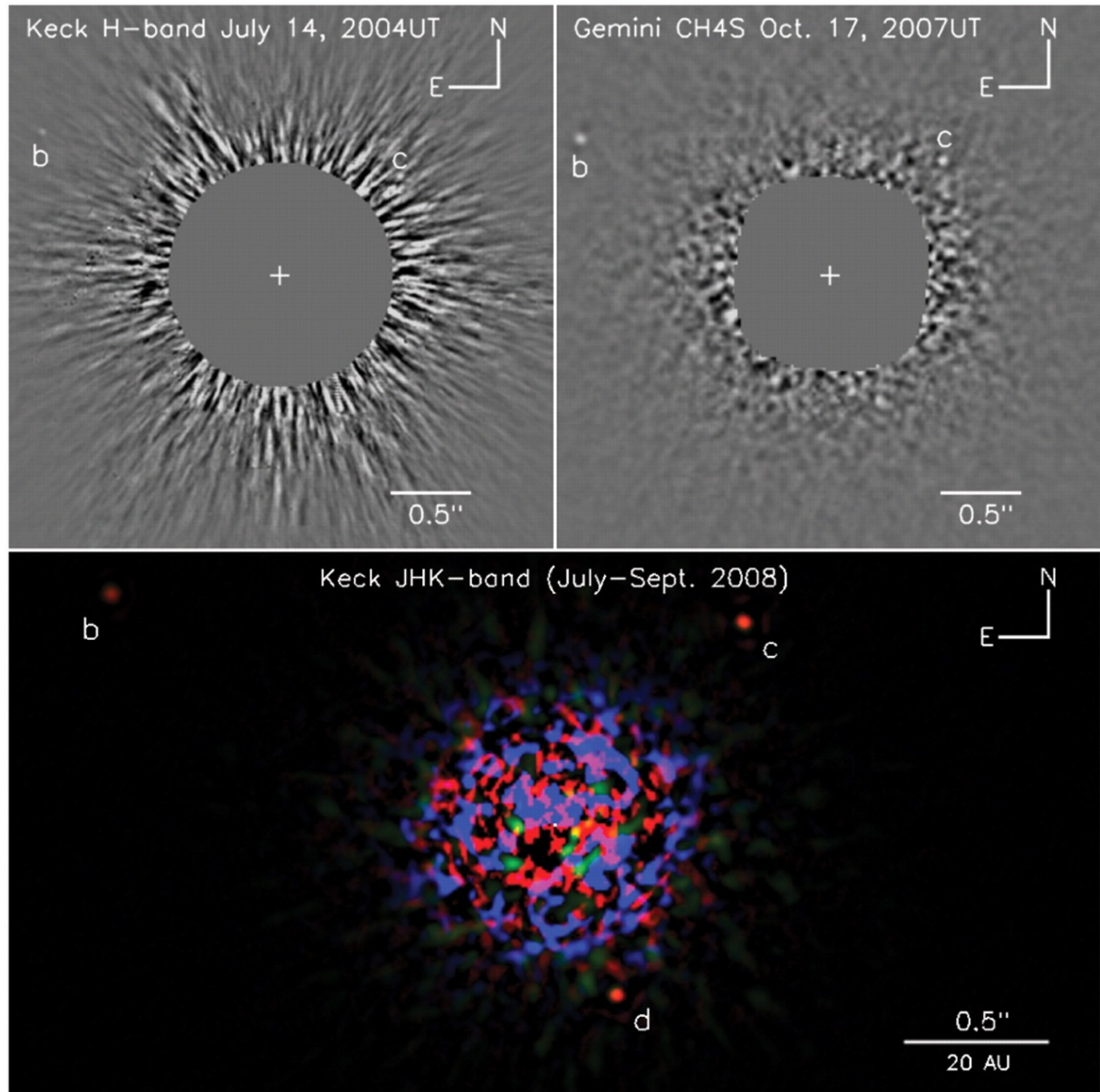
Different groups should not compare answers in advance!

Fomalhaut b: detection images



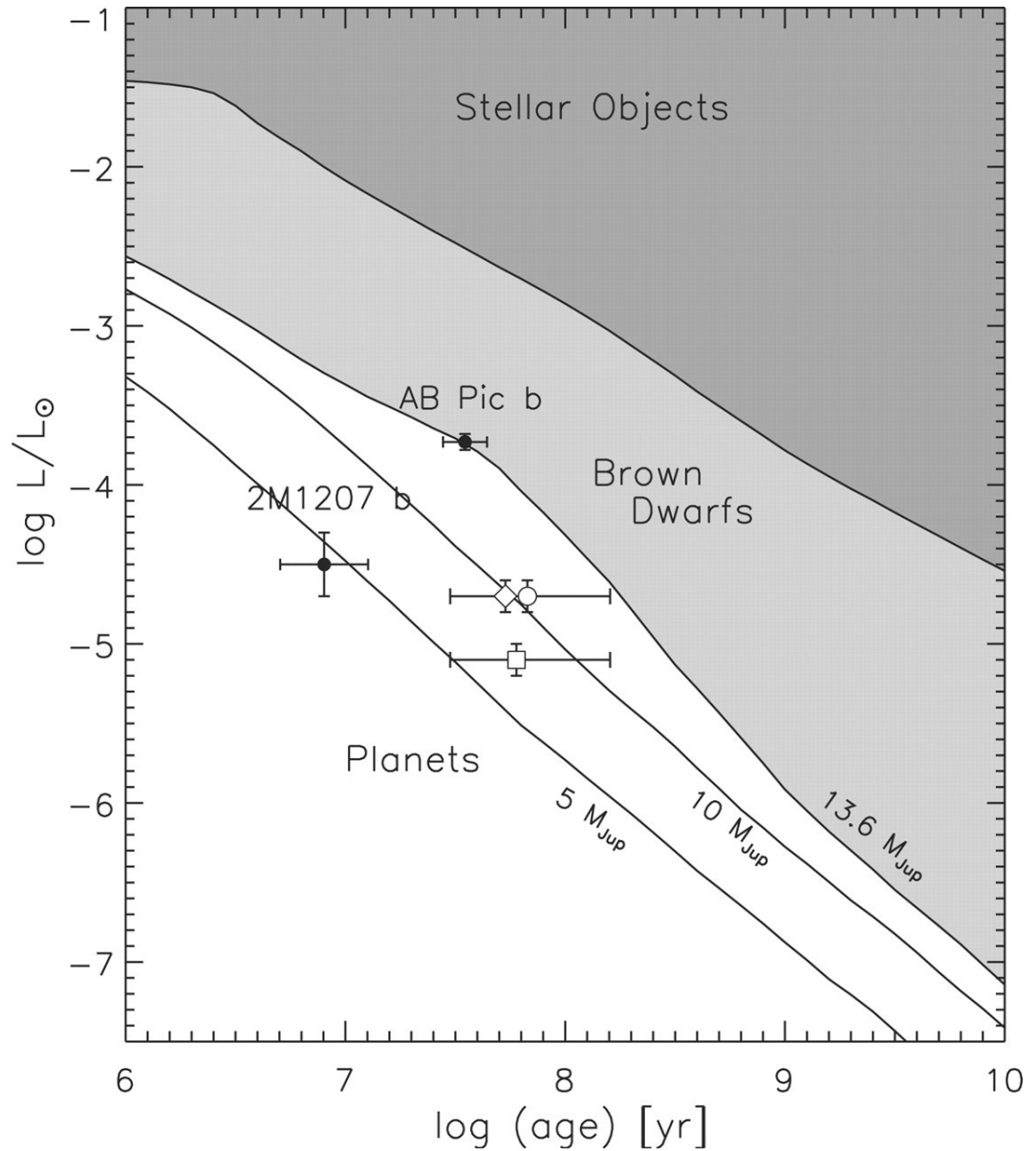
Kalas et al. (2008)

HR8799 b, c, & d: detection images



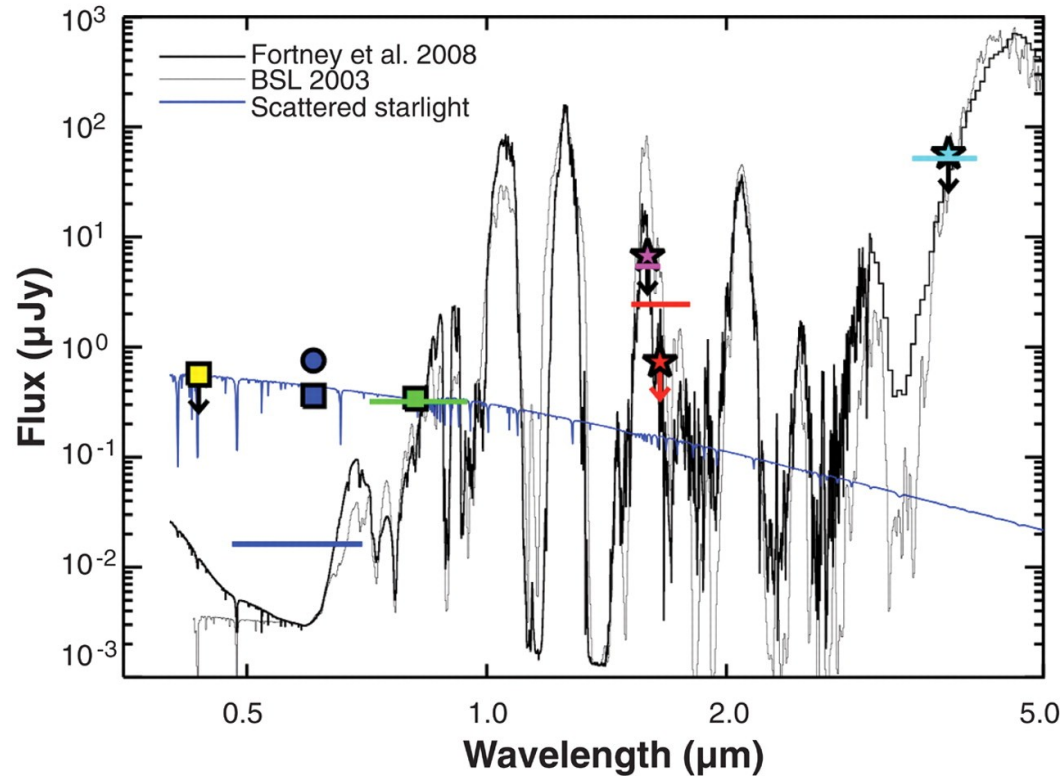
Marois et al. (2008)

HR8799 b, c, & d: cooling tracks



Marois et al. (2008)

Comparisons with model spectra



Kalas et al. (2008)

Marois et al. (2008)

