

Micro-arcsecond Astrometry Exoplanets Detection around Nearby Stars Forum

22 August, 2014

Introduction

Chair: Michael Shao

09:00–09:10	Welcome and Introduction to ISSI-BJ	Maurizio Falanga
09:10–09:20	Goals of the Forum and its interdisciplinary view	Ding Chen
09:20–09:30	Introduction of the China Space Science Program	Wu Ji

Session I Overview to the Exoplanet Detection

Chair: Wu Ji

09:30–10:00	Earth planet Detection: Hopes and Sorrows	Didier Queloz
10:00–10:30	What we are missing?	Doug Lin
10:30–11:00	<i>Coffee break</i>	
11:00–11:30	Introduction to STEP	Ding Chen
11:30–12:00	What we will learn from Gaia	Alessandro Sozzetti
12:00–13:30	<i>Lunch</i>	

Session II Key science of the Terrestrial Planets

Chair: Doug Lin

13:30–14:00	Occurrence, Evolution of Terrestrial Planets	Stephane Udry
14:00–14:30	What do we learn from Kepler	Subo Dong
14:30–15:00	HZ of the Exoplanetary System	Helmut Lammer
15:00–15:30	<i>Coffee break</i>	
15:30–16:00	Free Discussion	

Session III Synergies, Complementary Missions and International Collaborations

Chair: Didier Queloz

16:00–16:30	Radial Velocity Observation	Stephane Udry
16:30–17:00	CHEOPS	Willy Benz
17:00–17:20	Astrometry and Blind Test	Guillem Anglada
17:20–17:40	The key importance of astrometry for future spectroscopic mission(s) searching for biosignatures	Alain Leger
17:40–18:10	Free Discussion	

18:30 *Dinner hosted by ISSI-BJ*

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Session IV Instruments and capability required **Chair: Alessandro Sozzetti**

09:00–09:30	Key tech of STEP	Michael Shao
09:30–10:00	Metrology	Baoquan Li
10:00–10:30	Telescope and Detector	Ang Zhang & Wei Ge
10:30–11:00	<i>Coffee break + group photo</i>	
11:00–11:30	Orbit and Thermal Control	Mingtao Li & Hanxun Zhang
11:30–12:00	Spacecraft	Fan Huang & Liu Wu
12:00–12:30	Target Selection	Jilin Zhou & Feng Tian
12:30–13:30	<i>Lunch</i>	

Session V Free Discussion **Chair: Michael Shao**

14:00–16:30	Free Discussion: - Key science goals of STEP - Design, payloads, observing strategy, alert triggering and issuing - International collaboration	
16:30-17:00	Future work plan: - Outline, structure, publication of the forum report - Summary of the Forum	Maurizio Falanga & Ding Chen Doug Lin
18:00	<i>Dinner hosted by STEP</i>	

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08:30-15:00 (approx.)	Excursion to the Great Wall (Juyongguan) Pick-up in front of the Park Plaza Hotel Science Park
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