Questions and Answers

The Formation of Stars and Planetary Systems, 2010, September 6-9, Särö, Sweden

Section & Talk by Amaya Moro-Martín

Name/Question Alexander Krivov

(comment) Regarding the question of how common the Kuiper belts could be... Unfortunately, exact KB analogs around other stars would be out of the Herschel discovery space. The reason is that the KB radius is 40-50 AU and its dust emission would peak at ~70 μm, where stellar photospheres are too bright. We could easily detect disks as tenuous as the KB if they are ~100 AU in size (and ~~we~~ in fact we are detecting them with Herschel/DUNES). But these are not exact KB analogs, because they are larger.

Name/Answer

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Name/Question Karl Stapelfeldt

Observers have imaged exoplanets inside the disk inner holes of 3 debris systems. All models for the early solar system show a disk surface density that increases nearer to the star. Doesn't this require that all debris disks with inner holes host an interior planet, since there should have been more planetesimals and faster planet formation timescales there?

Name/Answer

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Name/Question: Bruno Merin

You predict the presence of dust spikes at certain resonant orbits in debris disks with planets, is there a prediction of which contrast is needed in the PACS images in order to be able to detect them?

Answer: We usually go the other way around: if there is a warm or an asymmetry we try to fit it with some models.

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Section & Talk by ..... Moro-Martin .....

Name/Question ..... Ewine van Dishoeck .....

Question to you or Brenda: how many of the (new) debris disks are bright enough to image with (the full) ALMA in reasonable time (< 24 hr)?

Name/Answer ..... Mark Wyatt .....

I did some simulations comparing the detectability of debris disks with ALMA, Herschel and SCUBA2 for an ALMA simulations workshop in Grenoble. The resulting plots are available on the web, and show that ALMA should be able to image the majority of the disks detected by Herschel.