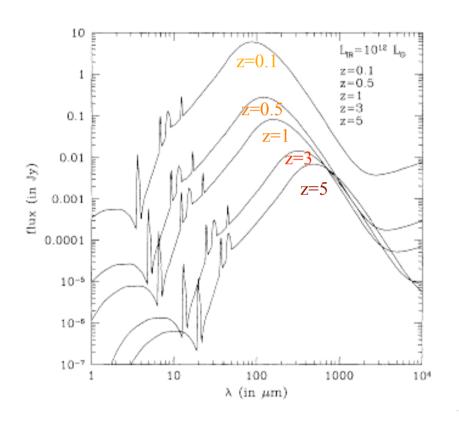
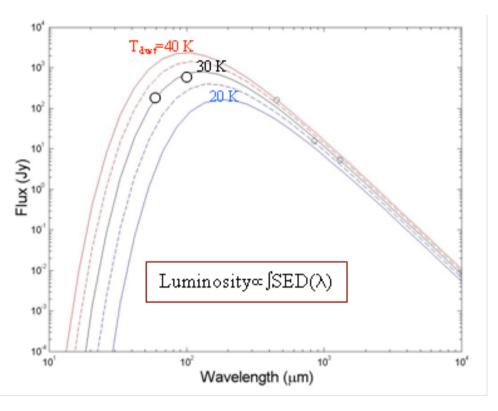


Far-IR radiation important



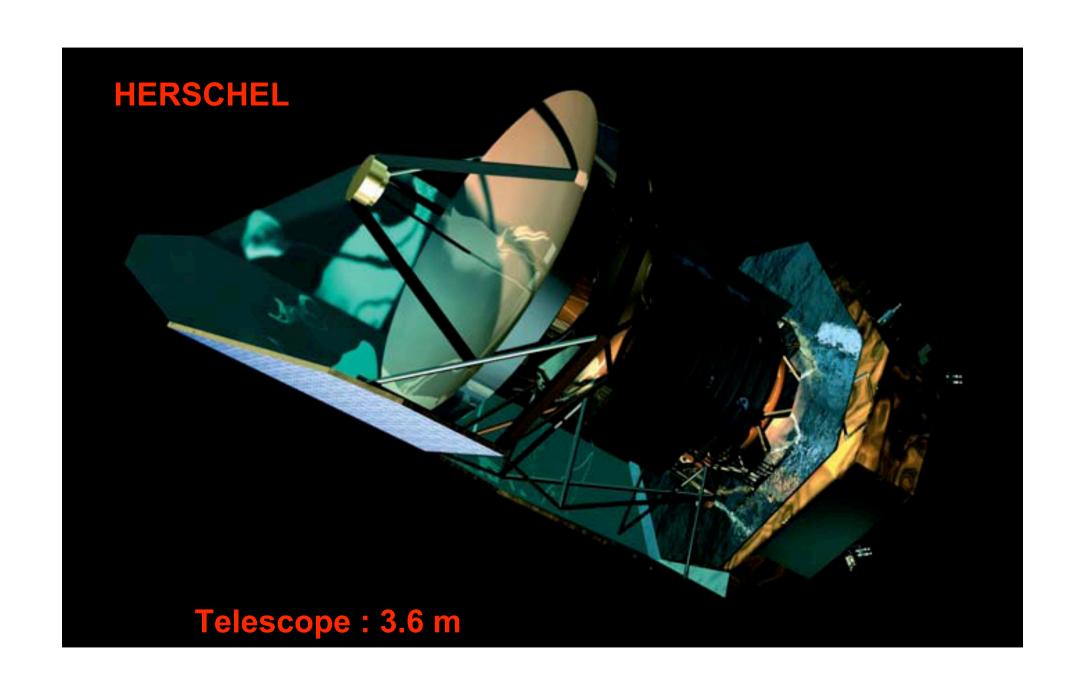


SED Galaxies

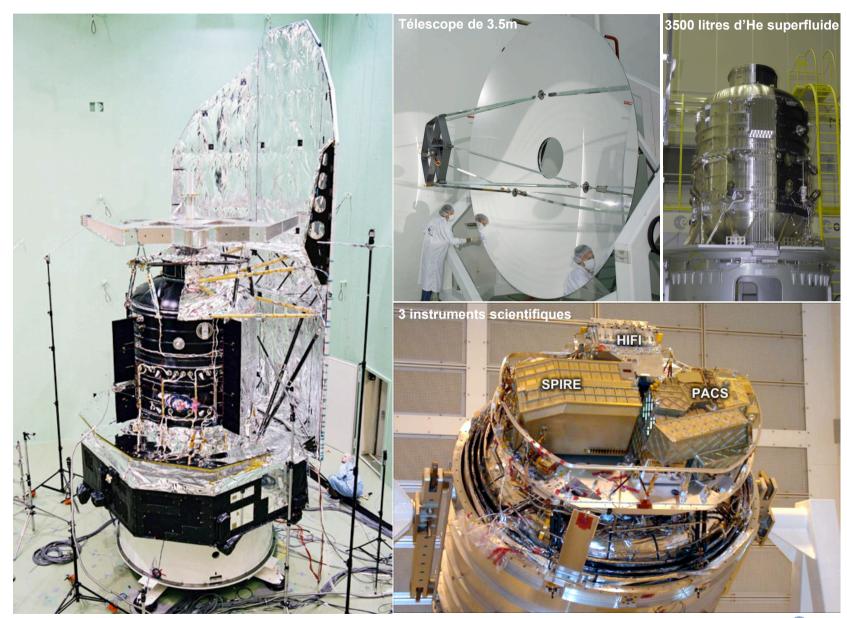
SED proto-star

But not yet well explored

Will change soon with



HSO QM et STM Herschel Space Observatory Qualification Model et Structural Thermal Model



Novel detector Technology developments powered by Astronomy

From mono-detectors

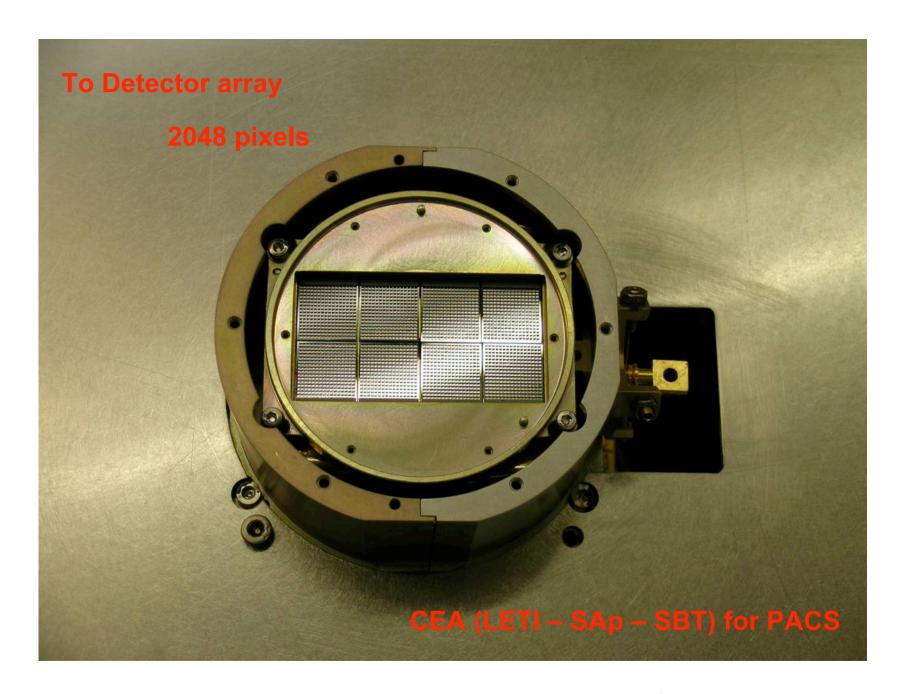




1996-2004



1997-2005



Large field possible

Need for angular resolution:

angular resolution (details on objects)

but also

sensitivity (Herschel sensitivity probably limited by confusion)

→ Large antenna

→ ground-based

But atmospheric transmission poor

Dry site needed

Antarctica promissing very dry



Such arguments were convincing enough to be embarked upon the ARENA.

NA5 Which Astrophysics at Dome C?

leader: Hans Zinnecker (Potsdam)

Identifies key astrophysical observational programmes to be carried out in Antarctica that complement those already in progress or planned in conventional ground based observatories or with space missions. A science steering committee will prepare and publish a rationale of the science programmes, instrumental recommendations to reach the scientific objectives and a timeline for instrumental development at Dome C in the context of space and other ground based programmes.

1	asks	Task leader	Title			
5	5.1	M. Busso/M. McCaughreran	Wide field imaging surveys in the thermal infrared			
	5.2	PO. Lagage	New windows in the far Infrared			
	5.3	H.Rauer	New domains for ground based high precision and long duration time-series photometry and spectroscopy	5.3.1	E.Fossat	Asteroseismology and Helioseismology
5				5.3.2	H.Deeg	Photometric search for extrasolar planets
				5.3.3	K.Strassmeier	Solar-stellar connection
5	5.4	F. Vakili	Obtaining the ultimate angular resolution			
	5.5	C. Abia	Spectroscopy and spectro-imagery			

Deliverable No	Deliverable title	Deliverable date	Nature	Task
D5.1	Proceedings of Conference 1	10	Proceedings	All tasks
D5.2	Proceedings of Conference 1	22	Proceedings	All tasks
D5.3	Proceedings of Conference 1	34	Proceedings	All tasks
D5.4	Executive summary of recommendations to the National and International Agencies (ESO-ESA) for an astrophisycal programme at Dome C	36	Book	All tasks

Here we are!

The results of this conference = inputs for

ARENA2 conference to be held in Potsdam on 17-21 September

Summary of this workshop at V. Minier