

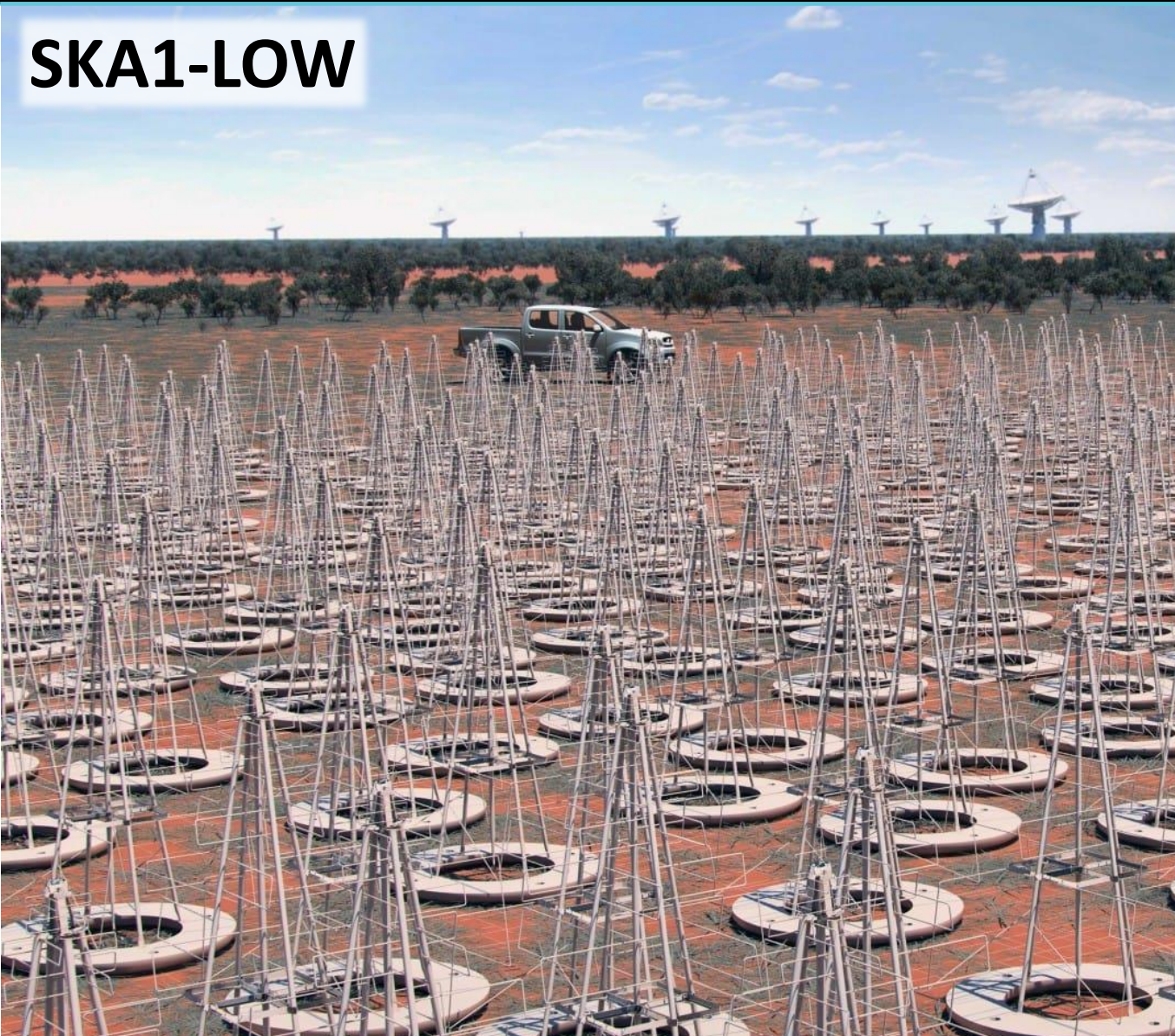


Astrophotonics

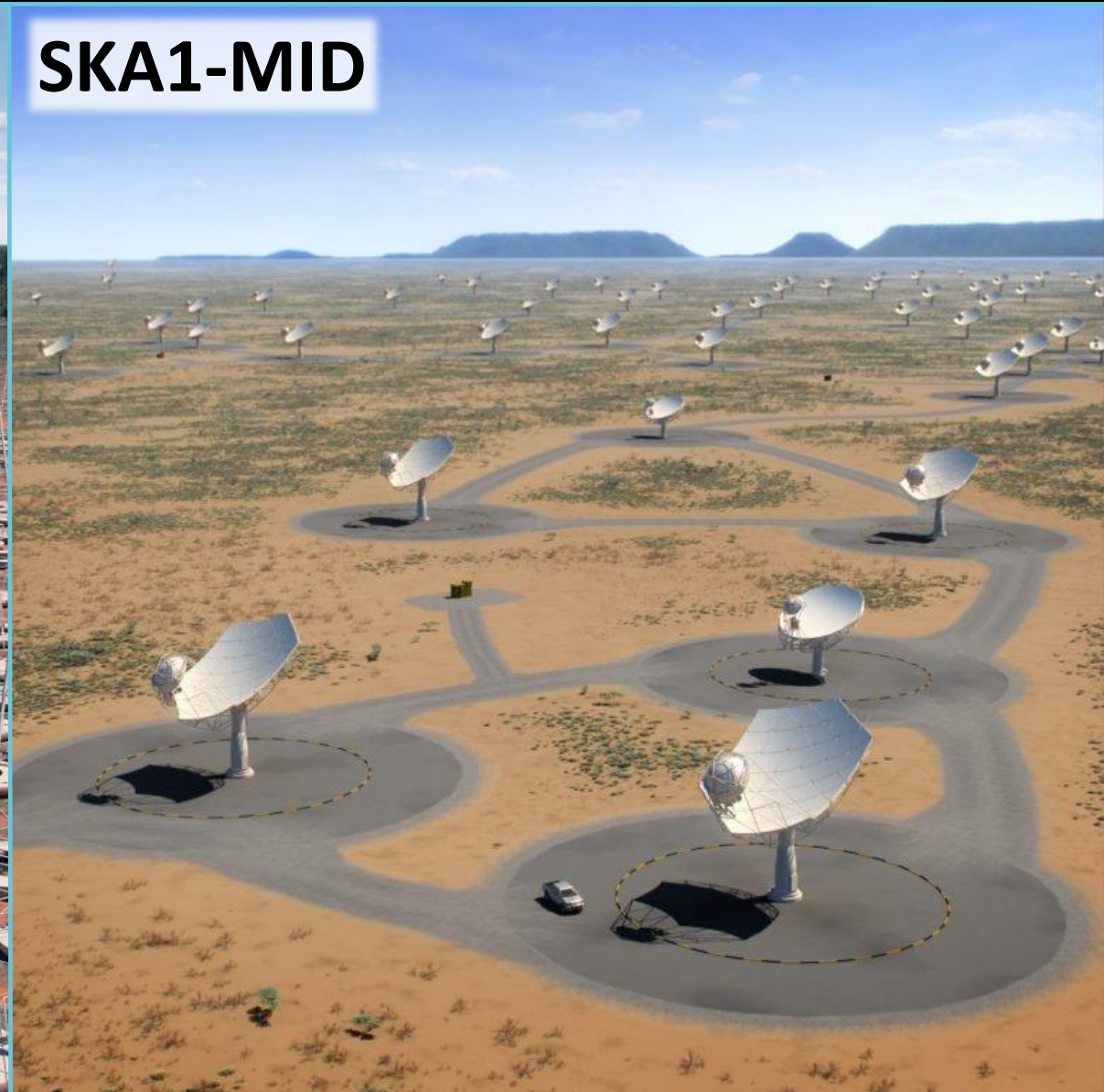
icrar.org/astrophotonics

Square Kilometre Array

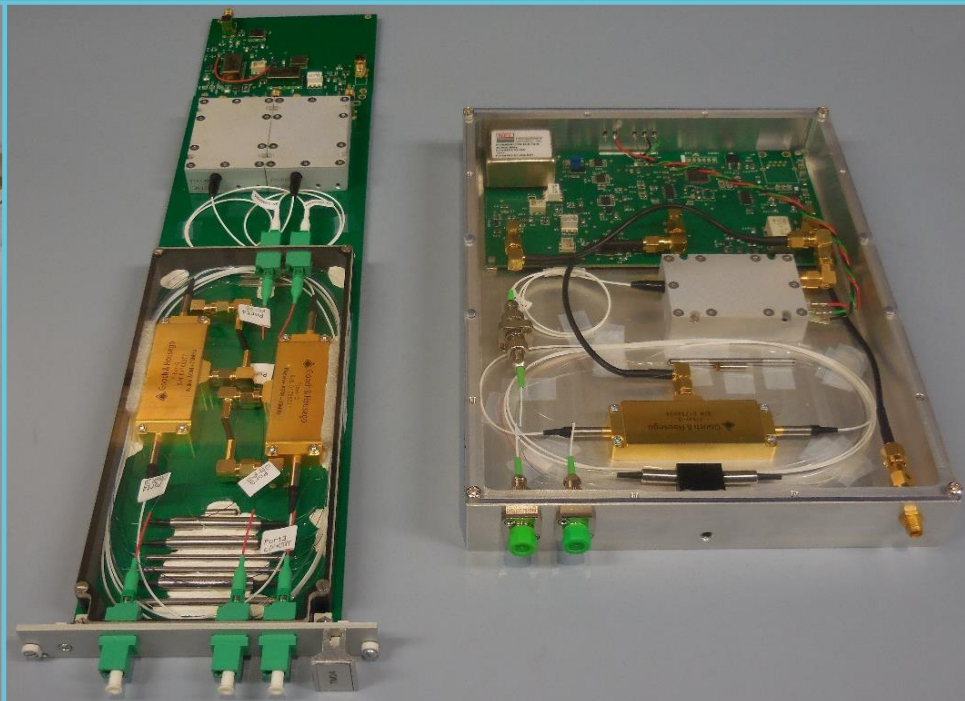
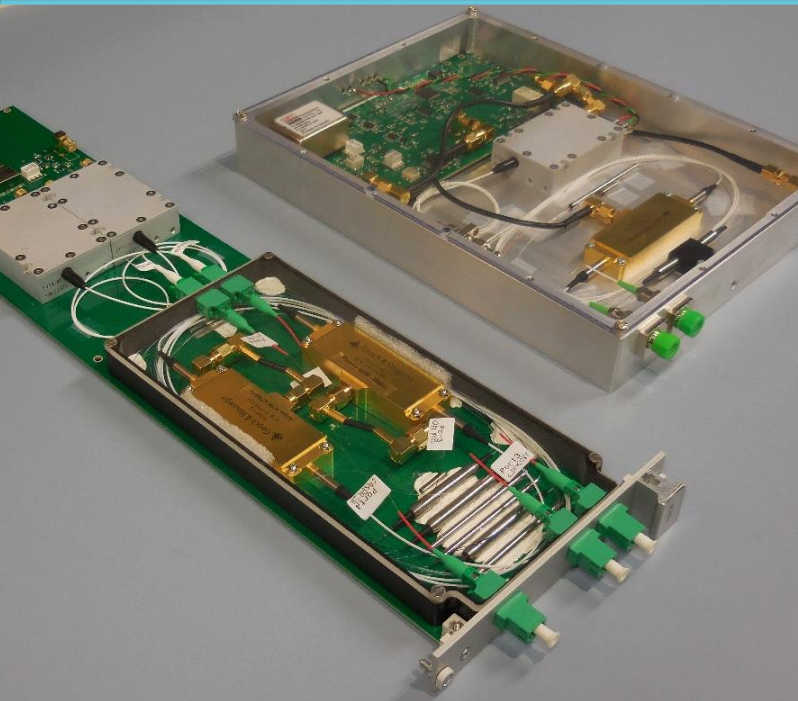
SKA1-LOW



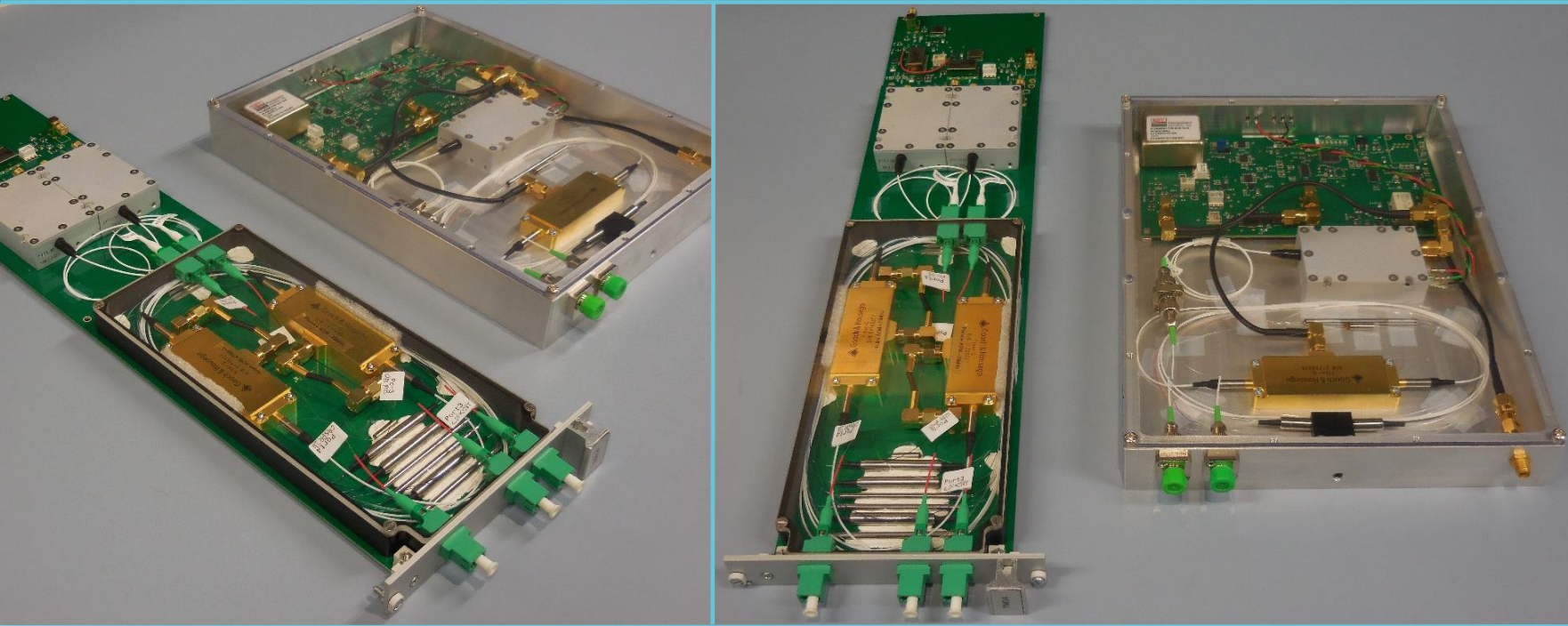
SKA1-MID



The SKA and beyond...

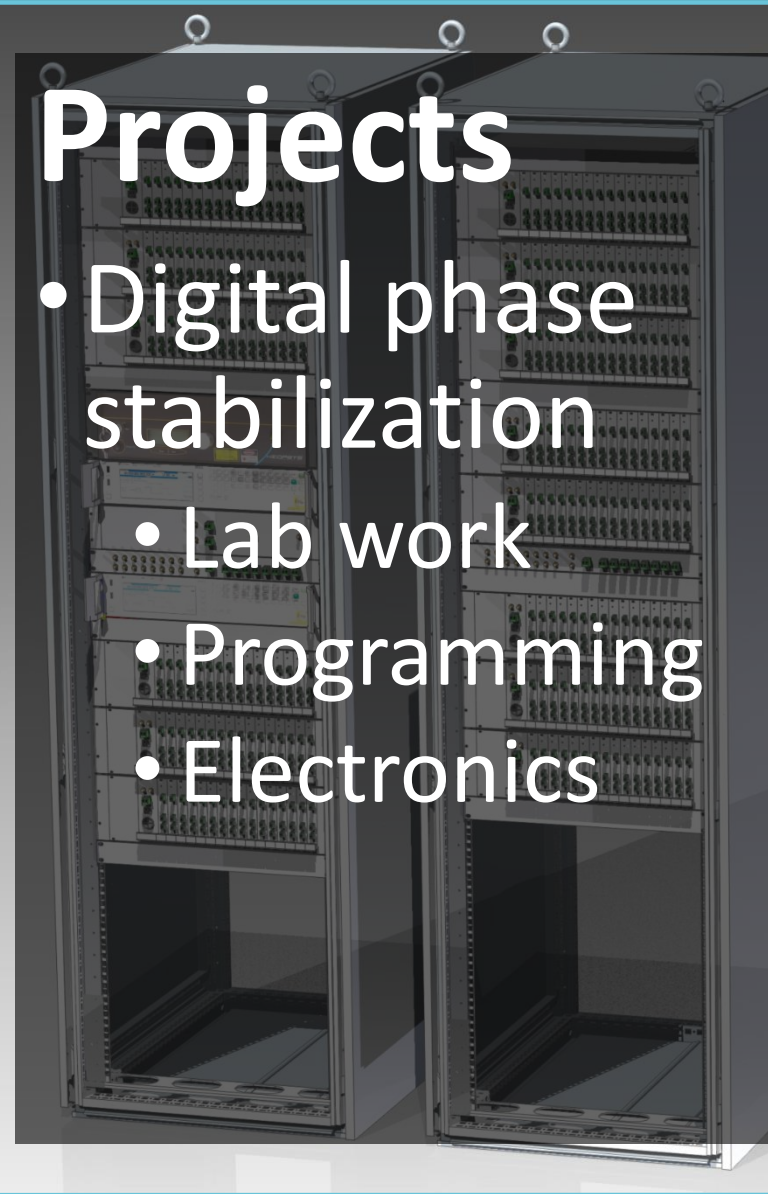


The SKA and beyond...

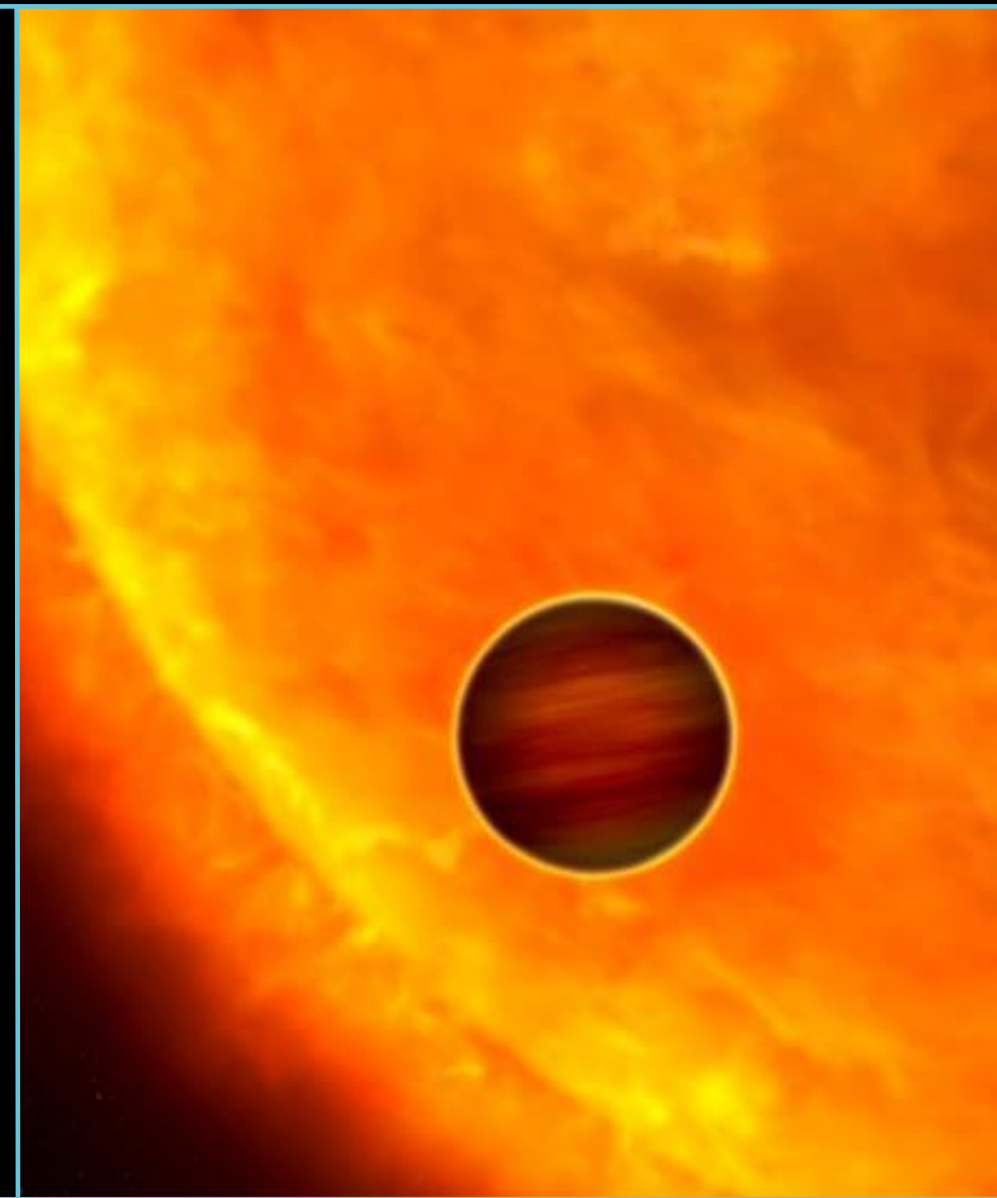
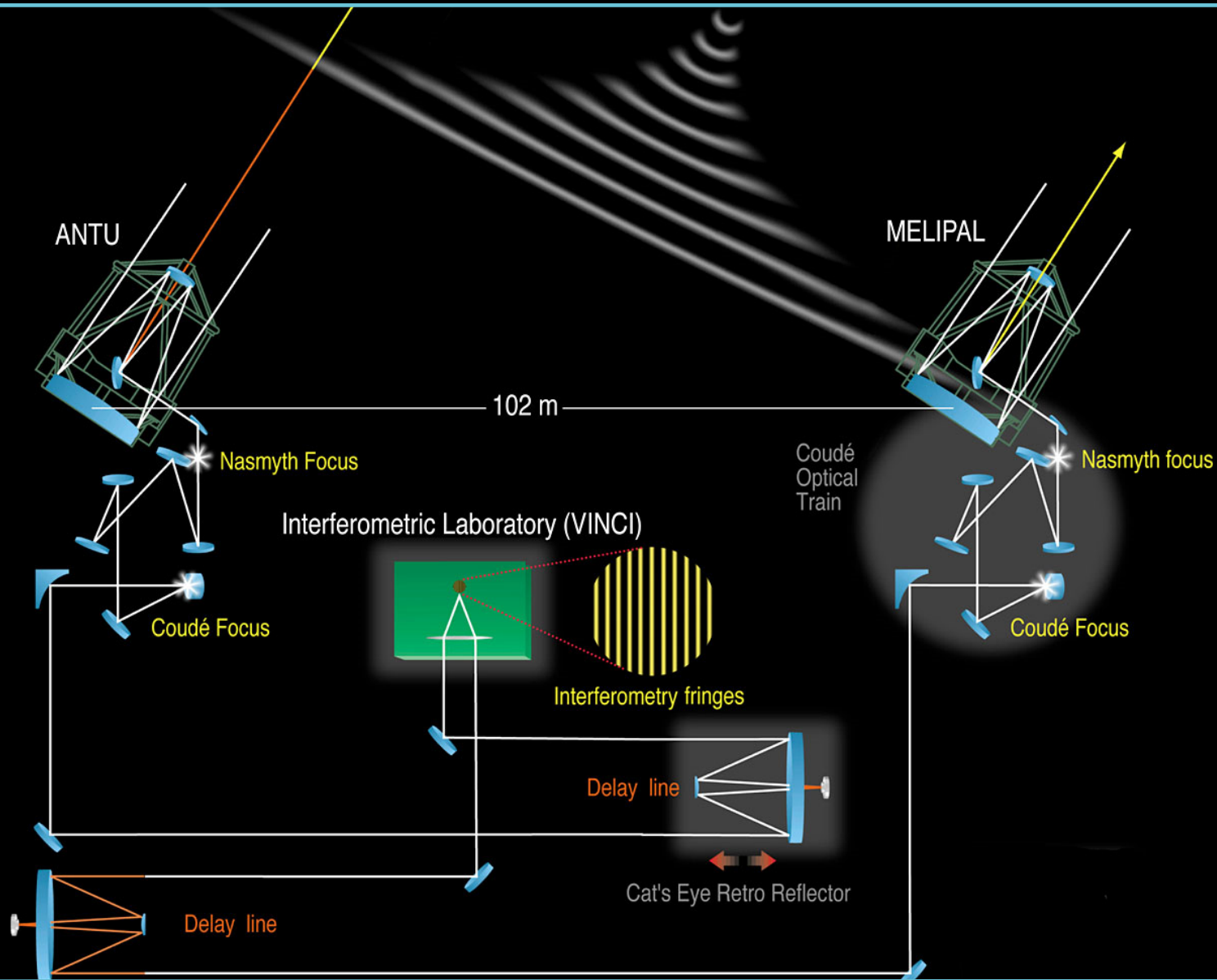


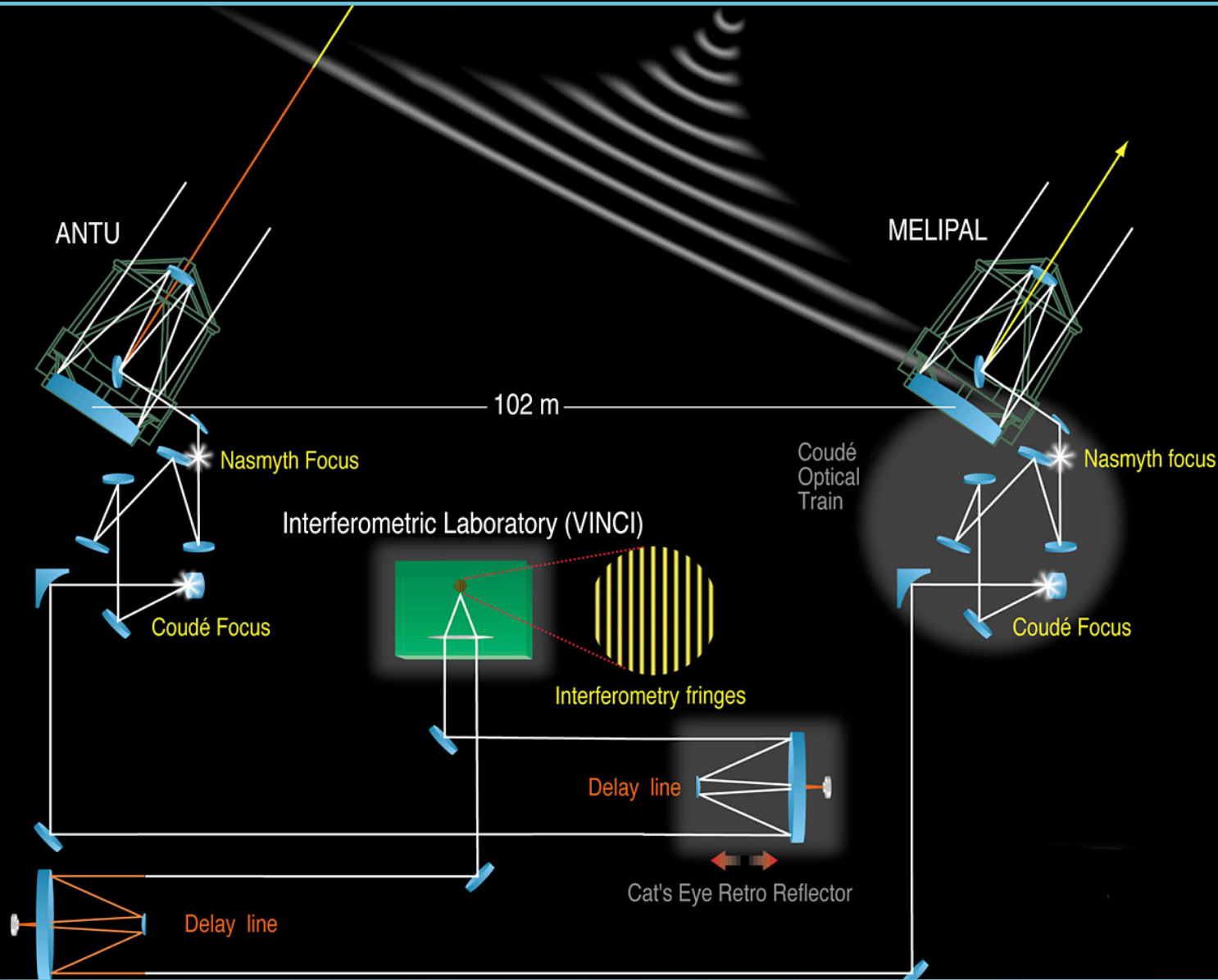
Projects

- Digital phase stabilization
 - Lab work
 - Programming
 - Electronics



Optical Interferometry



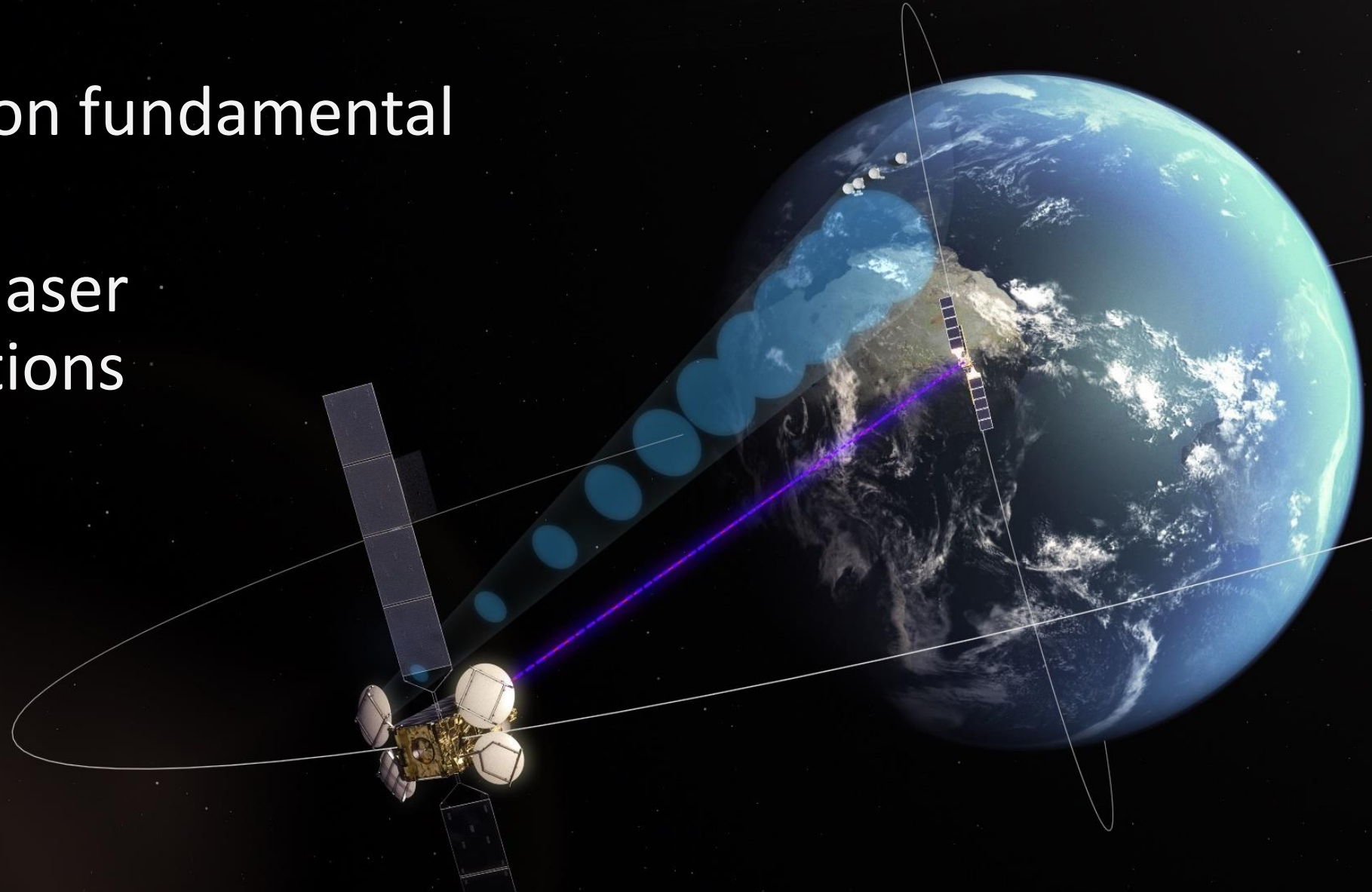


Projects

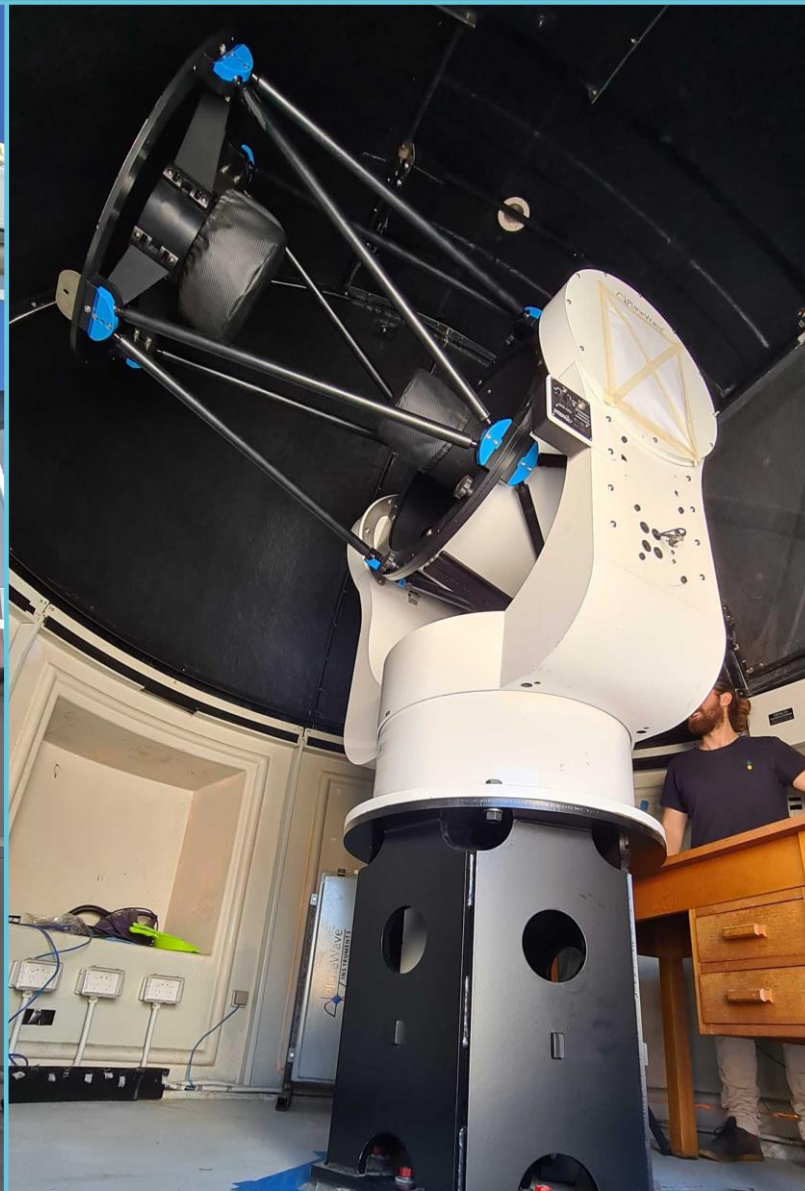
- Optical heterodyne interferometry
- Quantum telescope
- Digital intensity interferometry

Ground-to-space laser links

- High-precision fundamental science
- High-speed laser communications



WA Optical Ground Station



WA Optical Ground Station



Projects

- Ground station optics
- Electronics and control software
- Mobile laser terminals
- Lunar comms

Projects

- Synchronization of giant radio telescopes
- Optical interferometry
- Ground-to-satellite laser links

Students

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



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