

ISSI-BJ/ISSI Workshop on *The Disk in Relation to the Formation of Planets and their Protoatmospheres*

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25-29 August 2014

MONDAY 25 August, 2014

Notice: All presentations are 30' slots including time for questions

09:00-09:30	Registration in ISSI-BJ Office	Room 357, Building B NSSC Campus
09:30-09:40	Welcome and Introduction to ISSI-BJ and ISSI	M. Falanga/R. Rodrigo
09:40-09:55	Forum Report on <i>The science of exoplanets and their systems</i>	M. Blanc/H. Lammer
Session 1	Introduction	Chairman: Michel Blanc
09:55-10:30	Introduction to the Workshop topic	Eric Chassefière
<i>10:30-11:00 Coffee break</i>		
Session 2	Formation of Planets in Protostellar Disks	Chairman: René Liseau
11:00-11:30	Gas chemistry and evolution of the inner disk	Joan Najita
11:30-12:00	Gas chemistry and evolution of the outer disk	Karin Oberg
12:00-12:30	Direct imaging of disk-planet systems	(t.b.d.)
<i>12:30-14:00 Lunch</i>		
14:00-14:30	Dust disks	Min Fang
14:30-15:00	Dust grain settling and growth	Tilman Birnstiel
15:00-15:30	Dust trapping in disks	Anders Johansen
<i>15:30-16:00 Coffee break</i>		
16:00-16:30	Instabilities in disks related to planet formation	Xuening Bai
16:30-17:00	Core accretion	Doug Lin
<i>17:00 Welcome reception</i>		

TUESDAY 26 August, 2014

Session 3 From the Disk to the Planetary System

Chairman: Greg Herczeg

09:00-09:30	Migration	Clément Baruteau
09:30-10:00	Link between composition and location	Paul Molliere
10:00-10:30	Formation of solar system architecture	Hal Levison

10:30-11:00 Coffee break

11:00-11:30	Link between stellar and planetary formation, including the case of binary systems	Kaitlin Kratter
11:30-12:00	Architecture of extrasolar systems: observed diversity	Artie Hatzes
12:00-12:30	Architecture of extrasolar systems: role of dynamics	Jinlin Zhou

12:30-14:00 Lunch

14:00-14:30	Influence of external environment	Cathie Clarke
14:30-15:00	Discussion	

Session 4 Disk Dispersal: Theoretical Understanding and Observational Constraints

Chairman: Stéphane Udry

15:00-15:30	Accretion from disk to star	René Liseau
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15:30-16:00 Coffee break

16:00-16:30	Planet formation and disappearance of the disk	Zsolt Sandor
16:30-17:00	Photoevaporation	Uma Gorti
17:00-17:30	Discussion	

18:30 Dinner hosted by ISSI-BJ

WEDNESDAY 27 August, 2014

Session 5 Atmosphere Formation and Evolution

Chairman: Manuel Güdel

09:00-09:30	Lessons from the solar system	Helmut Lammer
09:30-10:00	Giant planet evolution	Adam Burrows
10:00-10:30	What we know of exoplanet atmospheres from observations	Marcelino Agúndez Chico

10:30-11:00 Coffee break

11:00-11:30	Formation of the nebula-captured protoatmosphere (including earth-size planets)	Masahiro Ikoma
11:30-12:00	Influence of stellar environment, particularly on the upper atmosphere	Valery Shematovich
12:00-12:30	Discussion	

12:30-14:00 Lunch

14:00-	Free time to visit the attractions of Beijing Also: All ISSI-BJ facilities are available for small group discussions	
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THURSDAY 28 August, 2014

Session 5 Atmosphere Formation and Evolution (continuation)

Chairman: Helmut Lammer

09:00-09:30	Magma ocean formation and outgassing + steam atmospheres	Eric Chassefière
09:30-10:00	Magma ocean / protoatmosphere coupling and role of giant impacts in protoatmosphere loss	Hamano
10:00-10:30	Atmospheric chemistry	Nikku Madhusudhan

10:30-11:00 Coffee break

11:00-11:30	Escape of protoatmosphere	Feng Tian
11:30-12:00	Discussion	

12:00-13:30 Lunch

Session 6 Debris Disks

Chairman: Doug Lin

13:30-14:00	Formation of debris disks	Brenda Matthews
14:00-14:30	Role of big collisions	Mark Wyatt
14:30-15:00	Discussion	

15:00-15:30 Coffee break

Young Scientists Session

15:30-15:50	Revealing the atmospheric compositions of hot Jupiters with ground-based transmission spectroscopy	Guo Chen
15:50-16:10	Title: TBD	Ruobing Dong
16:10-16:50	Title: TBD	Beibei Liu
16:50-17:10	Title: TBD	Yao Liu
17:10-17:30	Ground-based detections of thermal emission from the dense hot Jupiter WASP-43b in H and Ks bands	Wang Wei
17:30-17:50	Title: TBD	Xiaochen Zheng

18:30 Dinner hosted by ISSI

FRIDAY 29 August, 2014

Session 7 The Way Forward

Chairman: Willy Benz

09:00-09:30	Exoplanets and disks - The near perspective	Artie Hatzes
09:30-10:00	Exoplanets and disks - The future	Rene Liseau
10:00-10:30	The way forward	Malcolm Fridlund
10:30-11:00	Discussion	

11:00-11:30 Coffee break

Session 8 ISSI-BJ Book

11:30-12:30 Book discussion (authors Book plans, actions, schedule) M. Falanga/M. Blanc

12:30-14:00 Lunch

End of Workshop