

A dialogue on hardware

- What are the near and medium-term goals for hardware development, and why?
- Which are of highest priority?
- Which are amenable for collaborative study?
- Are there fundamental or logistical problems that might hamper collaborative work?
- How might collaborative work be realised in practice?

Technologies relevant for interferometry

- A possible non-exhaustive list!
 - Novel telescopes, optics and coatings
 - Array layout
 - Beam transport strategies
 - Dual feed design and metrology
 - Delay compensation (in air and in vacuum) and metrology
 - Beam combination
 - Fringe detection
 - Dispersion control
 - Fringe envelope tracking and fringe phase tracking
 - Spectrometer design
 - Detectors
 - Adaptive optics
 - Nulling
 - Spatial filtering
 - Site testing and selection
 - Software and control

What we need to concentrate on today

- Solved and/or of lower priority?
 - Array layout
 - Beam combination
 - Fringe detection
 - Spectrometer design
 - Detectors
 - Nulling
 - Spatial filtering
- Work required?
 - Novel telescopes, optics and coatings
 - Beam transport strategies
 - Dual feed design and metrology
 - Delay compensation and metrology
 - Dispersion control
 - Fringe envelope & phase tracking
 - Adaptive optics
 - Site testing and selection
 - Software and control