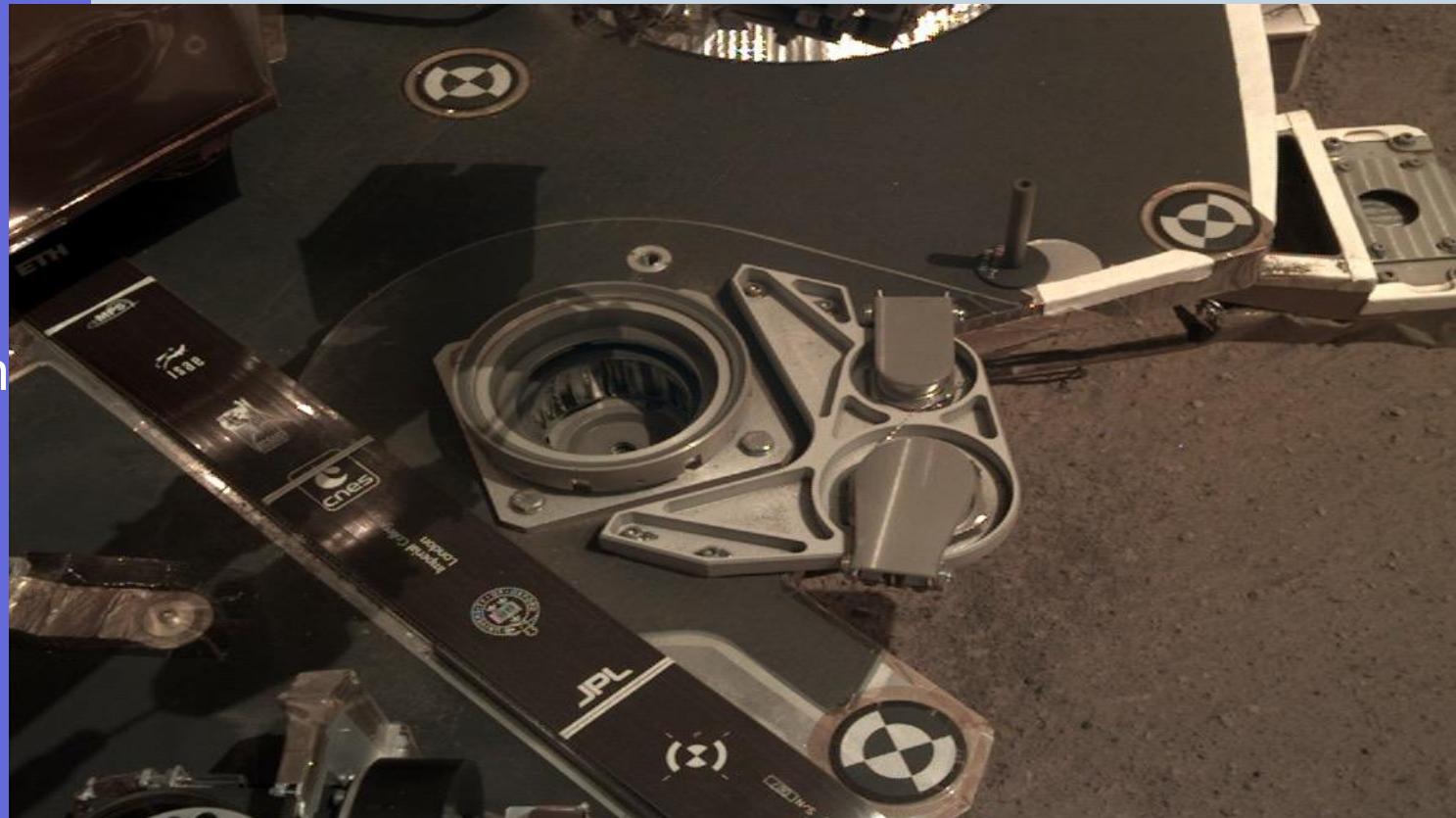


# Oxford Physics Space Science and Instrumentation

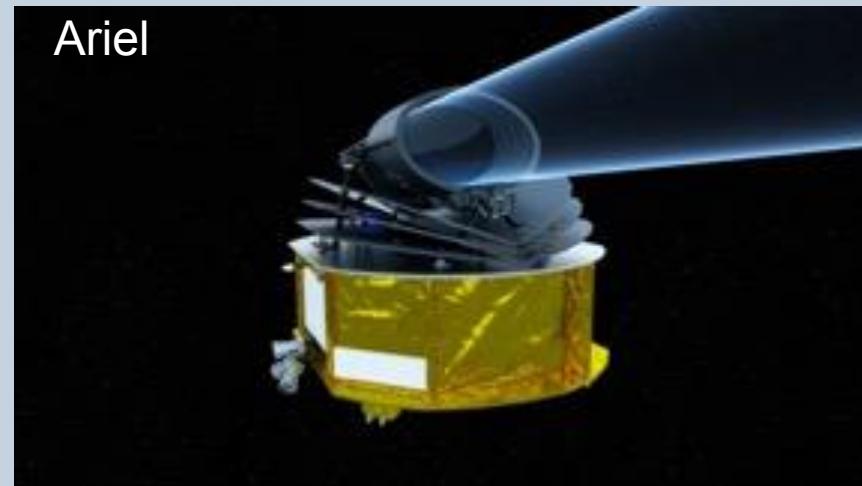
Oxford Physics Planetary Experiments

(With thanks to the numerous  
international teams we have worked with  
in the past, present and future)

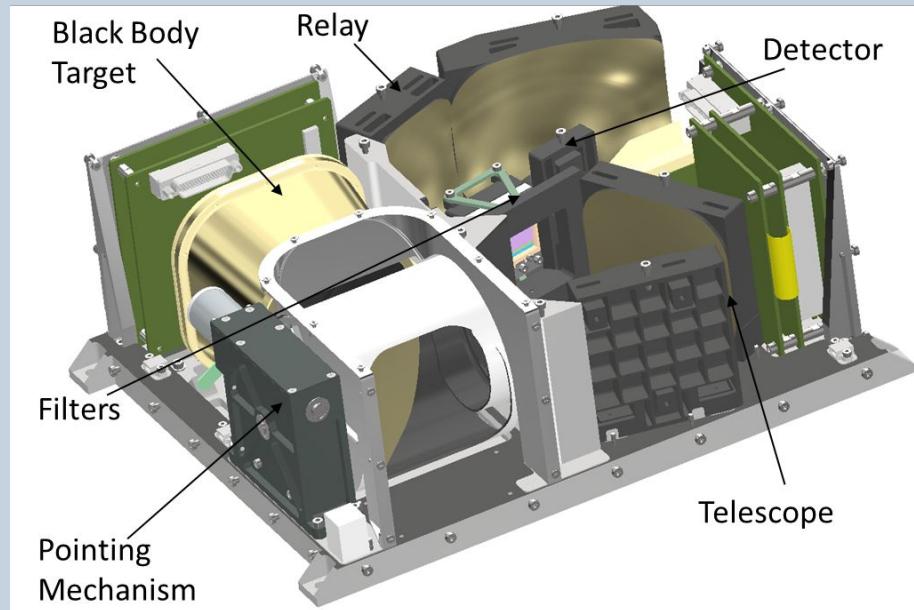
Carly Howett, Neil Bowles  
Fraser Clarke



# Space Instrumentation at Oxford Physics

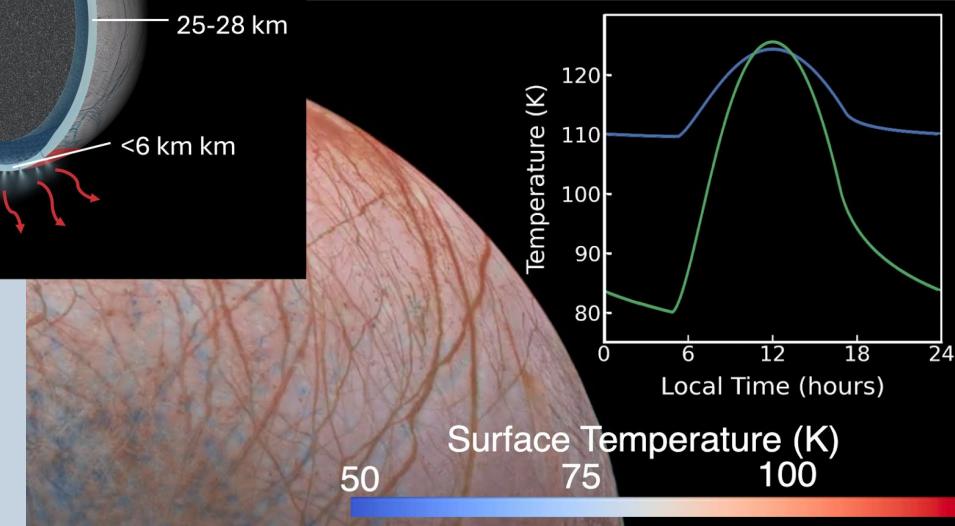
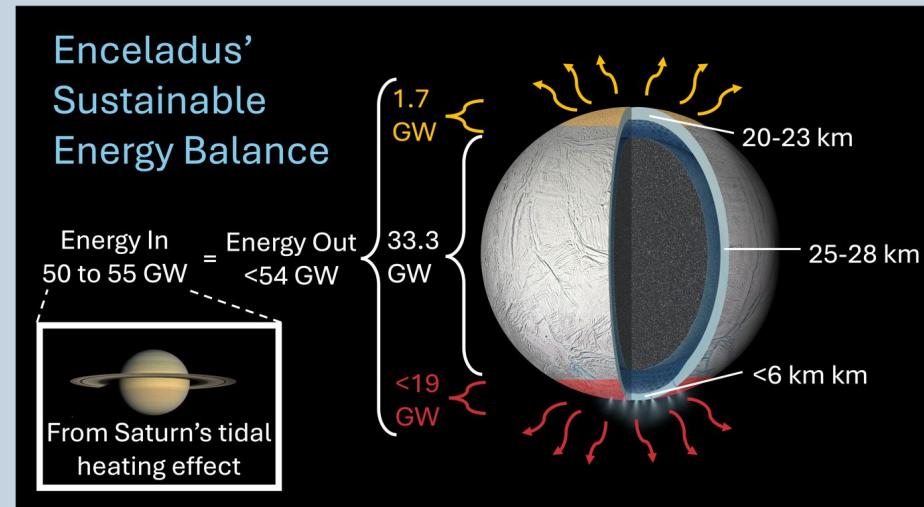


# Icy Moon Exploration



## Enceladus Thermal Mapper (ETM)

- Based on LTM and developed through UKSA Bilateral Funding
- Baseline Thermal Instrument to ESA's L4 Mission to Enceladus
- Baseline in NASA New Frontiers Proposals (AO pending)



## Surface Science

- Ongoing development of a comprehensive thermal model for Enceladus and Europa.
- Successfully constrained Enceladus' conductive heat flow.
- Developing diagnostics for distinguishing between different Europan activity types in conjunction with specialists in ice dynamics
  - Compatible with analysing Europa Clipper E-THEMIS and Juice SWI measurements.