Potential Concept 2 Options

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Objective

• Maximize science capability within boundary conditions

So, what are the boundary conditions?
Options (for discussion)

• Change science scope and requirements
• Change aperture size
  – Bigger? (very expensive, surely a large LV), or
  – Smaller
• Spherical primary mirror, if it significantly reduces cost or risk?
• Fewer instruments?
• Fewer instrument operational modes?
• Telescope temperature a bit warmer?
  – Quickly lose sub-mm sensitivity if much warmer
• Cost target?
Keep in mind

• Lessons from Concept 1 will be brought to bear when we study Concept 2
• Concept 1 cost is high relative to NASA funding wedge for the next large mission
• SPICA M5 mission concept is a “third” point in solution space – we know something about science capability and science per $ for a 2.5 m cryogenic far-IR telescope

The agenda allocates time for discussion of options, and process for deciding on the BCs.