

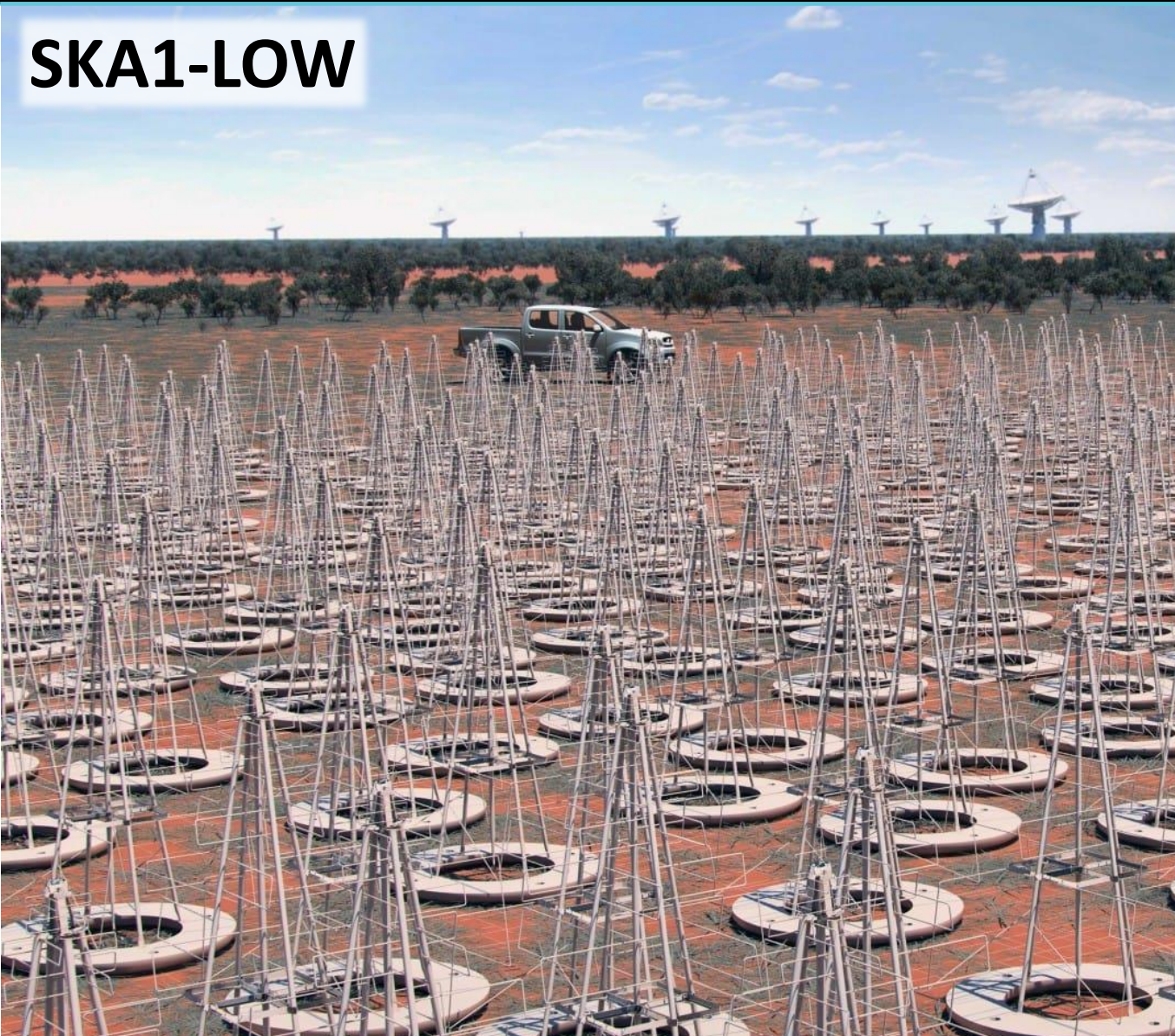


# Astrophotonics

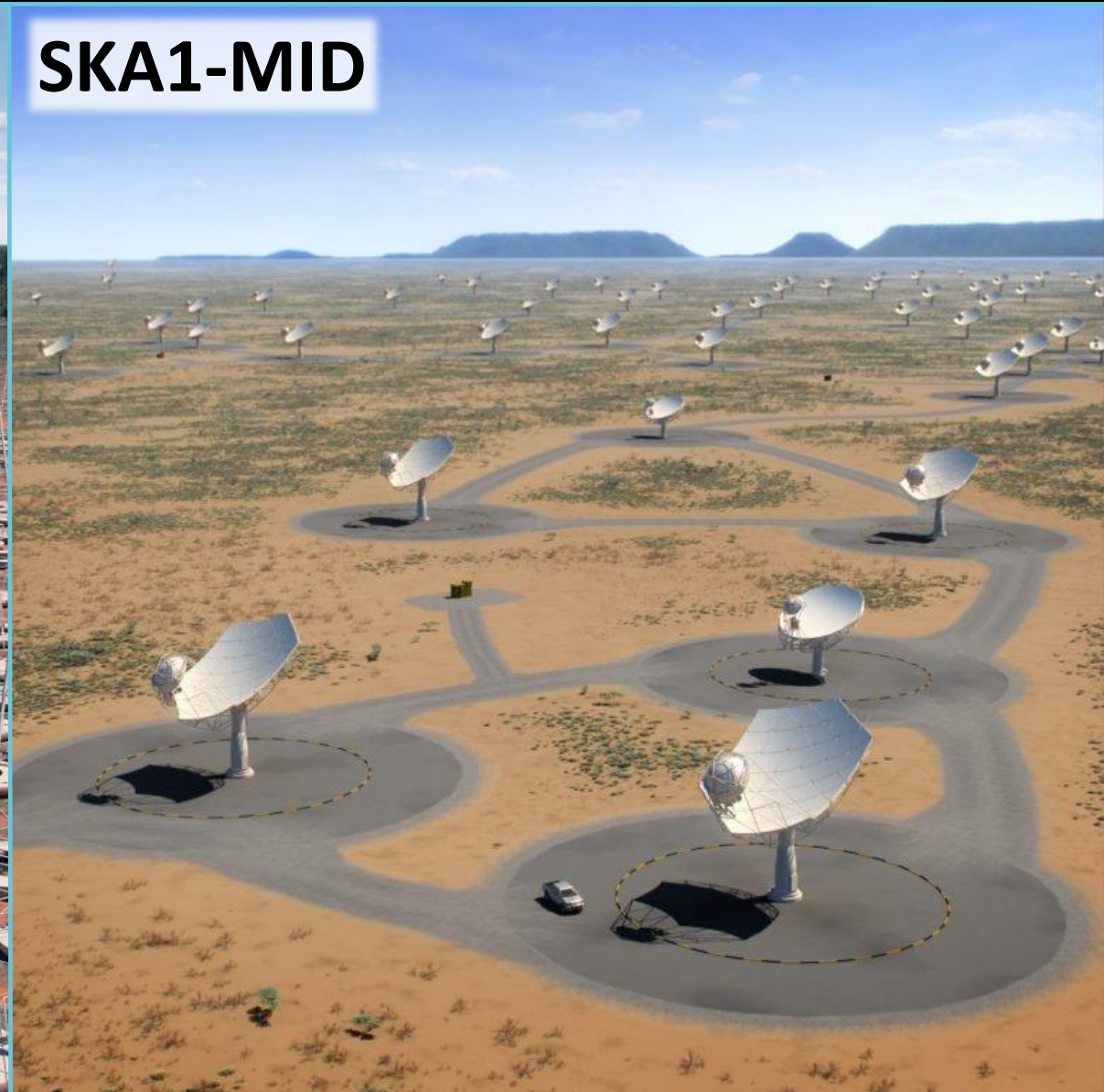
[icrar.org/astrophotonics](https://icrar.org/astrophotonics)

# Square Kilometre Array

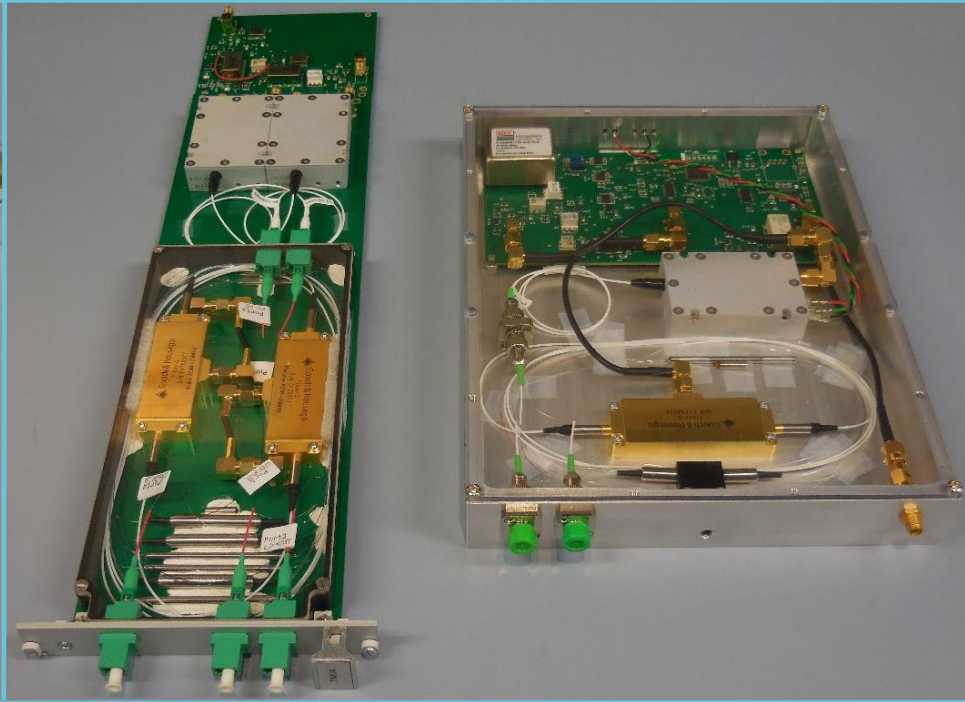
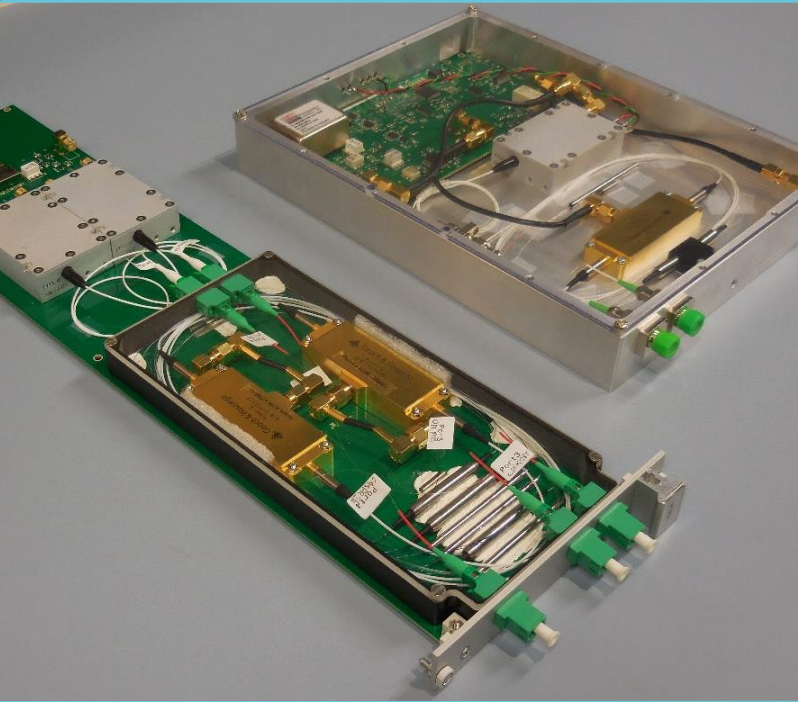
**SKA1-LOW**



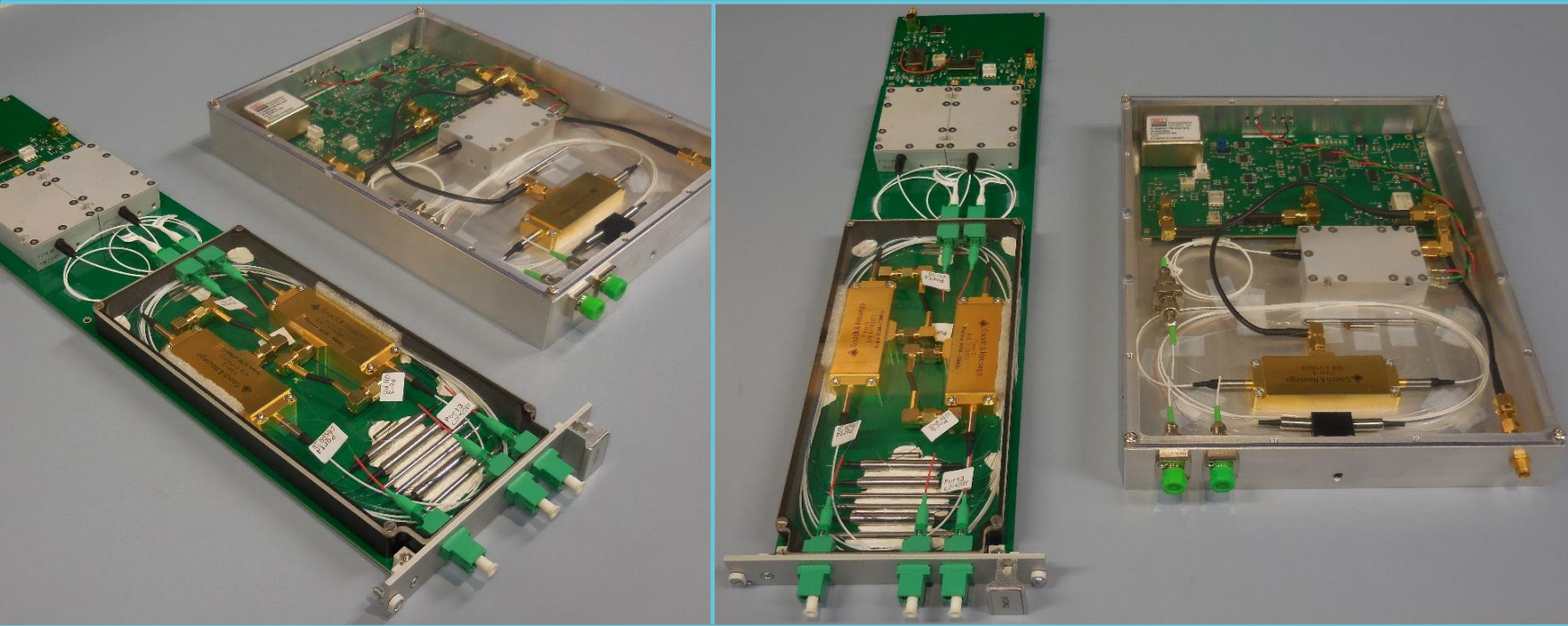
**SKA1-MID**



# The SKA and beyond...

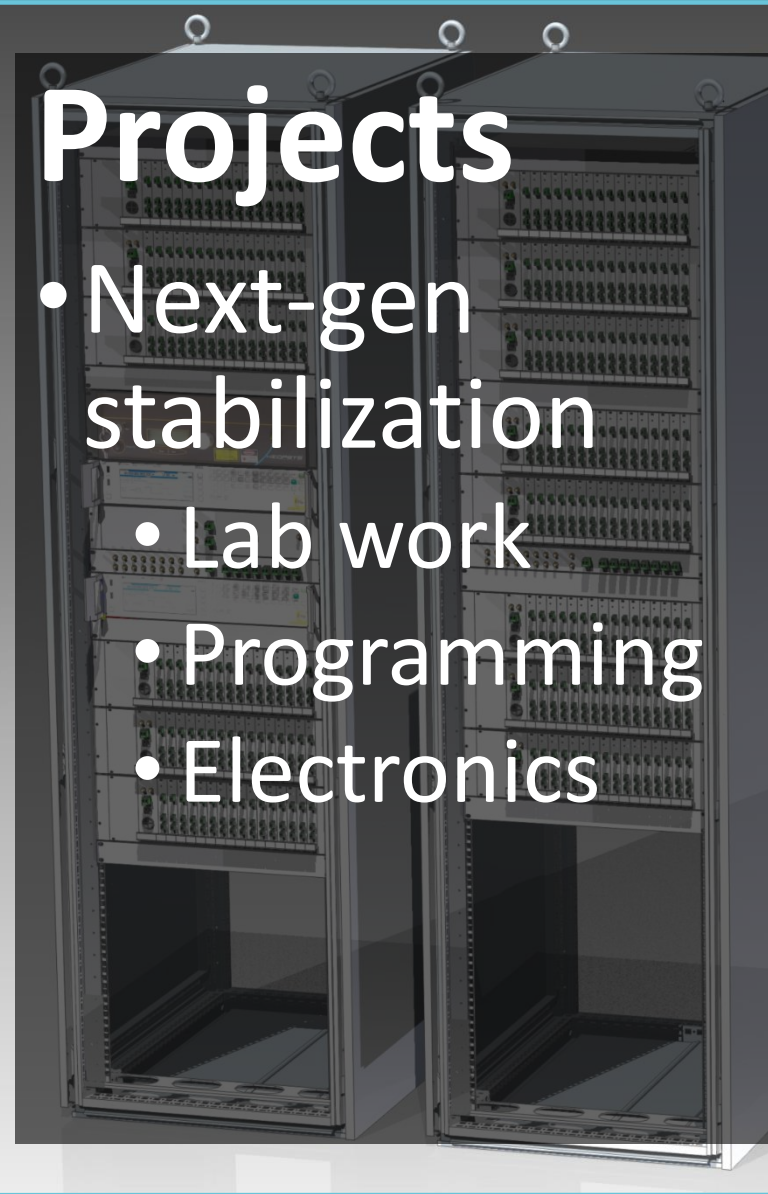


# The SKA and beyond...

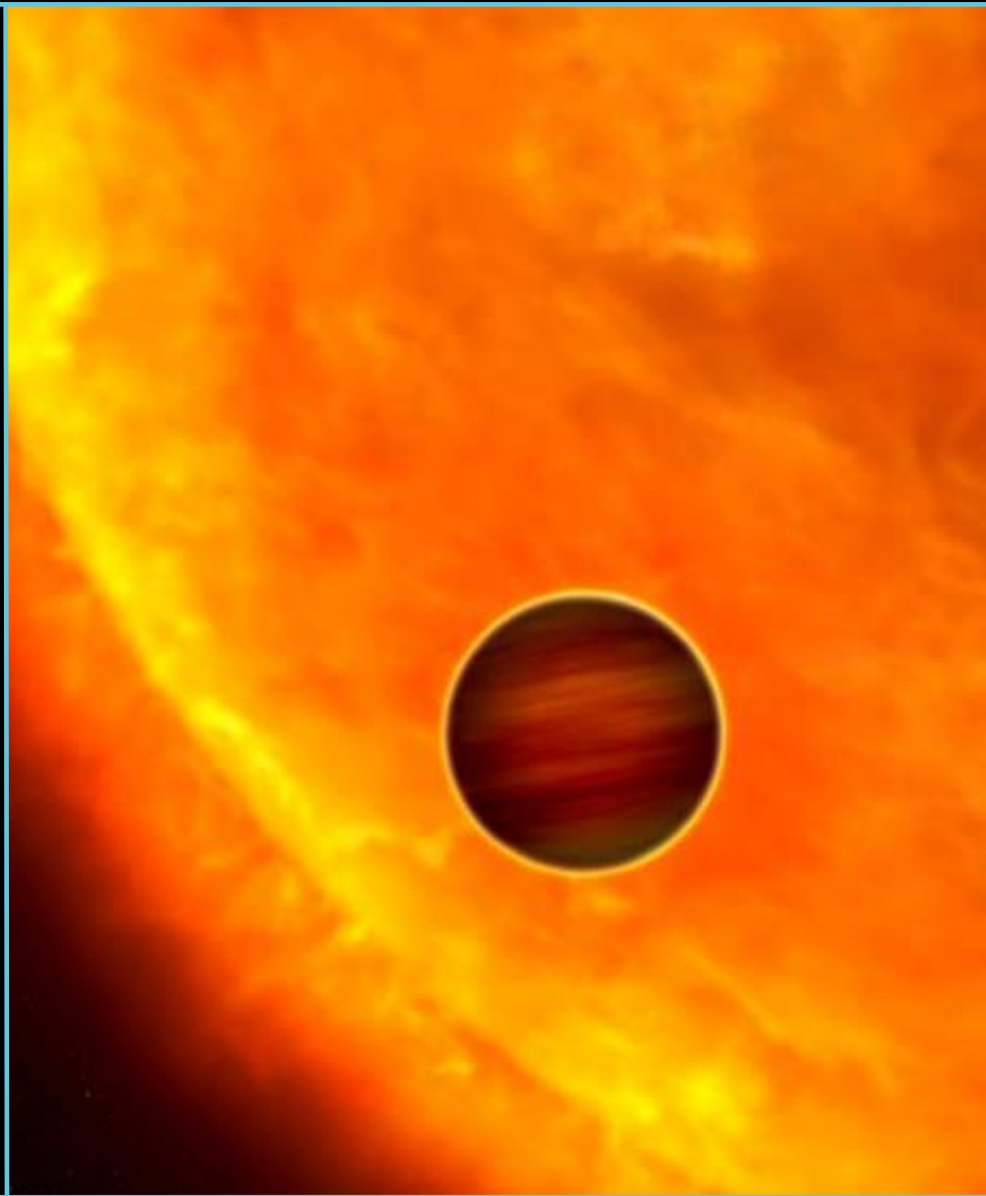
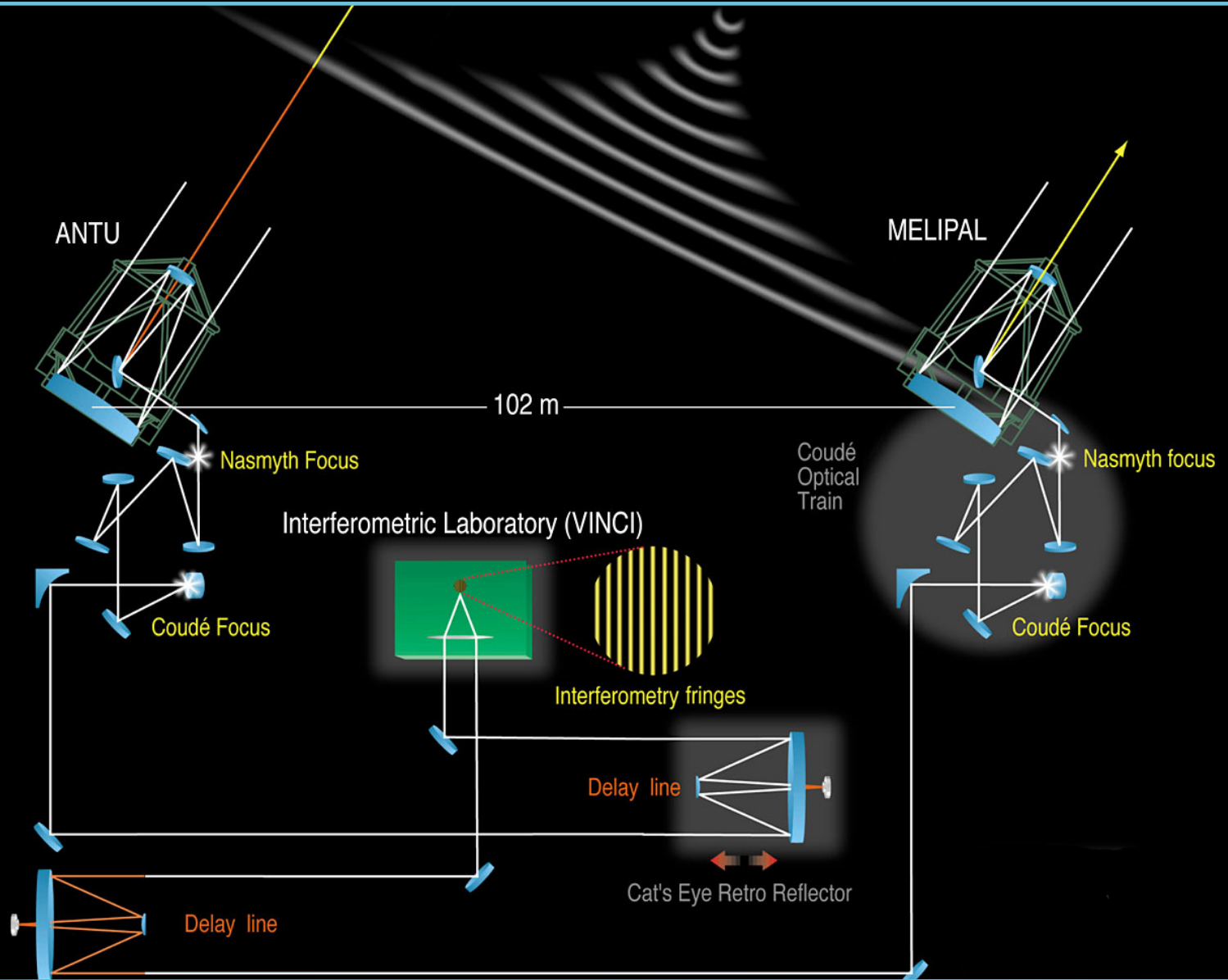


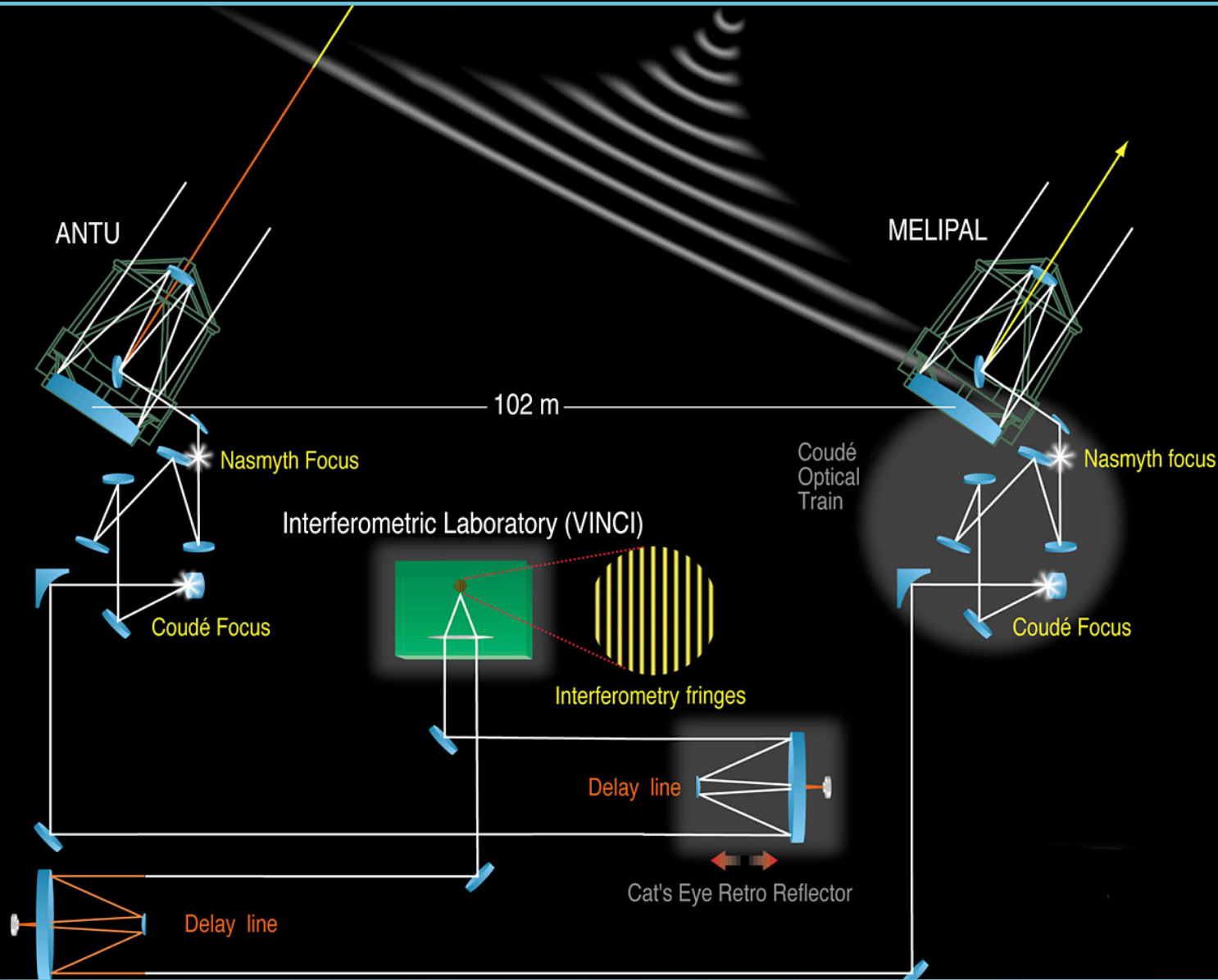
## Projects

- Next-gen stabilization
  - Lab work
  - Programming
  - Electronics



# Optical Interferometry



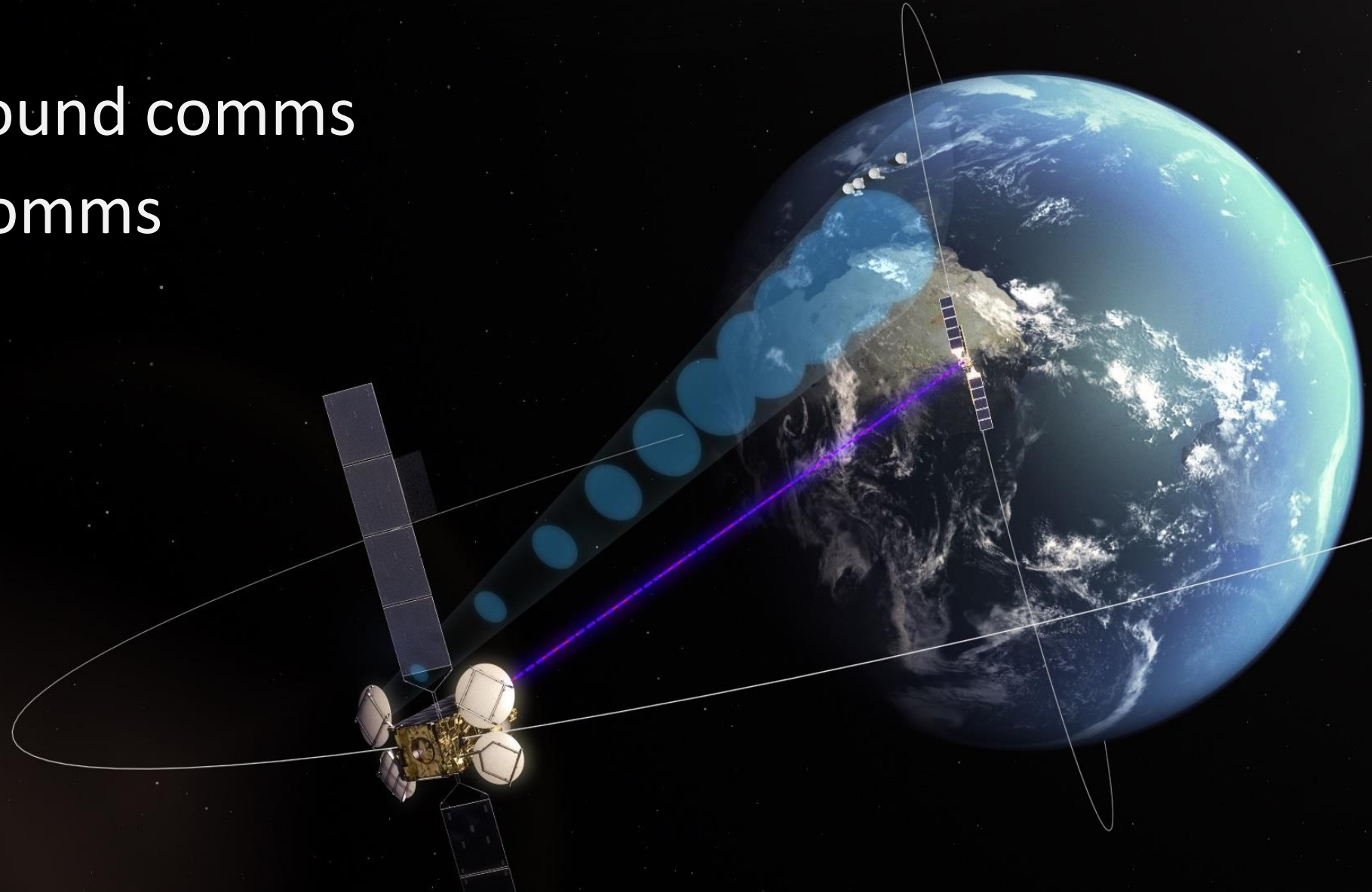


## Projects

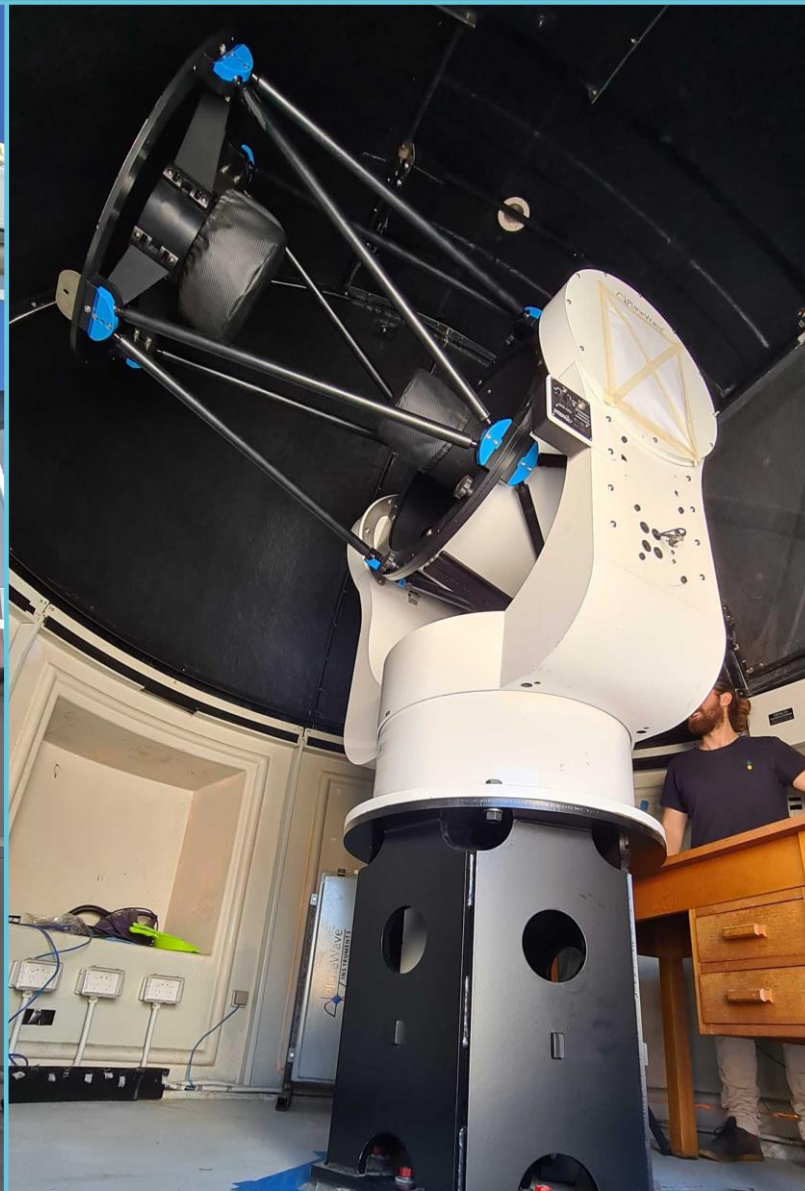
- Quantum telescope
  - Theory
- Stabilization
- Digital intensity interferometry

# Laser links for comms and science

- Space-to-ground comms
- Terrestrial comms
- Optical PNT



# WA Optical Ground Station





# WA Optical Ground Station



## Projects

- Ground station optics
- Electronics and control software
- Mobile ground stations

# Projects

- Space-to-ground laser links
- Quantum telescopes
- Synchronization of giant radio telescopes

# Students

- Masters or PhD
- Physics/Astrophysics
- Engineering
  - Electrical/Electronics
  - Mechanical
  - Software



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