Potential Decisions Concept 1 and 2

Origins Space Telescope

Face-to-Face Meeting #5

Washington DC

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Cooray & Meixner
Concept 1

• Cannot fit into a 5m fairing.

• Options:

  1. **Study Center-preferred option:** Keep as is (9m, 5 instruments) and design to SLS

  2. Scale down to fit into a 5m, probably need 5 -> 4 instruments (HRS is probably on the table for a removal then).

  3. Study center work out 9m - delta for a comfortable fit within the 5m fairing. That delta down aperture size will be Concept 1. *Extra cost/time to study center.*

  4. Any other proposals?
Concept 1 Vote

- **(A) Keep Concept 1** as is. If the Study Center has to use SLS that is acceptable. *we will be carrying SLS risk.*
- **(B) Change Concept 1** by cutting back on instruments and possibly aperture to guarantee a 5m fairing *will require scrapping 8 months of engineering and starting again.*
- **(C) Do both** (SLS first, Concept 1a, and 5m scaling second - Concept 1b)
- **(D) None** of above - and give your reason as an objection to put on record.
Concept 2

- Science prioritization makes clear keep exoplanet transits, wavelength coverage down to 6 (5?) microns.
- Need a process to decide on concept 2.
- We can go LUVOIR style - science free, just decide on max SLS and max 5m sizes.
- OST Concept 1 style - based on science only.
- New style - science + cost or cost only.
- If cost-max design, need a decision on what's the maximum cost STDT thinks is reasonable for Decadal to consider ($3B?, $4B?)