Instrument Roadmap - Discussion

• Phased implementation of Roadmap:
  • Well supported by detector technology state (heterodyne, KID and TES)

• Number of pixels (heterodyne) vs. Development time
  • Very close at the 64 pixel level. Probably also spectrometers
  • Need integrated array
  • Need new instrument – cannot be GREAT modification

• Technology vs. Development time
  • photoconductors vs. KIDs vs. TES
    • KIDs are very close to being able to cover full IR 10-300um range
    • More a design question than technology
    • TES are also close

• Phase technology development?
  • Parallel with instrument development
    • “competition” between detector technologies (KID TES primarily) suggested
  • What are the required near and far goals?