eXTP Mission Design Coordination Meeting

Agenda

March 21, 2017

09:45 – 10:15 Get together and Welcome Tea and Coffee

Morning session (Chaired by Zhang S-N)

Opening

10:15 – 10:20 Welcome and Official Opening (Chen G., 5’)

10:20 – 10:30 Opening remarks by CNSA/CAS/CAST officials

10:30 – 10:35 Goals of the meeting (Zhang S-N., 5’)

10:35 – 10:45 Progress and status of the mission in China (Zhang S-N., 10’)

10:45 – 10:55 group photo

Introductory Session: status and baseline of the eXTP mission

10:55 – 11:00 logistics information (Liu H.W. 5’)

11:00 – 11:25 Overview of the science activities and requirements (A. Santangelo, Zhang S., 25’) {just a brief summary of the science activities including a discussion concerning the increased polarimetry area and the soft polarimetry response.}

11:25 – 11:55 Configuration of the mission (Xu Y.P., 30’) {the overall configuration of the mission will be presented, together with the relevant budgets (mass, power, telemetry) and open points for the spacecraft and the science payload. Also the key points to be discussed in the meeting should be summarized. The technical impacts of the major changes of the mission shall be discussed. The high level schedule should be presented}

11:55 – 12:05 Discussion (All, 10’)

12:05 13:15 Lunch Box
The SFA
(Chaired by Chen Y.)

13:15 – 13:35 **Overview of the SFA** (Chen Y., 20') {An overview of the current configuration of the SFA, a summary of the elements, and of the open points}

13:35 – 13:55 **Optics: The Tongji solution** (Huang Q.S., 20') {current status of the optics, with emphasis on the performance, current design, TRL, schedule and plans for production and testing.}

13:55 – 14.15 **Optics: the Media Lario solution** (G. Pareschi, 20') {current status of the optics, with emphasis on the performance, current design, TRL, schedule and plans for production and testing.}

14.15 – 14:45 **Questions and discussions on the optics** (All, 30') {Technology and programmatic aspects should be discussed in order to choose a baseline.}

14:45 – 15:00 Coffee and Tea Break

15:00 – 15:15 **The SFA focal plane: detector, electronics, and assembly, and integration** (Cui W.W., 15') {current status of the detector, ASICS, Digital electronics with emphasis on the performance, design, schedule and plans for production.}

15:15 – 15:30 **Data handling, timing and power distribution scheme** (Wen X.Y., 15')

15:30 – 15:50 **Testing, and calibration** (Wang Y. S., 20') {current plans and facilities needed.}

15:50 – 16:00 **The SFA product tree** (Chen Y., 10') {A first quick summary presentation.}

The LAD
(Chaired by M. Feroci)

16:00 – 16:20 **Overview of the LAD** (M. Feroci, S. Zane, 20') {an overview of the current configuration of the LAD, a summary of the elements, and of the open points}

16:20 – 16:35 **The potential Czech contribution to the LAD** (J. Svoboda, 15')

16:35 – 16:55 **The collimator** (M. Feroci & Sun Z., 30') {a summary for the different options, including performance, production and programmatic aspects}
16:55 – 17:05 Thermal filter (Chen T.X., 15’)

17:05 – 17:35 Detector and Electronics (Y. Evangelista, C. Tenzer, S. Schanne 30’) {a summary of the current design, including a discussion on potential problems related to ITAR, Including ICU, Power supply.}

17:35 – 17:50 Assembly, Integration and Testing, and calibration (TBD, 15’) {current plans, facilities needed.}

17:50 – 18:00 The LAD product tree (M. Feroci 10’) {A first quick summary presentation.}

18:00 Dinner (Expert restaurant)

March 22, 2016

The WFM

(Chaired by S. Brandt/M. Hernanz)

09:00 – 10:30 Overview of the WFM + Discussion + Product tree (Hernanz, 90’) {An overview of the design, readiness, ITAR, AIVT and calibration, and programmatic for the following subsystems: Mask, Collimators (Hernanz), Detectors & FEE (Evangelista), ASICS (Schanne), BEE (Tenzer), HVPS (Orleanski), ICU (Orleansk, Brandt), onboard Trigger system (Schanne).}

10:30 – 10:40 Coffee and Tea Break

The PFA

(Chaired by Feng H.)

10:40 – 10:55: Overview of the PFA (Feng H., 15’) {an overview of the current configuration of the PFA, a summary of the elements, and of the open points. Optics will be presented here.}

10:55 – 11:20 The PFA focal plane (Jiang W.C., 25’) {current status of the focal plane.}

11:20 – 11:35 Digital Electronics (C. Tenzer, 15’) {Design and ITAR problems, heritage from XIPE.}

11:35 – 11:55 The soft X-ray polarimeter (H. Marshall, 20’) {Design, performance etc… including technical and programmatic impacts of adding a soft-Xray polarimeter}
11:55 – 12:05 **The PFA product tree** (TBD, 10’) {A first quick summary presentation.}

12:05 – 12:15 **Discussion on the PFA** (All, 10’) {should we change the baseline? To which direction?>

12:15 – 13:15 Lunch

**Afternoon session:**

Science Operation (Chaired by E. Bozzo)

13:15 – 13:40 **Science Operation and Data Center(s)** (Ge M.Y., 25’)

13:40– 14:00 **Science Operation and Data Center(s): Heritage and perspectives from/for Europe** (Bozzo E., 20’)

14:00– 14:15 **Discussion and Wrap up on Science and Data Center** (ALL, 15’)

**System engineering, programmatic. launcher (CAST/IHEP) (Chaired by Xu Y.P.)**

14:15 – 15:00 **Preliminary design of the eXTP satellite** (Hong B. from CAST, 45’)

15:00 – 15:20 Coffee and Tea Break

15:20 – 17:30 **Round table discussion on accommodation, thermal control, and other interface issues of LAD and WFM; Discussion on the accommodation of the Soft X-ray polarimeter** (Room A415, coordinated by Zhang L.)

17:30 Supper Box

**March 23, 2016**

**Management and programmatic discussion.**

**Chaired by (A. Santangelo)**

09:15 – 10:00 **Discussions and definition of the eXTP Baseline** (Xu Y.P., 45’)

10:00 – 10:30 **European consortium contribution and strategy** (M. Feroci, 30’
10:30-10:45 Coffee and Tea Break

10:45 – 11:15 Status in the member states (European representatives, 30’)

11:30 – 12:15 Discussions and baseline of the product tree (Xu Y.P., ALL, 45’)

12:15 - 13:15 Lunch

Afternoon session (Chaired by LU F. J.)

13:15 – 13:45 Management structure of the Consortium, Definition of various working group (Lu. F.J., ALL, 30’)

13:45 – 14:15 Policy on data sharing (ALL, 30’)

14:15 – 14:30 Coffee and Tea Break

14:30 – 15:00 Review of the decisions, and of actions (A. Santangelo, 30’)

15:00 – 15:30 Wrap-up of the meeting and final remarks (Zhang S.N., 30’)

Location IHEP, Beijing