

IPSIG Telecon

April 10, 2014

Telecon Agenda

- Decadal panel recommendations + NASA's implementation plan (10 minutes)
- Input to NASA (40 minutes):
 - White paper: process, goals and scope
 - Other suggestions / discussion

Decadal Recommendation and NASA Implementation

- "In the event that insufficient funds are available to carry out the recommended program, the first priority is to develop, launch, and operate WFIRST and to implement the Explorer program and core research program recommended augmentations. The second priority is to pursue the New Worlds Technology Development Program, as recommended, to mid-decade review by a decadal survey implementation advisory committee (as discussed in Chapter 3), to start LISA as soon as possible subject to the conditions discussed above, and to invest in IXO technology development as recommended. The third priority is to pursue the CMB Technology Development Program, as recommended, to mid-decade review by a decadal survey implementation advisory committee."
- In practice: balloons and SAT (also prioritized)
- No mission study planned before mid-decade review
- NASA has charged the CAA with the responsibilities contemplated in the decadal survey for the DSIAC.
- (See Hertz's slides, particularly slide 11).

White Paper

- Goal:
 - Provide broader context to NASA
 - Are we done? Are there more measurements to be carried out? What are the deliverables from these measurements? What are the most suitable platforms? What are the anticipated limitations of the platforms?
 - Give input regarding future emphases
 - Technology development, suborbital missions, planning for orbital mission
 - Discuss the relevant time scales for measurements, for technology development, for planning an orbital mission
- Format: White paper
 - 2-4 pages; 1 month
 - White paper goes to PhysPAG-EC, then to Astrophysics Subcommittee

White Paper - Outline

- The scientific implications of the BICEP2 result and what else can/should be learned by future CMB polarimetric observations
- Anticipated timeline of subsequent measurements
 - verification / confirmation (near term)
 - follow-up measurements (mid and long term, including the role of ground, balloons, satellite)
- Space Measurement Opportunities Worldwide
 - NASA (explorer, probe)
 - ESA(M4)
 - JAXA
- Synergy with CMB-S4
- Recommendations