

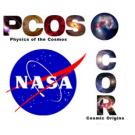
Gravitational Waves Architecting Study Workshop

Study Overview

Ken Anderson (Study Manager)

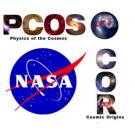
December 20, 2011 1

Logistics



- Very tight agenda for the next two days
 - Requires strict adherence to time limits by all parties
- Update to agenda: CST caucus Wednesday starting at 1:00; open discussion will follow
- Dinner reservations for tonight at G & M restaurant
 - 804 Hammonds Ferry Road, Linthicum Heights
 - Maps and sign up sheet at the registration table
 - Strongly encourage carpooling as parking is limited and towing is enforced
- If you did not pre-purchase lunch tickets, you can still purchase a ticket from the cafeteria
 - Do so during the break to save time during lunch
 - Lunch lines can be long

Study Objectives



Objectives (as stated by PCOS office)

- Determine the range of science objectives of LISA that can be achieved at a variety of lower cost points
- Explore mission architectures and technical solutions that are fundamentally different from the heritage designs
- Fully engage the community and ensure that all voices are heard, all perspectives considered
- Create data for a report to the CAA that describes options for science return at multiple cost points for Gravitational Wave astronomy

Deliver final report to NASA HQ that

- Describes and analyzes trade space of science return vs. mission cost
- Summarizes the mission concepts developed during the study and how they relate to the trade space and other mission concepts that were not developed in a design lab
- Summarizes the RFI responses and the workshop and describes how they were folded into the whole study

Workshop Objectives



- Provide the science community an opportunity to comment on and shape the missions that will be developed in design labs, and provide a forum for discussion and exchanging information between the CST, study team and the community
- The basis for discussion and selection of concepts for further study is the degree of compliance with LISA objectives, as endorsed by NWNH
- We are **NOT** revisiting decadal survey decisions regarding science questions or mission priorities
- The workshop is **NOT** selecting candidate missions
 - Selection by the workshop does not indicate the mission will happen, nor does nonselection imply the mission will not happen
 - We are studying representative missions for the various cost classes. The goal is to assess the fraction of LISA science that can be performed vs. mission cost. There are no winning or losing concepts.
- Goal is to select missions that cover as much of trade space (cost, science return, technology, measurement approach, etc.) as possible
- Selected missions will then be further defined by the Team X organization at JPL
- No recommendation for a specific mission or a preferred cost class will be given in the final report





Schedule

