

# Arena meeting

« Sub-mm/FIR Astronomy from Antarctica »

Brief conclusions and discussions

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**First : Thanks Vincent for the organisation  
of this conference**

**Many thanks also Delphine and Christine  
for the logistics aspects**

**For any projects, it is crucial to have  
a very strong scientific case**

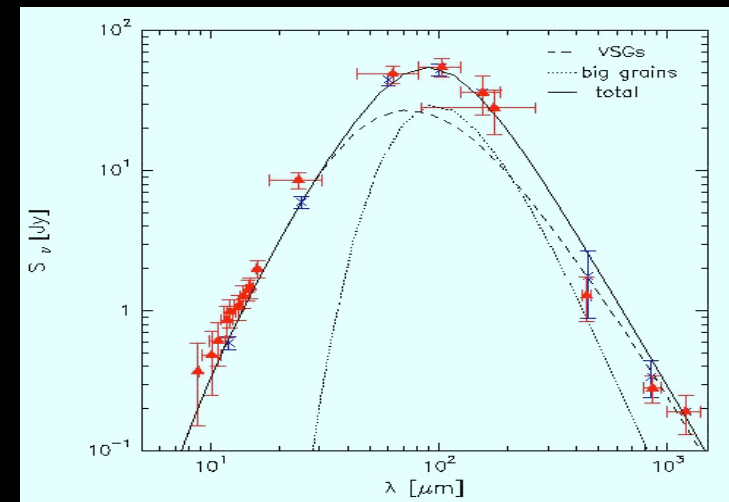
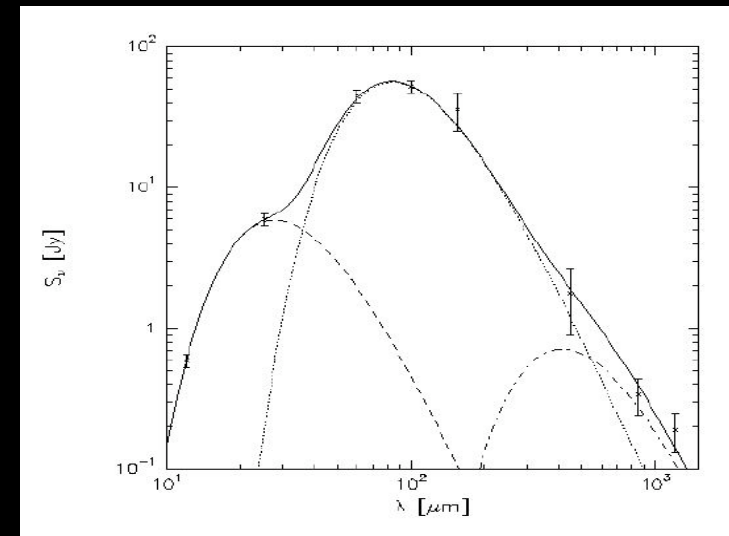
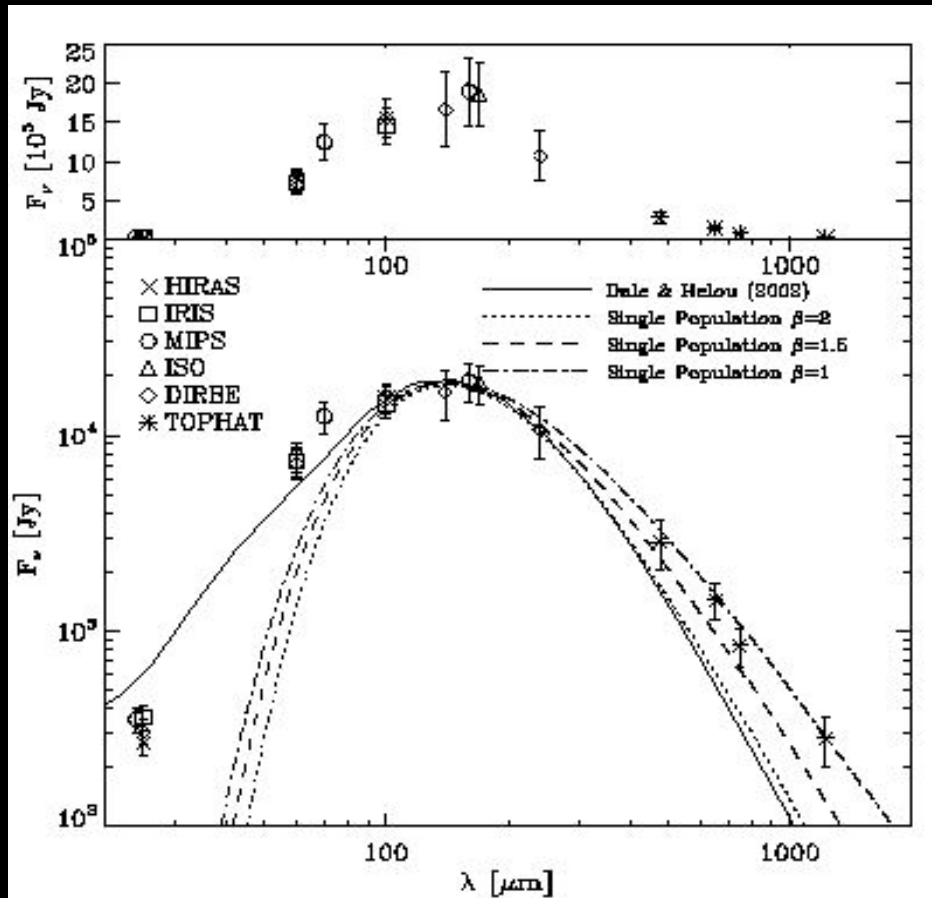
**Good progresses have been made at this meeting**

**But some more work is needed  
Especially in the next few months in the preparation  
of the Postdam conf**



F. Israel

# The Nature of the Submm Excess



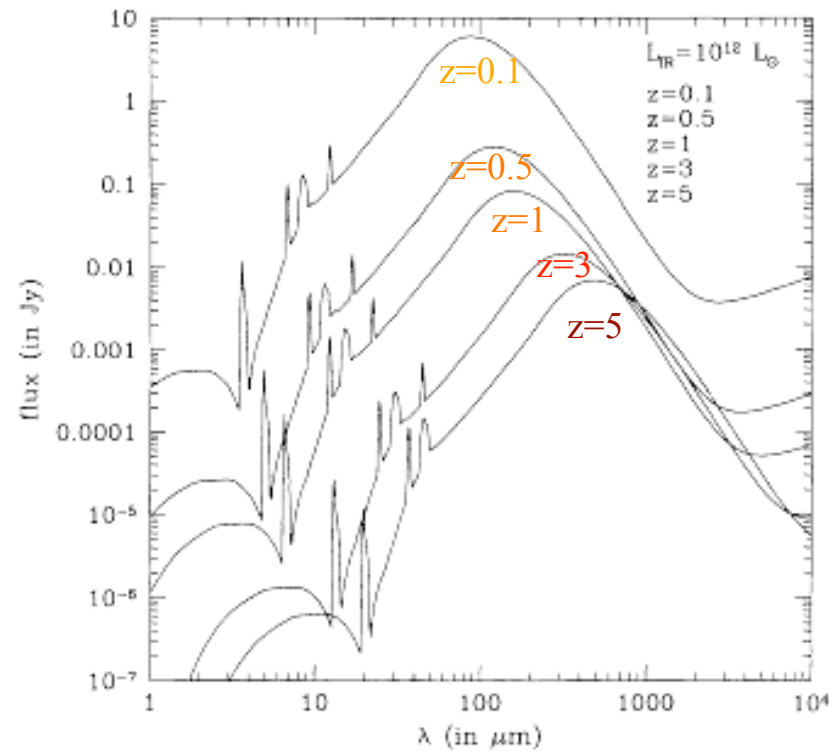
Leroy et al. (2007)  
Lisenfeld et al (2002)

# FIR/Submm Continuum in the Magellanic Clouds

	LMC	SMC	sensitivity	
Area	8	2	sq. deg	
200	256	64	days	55 MJy/sr
350	172	48	days	7.5 MJy/sr
450	256	64	days	0.9 MJy/sr
600	172	48	days	0.15 MJy/sr
Total	428	112	days	

**12 m télescope**

# Extragalactic



I

**SED Galaxies**



## Conclusions E. Daddi:

- A) Clear opportunity window for new science in galaxy formation and evolution exist for 200-450 $\mu$ m imaging at DomeC, crucial redshift range  $1 < z < 3$  (or thereabout)
- B) Possible to improve over Herschel+SPIRE in many respects, complementary to LMT and ALMA
- C) SCUBA2 450 $\mu$ m survey expensive to replicate with 12m telescope
- D) Herschel PACS is better than 200 $\mu$ m at DomeC for 12m telescope
- E) Grand-goal of mapping SF and obscured AGN growth to typical levels within reach of a 25m telescope (would be a truly major accomplishment)
- F) Science cases strong, will be hot field still in 5-10 years from now (ALMA, JWST, etc)

**We have also to think on a long term plan  
and find « cheap » path-finder**

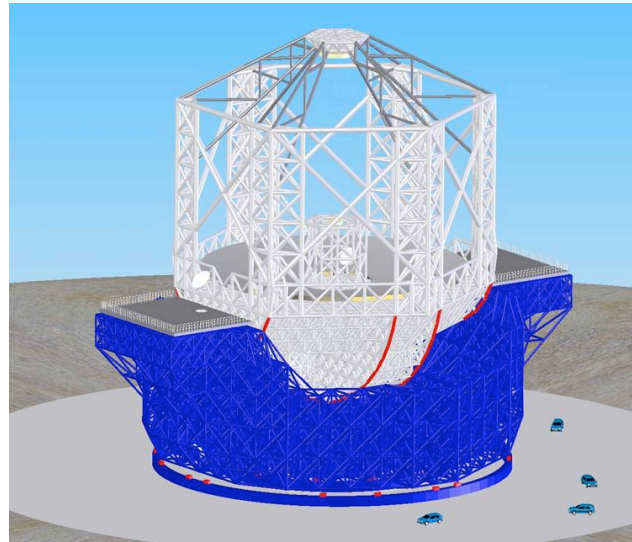
**Joining Pilot?**

# Indeed money not easy to find

European Astronomy ESO

Alma

ELT



**Not yet fully funded; Will pump funding from Europe**