



DUNES

# DUNES modeling workshop agenda

**Dates: July 14 - July 16, 2008**

**Location: Jena, Germany**

The DUNES modeling workshop aims at getting together the debris disk modelers of the DUNES team to discuss modeling strategy and tools in anticipation of the Herschel data. The workshop is organized scientifically by the DUNES modeling subgroup and locally by the Astrophysical Institute of the Jena University. Participation in the meeting is restricted to members and associates of the DUNES consortium.

**Expected Attendees:**

Carlos Eiroa, Torsten Löhne, Jonathan Marshall, Alexander Krivov, Sebastian Wolf, Harald Mutschke, Bill Danchi, Olivier Absil, Jens Rodmann, Malcolm Fridlund, Martin Reidemeister, Sebastian Müller, Remy Reche, Jean-Charles Augereau

## Monday

Time	Event	Presenter
09:00 - 09:10	Welcome, objectives of the workshop, logistics	Alex
09:10 - 09:15	Self-introduction of the participants	all
09:15 - 10:00	Overview of the DUNES Herschel program: <ul style="list-style-type: none"> <li>• targets properties</li> <li>• main scientific objectives</li> <li>• data that we will have in hand (Herschel, but also Spitzer, AKARI, (sub-)millimeter APEX SCUBA2, optical, near-IR/mid-IR interferometry, ...)</li> </ul>	Jens / Carlos
10:00 - 10:15	Brief summary of the Madrid workshop	Carlos
	<b>Coffee break (30 mn)</b>	
10:45 - 11:30	Original exploitation plan at the time of proposal submission + Overview of the available modeling tools within the team, especially those from the DUNERs not present at the meeting	JC + Alex
11:30 - 12:15	Defining the benchmark test	all (lead by JC)
	<b>Lunch</b>	



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Time	Event	Presenter
14:00 - 15:30	Radiative Transfer (RT) models: <ul style="list-style-type: none"> <li>• DDS debris-disk model</li> <li>• DSF debris disk SED fitting tool</li> <li>• SEDUCE (SED Utility for Circumstellar Environments)</li> <li>• Grenoble's RT model</li> <li>• Others (e.g. Karl)</li> </ul>	<ul style="list-style-type: none"> <li>• Sebastian W.</li> <li>• Jens</li> <li>• Sebastian M.</li> <li>• JC</li> <li>• JC</li> </ul>
<b>Coffee break (30 mn)</b>		
16:00 - 16:30	Collision models : ACE (Analysis of Collisional Evolution) & Philippe Thébault's code	Torsten
16:30 - 17:00	N-body codes: <ul style="list-style-type: none"> <li>• DISCO (Direct Integration of Single Circumstellar Orbits)</li> <li>• Grenoble symplectic N-body code</li> <li>• Hermite integrator</li> </ul>	<ul style="list-style-type: none"> <li>• Martin</li> <li>• Remy</li> <li>• Jens</li> </ul>
17:00 - 17:30	Color grid	Alex
	Time to start benchmarking	

**Workshop dinner, Restaurant "Zur Noll"**

## Tuesday

Time	Event	Presenter
09:00 - 09:30	"Lessons Learned" from the FEPS modeling	Sebastian W./Jens
09:30 - 10:00	Communication between the modelers: mailing lists, wiki, other...	all
<b>Coffee break (30 mn)</b>		
10:30 - 12:00	Points that need to be discussed: <ul style="list-style-type: none"> <li>• stellar properties: how precise do we need to be on the Teff and log(g)?</li> <li>• optical properties, shall we adopt a standard composition? Discussion lead: Harald</li> <li>• missing observations?</li> <li>• missing models?</li> <li>• modeling strategy?</li> </ul>	all
<b>Lunch</b>		
14:00 - 16:00	Benchmarking	
	<i>Coffee break (30 mn)</i>	
16:30 - 18:00	Preliminary results from the benchmark test ; paper(s) planned	all
18:00 - 19:30	Telecon	all

**Dinner or BBQ (depending on weather)**