

# SPICA collaboration meeting program

Saclay - Monday 28<sup>th</sup> October



	09:00 - 09:00	0:00	Entry - CEA	
IC-1	09:00 - 10:30	1:30	Pedro Garcia-Lario	SPICA ground segment meeting
IB-1	10:30 - 12:30	2:00	Qinquelateral- ESA, JAXA, SAFARI, B-BOP	Collaboration organization Phase A planning, milestones, inputs Path to TRL 5, required maturity levels Technical issues/priorities
	12:30 - 13:15	0:45	<b>Lunch</b>	
	13:00 - 13:15	0:15	Entry - INSTN	
IA-1	13:15 - 13:20	0:05	Peter Roelfsema	Opening - logistics
IA-2	13:20 - 13:30	0:10	Peter Roelfsema	<b>The SPICA collaboration</b> - aims of this meeting
IA-3	13:30 - 14:00	0:30	Peter Roelfsema	Collaboration overview - context/status/progress Programmatic context - ESA, JAXA, instrument consortia SPICA and its instruments The SPICA Yellow Book SPICA SST - progress and plans, towards the Yellow Book Outlook/timeline
IA-4	14:00 - 14:15	0:15	Astrid Heske	ESA project - outlook, plans, timeline
IA-5	14:15 - 14:30	0:15	Toru Yamada	SPICA status in Japan
IA-6	14:30 - 15:15	0:45	ESA/JAXA	SPICA - mission configuration, development progress and plans Satellite Cooling system FPI configuration
	15:15 - 15:30	0:15	<b>Coffee/Tea</b>	
			<b>Instruments - overview</b>	consortium status, instrument concept and projected performance
IA-7	15:30 - 15:50	0:20	Roelfsema/Jellema	SAFARI
IA-8	15:50 - 16:10	0:20	Naoki Isobe	SMI
IA-9	16:10 - 16:30	0:20	Marc Sauvage	B-BOP
IA-10	16:30 - 16:50	0:20	Pedro Garcia-Lario	Mission operations
	<i>End of plenary session</i>			
IB-1	17:00 - 18:30	1:30		Heads of Nation meeting

Main hall (Amphit�atre)
Cassini room - Astrophysics Dept. ground floor
Kepler room - Astrophysics Dept. second floor
Room B2
Room B4
Room A3

	09:15 - 09:30	0:15	Entry	
			<b>Planet forming systems</b>	
	09:30 - 13:00	3:30	Honda/Kamp/Nomura	
IIC-1				Short update from the SST
IIC-2				White papers status report
IIC-3				Yellow Book - our section: "Unraveling the physical conditions for planet formation"
				- what are the key questions SPICA will solve for planetary systems?
				- do we miss important science?
				- timeline of the yellow book process
				- identify work required to support yellow book and WG members who >> will do it
				- identify high level figures to be made
				- identify potential "Nature/Science" results
IIC-4				Design of the reference mission
				- which observing strategies for the various science cases
				- target selection
				- synergies among science cases
IIC-5				Next steps/management of the process towards ESA down selection
			<b>Galaxy evolution Work Group I</b>	
	09:30 - 13:00	3:30	Elbaz/Kohno/Nagao/Spignolio	
IIB-1		0:10		Introduction
				Brief reports from the WP coordinators:
				a) illustrating the 4 points:
				1- a few key questions related to their WP, with one major question and up to 3 secondary questions
				2- the use of survey and follow-up data to address these key questions
				3- identify the key role of SPICA
				4- identify the information from other sources, its complementarity with SPICA and what makes SPICA the critical missing piece.
IIB-2		0:10	Alberto Franceschini/Georgios M	WP1 - AGN/SB Coevolution
IIB-3		0:10	Miguel Pereira-Santaella	WP2 - Feedback and Feeding
IIB-4		0:10	Juan Antonio Fernandez-Ontiverc	WP3 - Chemical and Dust Evolution
IIB-5		0:10	Pablo Perez-Gonzalez/Carlotta G	WP4 - Cosmic Star Formation History
IIB-6		0:10	Giulia Rodighiero	WP5 - Clustering: Environment & Protoclusters
IIB-7		0:10	Simona Gallerani	WP6 - High-z galaxies and quasars
IIB-8		0:10	Matthieu Bethermin (TBC)/Franc	WP7 - Galaxy Polarization
IIB-9		0:10	TBD	WP8 - Dark Matter & Clustering
				Brief reports from the TWP coordinators:
				b) illustrating the workplan, the methods of the adopted approach and expected results of the synergies.
IIB-10		0:10	Carlotta Gruppioni / Laura Bisigel	TWP1 - Modeling for SPICA
IIB-11		0:10	Francesca Pozzi	TWP2 - Athena/X-ray synergies
IIB-12		0:10	Carlotta Gruppioni (TBC)	TWP3 - ALMA/submm synergies
IIB-13		0:10	Pablo Perez-Gonzalez	TWP4 - JWST synergies
IIB-14		0:10	Dave Clements	TWP6 - SKA/radio synergies
IIB-15		0:10	Stephen Sergeant	TWP7 - Euclid synergies
IIB-16		1:00	All	Splinters among various WPs, e.g.: (WP1+WP2+WP3), (WP4+WP5), to be organised on the spot.
			<b>SAFARI</b>	
IIA-1	09:30 - 10:55	1:05	Willem Jellema (lead)	SAFARI system level

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I/A-2		0:30	Willem	SAFARI - instrument concept, trade-offs and projected performance
I/A-3		0:20	Russ	SAFARI Observing modes, observation simulator, time estimator
I/A-4		0:15	Luc	System budgets and interfaces
I/A-5	10:55 - 11:45	0:50	Willem Jellema (lead)	SAFARI disciplines
I/A-6		0:20	David Arrazola	Optical
I/A-7		0:15	Josefina Torres	FPU mechanical incl GM
I/A-8		0:15	Sylvain Martin	Thermal
I/A-9	11:45 - 12:00	0:15	<b>Coffee/Tea</b>	
I/A-10	12:00 - 12:30	0:30	Willem Jellema (lead)	SAFARI disciplines - subsystems
I/A-11		0:15	Dennis van Loon	Electrical
I/A-12		0:15	David Naylor	FTSM
			<b>SAFARI/B-BOP - common aspects</b>	
I/A-13	12:30 - 12:50	0:20	Lionel Duband   - TBD others	mK Coolers
	13:00 - 14:00	1:00	<b>Lunch</b>	

Main hall (Amphit�atre)
Room B2
Room B4
Room A3

	13:00 - 14:00	1:00	<b>Lunch</b>	
			<b>ISM and Star formation Work Group</b>	
		3:35	Griffin/Onaka/Sauvage	
IIC-6	14:00 - 14:15	0:15	Takashi Onaka	Goal of this meeting and the schedule of the Yellow Book preparation (T. Onaka) Updates of the major science cases
IIC-7	14:15 - 14:30	0:15	Philippe André	Magnetic fields and star formation in filamentary clouds
IIC-8	14:30 - 14:45	0:15	Doris Arzoumanian/Sylvain Bontemps	Energy dissipation and large structures of magnetic fields in the ISM
IIC-9	14:45 - 15:00	0:15	Brunella Nisini	Low-mass pre and proto-stellar sources
IIC-10	15:00 - 15:15	0:15	Sergio Molinari/Davide Elia	Magnetic fields in intermediate/high-mass star formation
	15:15 - 15:35	0:20		Break
IIC-11	15:35 - 17:35	2:00	All	Discussion Identify the major questions in the ISM/SF with SPICA Identify the leads of sub-groups Identify the tasks for the YB preparation
			<b>Solar system/Exo planet Work Group</b>	
IIB-2	14:00 - 17:30	3:30	Griffin/Nomura/Roelfsema	Introduction - SST update - SPICA Yellow Book context - SSEPWG subgroups and membership Mission constraints and solar system/exoplanet observation requirements Solar system programme status and plans Exoplanet programme status and plans Future telecons
IIB-2				
IIB-3				
IIB-4				
IIB-5				
			<b>SAFARI</b>	
IIA-14	14:00 - 15:00	1:00	Willem Jellema (lead)	SAFARI disciplines - subsystems (cont.)
IIA-15		0:15	Ming-Jye Wang	CSA
IIA-16		0:15	Oliver Krause	BSM
IIA-17		0:15	Anna di Giorgio	ICU
IIA-18		0:15	Willem Jellema	Forward plan
IIA-19	15:00 - 17:00	2:00	Gert de Lange (lead)	Detector system
IIA-20		0:20	Gert de Lange	Introduction
IIA-21		0:20	Matt Bradford	Progress at JPL
IIA-22		0:30	Peter Ade, Stafford Withington	Progress in UK
IIA-23		0:20	Pourya Khosropanah	SRON FDM development
IIA-24		0:30	Gert de Lange	Forward plan Detector System
			<b>SAFARI plans</b>	
IIA-25	17:00 - 17:20	0:20	Pieter Dieleman	Project planning and organization Timeline long term - phase A/B/C Timeline near term - reference design/phase 0 Organization Management plan, development plans, design description

*End of plenary session*

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19:00 - 19:30      0:30      Social event entry with drinks  
19:30 - 22:00      2:30      Dinner

Main hall (Amphit�atre)
Room B
Room B
Room A

	09:15 - 09:30	0:15	Entry	
	09:30 - 13:00	3:30	<b>B-BOP</b> Marc Sauvage	<b>B-BOP system/subsystem - technical progress and plans</b>
IIIA-1			Marc Sauvage / Jérôme Martignac	Brief status of the instrument: technical and collaboration
IIIA-2			Obaid Adami	Simulations of the pixel
IIIA-3			Olivier Gevin	Principles of the readout circuit
IIIA-4			Laurent Dussopt	Detector manufacturing at LETI
IIIA-5			Camille Gennet / Xavier-Francois Na	Test Cryostat, status and planned use
IIIA-6			Pierre Antoine Frugier / Didier Dubr	The optics of B-BOP and polarisation metrics
IIIA-7			Marc Sauvage / Vincent Reveret	The time estimator of B-BOP, parameters of the observing mode (s)
IIIA-8			Marc Sauvage	Parallel observations between B-BOP and SMI, interests and constraints
			<b>Galaxy evolution Work Group II</b>	
	09:30 - 12:50	3:20	Elbaz/Kohno/Nagao/Spignolio	
IIIB-1		2:00	All	Splinters - cont. Brief reports/conclusions from the TWP/WP coordinators:
IIIB-2		0:05	Stephen Sergeant	TWP7 - Euclid synergies
IIIB-3		0:05	Dave Clements	TWP6 - SKA/radio synergies
IIIB-4		0:05	Pablo Perez-Gonzalez	TWP4 - JWST synergies
IIIB-5		0:05	Carlotta Gruppioni (TBC)	TWP3 - ALMA/submm synergies
IIIB-6		0:05	Francesca Pozzi	TWP2 - Athena/X-ray synergies
IIIB-7		0:05	Carlotta Gruppioni / Laura Bisigell	TWP1 - Modeling for SPICA
IIIB-8		0:05	TBD	WP8 - Dark Matter & Clustering
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IIIB-13		0:05	Juan Antonio Fernandez-Ontiverc	WP3 - Chemical and Dust Evolution
IIIB-14		0:05	Miguel Pereira-Santaella	WP2 - Feedback and Feeding
IIIB-15		0:15		Conclusions
			<b>Nearby Galaxies Work Group</b>	
IIIC-1	09:30 - 13:00	3:30	Madden (/Kaneda/Martin-Pintado/Sauvage)	
IIIC-2				General introduction. Towards the Yellow Book and what we need to do
IIIC-3				Key science questions for SPICA in nearby galaxies.
IIIC-4				Star formation - Activity - Feedback in galaxies - Low metallicity.
IIIC-5				Interstellar matter reservoirs of galaxies
IIIC-6				Diffuse gas in galaxies
IIIC-7				The origin and evolution of dust in galaxies
IIIC-8				Magnetic fields in galaxies
IIIC-9				What we said in the M5 proposal and the White paper
IIIC-10				Towards the observing core program
IIIC-11				Work to be done, organization and schedule
	13:00 - 14:00	1:00	<b>Lunch</b>	
Main hall (Amphit�atre)				
Room B				
Room B				
Room A				

# SPICA collaboration meeting program

Saclay - Wednesday 30<sup>th</sup> October



	13:00 - 14:00	1:00	<b>Lunch</b>	
			<b>Closing session - plenary</b>	
IIIA-2	14:00 - 14:35	0:35	<b>Splinter outcome/summaries</b>	
		0:05	Pieter Dieleman	SAFARI
		0:05	Marc Sauvage	B-BOP
		0:05	Marc Audard/Pedro Garcia-Lario	Ground segment
		0:05	Honda/Kamp/Nomura	Planet forming systems
		0:05	Elbaz/Kohnno/Nagao/Spignolio	Galaxy evolution Work Group
		0:05	Griffin/Nomura/Roelfsema	Solar system/Exo planet Work Group
		0:05	Kaneda/Martin-Pintado/Sauvage	Nearby Galaxies Work Group
IIIA-3	14:35 - 14:50	0:15	Peter Roelfsema	Heads of Nation feedback
IIIA-4	14:50 - 15:00	0:10	Peter Roelfsema	Closing remarks and outlook
	15:00 - 15:15	0:15	<b>Coffee/Tea</b>	
			<i>Plenary meeting adjourns</i>	
			<b>SPICA operations</b>	
IIIA-1	15:15 - 16:45	1:30	Marc Audard/Pedro Garcia-Lario	ICC's, mission operations development
			<b>TBD splinter meetings</b>	
IIIB-1	15:15 - 16:45	1:30		
IIIC-1				
IIID-1				

Main hall (Amphit�atre)
Room B
Room B
Room A