PLATO 2.0 Science Workshop
Programme

Day 1 - Monday 29 July 2013

11:00	*Registration open*	

Session 1: The PLATO 2.0 Mission

13:00	Welcome	
13:05	PLATO as M3 candidate mission	Arvind Parmar ESA
13:20	PLATO 2.0: Science objectives and consortium overview	Heike Rauer Institut fuer Planetenforschung, DLR, DE
13:50	PLATO Mission overview	Philippe Gondoin ESA
14:10	The PLATO payload	Roberto Ragazzoni INAF-Osservatorio Astronomico di Padova, IT
14:25	The PLATO Science Ground Segment	Raymond Burston MPS, DE
14:40	PLATO Science preparation	Don Pollacco Warwick University, UK
14:55	Ground based follow-up - The context: Past and future projects	Stephane Udry University of Geneva, CH
15:15	*Coffee Break*	

Session 2: Past and future facilities

15:40	CoRoT greatest hits: recopilatory of the best lessons in 4CCDs	Roi Alonso Instituto de Astrofísica de Canarias, ES
16:05	Lessons for PLATO from CoRoT (and Kepler) on follow-up observations.	François Bouchy Institut Astrophysique de Paris, FR
16:25	Passing the baton from Kepler to TESS, a wealth of exoplanetary and Astrophysics science results achieved and anticipated	Jon Jenkins SETI Institute, US
17:00	The CHEOPS mission	Willy Benz University of Bern, CH
17:20	The Gaia catalogue: a treasure trove for PLATO 2.0 target selection and characterization	Alessandro Sozzetti INAF-Osservatorio Astrofisico di Torino, IT
17:40	Atmospheric characterization of PLATO exoplanets with the E-ELT	Matteo Brogi Leiden University, NL
18:00	Astrophysical false positives in transit surveys: from Kepler to PLATO 2.0	Alexandre Santerne Centro de Astrofisica da Universidade do Porto, PT
18:15	Precise spectroscopic stellar parameters for the PLATO targets	Annelies Mortier Centro de Astrofísica da Universidade do Porto, PT
18:30	Discussion	
19:00	*Welcome drink and Poster session*	
19:45	*Bus departure to Noordwijk hotels*	

Day 2: Tuesday 30 July 2013

Session 3: Planetary transits analysis

08:45	The challenge of the detection of transiting terrestrial extrasolar planets	Juan Cabrera German Aerospace Center, DE
09:00	The need of precise planetary parameters and extras: How to get them with PLATO	Szilard Csizmadia Institut fuer Planetenforschung, DLR, DE
09:15	Position angles and coplanarity of multiple systems from transit timing	Aviv Ofir Institute for Astrophysics, Göttingen, DE
09:30	Statistical validation of PLATO2.0 planet candidates	Rodrigo Díaz Laboratoire d'Astrophysique de Marseille, FR

Session 4: Asteroseismology and stellar science

09:45	Asteroseismology across the HR diagram	Marc Antoine Dupret University of Liège, BE
10:15	Oscillations of solar-like stars and red giants, the observer perspective	Saskia Hekker University of Amsterdam, NL
10:35	*Coffee Break*	
11:05	Asteroseismology of exoplanet host stars: results from Kepler and prospects for PLATO	William Chaplin University of Birmingham, UK
11:25	Asteroseismology and methods for stellar parameter estimation	Michael Bazot Centro de Astrofisica da Universidade do Porto, PT
11:40	Reaching the 1% accuracy level on stellar mass and radius determinations from asteroseismology	Valerie Van Grootel University of Liège, BE
11:55	Update on inversion methodologies	Daniel R. Reese University of Liège, BE
12:10	Stellar rotation and magnetic activity seen through Astroseismology	Rafael A. Garcia SAp, CEA/Saclay, FR
12:25	Determination of the stellar properties of the PLATO targets from non-seismic constraints	Thierry Morel University of Liège, BE
12:40	Detailed analysis of Kepler-10: Synergy between asteroseismology and exoplanet research	Hans Kjeldsen Aarhus University, DK
12:55	*Lunch*	

Session 5: Star-Planet interactions

14:25	Stellar activity	Isabella Pagano INAF-Osservatorio Astrofisico di Catania, IT
14:45	Star-planet tidal and magnetic interactions	Nuccio Lanza INAF – Osservatorio Astrofisico di Catania, IT
15:05	Star-planet interaction	Helmut Lammer Austrian Academy of Sciences, AT
15:25	Enshrouded close-in exoplanets	Carole Haswell The Open University, UK
15:40	Dealing with stellar activity in high-precision photometric and spectroscopic transit observations	Mahmoudreza Oshagh Center for Astrophysics of Uni of Porto. PT
15:55	Magnetic fields of planet-host stars	Rim Fares University of St Andrews, UK
16:10	*Coffee Break*	

Session 6: Planetary science

16:40	How could PLATO serve Planetary Physics and what can we learn from Solar System planets for terrestrial exoplanets?	Tilman Spohn DLR, DE
17:10	Gaseous and icy giant planets	Ravit Helled Tel-Aviv University, IL
17:40	Comparison of transit spectra and direct imaging spectra	Jean Schneider Paris Observatory, Meudon, FR
17:55	What can we learn about exoplanetary atmospheres in the optical?	Kevin Heng University of Bern, CH
18:10	Circumbinary planet detection with PLATO	Hans Deeg Instituto de Astrofísica de Canarias, ES
18:25	Exoplanets around evolved stars	Roberto Silvotti INAF-Osservatorio Astrofisico di Torino, IT
19:00	*Bus departure to Noordwijk hotels*	
20:00	*Dinner*	

Day 3, Wednesday 31 July 2013

Session 7: Planet formation

08:30	Planet formation and dynamics	Willy Kley Universität Tübingen, DE
08:55	Evolution of multi-planet systems	Richard Nelson Queen Mary University of London, UK
09:20	Dynamical evolution of planetary systems - PLATO's contribution	Cilia Damiani Laboratoire d'Astrophysique de Marseille, FR
09:35	What do we know about collisions in planetary systems?	Rudolf Dvorak University of Vienna, AT
09:50	Planet formation and system chronology	Günther Wuchterl Thüringer Landessternwarte Tautenburg, DE
10:05	Planet synthesis modelling	Christoph Mordasini MPIA, DE
10:30	*Coffee Break*	

Session 8: Complementary and legacy science

11:00	Stellar populations and galactic science	Andrea Miglio University of Birmingham, UK
11:25	Complementary and legacy Science	Konstanze Zwintz KU Leuven, BE
11:50	PLATO science on classical variable stars	Robert Szabo Konkoly Observatory, HU
12:05	Discussion	
12:45	*End of meeting*	

Posters

#1	Characterizing stellar and exoplanetary environments via Ly-alpha transit observations of exoplanets	K.G. Kislyakova et al. Austrian Academy of Sciences, AT
#2	Extreme orbital forcing simulations with the PlaSim general circulation model and its implications on habitability	Manuel Linsenmeier & Salvatore Pascale University of Hamburg, DE
#3	EXOTRANS a detection pipeline ready to face the challenge to hunt and characterize exoplanetary systems in upcoming space missions.	Sascha Grziwa U. Koeln, DE
#4	The PLATO Simulator: Modelling Space-Based Imaging	Pablo Marcos-Arenal et al, KU Leuven, BE
#5	The HoSTS Project: Homogeneous Analysis of Transiting Systems	Yilen Gomez Maqueo Chew et al. Warwick University, DE
#6	The BT-Settl model atmospheres for Stars, Brown Dwarfs, and Gas Giant Planets	France Allard Centre de Recherche Astrophysique de Lyon, FR
#7	TNG spectrophotometric measurements of HAT-P-1	Marco Montalto et al. Centro de Astrofisica da Universidade do Porto, PT
#8	A Survey for planets of main-sequence stars of intermediate mass	Eike W. Guenther Thueringer Landessternwarte Tautenburg, DE
#9	Population considerations for binary stars using transit searches	Ulrich Kolb et al. The Open University, UK
#10	Hybrid methods in planetesimal dynamics	Pau Amaro Seoane Max Plack for Gravitational Physics, DE
#11	Stellar Characterization for Transiting Exoplanet Surveys: Lessons from Kepler, Prospects for TESS and Plato	Eric Gaidos University of Hawaii at Manoa, US