

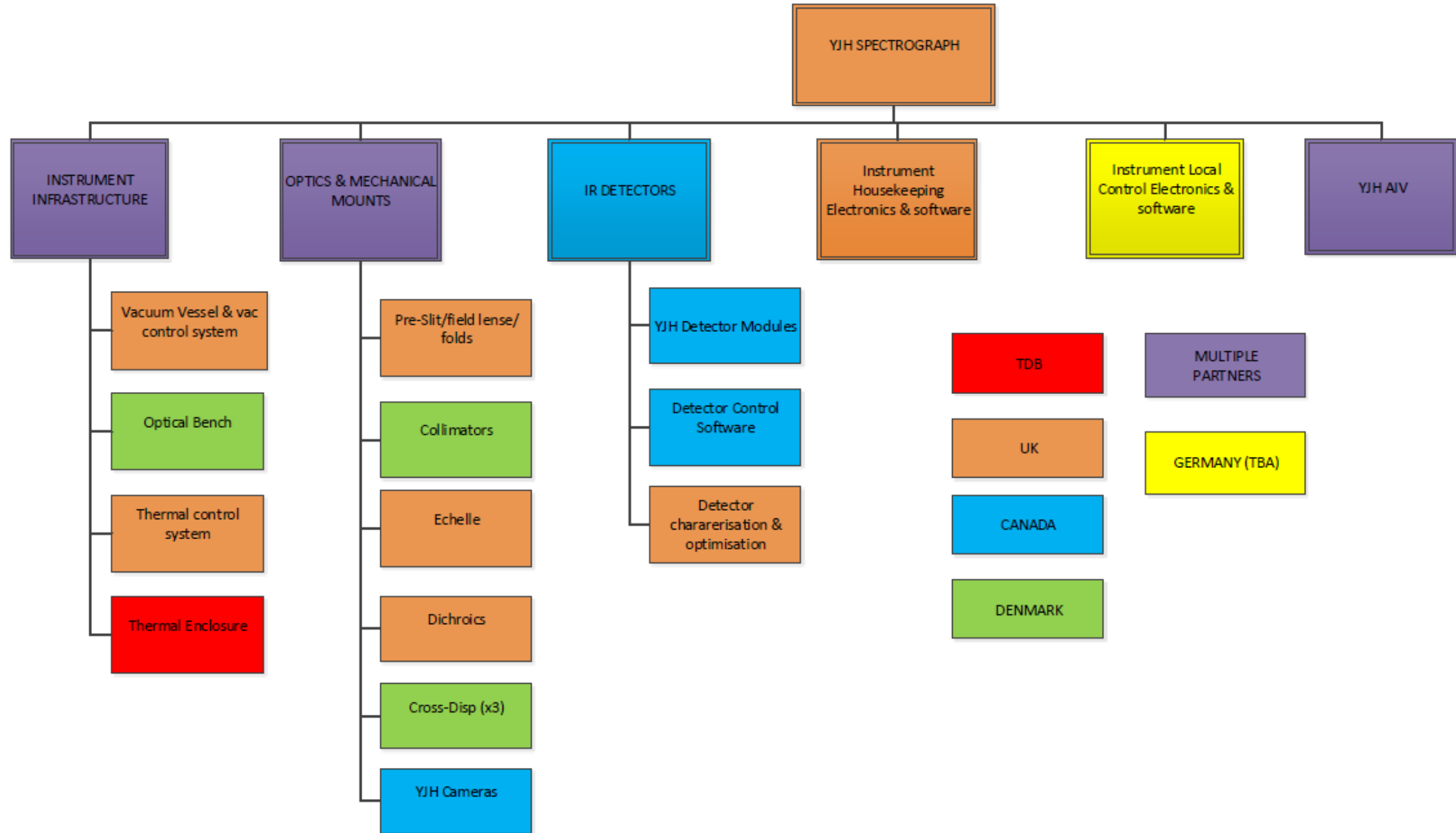
HIRES - YJH Spectrograph

David Lunney – Project Manager

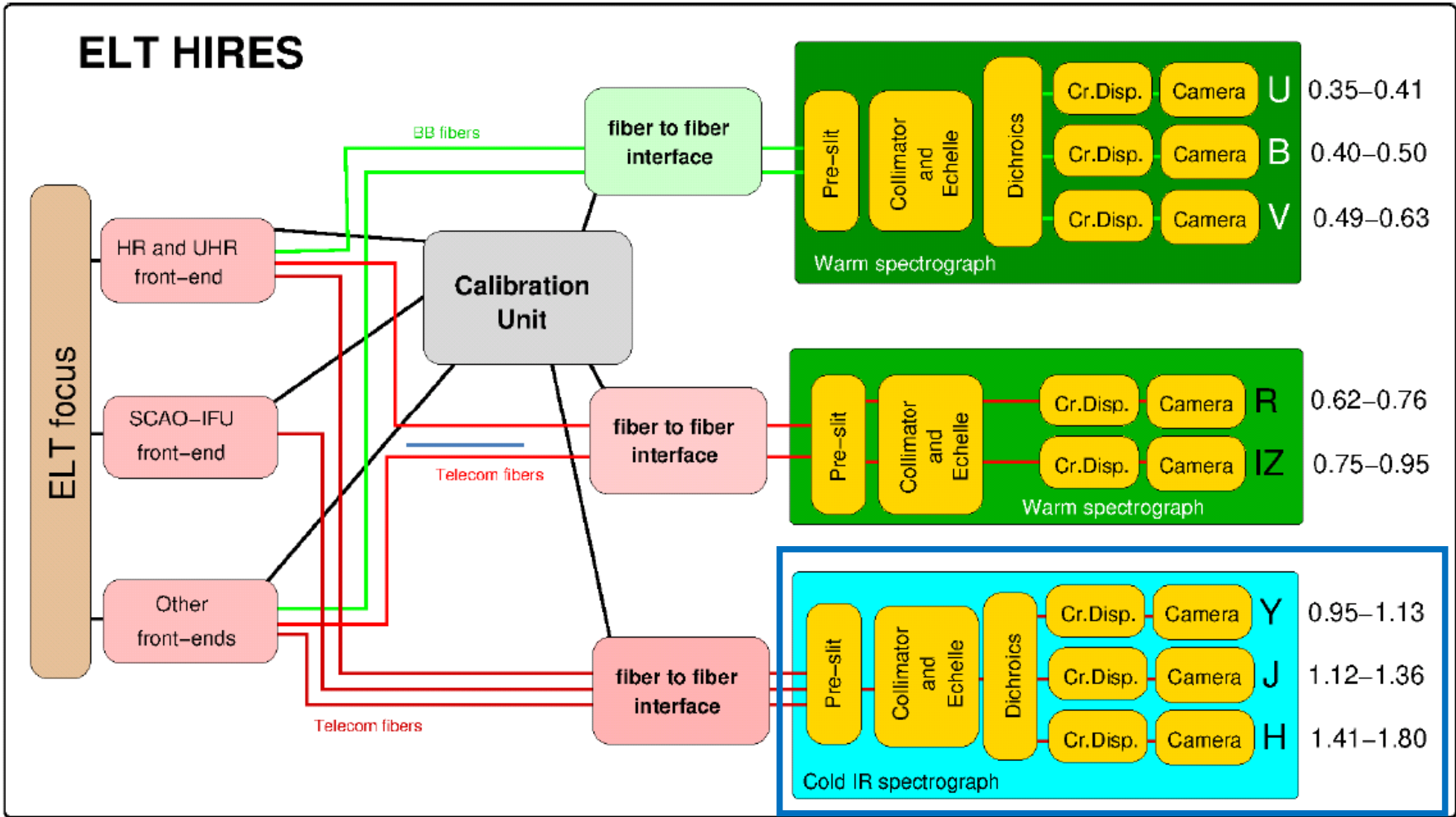
Welcome & introductory meeting 12-13 January 2022

YJH Spectrograph effort & hardware costs

- Cost estimate 10.6 M€
- FTE estimate 105
- Contributors DK/UK/Can + Germany (TBA)

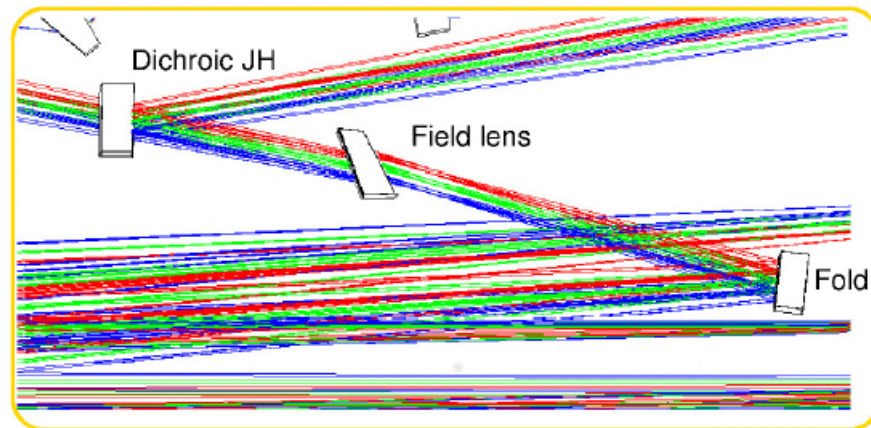


HIRES schematic

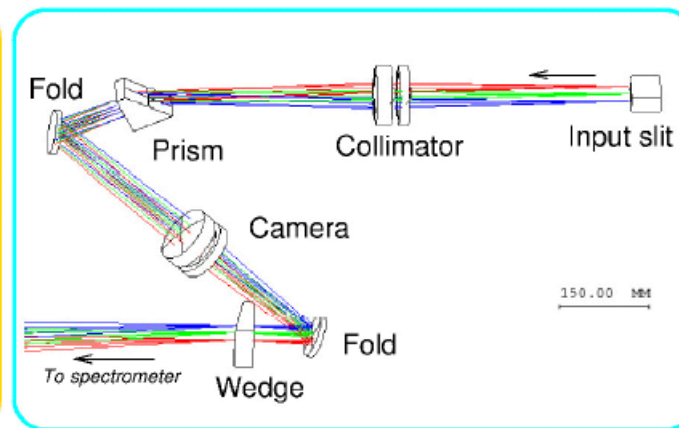


YJH Spectrograph

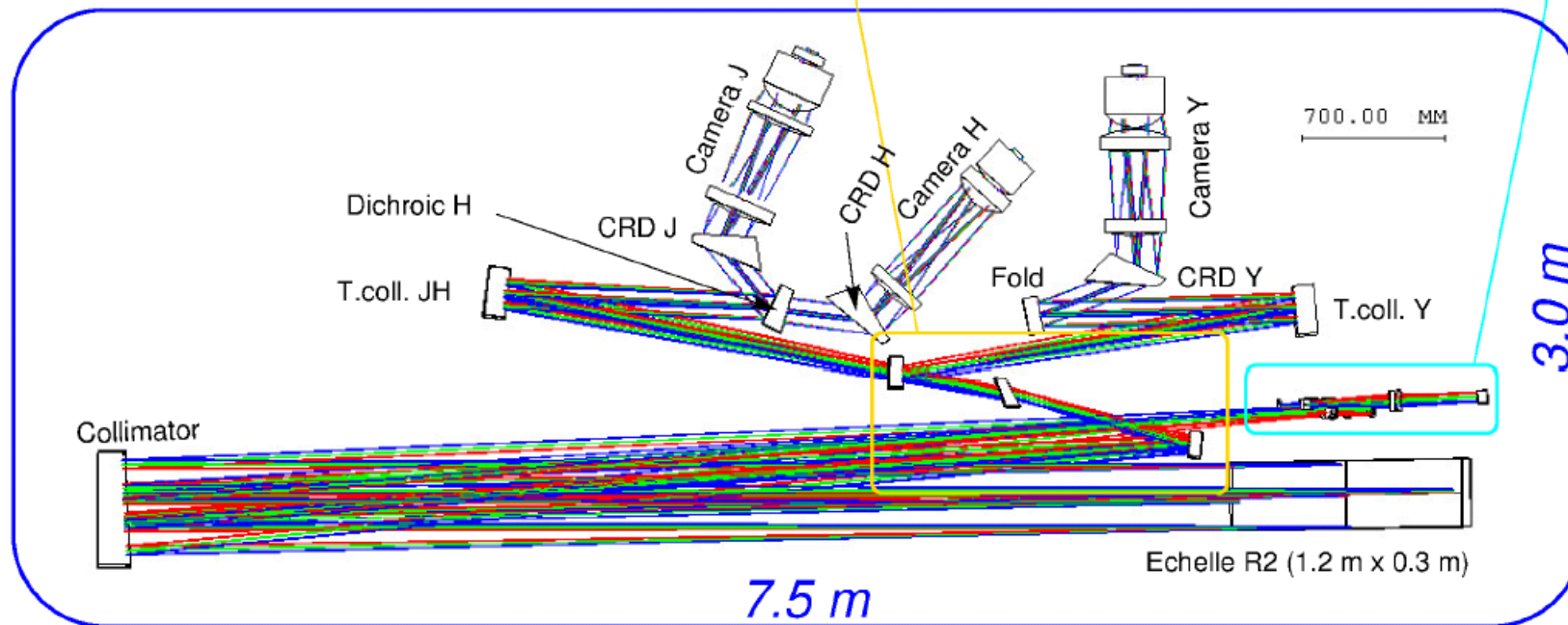
Optical layout – commercial echelle R2 23.2 gr/mm



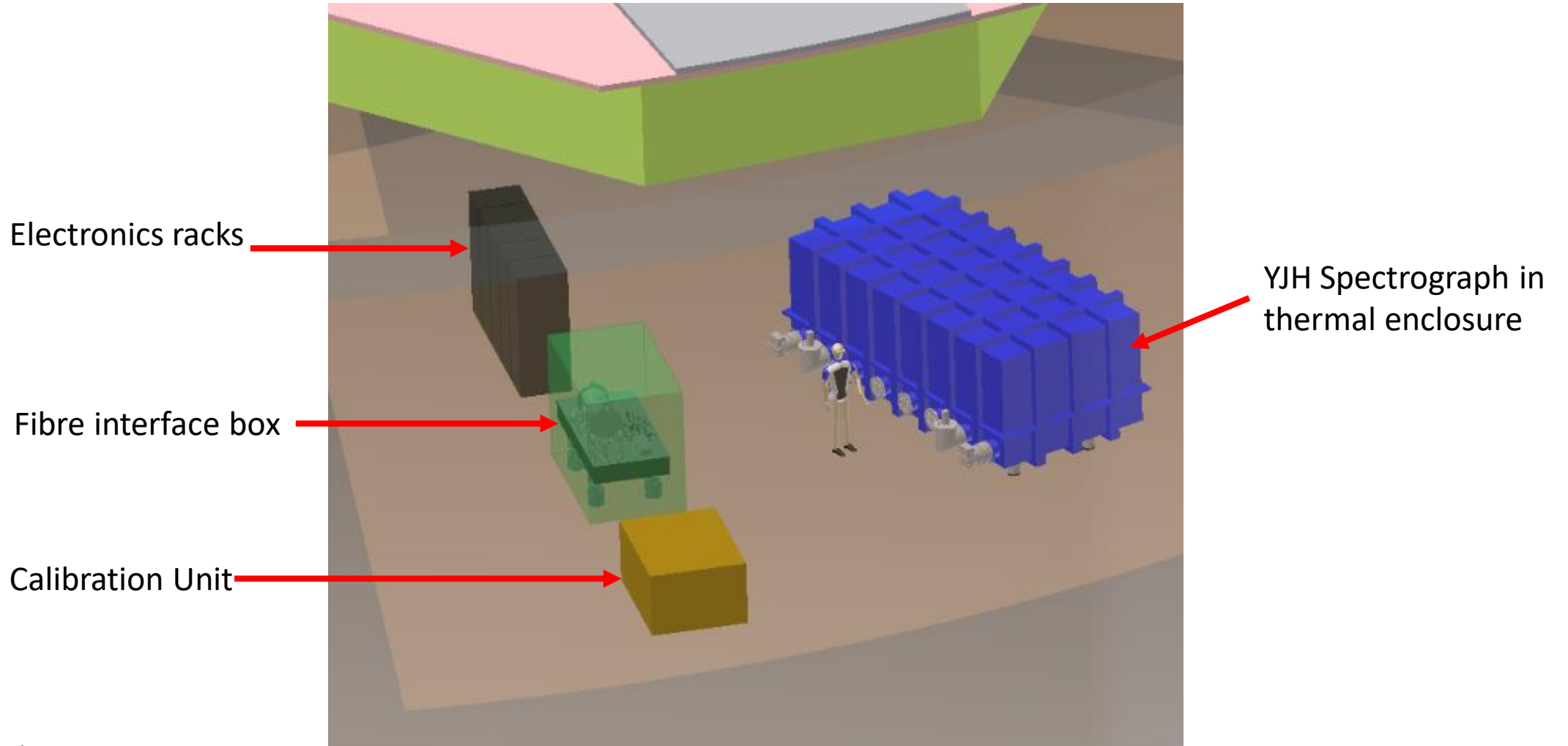
Zoom of central region



Slit re-imager and anamorphic pupil expander



Location on Coude



Upcoming Major Milestones

- Formal Kick-off (Feb/Mar 2022)
- System Specification and Architecture Review (Q4 2022)
- Preliminary Design Review (Q4 2023)

Issues/risks

- Thermal enclosure work-package still to be allocated to partner
- Manufacture of some of the optical parts may be challenging
- Difficulties in meeting grating specification and finding manufacturer, prototype grating work ongoing at Cambridge to help mitigate the risk