

Time	Talk Title	Speaker	Time	
<b>Day 1 - Tuesday 14th January 2020</b>				
08:00	Arrival / badging		01:30	
09:30	<b>Welcome, ARIEL Introduction &amp; Overview</b>		00:00	Session Chair: Carole Haswell
09:30	<i>Welcome - ARIEL in Context of ESA Science Program</i>	Günther Hasinger (ESA)	00:20	
09:50	<i>ARIEL: Mission overview and community participation</i>	Göran Pilbratt (ESA)	00:25	
10:15	<i>The ARIEL Science Case Outline</i>	Giovanna Tinetti (UCL)	00:30	
10:45	<i>ARIEL mission status</i>	Ludovic Puig (ESA)	00:20	
11:05	Coffee Break		00:30	
11:35	<i>ARIEL Payload Design Overview</i>	Paul Eccleston (RAL Space)	00:30	
12:05	<i>ARIEL Performance Modelling and Predictions of Performance</i>	Enzo Pascale (Sapienza)	00:30	
12:35	<i>The NASA CASE contribution to ARIEL</i>	Mark Swain (JPL)	00:20	
12:55	Lunch		01:00	
13:55	<b>The ARIEL Target Sample</b>		00:00	Session Chair: Göran Pilbratt
13:55	<i>The Ariel Mission Reference Sample Target List</i>	Billy Edwards (UCL)	00:15	
14:10	<i>Results from ALFNOR population study</i>	Lorenzo Mugnai (Sapienza)	00:15	
14:25	<i>Characterisation of ARIEL host stars</i>	Camilla Danielski (CEA)	00:15	
14:40	<i>Exoplanet phase-curves with ARIEL</i>	Benjamin Charnay (LESIA)	00:15	
14:55	<i>Colour-Magnitude Diagrams of Transiting Exoplanets 3: A new tool for the community</i>	Georgina Dransfield (U. Birmingham)	00:15	
15:10	<i>Exploiting the transit timing capability of ARIEL high-precision photometry</i>	Luca Borsato (U. Padova)	00:15	
15:25	Coffee Break		00:30	
15:55	<b>Missions and surveys delivering ARIEL targets</b>		00:00	Session Chair: Giusi Micela
15:55	<i>PLATO Summary</i>	Heike Rauer (DLR)	00:20	
16:15	<i>Summary of Ground Based Surveys</i>	Don Pollacco (U. Warwick)	00:20	
16:35	<i>Synergies between radial velocities and the ARIEL mission</i>	Alexandre Santerne (LAM)	00:20	
16:55	<i>Which planets have atmospheres: the role of photo-evaporation</i>	Vincent Van Eylen (MSSL)	00:15	
17:10	<i>Synergies between ARIEL and ESPRESSO</i>	Maria Rosa Zapatero Osorio (CAB)	00:15	
17:25	<i>MuSCAT1/2/3: Global Multi-Color Photometric Monitoring Network for Exoplanetary Transits</i>	Norio Narita (U. Tokyo)	00:15	
17:40	<b>Poster Previews &amp; Lightning Talks</b>		00:50	
18:30	Drinks & Poster Reception		01:00	
19:30	End of Day 1 - Buses to Noordwijk			

## Day 2 - Weds 15th January 2020

09:00	<b>ARIEL Instrumental Capabilities &amp; Data</b>		00	Session Chair: Rachel Drummond
09:00	<i>ARIEL Telescope Assembly Design Overview</i>	Emanuele Pace (INAF)	00:20	
09:20	<i>AIRS: The ARIEL InfraRed Spectrometer</i>	Jérôme Amiaux (CEA)	00:20	
09:40	<i>The ARIEL Fine Guidance System (FGS), Photometer &amp; NIRSpec</i>	Mirosław Rataj (CBK)	00:20	
10:00	<i>The ARIEL Science Ground Segment and the Instrument Operations and Science Data Centre: Data Flow and Science Products</i>	Pino Malaguti (INAF)/ Chris Pearson (RAL)	00:20	
10:20	<i>ARIEL target scheduling</i>	J.C. Morales (ICE-SIC); Aymeric Walker-Deemin (CNES)	00:20	
10:40	Coffee Break		00:30	
11:10	<b>Discs &amp; Planet Formation</b>		00:00	Session Chair: Michiel Min
11:10	<i>Diagnosing planet formation with elemental ratios</i>	Mihkel Kama (U. Cambridge)	00:15	
11:25	<i>Linking exoplanet statistics with giant planet formation</i>	Olja Panic (U. Leeds)	00:15	
11:40	<i>ARIEL: decoding the secrets of planetary formation</i>	Diego Turrini (INAF-IAPS)	00:20	
12:00	<i>State of the art of planet formation models</i>	Shigeru Ida (ELSI, Tokyo)	00:20	
12:20	<i>Inside-Out Planet Formation and ARIEL</i>	Jonathan Tan (U. Chalmers-U. Virginia)	00:15	
12:35	<i>Planetary systems in stellar clusters - a lesson from Planet Nine?</i>	Hans Rickman (CBK)	00:15	
12:50	<i>Planet formation and composition around low-mass stars</i>	Yamila Miguel (U. Leiden)	00:15	
13:05	<i>Planet formation, interior and interaction with the star</i>	Yang Gao (SYSU)	00:15	
13:20	Lunch		01:00	
14:20	<b>Interiors &amp; connection to atmospheres</b>		00:00	Session Chair: Stephanie Werner
14:20	<i>Interiors &amp; the connection to atmospheres</i>	Jérémy Leconte (U. Bordeaux)	00:20	
14:40	<i>On the Evolution and Internal Structure of Giant Planets</i>	Simon Muller (U. Zurich)	00:15	
14:55	<i>Atmospheres of Hot Rocky Exoplanets</i>	Yuichi Ito (UCL)	00:15	
15:10	<i>Exploring Super-Earth Surfaces Albedo of Near-Airless Magma Ocean Planets and Topography</i>	Darius Modirrousta-Galian (INAF)	00:15	
15:25	Coffee Break		00:30	
15:55	<b>Atmospheric models &amp; observations</b>		00:00	Session Chair: Thérèse Encrenaz
15:55	<i>State of the art – observations of exoplanet atmospheres</i>	Laura Kreidberg (CfA)	00:20	
16:15	<i>Spectroscopic Phase Curves of Exoplanets in the ARIEL Era</i>	Jean-Michel Desert (U. Amsterdam)	00:15	
16:30	<i>Understanding the chemical composition of exoplanet atmosphere</i>	Olivia Venot (LISA)	00:15	
16:45	<i>Atmospheric dynamical models: from solar system planets to exoplanets observed by ARIEL</i>	Aymeric Spiga (LMD)	00:15	
17:00	<i>Atmospheres in 3D with Ariel</i>	Vivien Parmentier (Oxford)	00:15	
17:15	<i>Lessons learned from IR Solar System Observations</i>	Thierry Fouchet (Paris Obs.)	00:20	
17:35	<i>Classification of super-Earths and sub-Neptunes with ARIEL Based on the Main Ions in the Thermosphere</i>	Jérémy Bourgalais (LATMOS)	00:15	
17:50	<i>How known planets from the Solar System would be seen if they were exoplanets</i>	Gabriella Gilli & Pedro Machado (IA Lisboa)	00:15	
18:05	<i>Exploring disequilibrium chemistry in the atmospheres of hot Jupiters</i>	Yui Kawashima (SRON)	00:15	
18:20	<i>Geometric albedos of exoplanet day sides at optical wavelengths</i>	Matthias Mallonn (Leibniz Institute Potsdam)	00:15	
18:35	End of Day 2 - Buses to Noordwijk		00:00	
19:30	Conference Dinner in Noordwijk (19:30 TBC)		03:00	

## Day 3 - Thursday 16th January 2020

09:00	Synergies with other missions and observatories		00:00	Session Chair: Bart Vandebussche
09:00	<i>TESS Discoveries</i>	David Ciardi (Caltech/IPAC)	00:15	
09:15	<i>Complementarities and Synergies between ARIEL &amp; JWST</i>	Pierre Olivier Lagage (CEA)	00:15	
09:30	<i>Exoplanet Science with the James Webb Space Telescope</i>	Knicole Colon (NASA Goddard)	00:15	
09:45	<i>Synergies between ARIEL and the ELTs</i>	Enric Palle (IAC)	00:15	
10:00	<i>Ariel targets and high-precision photometric support from NGTS</i>	Peter Wheatley (U. Warwick)	00:15	
10:15	<i>On the synergy between ARIEL and ground-based high-resolution spectroscopy</i>	Gloria Guilluy (INAF)	00:15	
10:30	Coffee Break		00:30	
11:00	<i>CHEOPS</i>	Willi Benz (U. Bern)	00:15	
11:15	<i>Synergies between ARIEL and Direct Imaging and WFIRST</i>	Anthony Boccaletti (LESIA)	00:15	
11:30	Spectral retrievals & spectroscopic data		00:00	Session Chair: Rens Waters
11:30	<i>Atmospheric retrieval for the ARIEL spectral database</i>	Michiel Min (SRON)	00:20	
11:50	<i>Machine Learning in Exoplanet Atmospheric characterisation</i>	Ingo Waldmann (UCL)	00:15	
12:05	<i>Using model comparisons to understand and overcome challenges in atmospheric retrieval</i>	Joanna Barstow (UCL)	00:15	
12:20	<i>Exploring the ARIEL Capabilities to Constrain Exoplanet Atmospheres</i>	Patricio Cubillos (Space Research Institute, Graz)	00:15	
12:35	<i>Self-Consistent Phase Curve Retrieval in the ARIEL Era</i>	Jasmina Blecic (NYUAD)	00:15	
12:50	<i>The Status of Spectroscopic Data for the ARIEL Mission</i>	Sergey Yurchenko (UCL)	00:15	
13:05	<i>Infrared spectroscopy of ions, radicals and Rydberg atoms for Ariel astronomy</i>	Svatopluk Civiš (Heyrovský Institute)	00:15	
13:20	Lunch		01:00	
14:20	Properties of exoplanet host stars & interactions		00:00	Session Chair: Ignasi Ribas
14:20	<i>Stellar activity and Ariel observations</i>	Giusi Micela (INAF)	00:20	
14:40	<i>What can the Dispersed Matter Planet Project do for ARIEL?</i>	Carole Haswell (OU)	00:20	
15:00	<i>Stars shaping the atmospheres of their Planets</i>	Theresa Lueftinger (U. Vienna)	00:15	
15:15	<i>Stellar flares with ARIEL</i>	Krisztián Vida (Konkoly Obs.)	00:15	
15:30	<i>Activity model and chromatic effects on transit depths from ground-based multiband photometry</i>	Manuel Perger (ICE-CSIC)	00:15	
15:45	<i>Direct recovery of planet masses for ARIEL with radial velocities</i>	John Barnes (OU)	00:15	
16:00	Coffee Break		00:30	
16:30	Data challenges and community tools		00:00	Session Chair: Isabella Pagano
16:30	<i>Overview of ARIEL Machine Learning Data Challenge results</i>	Nikolaos Nikolaou (UCL)	00:15	
16:45	<i>Details of MLDC winning team results 1</i>	James Dawson (remote)	00:05	
16:50	<i>Details of MLDC winning team results 2</i>	Vadim Borisov (remote)	00:05	
16:55	<i>Details of MLDC winning team results 3</i>	Artash Nath (remote)	00:05	
17:00	<i>ARES, the Ariel Retrieval of Exoplanet Spectra School.</i>	Jean-Philippe Beaulieu (IAP)	00:15	
17:15	<i>ARIEL Data Reduction Challenge</i>	Angelos Tsiaras (UCL)	00:15	
17:30	<i>The Horizon-2020 Exoplanets-A project: Advancing transit spectroscopy</i>	Jeroen Bouwman (MPIA)	00:15	
17:45	<i>The ExoClock Project: Pro-Am collaboration for ground-based observations in support of the ARIEL space mission</i>	Anastasia Kokori (Royal Obs. Greenwich)	00:15	
18:00	Summary & conference conclusions		00:00	Session Chair: Giovanna Tinetti
18:00	<i>Summary of community feedback and questions</i>	SAT round table	00:30	
18:30	End of conference		00:00	