

Workshop: Multi-spacecraft investigations of the inner heliosphere: Italian opportunities

Sala Cassini ASI

3-4 December 2019

First Day at 10.00

Session 1 – ESA heliophysics space missions: Italian contribution

10:00 Introduction		
10:00	ASI welcome	C. Plainaki
10.10	Introduction	Milillo, Spadaro and Plainaki
10.15	Heliophysics enabling Space Weather	M.F. Marcucci
10:30	Planetary Space Weather science possibilities in the near future	C. Plainaki
10:50 Space Mission Science for Space Weather		
10:50	BepiColombo science for Space Weather science	A. Milillo
11:20	<i>Coffee break</i>	
11:50	Solar Orbiter	D. Spadaro
12:20 Space Instrumentation concept, performances, operations and science		
12:20	Solar Orbiter/METIS	M. Romoli
12:50	Solar Orbiter/SWA	R. Bruno
13:10	Solar Orbiter/STIX	M. Piana and A.M. Massone
13:30	<i>Lunch break</i>	
14:30	BepiColombo/Mercury Planetary Orbiter/SERENA	S. Orsini
15:00	BepiColombo/Mercury Planetary Orbiter/SIMBIOSYS	G. Naletto
15:15	BepiColombo/Mercury Magnetospheric Orbiter/ MPPE-MEA	M.F. Marcucci
15:30	BepiColombo/Mercury Magnetospheric Orbiter/PWI	F. Califano
15:45	BepiColombo/Mercury Planetary Orbiter/SIXS	M. Laurensa
16:00	<i>Coffee break</i>	
16:30	BepiColombo/Mercury Planetary Orbiter/PHEBUS	M. Pelizzo
16:45	BepiColombo/Mercury Planetary Orbiter/MORE	L. Iess
17:00	Proba 3/Aspiics	S. Fineschi
17:20 Joint operation scenario (part 1)		
17:20	Overview of simultaneous operation phases BepiColombo, Solar Orbiter, PSP and Proba 3	V. Andretta
17:40	BepiColombo cruise configuration for joint investigation	A. Milillo
17:50	<i>Discussion</i>	

End of first day 18.30

Second Day at 9.00

Session 2 – Science and synergies for inner heliosphere investigations

Joint operation scenario (part 2)		
9:00	Summary of BepiColombo and Solar Orbiter exchange meeting at ESTEC	V. Mangano
9.20	SolO-Bepi observation synergy WG coordinated by ESA	A. Milillo
9:30	<i>Discussion</i>	
9:45 Solar wind and interplanetary medium science: BepiColombo and Solar Orbiter		
9:45	Connecting space remote sensing and in situ measurements of solar wind	E. Landi (invited)
10:05	Connecting solar ground-based observations and space measurements	V. Andretta (invited)
10:25	The nature and origin of quasi-periodic solar wind density fluctuations	U. Villante
10:40	Interpreting spacecraft Observations with high resolution fluid and kinetic simulations in Arcetri	S. Landi
10:55	<i>Discussion and WG definition</i>	
11:10	<i>Coffee break</i>	
11:40 Venus science: BepiColombo and Solar Orbiter flybys		
11:40	Characterizing Venus' environment during spacecraft flybys	T. Alberti
11:55	<i>Discussion and WG definition</i>	
12:10 Mercury science: BC Mercury Flybys and Solar Orbiter nominal phase, BC orbit phase and Solar Orbiter out of ecliptic		
12:10	CME and particle acceleration	A. Bemporad (invited)
12:30	Connecting exosphere ground-based observations and space measurements	V. Mangano (invited)
12:50	<i>Discussion and WG definition</i>	
13:05 Concluding remarks		

End of Workshop at 13.30