



RTC4AO^{6th}

06. – 08. November 2023, ESO

Welcome!

Suzanne Ramsay (ESO)

ELT Instrumentation Project Manager



<https://www.eso.org/sci/meetings/2023/RTC4AO-6th.html>



RTC4AO^{6th}, 06/11/2023

Planets & Stars



How do planetary systems form?
How common are systems like ours?
What atmospheres do planets have?
Are there other Earths?
Can we detect signs of life?



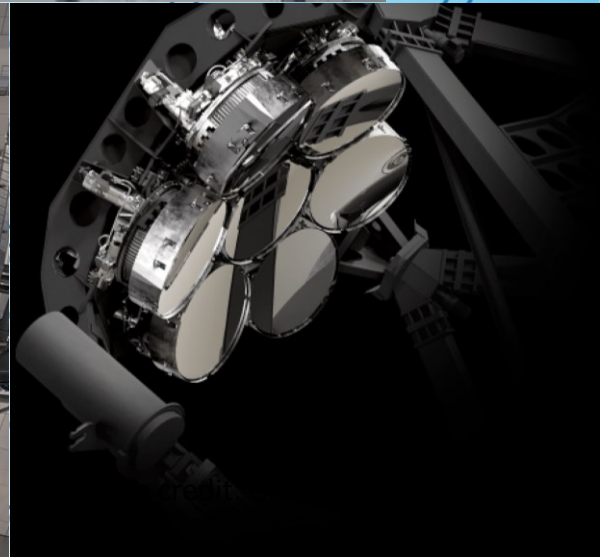
Stars & Galaxies

How do galaxies assemble and evolve across time?
When did the first galaxies form?
Did they re-ionise the Universe? If so, when?

Galaxies & Cosmology

What is the expansion history of the Universe from the Big Bang until the present day?
What is the nature of dark matter and dark energy?

Adaptive optics+RTC: the key to delivering ELT science



A large, bright yellow moon in a dark blue sky, with the skeletal structure of a telescope dome and several cranes in the foreground.

The European Extremely Large Telescope



ELT Construction instruments
MICADO, MORFEO, HARMONI, METIS
in final design and manufacture

Armazones Prog.
instruments
MOSAIC, ANDES
in conceptual design

Thank you!

SOC:

Roberto Biasi, Italo Foppiani, Damien Gratadour,
Bogdan Jeram, Martin Kulas, Tim J. Morris, Arnaud
Sevin, Malcolm Smith, Marcos Suárez Valles

LOC:

Bogdan Jeram (chair), Marcos Suárez Valles, Miska
Le Louarn, Martine Peltzer