

X-ray Surveyor

Science Instrument Working Group

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Caveat

The IWG is very, very young.

Almost everything about it is preliminary.

IWG Goal

Support the STDT
in defining science instruments that make for
the most compelling executable mission.

Notional Instrument Complement

(with notional names & acronyms)

- X-ray Micro-calorimeter Imaging Spectrometer (XMIS)
- High-Defintion X-ray Imager (HDXI)
- X-ray Grating Spectrometer (XGS)
- And, perhaps, instrument accomodation

Principles

- Science is primary; technology is a means to that end
- Openness:
 - To participation by members of the academic, research, industrial and government communities
 - To expert advice where required
- Co-operation:
 - Within the instrument community; no down-selection, full objectivity in comparing
- Collaboration with the OWG and Study Office

Tasks (TBR)

- Translate STDT science requirements into instrument requirements
 - Develop “complexity metrics” required to permit STDT trades (as mandated by study management plan)
- Support response function development
- Evaluate technology readiness & prepare technology maturation plans
- (Perhaps) support instrument accommodation trades

Leadership & Structure

- IWG reports to STDT
- An STDT member serves as IWG chair (mwb)
- A pair of co-leads for each notional instrument:
 - HDXI: Abe Falcone (PSU) & Ralph Kraft (SAO)
 - XGS: Ralf Heilmann (MIT) & Randy McEntaffer (PSU)
 - XMIS: Simon Bandler (GSFC) & TBA
- Participation open to community

Status

- First draft charter in review
- All but one of the instrument co-leads signed
- Plans
 - Complete the leadership team
 - Initial telecon immediately
 - Converge on charter
 - Make plans