

MONDAY PLENARY

Programme outline (times in CEST)

Monday – 08:00-13:00 plenary

08:00-08:45

Opening by Peter (30min + 15min)

- General summary of activities since January 2020
- Mission concept: Observatory vs. Survey-type
- Yellow Book
- Goals for this meeting
- “Conference photo”: all participants should switch on their videos for this so that a number of screenshots can be taken

08:45-09:45

Current mission status from ESA and JAXA

– 08:45-09:15

ESA (Jacques) (20 min + 10 min)

– 09:15-09:45

JAXA (Toru) (20 min + 10 min) *Note: Toru not available 10-12 CEST* BREAK

10:00-11:30

Current understanding of instrument capabilities, specifically highlighting any changes since March affecting science goals (each 20min + 10min)

– 10:00-10:30

SAFARI (Peter, also on behalf of SAFARI systems team)

– 10:30-11:00

SMI (Hidehiro or Takehiko)

– 11:00-11:30

B-BOP (Marc) BREAK

11:45-13:00

Q&A session with towards “panel” of any speaker or towards instrument experts on any topic presented during Monday’s plenary or otherwise. To be chaired by Peter.

13:00 *End of Monday*

TUESDAY SPLINTERS

Tuesday – 08:00–13:00 splinters for Galaxy Evolution, Physics of Galaxies, Planet-forming systems

1. **08:00 – 09:45** Galaxy Evolution // Physics of Galaxies // Planet-forming systems BREAK (*Note: Planet-forming systems will have slightly different break times*)

2. **10:00 – 11:30** Galaxy Evolution // Physics of Galaxies // Planet-forming systems BREAK

3. **11:45 – 13:00** Galaxy Evolution + Physics of Galaxies // Planet-forming systems **13:00** *End of Tuesday*

Splinter Agendas

[Galaxy Evolution Splinter](#)

[Physics of Galaxies Splinter](#)

[Planet-forming systems](#)

GALAXY EVOLUTION

Tuesday 15 September

Introduction and outline of the meeting

8:00 – 8:30 D. Elbaz, L. Spinoglio, T. Nagao and K. Kohno

Gaining the full 3D perspective on Star Formation and Black Hole accretion

[C. Gruppioni & G. Rodighiero]

8:30 – 9:00 Descopeing the spectrophotometric surveys: a revision of the reference program. 9:00 – 9:45

Impact of the loss of SMI-CAM and SMI-LR ability to replace SMI-CAM for imaging.

9:45 – 10:00 Break

10:00 – 10:30 YB revision, figure updates.

Establishing the role of obscured BH-growth in the evolution of galaxies

[F. Pozzi, C. Vignali]

10:30 – 11:00 Synergies Athena/SPICA without SMI-CAM. What can be recovered using SMI-LR as an imager?

11:00 – 11:30 Yellow book updates, changes in figures.

11:30 – 11:45 Break

The origin and evolution of large-scale coherent magnetic fields in galaxies

[M. Bethermin]

11:45 – 12:10 Is a B-BOP polarimetric only survey useful/feasible? Possible implementation. 12:10 –

12:30 YB revision. Shall we group all polarization science in a separate section to strengthen the originality of this aspect of SPICA?

White papers, how are they affected by the descope?

12:30 – 13:00 L. Barchiesi, L. Bisigello, L. Ciesla, J.A. Fernández-Ontiveros, ...

PHYSICS OF GALAXIES

Tuesday 15 September

08:00 Overview of the program and goals of this meeting (Floris)

08:15 WP1: Feedback & quenching (Tanio, Eduardo)

08:45 WP2: Low metallicity (Vianney)

09:15 WP3: HD (Hidehiro -> Floris)

09:45 Break

10:00 WP4: Extraplanar gas (Alberto -> Annie)

10:30 WP5: Dust (Fred, Mikako)

11:00 WP6: B-fields (Rosita)

11:30 Break

11:45 Discussion: How to descope to a 1.8m mirror

13:00 End

PLANET-FORMING SYSTEMS

Tuesday 15 September

8:00 – 8:15 – update from SST/questions by WG on new situation

8:15 – 10:00 – short presentations from each “survey” of the core program (10+10 each, leave time for discussions)

- – Mineralogy survey (Mitsuhiko)
- – HD survey/water survey/CO ladder (Pablo) – Snowline survey (Hideko)
- – Mass loss survey (Brunella)
- – Isolated Debris disks gas/ice survey (Mark)

10:00 – 10:20 – coffee break (we could set up breakout rooms for smaller discussion)

10:20 – 11:00 – questions to SMI (Ishihara-san) and SAFARI (Willem Jellema) experts 11:00 – 12:00 – strategy for the YB (changes in core program, key science?)

12:00 – 12:20 – short break (we could set up breakout rooms for smaller discussion) 12:20 – 13:00 – work plan for coming 3 months

WEDNESDAY SPLINTERS

Wednesday – 08:00–13:00 splinters for Galaxy Evolution, Physics of Galaxies, ISM and SF

1. 08:00 – 09:45 Galaxy Evolution + Physics of Galaxies // ISM and SF BREAK
2. 10:00 – 11:30 Galaxy Evolution // Physics of Galaxies + ISM and SF BREAK
3. 11:45 – 13:00 Galaxy Evolution // Physics of Galaxies // ISM and SF 13:00 *End of Wednesday*

Agendas

[Galaxy Evolution-2](#)

[Physics of Galaxies-2](#)

[ISM and Star Formation](#)

GALAXY EVOLUTION -2

Joint Galaxy Evolution / Physics of Galaxies session

8:00 – 8:45

Characterising the feedback mechanisms that quench Star Formation

[E. González-Alfonso & M. Pereira-Santaella]

8:45 – 9:00 How the FTS program will be implemented?

9:00 – 9:30 YB revision.

Tracing the build-up of Heavy Elements over the last 10 Gyr

[J.A. Fernández-Ontiveros]

9:30 – 10:00 How the spectroscopic survey will cover chemical evolution. 10:00 – 10:15 YB revision.

10:15 – 10:30 Break

Following dust evolution from reionization to the present-day Universe

[S. Gallerani & E. Egami]

10:30 – 10:45 A revision of the core program. Is high z still on reach?

10:45 – 11:00 Lensed galaxies, possible implementation.

11:00 – 11:30 YB revision.

11:30 – 11:45 Break

Open discussion

11:45 – 12:30

Summary

12:30 – 13:00 D. Elbaz, L. Spinoglio, T. Nagao and K. Kohno

PHYSICS OF GALAXIES 2

Wednesday 16 September

08:00 Recap yesterday's achievements

Joint sessions with other programs (in any order):

08:15 galEvol (focus on magnetic fields)

08:45 ISM/SF (B-fields + dust evolution)

09:45 Break

Discussion with instrument teams (can be joint with other programs):

10:00 SAFARI

10:30 SMI

11:00 BBOP

11:30 Break

11:45 Discussion (standalone / joint)

13:00 End

ISM/SF WG

16 September (Wednesday)

08:00 General Introduction

- – Overview of impact of the new telescope design (Takashi Onaka)
- – Wide area survey (Sylvain Bontemps)

09:00 **Joint discussion with Physics of Galaxies on magnetic fields and dust physics**

- – Preparation of the YB

10:00 Break

10:20 Revised observing program

- 10:20 Filament observations in nearby clouds (Philippe André)
- 10:40 Observations of massive filaments (Sergio Molinari/Davide Elia)
- 11:00 Intermittency (Pierre Lesaffre/Francois Boulanger)
- 11:20 YSO spectroscopy (Brunnela Nisini)

11:40 Break

12:00 Discussion on prioritization of the programs and YB preparation

13:00 End

THURSDAY PLENARY

Thursday – 08:00–13:00 plenary

08:00-10:00

30 min per WG = 15 min presentation on concrete actions and tasks for coming weeks as discussed and agreed during the meeting + 15 min discussion

– 08:00-08:30

Galaxy Evolution (David, Kotaro, Luigi, Tohru)

– 08:30-09:00

Physics of Galaxies (Floris, Hidehiro*, Marc, Jesus**)

– 09:00-09:30

ISM and Star Formation (Takashi, Marc, Matt)

– 09:30-10:00

Planet-forming systems (Inga, Mitsuhiko, Hideko)

* Hidehiro not available on 17 September ** Jesus not available on 15-17 September

BREAK

10:15-11:30

Discussion on science balance between key areas + mission concept (Observatory, core/reference programme approach) – to be led by Peter

BREAK

11:45-13:00

General Q&A (questions that couldn't be answered on the spot during "scheduled slots with instrument experts" can also be addressed here) – to be led by Peter

13:00 *End of Thursday*