

## **Lynx High-Definition X-ray Imager Group Objectives and Plans**

Group Leaders: Abe Falcone and Ralph Kraft

1. Work with the Lynx Science and Technology Definition Team (STDT) to establish baseline instrument and science requirements.
2. HDXI group to identify and describe basic trades to STDT.
3. Clarify future research/technical development path for both sensor and drive/readout electronics. This will depend to the science requirements sent down by STDT.
4. Aggressively work with NASA (HQ and Physics of the Cosmos program office) to ensure that our technology needs and funding requirements are well-known and met, so that any current gaps in HDXI technology are filled.
5. Participate in costing/mission design exercises that the STDT does with the NASA/MSFC Advanced Concepts Office (ACO). Advise ACO on realism of instrument cost models being used.
6. Define TRL of all key components and determine what it would take to get everything to TRL 5 before 2020 Decadal. Develop comprehensive technology development plan to get to TRL 6 by Lynx PDR.
7. Determine the level of external engineering support is required for various HDXI studies and identify sources for same.