

ISSI-BJ Forum on  
**EXPLORATION OF OUTER HELIOSPHERE  
AND NEARBY INTERSTELLAR MEDIUM**

**THURSDAY, NOVEMBER 7, 2019**

<b>Session 1</b>	<b>Introduction and Overview</b>	<b>Chair: Richardson John</b>
09:00-09:10	Welcome and Introduction to ISSI-BJ	Laura Baldis
09:10-09:40	Interstellar Express: A New Chinese Mission to Outer Heliosphere	Wang Chi
09:40-10:10	Study of a Near-Term Interstellar Probe for the Decadal Survey: Status	Ralph L. McNutt Jr.
10:10-10:30	<i>Coffee Break</i>	
<b>Session 2a</b>	<b>Recent Progresses in Understanding Outer Heliosphere and Nearby Interstellar Medium</b>	<b>Chair: Guo Xiaocheng</b>
10:30-11:00	The heliosphere and interstellar medium interaction: current and future observations	John Richardson
11:00-11:30	Magnetic trapping of galactic cosmic rays in the outer heliosheath	Vladimir Florinski
11:30-12:00	Free Discussion	
12:00-14:00	<i>Group photo and lunch</i>	
<b>Session 2b</b>	<b>Recent Progresses in Understanding Outer Heliosphere and Nearby Interstellar Medium</b>	<b>Chair: Ralph L. McNutt Jr.</b>
14:00-14:30	Magnetic field in the outer heliosheath: existing constraints and open questions	Vladislav Izmodenov
14:30-15:00	Our Heliospheric Shield: Some of the Most Pressing Science Questions	Merav Opher
15:00-15:30	<i>Coffee Break</i>	
15:30-16:00	Interstellar neutrals (H, He, O, Ne) in the heliosphere measured by IBEX	Igor Baliukin
16:00-16:30	Study galactic cosmic ray modulation using the interstellar probe	Luo Xi
16:30-17:00	Solar wind events and their consequences in the outer heliosphere	Guo Xiaocheng
17:00-17:30	Free Discussion	
18:30	<i>Dinner offered by ISSI-BJ</i>	

**FRIDAY, NOVEMBER 8, 2019**

<b>Session 3</b>	<b>Scientific objectives of interstellar mission</b>	<b>Chair: Robert Wimmer-Schweingruber</b>
09:00-09:30	From Earth's Magnetospheres to the Outer Heliosphere & beyond	Zong Qiugang
09:30-10:00	Icy Giants (and Planet Nine) as the Windows of Opportunity in Outer Heliospheric Exploration	W-H Ip
10:00-10:30	<i>Coffee Break</i>	
<b>Session 4</b>	<b>Payload Suggestions and Specifications</b>	<b>Chair: Li Hui</b>
10:30-11:00	In-Situ Investigation Of The Interstellar Medium	Robert Wimmer-Schweingruber
11:00-11:30	PKU ENA Imager	Wang Linghua
11:30-12:00	Free Discussion	
12:00-14:00	<i>Lunch</i>	
14:00-14:30	Prospect of Vector Atomic Magnetometer in the Exploration of Outer Heliosphere and Nearby Interstellar Medium	Xue Hongbo
14:30-15:00	Payloads Proposal for Chinese Interstellar Express Mission	Zhang Aibing
15:00-15:30	Requirements and design of a dual, thermal ion-electron instrument for an outer heliosphere and interstellar mission (remote)	Benoit Lavraud
15:30-16:00	<i>Coffee Break</i>	
<b>Session 5</b>	<b>Discussion</b>	
16:00-16:45	Discussion: - Key science goals - payload priority	Ralph L. McNutt Jr.
16:45-17:30	Future work plan: - Outline, structure, publication of the forum report - International Cooperation	Guo Xiaocheng Laura Baldis
18:00	<i>Dinner</i>	