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Potential Decisions Concept 1 and 2  
Origins Space Telescope  
Face-to-Face Meeting #5  
*Washington DC*

June 14-15, 2017  
Cooray & Meixner

# Concept 1

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- 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

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- (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

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- 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 LUVVOIR 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?)