Questions and Answers

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

Section & Talk by Session 3 I. Pascucci

Name/Question W. Benz

What about the scaling of the disk mass as a function of central star mass?

Name/Answer I. Pascucci

There is some evidence that the dust disk mass scales with the star disk mass. The scaling could be steeper than we thought: recent Scuba 2 observations we have on brown dwarf disks suggest $M_{disk\,(dust)}/M_{star/bd} << 0.01$ (Mohanty et al. in prep.)

Unfortunately, we still don't know how the gas disk mass scales with the stellar mass.

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Section & Talk by I. Pascucci

Name/Question E. v. Dishoeck

Very nice talk. Just one comment on the CO v=1-0 4.6 μm line as a tracer of the inner few AU of disks. Together with Klaus Pontoppidan, Joanna Brown ~~and~~, Jeanette Bast and others we are finishing a big VLT-CRIRES ~~program to~~ survey of CO v=1-0 in a sample of ~70 T Tau disks. One of the surprising outcomes is that pure keplerian line profiles are not (at all) common at 3 km/s resolution, pointing to more complex gas dynamics in the inner few AU (Bast et al., subm.; Brown et al. in prep).

Name/Answer

The same holds for other molecules such as HCN, OH observed with CRIRES.

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Section & Talk by I. PASCUCCI

Name/Question A. CARMONA

→ Starting at what ages do you think we can get constraints on the disk gas masses?

Name/Answer I. Pascucci

That's a good question. I am not sure at what ages we can constrain the gas disk mass. With Spitzer we could set stringent upper limits for optically thin (debris) disks, we hope that with Herschel we will be able to constrain the mass at least in the transition phase between primordial and debris disks.