



AGU Chapman Conference on Dayside Magnetosphere Interactions

Program Committee

Conveners

Qiugang Zong

Peking University, China

Philippe Escoubet

ESA/ESTEC, Noordwijk, The Netherlands

David Sibeck

NASA Goddard Space Flight Center, USA

Guan Le

NASA Goddard Space Flight Center, USA

Hui Zhang

University of Alaska Fairbanks, USA

Program Committee

M. Lester

University of Leicester, U.K.

M. Dunlop

Warwick University, U.K.

N. Ostgaard

University of Bergen, Norway

S. Haaland

University of Bergen, Norway

K. Oksavik

University of Bergen, Norway

A. Petrukovich

Institut Kosmicheskich Issledovaniya (IKI)

Z. Nemecek

Charles University

Dong-Hun Lee

Kyung Hee University, Korea

H. Hasegawa

Institute of Space and Astronautical Science, JAXA

L.-C. Lee

National Cheng Kung University, Taiwan, China

I. Mann

Department of Physics, University of Alberta, Canada

H. Kucharek

University of New Hampshire, USA

X. Blanco-Cano

National Autonomous University of Mexico

Walter Gonzalez

National Institute for Space Research of Brazil, INPE

Andris Vaivads

Swedish Institute of Space Physics

Chi Wang

Center for Space Science and Applied Research, China

Tom Moore

NASA Goddard Space Flight Center, USA

James Burch

Southwest Research Institute, USA

Scientific Program

MONDAY, JULY 10

- 8:30 a.m.– 9:15 a.m. **Foreshock Tutorial**
Presiding: Hui Zhang
Furong Room
- 8:30 a.m. –9:15 a.m. Foreshock Transients and Their Geoeffects presented by Hui Zhang
- 9:15 a.m.– 10:00 a.m. **Foreshock and Bow Shock I**
Convener(s): Hui Zhang

Furong Room
- 9:15 a.m. –9:30 a.m. **Ensang Lee** | Possible Source of Spectral Index -5 in Suprathermal Solar Wind
- 9:30 a.m. –9:45 a.m. **Jinsong Zhao** | High-frequency Alfvénic turbulence in the solar wind
- 9:45 a.m. –10:00 a.m. **Subhash Chandra Kaushik** | Investigation of Highly Geoeffective Solar Transients and Associated Geoeffectiveness
- 10:00 a.m.– 10:20 a.m. **AM Coffee Break**
Furong Room Foyer
- 10:20 a.m.– 12:05 p.m. **Foreshock and Bow Shock II**
Convener(s): Drew Turner

Furong Room
- 10:20 a.m. –10:35 a.m. **Mingzhe Liu** | The Kinetic Evolution Course across Interplanetary Shocks
- 10:35 a.m. –10:55 a.m. **Antonius Otto** | How can the Solar Wind Turn Sunward?
(Invited)

- 10:55 a.m. –11:15 a.m. **Bertrand Lembege** | Microturbulence within the Front of a Quasi-Perpendicular Supercritical Shock: Comparison between Theory, Simulation and Space Observations (*Invited*)
- 11:15 a.m. –11:30 a.m. **Christopher Russell** | MMS observations of the Earth bow shock during magnetosphere compression and expansion: comparison of whistler wave properties around the shock ramp
- 11:30 a.m. –11:45 a.m. **Zhongwei Yang** | Particle Dynamics at the Earth's Bow Shock: PIC simulations and MMS observations
- 11:45 a.m. –12:05 p.m. **Anatoli A Petrukovich** | Variations of energetic ions flux in the foreshock (*Invited*)
- 12:00 p.m.– 1:30 p.m. **Lunch**
- 1:30 p.m.– 3:00 p.m. **Foreshock and Bow Shock III**
Convener(s): Anatoli Petrukovich

Furong Room
- 1:30 p.m. –1:50 p.m. **Drew L Turner** | Anatomy of Hot Flow Anomaly Shocks and Their Effectiveness for Energetic Particle Acceleration (*Invited*)
- 1:50 p.m. –2:05 p.m. **Hui Zhang** | MMS Observations of Hot Flow Anomalies
- 2:05 p.m. –2:20 p.m. **Liangliang Zhao** | Global ULF Waves Generated by a Hot Flow Anomaly
- 2:20 p.m. –2:40 p.m. **Gabor I Facsko** | Comparing the Global MHD Simulations of the Terrestrial Magnetosphere with Cluster Measurements (*Invited*)
- 2:40 p.m. –2:55 p.m. **Kyung-Im Kim** | Application of MHD numerical modelling in space weather : Accuracy issues and condition
- 3:00 p.m.– 3:20 p.m. **PM Coffee Break**
Furong Room Foyer
- 3:20 p.m.– 5:25 p.m. **Magnetosheath**
Presiding: Dong-Hun Lee

Furong Room

- 3:20 p.m. –3:40 p.m. **Elin Eriksson** | Strong current sheet at a magnetosheath jet: kinetic structure and electron acceleration (*Invited*)
- 3:40 p.m. –3:55 p.m. **Shiyong Huang** | New types of coherent structures in the turbulent magnetosheath plasma: MMS observations
- 3:55 p.m. –4:15 p.m. **Fouad Sahraoui** | MHD AND KINETIC SCALE TURBULENCE IN THE MAGNETOSHEATH: NEW RESULTS FROM THE CLUSTER AND THE THEMIS SPACECRAFT (*Invited*)
- 4:15 p.m. –4:30 p.m. **Jiansen He** | Observation of Growth/Damping Rate of Kinetic Waves in Magnetosheath Turbulence
- 4:30 p.m. –4:50 p.m. **Dong-Hun Lee** | Effects of Dayside Shear Flows on the Excitation of Waves in the Magnetosphere (*Invited*)
- 4:50 p.m. –5:05 p.m. **Xiao-dong Wang** | Precipitation of Solar Wind and Planetary Hydrogen Atoms to the Upper Atmosphere of Mars
- 5:30 p.m.– 7:30 p.m. **Ice Breaker Reception**
Rose Hall

TUESDAY, JULY 11

- 8:30 a.m.– 9:15 a.m. **Radiation Belt Tutorial**
Convener(s): Qiugang Zong
Furong Room
- 8:30 a.m. –9:15 a.m. **Daniel N. Baker** | Inner Magnetospheric Coupling: A Tutorial (*Invited*)
- 9:15 a.m.– 10:00 a.m. **Radiation Belt and Inner Magnetosphere I**
Convener(s): Qiugang Zong
Furong Room

- 9:15 a.m. –9:30 a.m. **Chao Yue** | The characteristic pitch angle distributions of 1 eV to 600 keV protons near the equator based on Van Allen Probes observations
- 9:30 a.m. –9:45 a.m. **Ying Xiong** | Relativistic electron's butterfly pitch angle distribution modulated by localized background magnetic field perturbation driven by hot ring current ions
- 9:45 a.m. –10:00 a.m. **Qing-He Zhang** | A statistical investigation of plasmaspheric plasma by using global GPS TEC data
- 10:00 a.m.– 10:20 a.m. **AM Coffee Break**
Furong Room Foyer
- 10:20 a.m.– 12:00 p.m. **Radiation Belt and Inner Magnetosphere II**
Convener(s): Q. -G. Zong

Furong Room
- 10:20 a.m. –10:40 a.m. **Daniel N. Baker** | Particle Energization in Earth's Van Allen Radiation Belts Due to Solar Wind Forcing (*Invited*)
- 10:40 a.m. –11:00 a.m. **Ian Mann** | Explaining the diverse response of ultra-relativistic Van Allen belt electrons to solar wind forcing with ULF wave transport (*Invited*)
- 11:00 a.m. –11:20 a.m. **Mei-Ching Hannah Fok** | Loss of Ring Current and Radiation Belt Particles at the Dayside Magnetopause (*Invited*)
- 11:20 a.m. –11:40 a.m. **Hong Zhao** | Multi-point Measurements of Energetic Particle Deep Penetration into the Low L Region (*Invited*)
- 10:40 a.m. – 11:55 a.m. **Han Wu** | Synchronous orbit relativistic electron flux one week dropout
- 12:00 p.m.– 1:00 p.m. **Town Hall United Nations Expert Group on Space Weather: Strategy for Developing an International Framework for Space Weather Services**
Convener(s): Ian Mann

Furong Room

12:00 p.m.– 1:30 p.m.

Lunch

1:30 p.m.– 3:00 p.m.

Radiation Belt and Inner Magnetosphere III

Convener(s): Hong Zhao

Furong Room

1:30 p.m. –1:50 p.m.

Dmitri Yu. Klimushkin | High-m ULF waves in the terrestrial magnetosphere: spatial structure and generation mechanisms
(Invited)

1:50 p.m. –2:05 p.m.

Qiugang Zong | Substorm Related ULF waves Observed in the Dawnside Magnetosphere by BD-IES and Van Allan Probes

2:05 p.m. –2:20 p.m.

Han Liu | Compressional ULF Wave Modulation of Energetic Particles in the Inner Magnetosphere

2:20 p.m. –2:35 p.m.

Yixin Hao | Pitch angle “Boomerang” evolution of relativistic electrons: ULF wave modulation

2:35 p.m. –2:50 p.m.

Alexander W Degeling | Modeling the Effect of a Plasmaspheric Drainage Plume on ULF Wave Power Accessibility and Radiation Belt Electron Energization in Earth's Magnetosphere.

2:50 p.m. –3:05 p.m.

Lunjin Chen | The effects of plasma beta and anisotropy on compressional poloidal modes in the magnetosphere

3:00 p.m.– 3:20 p.m.

PM Coffee Break

Furong Room Foyer

3:20 p.m.– 5:00 p.m.

Radiation Belt and Inner Magnetosphere IV

Convener(s): Ian Mann

Furong Room

3:20 p.m. –3:40 p.m.

Robert Rankin | Ring Current Ion Acceleration Due to Drift-Bounce Resonance With ULF Waves *(Invited)*

- 3:40 p.m. – 3:55 p.m. **Xuzhi Zhou** | Drift-bounce resonance between charged particles and ultralow frequency waves: theory and observations
- 3:55 p.m. – 4:10 p.m. **Jie Ren** | Phase Relationship between ULF Waves and Drift-bounce Resonant Ions: A Statistical Study
- 4:10 p.m. – 4:30 p.m. **Guan Le** | Global Observations of High-m Poloidal Waves in the Magnetosphere during the Recovery Phase of the June 2015 Magnetic Storm
- 4:30 p.m. – 4:45 p.m. **Chang Yang** | Statistical results of correlation between energetic electron butterfly distributions and plasma waves in the radiation belt slot region
- 4:45 p.m. – 5:00 p.m. **Nigang Liu** | Shock-induced disappearance and subsequent recovery of plasmaspheric hiss
- 6:00 p.m. – 8:00 p.m. **Foreshock and Bow Shock Posters**
Convener(s): Hui Zhang

Furong Room
- T-1 **C Philippe Escoubet** | Turbulence Heating Observer – THOR mission (*Invited*)
- T-2 **Tieyan Wang** | Small-scale Flow Structures in the Solar Wind Turbulence
- T-3 **Quanqi Shi** | Magnetosphere Response to Solar Wind Dynamic Pressure Change: vortices, ULF waves and aurorae
- T-4 **Alemayehu Mengesha Cherkos II** | Effect of viscosity on propagation of MHD waves in astrophysical plasma
- 6:00 p.m. – 8:00 p.m. **Magnetosheath Posters**
Convener(s): Dong-Hun Lee

Furong Room
- T-6 **Liudmila Rakhmanova** | Kinetic plasma turbulence behind the quasi-perpendicular bow shock

6:00 p.m.– 8:00 p.m.

Cusps and Dayside Auroral Oval Posters

Convener(s): C Philippe Escoubet

Furong Room

- T-7 **Y. Wang** | GPS signal fluctuations associated with high speed flows in the cusp ionosphere
- T-8 **Yixin Sun** | On the Enhancement of Dayside Cusp Field Aligned Current: Case Study of Cluster Observation.
- T-9 **Zan-Yang Xing** | Multi-instrument observations of periodic poleward moving polar cap arcs
- T-10 **Xiangcai Chen** | Dynamic properties of throat aurora revealed by simultaneous ground and satellite observations
- T-11 **Jiannan Tu** | Inductive-Dynamic Simulation of Magnetosphere-Ionosphere Coupling in Dyside Cusps and Auroral Oval
- T-13 **Jiapeng Guo** | The Effect of Sub-Auroral Polarization Streams on Ionosphere and Thermosphere: Non-Hydrostatic Simulations

6:00 p.m.– 8:00 p.m.

Radiation Belt and Inner Magnetosphere Posters

Convener(s): Qiugang Zong

Furong Room

- T-15 **Zhiyang Liu** | Electron Dropout Echoes Induced by Interplanetary Shock: A Statistical Study
- T-17 **Si Liu** | Quantifying storm-time variation of Van Allen belt relativistic electrons associated with radial diffusion
- T-20 **Busola Olugbon** | Observations and Analytic Modeling of ULF Pc5 Wave Propagation through the Equatorial Ionosphere
- T-21 **Xing-Ran Chen** | Multi-Period ULF Modulation of Energetic Electron Flux Observed by BD-IES
- T-22 **Mu Yang** | On the Propagating Ultralow-frequency Waves and their Influences over Plasmaspheric Charged Particles

- T-23 **Li Li** | Charged Particle Behavior in Localized Ultralow Frequency Waves: Theory and Observations
- T-25 **Jiwon Choi** | On the Characteristics of the FLR in Non-uniform Magnetosphere
- T-27 **Yihua He** | Excitation of Dayside Chorus by Energetic Electrons Originating from the Plasmasheet
- T-28 **Qinghua Zhou** | Generation of lower and upper bands of electrostatic electron cyclotron harmonic waves in the Van Allen radiation belts
- 6:00 p.m.– 8:00 p.m. **Global Magnetospheric Convection and Dynamics Posters**
Convener(s): Guan Le
Furong Room
- T-31 **Zhengwei Cheng** | The influence of IMF cone angle on invariant latitudes of polar region footprints of FACs in the magnetotail: Cluster observation
- T-32 **Yu-Zhang Ma** | Solar illumination control of ion upflow above the polar cap
- T-33 **Motoharu Nowada** | Possible Formation Mechanism of “Reverse L”-Shaped Transpolar Arc and Associated Ionospheric Flows: A Multi-Event Study
- T-34 **Anmin Tian** | Responses of Magnetosphere and Ionosphere to Solar Wind Pressure impulse
- T-36 **Chen Zeng** | The properties of oxygen ions in low latitude boundary layer on dayside magnetopause
- T-37 **Guan Le** | Magnetopause Erosion during the March 17, 2015 Magnetic Storm: Combined Field-aligned Currents, Auroral Oval, and Magnetopause Observations
- T-38 **Shaojie Zhao** | On the Reflection of Oxygen Ion at the Dipolarization Fronts: Cluster Observations

- T-40 **Yasong S Ge** | Study on the current structure of dipolarization fronts using MMS data
- T-41 **Guoqiang Wang** | Deceleration of Earthward ion flow and acceleration of tailward flow in the near-Earth plasma sheet
- T-43 **Xiaohan Ma** | The super substorm incidence in response to interplanetary shock front impacts
- 6:00 p.m.– 8:00 p.m. **Magnetopause Posters**
Convener(s): Stein Haaland
- Furong Room
- T-46 **Hui Wang** | The dayside magnetopause location during radial interplanetary magnetic field periods: Cluster observation and model comparison
- T-47 **Jana Safrankova** | IMF Control of the LLBL Structure and Thickness
- T-48 **Tianran Sun** | Distribution of FTE Periods on the Dayside Magnetopause under Constant Solar Wind Condition: Global MHD Simulation Results
- T-49 **Cong Zhao** | Direct Observation of Expanding Flux Transfer Events Embedded in the Earth's Magnetopause
- T-51 **Xiangcheng Dong** | Electric Current Structure And Plasma Kinetic Feature in the Closed Thin Magnetopause
- T-52 **Yongcun Zhang** | Quantitative analysis of Hall system in the exhaust of asymmetric magnetic reconnection
- T-54 **Robert Strangeway** | **Study of the electron anisotropy at magnetopause using MMS data**
- T-55 **Siqi Zhao** | MMS observations of plasma waves and electron energization
- T-56 **Zhihong Zhong** | ELECTRON-SCALE SECONDARY MAGNETIC ISLAND NEAR THE RECONNECTION ELECTRON DIFFUSION REGION BY MMS OBSERVATION

T-58

Hiroshi Hasegawa | Evolution and its consequences of the magnetopause Kelvin-Helmholtz instability: MMS event on 8 September 2015 revisited

WEDNESDAY, JULY 12

8:30 a.m.– 9:15 a.m.

Tutorial

Convener(s): C Philippe Escoubet

Furong Room

8:30 a.m. –9:15 a.m.

John C Foster | Magnetosphere-Ionosphere Coupling Effects in the High Latitude Dayside Ionosphere (*Invited*)

9:15 a.m.– 10:00 a.m.

Radiation Belt and Inner Magnetosphere V

Convener(s): C Philippe Escoubet

Furong Room

9:15 a.m. –9:35 a.m.

Anatoly Sergeevich Leonovich | Standing Alfvén waves excited in the dayside magnetosphere by extra-magnetospheric sources (*Invited*)

9:35 a.m. –9:50 a.m.

Fuliang Xiao | Occurrences of Auroral Kilometric Radiations in Van Allen Radiation Belts

9:50 a.m. – 10:05 a.m.

Wenlong Liu | Variation of plasmapause location during magnetic storms

10:00 a.m.– 10:20 a.m.

AM Coffee Break

Furong Room Foyer

10:20 a.m.– 12:05 p.m.

Cusps and Dayside Auroral Oval

Presiding: C Philippe Escoubet

Furong Room

10:20 a.m. –10:40 a.m.

Toshi Nishimura | Transient dayside reconnection processes through imaging and radar measurements (*Invited*)

- 10:40 a.m. –10:55 a.m. **Yue Deng** | Poynting Flux in the Dayside Polar Cap Boundary Regions (cusp & LLBL) at Different Altitudes
- 10:55 a.m. –11:15 a.m. **Quanqi Shi** | Solar Wind Plasma/Particle Entry near cusps and its Related Auroral activities (*Invited*)
- 11:15 a.m. –11:35 a.m. **Han Desheng** | Throat aurora and the implications on solar wind-magnetosphere coupling (*Invited*)
- 11:35 a.m. –11:50 a.m. **Boyi Wang** | The dayside diffuse aurora brightening/dimming that associated with Magnetosheath High-Speed-Jets and their related magnetospheric signatures
- 11:50 a.m. –12:05 p.m. **Suping Duan** | How magnetic reconnection at dayside magnetopause effects on oxygen ions in the cusp
- 12:00 p.m.– 1:30 p.m. **Lunch**
- 1:30 p.m.– 5:00 p.m. **Field Trip**

THURSDAY, JULY 13

- 8:30 a.m.– 10:00 a.m. **Magnetopause Overview**
Convener(s): Stein Haaland

Furong Room
- 8:30 a.m. –9:15 a.m. **James L Burch** | Whistler Driven Magnetic Reconnection at the Dayside Magnetopause (*Invited*)
- 9:15 a.m. –10:00 a.m. **Hiroshi Hasegawa** | Waves and instabilities at the magnetopause and its boundary layers: An overview (*Invited*)
- 10:00 a.m.– 10:20 a.m. **AM Coffee Break**
Furong Room Foyer
- 10:20 a.m.– 12:00 p.m. **Magnetopause I**
Convener(s): James Burch

Furong Room

- 10:20 a.m. –10:40 a.m. **Karlheinz J Trattner** | The Source Region for Continuous Magnetic Reconnection at the Earth Magnetopause (*Invited*)
- 10:40 a.m. –11:00 a.m. **Huishan Fu** | Studying magnetopause reconnection using the FOTE method (*Invited*)
- 11:00 a.m. –11:20 a.m. **Stefan Eriksson** | On the Signatures of Reconnection-Related Magnetic Islands at the Earth’s Magnetopause: New Perspectives from Magnetopause Observations and Particle-In-Cell Simulations (*Invited*)
- 11:20 a.m. –11:40 a.m. **Kyoung-Joo Hwang** | Multi-scale investigations of magnetic reconnection and Kelvin-Helmholtz vortices (*Invited*)
- 11:40 a.m. –12:00 p.m. **Zuyin Pu** | Multiple magnetic topologies in flux transfer events at the magnetopause: In situ measurements and formation mechanisms (*Invited*)
- 12:00 p.m.– 1:30 p.m. **Lunch**
- 1:30 p.m.– 3:00 p.m. **Magnetopause II**
Convener(s): Zdenek Nemecek

Furong Room
- 1:30 p.m. –1:50 p.m. **Christopher T Russell** | High Temporal and Spatial Resolution Measurements of the Earth’s Magnetopause: Fields, Currents, Forces and Topology Revealed (*Invited*)
- 1:50 p.m. –2:10 p.m. **Chi Wang** | SMILE – A New Mission to Image the Magnetosphere (*Invited*)
- 2:10 p.m. – 2:25 p.m. **Helen R Middleton** | Electric Currents at the Magnetospheric Boundary Regions
- 2:25 p.m. –2:40 p.m. **Rongsheng Wang** | Simultaneously observed ion- and electron-scale quadrants of the reconnection Hall magnetic field at magnetopause
- 2:40 p.m. –2:55 p.m. **Lei Dai** | Kinetic Alfven wave explanation of the Hall fields in magnetic reconnection
- 3:00 p.m.– 3:20 p.m. **PM Coffee Break**

Furong Room Foyer

3:20 p.m.– 5:00 p.m.

Magnetopause III

Convener(s): Hiroshi Hasegawa

Furong Room

3:20 p.m. –3:40 p.m.

Stein Haaland | The asymmetric magnetosphere (*Invited*)

3:40 p.m. –4:00 p.m.

Ramon E Lopez | Magnetospheric Balance of Solar Wind Dynamic Pressure (*Invited*)

4:00 p.m. –4:20 p.m.

Walter Gonzalez | Dayside magnetopause pressure balance: Revisited Concepts Walter Gonzalez (National Institute of Space Research, Sao Jose dos Campos, Brazil) and Ramon Lopez (*University of Texas at Arlington, United States*) (*Invited*)

4:20 p.m. – 4:35 p.m.

Richard Edward Frederick Bonde | The effect of IMF fluctuations on the subsolar magnetopause position

4:35 p.m. –4:55 p.m.

Zdenek Nemecek | Magnetopause Location: Empirical and Computer Models in a Light of New Observations (*Invited*)

6:00 p.m.– 8:00 p.m.

Conference Banquet

Rose Hall

FRIDAY, JULY 14

8:30 a.m.– 9:15 a.m.

Cluster Overview

Convener(s): Chi Wang

Furong Room

8:30 a.m. –9:15 a.m.

C Philippe Escoubet | Cluster recent highlights at dayside boundaries (*Invited*)

9:15 a.m.– 10:00 a.m.

Magnetopause IV

Convener(s): Chi Wang

Furong Room

- 9:15 a.m. –9:30 a.m. **Yasuto Hoshi** | Seasonal and solar wind control of the reconnection line location at the Earth’s dayside magnetopause
- 9:30 a.m. –9:45 a.m. **Wenya Li** | Dynamics of cold ions in the magnetic reconnection jet and magnetosheath boundary layer
- 9:45 a.m. –10:00 a.m. **Gilbert Pi** | The influence of the radial IMF on the magnetospheric system
- 10:00 a.m.– 10:20 a.m. **AM Coffee Break**
Furong Room Foyer
- 10:20 a.m.– 12:00 p.m. **Magnetopause V**
Convener(s): Walter Gonzalez

Furong Room
- 10:20 a.m. – 10:35 a.m. **Binbin Tang** | Depression of the Magnetic Field in an Ion-scale Flux Rope
- 10:35 a.m. – 10:50 a.m. **Xiangcheng Dong** | Structure And Evolution of Flux Transfer Events Near Magnetic Reconnection Dissipation Region
- 10:50 a.m. –11:10 a.m. **James Frederick Drake** | Turbulence associated with magnetopause reconnection (*Invited*)
- 11:10 a.m. –11:30 a.m. **Robert J Strangeway** | Magnetosphere-Ionosphere Coupling and Magnetospheric Multiscale Observations of Field-Aligned Currents Near the Dayside Magnetopause (*Invited*)
- 11:30 a.m. –11:50 a.m. **Joachim Raeder** | Generation, Topology, and Motion of Flux Transfer Events (*Invited*)
- 12:00 p.m.– 1:30 p.m. **Lunch**
- 1:30 p.m.– 3:30 p.m. **Global Magnetospheric Convection and Dynamics**
Presiding: Guan Le
Furong Room

- 1:30 p.m. –1:50 p.m. **Jiannan Tu** | A Self-consistent Magnetosphere-Ionosphere-Thermosphere Coupling Models (*Invited*)
- 1:50 p.m. –2:10 p.m. **Qing-He Zhang** | Polar cap blobs: enhanced density structures different from polar cap patches in the polar cap ionosphere (*Invited*)
- 2:10 p.m. –2:25 p.m. **Kun Li** | Cold ion outflow response to the solar wind energy input and the geomagnetic dipole tilt angle
- 2:25 p.m. –2:40 p.m. **Motoharu Nowada** | Subsidence of Ionospheric Fast Flows Triggered by Magnetotail Magnetic Reconnection During Transpolar Arc Brightening
- 2:40 p.m. –3:00 p.m. **Suiyan Fu** | Flat-top electron distributions and wave activities observed near a tailward dipolarization front (*Invited*)
- 3:00 p.m. –3:15 p.m. **Subhash Chandra Kaushik** | Solar Plasma Events and Their Interplanetary Consequences
- 5:30 p.m.– 8:00 p.m. **Sichuan Food Tasting - local restaurant**