

Scientific Programme (ver. 6)			
<b>16 Maggio</b>			
	14:30 - 16:10		<b>(Chair: G. Micela)</b>
14:30 - 14:35		Giusi Micela	Welcome
14:35 - 15:10		Giovanna Tinetti	Science enabled by Ariel
15:10 - 15:40		Emanuele Pace	The Ariel Payload
15:40 - 16:10		Lorenzo Mugnai	Ariel's simulation framework
<b>16:10 - 16:40</b>	<b>Break</b>		
	16:40 - 17:50	<b>Stellar Characterization</b>	<b>(Chair: G. Scandariato)</b>
16:40 - 17:10		Laura Magrini	Stellar characterisation: current status and first scientific results
17:10 - 17:30		Maria Tsantaki	Fast rotators in the Ariel sample
17:30 - 17:50		Monica Rainer	Ground-based observations for the Stellar Characterisation WG
<b>18:15 - 20:00</b>		Drink at OAPa	
<b>17 Maggio</b>			
	09:00 - 10:20	<b>Stellar activity</b>	<b>(Chair: S. Ivanovski)</b>
09:00 - 09:20		Serena Benatti	Multiwavelength analysis
09:20 - 09:40		Jesus Maldonado	Stellar Variability across timescales
09:40 - 10:00		Antonino Petralia	Modeling of stellar surface
10:00 - 10:20		Alfredo Biagini	Deconvolution of stellar activity
<b>10:20-10:50</b>	<b>Break</b>		
	10:50 - 13:30	<b>The origin and evolution of (exo)planetary atmospheres (Chair: I. Pagano)</b>	
10:50 - 11:10		Diego Turrini	Ariel 2025 Synergy Activity: from circumstellar disks to atmospheric retrievals
11:10 - 11:30		Elenia Pacetti	Chemical diversity in protoplanetary discs and its impact on the formation history of giant planets
11:30 - 11:40		Sergio Fonte	Oxygen depletion in giant planets with different formation histories
11:40 - 12:00		Daniele Locci	Searching for signatures of X-ray induced chemistry in the spectra of exoplanetary atmospheres

12:00 - 12:20		Salvatore Colombo	Impacts of Coronal Mass Ejection on hot Jupiter atmosphere	
12:20 - 12:40		Paolo Simonetti	From the chemistry of Neptunes to the habitability of Super-Earths: the contribution of the EOS model to the Ariel mission	
12:40 - 13:00		Franz Saja	Quantum-mechanical investigation of phosphine synthesis in Venus atmosphere	
<b>13:00 - 14:30</b>	<b>Lunch</b>			
	14:30 - 16:00	<b>Next Generation Diagnostics and Ariel capabilities (Chair: L. Affer)</b>		
14:30 - 14:55		Andrea Bocchieri	Ariel Reconnaissance Survey Targets: Detection of Molecules and Promotion to Higher Tiers	
14:55 - 15:20		Cesare Cecchi Pestellini	Analytic atmospheric models	
15:20 - 16:00	<b>Discussion (1)</b>	<b>Chair: Diego Turrini</b>	Next Generation Diagnostics and Ariel capabilities	Integrazione modelli atmosferici , spi e formazione: diagnostiche di Ariel
<b>16:00 - 16:20</b>	<b>Break</b>			
	16:40 - 17:20	<b>Target selection</b>	<b>(Chair: L. Magrini)</b>	
16:20 - 16:40		Antonio Maggio	High Lx target selection	
16:40 - 17:00		Claudia Di Maio	Impact of the planetary mass uncertainty on the atmospheric retrieval of a subsample of the Ariel MRS	
	17:00 - 18:00	<b>Synergy high-low spectral resolution (Chair: L. Magrini)</b>		
17:00 - 17:20		Gloria Guilluy	On the synergy between high-resolution and low-resolution spectroscopy: where needs high-resolution to be improved?	
17:20 - 17:40		Paolo Giacobbe	Retrieval of molecular abundances and temperature-pressure profiles combining high and low-resolution transmission spectroscopy in the near-infrared.	
17:40 - 18:00		Lorenzo Pino	A new approach to high spectral resolution phase curves and its application to KELT-9b	
<b>20:00</b>		<b>Social Dinner</b>		

## 18 Maggio

18 Maggio				
		<b>Working groups and Activities (Chair: I. Pillitteri)</b>		
09:00 - 09:20		Giovanni Bruno	Study of stellar granulation with Cheops and Ariel	
09:20 - 09:40		Tiziano Zingales	Quantum Exoplanet eXplorer	
09:40 - 10:00		Luca Borsato	High Cadence Photometry WG	
10:00 - 10:20		Riccardo Claudi	Investigating the correlations between transiting system parameters and host chromospheric activity.	
<b>10:20 - 10:50</b>	<b>Break</b>			
10:50 - 13:00	<b>Discussion (2) (Chair: D. Turrini)</b>			
		Andrea Lorenzani	Stellar activity, exosim, and the protopipeline	
<b>13:00 - 14:30</b>	<b>Lunch</b>			
14:30 - 15:00		Andrea Bocchieri	ExoClock	
15:00 - 15:45		Giusi Micela	Actions and plans	piano implementativo con azioni e scadenze (breve e medio termine)
<b>15:45 - 16:15</b>	<b>Break</b>			
16:15 - 17:30	<b>Passeggiata Astronomica</b>	Itinerario astronomico nel centro di Palermo selezionato dalla guida "Palermo, seconda stella a destra" insieme agli astronomi del team EXOPA		