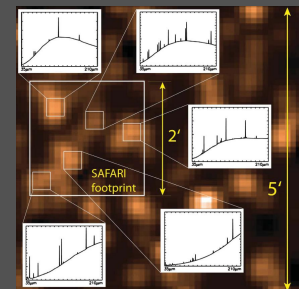
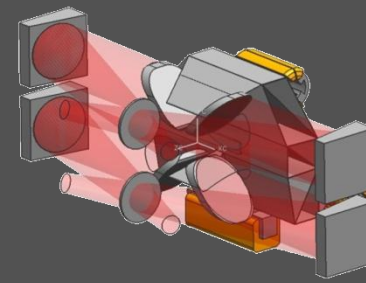
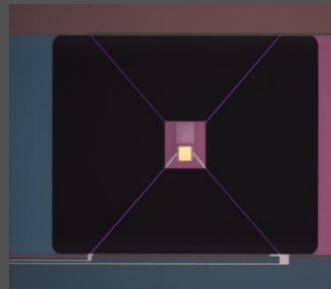
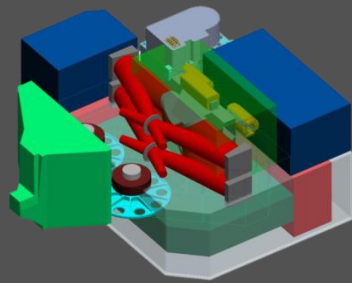
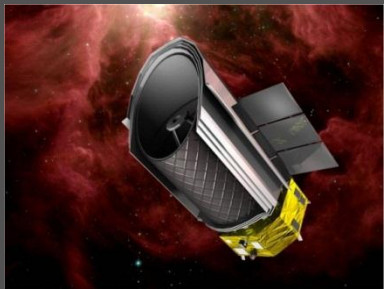
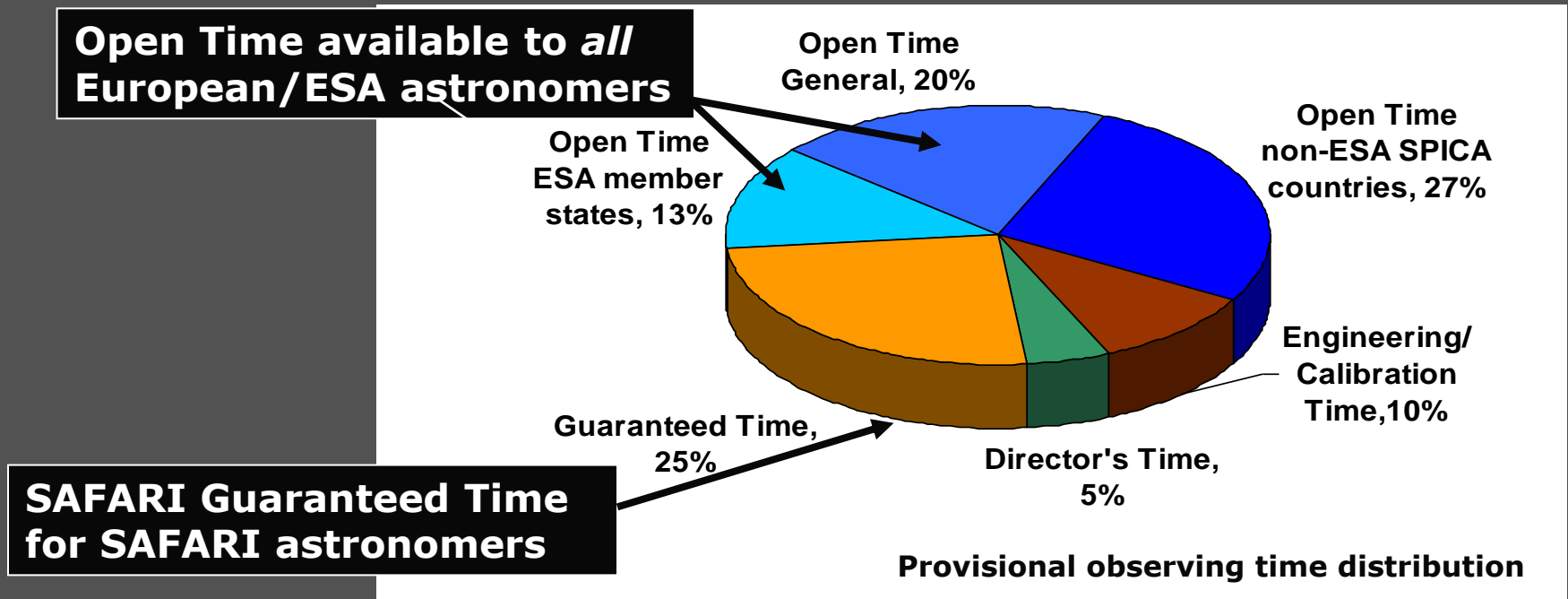


SAFARI science outlook



Science – SPICA is a world observatory

- SPICA is an *observatory* open to the astronomical community
- A single international Time Allocation Committee
- With SAFARI Europe/ESA has *direct access* to open and guaranteed time



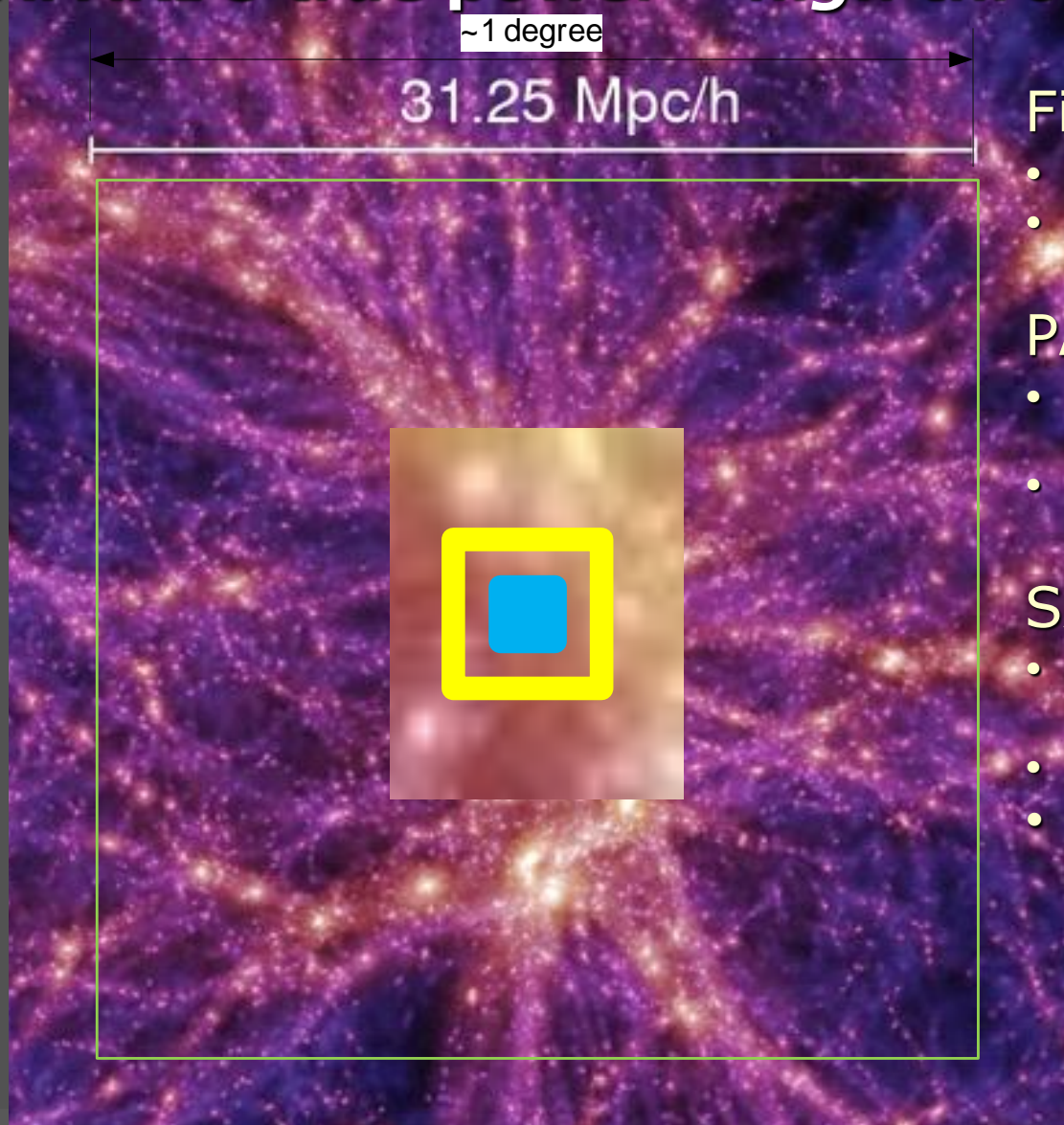
SAFARI science – organization, activities

- SAFARI science team
 - To be lead by Project Scientist (still to be appointed/hired)
 - Now becoming in charge of instrument science requirements
 - E.g. investigate implications of 'straw man observing program' for the instrument
 - Will later be responsible for defining and implementing the SAFARI science programme (guaranteed time)
 - Organization defined
 - Science Co-Is appointed, science associates to follow
 - Nr. of science Co-Is/associates commensurate with contribution to SAFARI

SAFARI science Co'Is

Netherlands	Paul van der Werf, Inga Kamp, Carsten Dominik, Frank Helmich
France	Christine Joblin, Sue Madden, TBD
Spain	Ismael Perez-Fournon, Jesus Martin-Pintado, Javier Goicoechea
Belgium	Maarten Baes, Leen Decin
Italy	Luigi Spiniglio, Carlotta Gruppioni
Switzerland	Mike Meyer, Marc Audard
Canada	David Naylor
Austria	Franz Kerschbaum
Germany	Eckhard Sturm
UK	Dimitra Rigopoulou

SAFARI's true power – *high throughput mapping*



Field of view:

- SAFARI: yellow box
- PACS: blue box

PACS

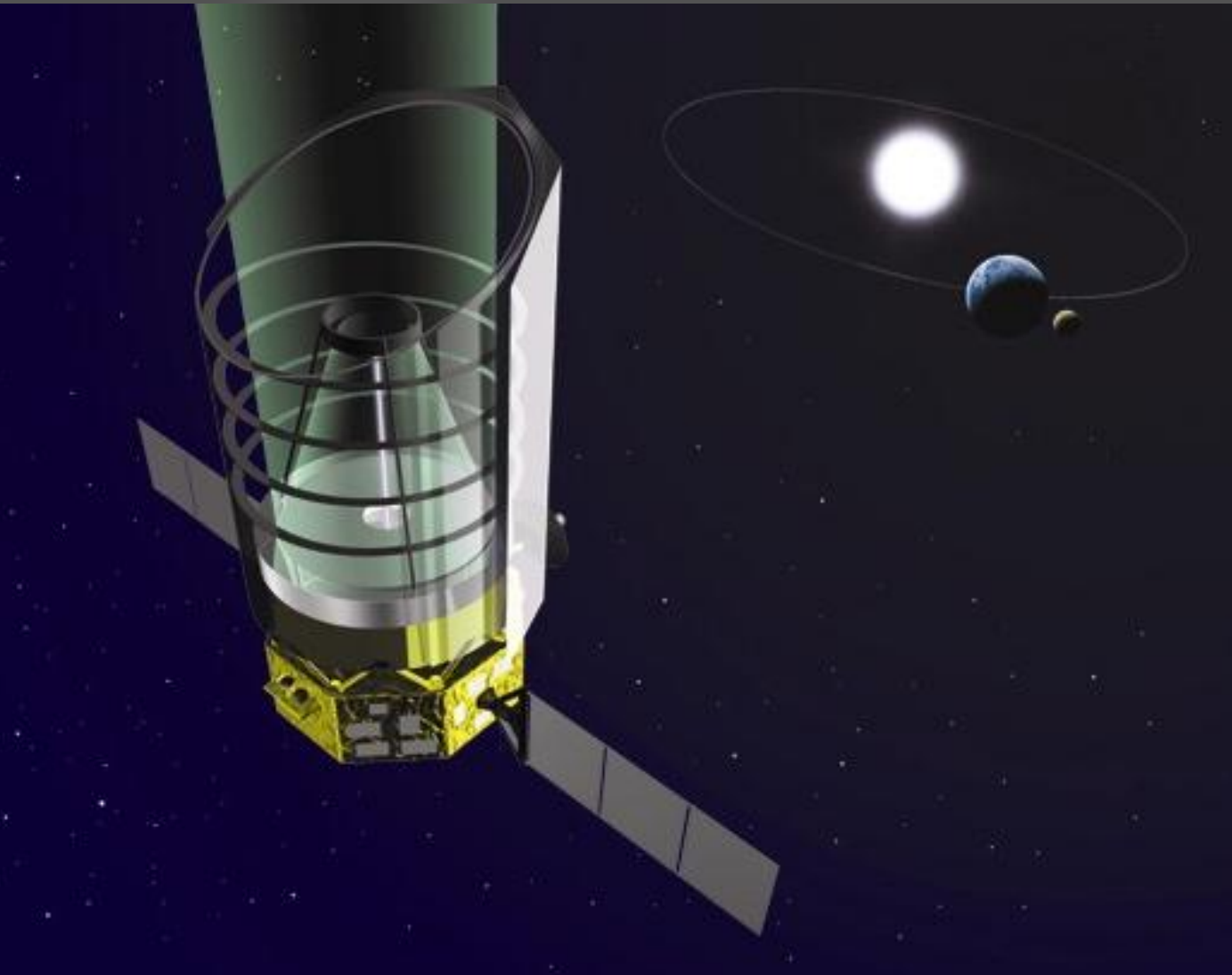
- 5×10^{-19} W/m² (5σ) for **one single pointing**: ~ 1800 hrs
- 60-210 μm

SAFARI

- **900 hours for $1^\circ \times 1^\circ$ field** gives the same sensitivity
- 34-210 μm spectra
- Models typically predict **~ 4000 objects detected in at least 4 lines**

... a 1000-fold increase in throughput!





- cnes
De l'espace pour la Terre
- esa
- JAXA
- airap
- cea
- UCL
- MPE
- INTA
- TLC
- PTB
- CARDIFF UNIVERSITY
PRIFYSGOL CAERDYDD
- University of Lethbridge
- SSL
- UNIVERSITY OF CAMBRIDGE
- ifsi
- institut für astronomie
- ENTECHNA ENGINEERING
- RuG
- ANNEX

SPICA and SAFARI ...exploring the universe!

