

# ISSI-BJ Forum on Discover the Sky by Longest Wavelength with Small Satellite Constellation

1

23 – 25 January 2019

## WEDNESDAY 23 January 2019

### Session 1 Introduction

Chair: Ji Wu

8:30-9:00 Registration

9:00-9:10 Welcome and introduction to ISSI-BJ and requirement for forum

Maurizio Falanga,  
Xuelei Chen

9:10-9:30 Introduction to CAS Strategic Priority Program on Space Science

Chi Wang

### Session 2 Future Low Frequency Space Missions

Chair: Jingye Yan

9:30-10:00 SUNRISE

Justine Kasper

10:00-10:30 Lunar Orbit—DSL

Xuelei Chen

10:30-11:00 *Coffee Break*

11:00-11:30 Dark Cosmology: Investigations of Dark Matter with the Dark Ages  
Polarimeter Pathfinder (DAPPER)

Jack  
Burns (remotely)

11:30-12:00 Future Missions Discussion

Heino Falcke

12:00-13:30 *Group Photo and Lunch*

### Session 3 Science Cases

Chair: Xuelei Chen

13:30-14:00 Solar Physics

Gregg Hallinan

14:00-14:30 Planets and Exoplanets

Baptiste Cecconi

14:30-15:00 Space Experiments

Stuart Bale

15:00-15:30 Calibration

Albert-Jan Boonstra

15:30-16:00 *Coffee Break*

15:30-16:00 Calibration and LOFAR

Leon Koopmans

16:00-16:30 neutrinos and cosmic rays

Linjie Chen

16:30-17:00 Cosmology with the 21-cm line from the epoch of  
reionization

Yi Mao

17:00-17:30 Extragalactic Science

Zhiqiang Shen

18:00 *Dinner hosted by ISSI-BJ*

# ISSI-BJ Forum on Discover the Sky by Longest Wavelength with Small Satellite Constellation

2

23 – 25 January 2019

## THURSDAY 24 January 2019

9:00-9:30	ISM and Pulsar	Ue-Li Pen (remotely)
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<b>Session 4 Global Spectrum Experiments</b>		<b>Chair:</b> Joe Silk
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9:30-10:00	EDGES	Raul Monsalve
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10:00-10:30	SARAS-2	Ravi Subrahmanyam
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10:30-11:00	<i>Coffee Break</i>	
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11:00-11:30	SCI-HI/High-Z	Jeff Peterson
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11:30-12:00	PRIZM	Cynthia Chang
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12:00-13:30	<i>Lunch</i>	
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13:30-14:00	Dark Ages and Cosmic Dawn Models	Anastasia Fialkov
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14:00-14:30	Inhomogeneous gas and global spectrum	Yidong Xu
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14:30-15:00	Discussions on cosmology	Joe Silk
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15:00-15:30	<i>Coffee Break</i>	
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<b>Session 5 Past and Current Space Missions</b>		<b>Chair:</b> Hanna Rothkaehl
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15:30-16:00	CE-4 Longjiang	Li Deng
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16:00-16:30	CE-4 NCLE	Marc Klein Wolt
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16:30-17:00	CE-4 LFRS	Guangyou Fang
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17:00-17:30	Discussion on past and current Space Experiments	Leonid Gurvits
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18:00	<i>Dinner hosted by NAOC</i>	
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## FRIDAY 25 January 2019

<b>Session 6 Instrument and Technology for Space Missions</b>		<b>Chair:</b> Leon Koopmans
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9:00-9:30	DSL: space mission consideration and engineering concept	Jingye Yan
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9:30-10:00	Antenna and Receiver	Hanna Rothkaehl
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# ISSI-BJ Forum on Discover the Sky by Longest Wavelength with Small Satellite Constellation

3

23 – 25 January 2019

10:00-10:30	Some key technologies for HF and VHF VLBI network radio astronomy in Earth-Moon space	Jinsong Ping
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10:30-11:00 *Coffee Break*

11:00-11:30	EMI Elimination	Harish Vedantham (remote talk)
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11:30-12:00	Imaging	Ben Mckinley
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12:00-13:30 *Lunch*

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## Session 7 Synergies and Collaboration

**Chair:**

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13:30-14:30	Discussion	Ji Wu
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Future work plan:

- Outline, structure, publication of the forum report
  - Action items
  - Summary of the Forum
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