

## GST2023 Workshop Program

Time	Session	Speaker	Title
<b>May 24 (Wed)</b>			
08:30-09:00	Registration		
09:00-09:20	Opening Remark		
<b>Chair: Haisheng Ji</b>			
09:20-09:45	0-I (keynote)	W. Cao	An overview of GST/BBSO in the past four years
09:45-10:10	1-I1 (keynote)	V. Yurchyshyn	GST Advances in Small-Scale Studies: an Overview
10:10-10:30	1-I2	T. Samanta	Small-scale jets and brightenings in the solar atmosphere
10:30-10:45	1-C1	C. Jin	Magnetic outbreak associated with exploding granulations
10:45-11:05	Break		
11:05-11:25	1-I3	K. Cho	High-Resolution Observations of Plume's Footpoint in Solar Coronal Hole
11:25-11:40	1-C2	J. Zhao	Dynamics of emerging flux in a developing penumbra observed by GST
11:40-11:55	1-C3	W. Teng	GST Observation and Magnetic Field Modeling of a Solar Mini-filament
11:55-12:10	1-C4	J. Wang	Minifilament Eruption Associated with Coronal Bright Points
12:10-12:25	1-C5	N. Huang	High-Resolution Observation of Mini-Filament Eruption As Possible Source of Small Magnetic Flux Rope Detected by Parker Solar Probe
12:25-14:00	Lunch		
<b>Chair: Jongchul Chae</b>			
14:00-14:20	1-I4	N. E. Raouafi	Magnetic Reconnection as the Driver of the Solar Wind
14:20-14:35	1-C6	J. Lee	Chromospheric Counterpart of the Medium-Scale Solar Wind Switchbacks
14:35-15:00	2-I1 (keynote)	J. Qiu	Diagnosing Magnetic Reconnection and Energy Release Using High-resolution Observations of Solar Flares
15:00-15:20	2-I2	K. Kusano	Toward advanced physics-based prediction of solar flares
15:20-15:35	2-C1	J. Shen	The Precursor Phase of an X-class Flare: Magnetic Reconnection, Powering

15:35-16:30	Poster		
16:30-16:50	2-I3	S. Inoue	Data-constrained and -driven Magnetohydrodynamic Simulations for Solar Eruptions
16:50-17:10	2-I4	B. Schmieder	Understanding filament eruptions, and coronal mass ejections with data-driven MHD numerical simulations
17:10-17:25	2-C2	J. Dai	A Partial Filament Eruption in Three Steps Induced by External Magnetic Reconnection
17:25-17:45	2-I5	T. Magara	Structure and Dynamics of a Solar Prominence:
17:45-18:00	2-C3	S. Poedts	Advanced flux-rope models for CMEs

<b>May 25 (Thu)</b>			
<b>Chair: Eun-Kyung Lim</b>			
09:00-09:20	2-C4	J. Lee (J. Jing)	GST Data from a Single Flare Event Inspires Many Case Studies
09:20-09:35	2-C5	R. Zheng	Formation of a Tiny flux Rope in the Center of an Active Region Driven by Magnetic Flux Emergence, Convergence, and Cancellation
09:35-09:55	4-I1	H.-P. Doerr	High-resolution spectropolarimetry with FISS-SP
09:55-10:15	4-I2	M. van Noort	Microlensed Hyperspectral Imagers
10:15-10:30	4 - I 3 (remote)	T. Schad	The Inouye Solar Telescope: Science Highlights from Cycle 1
10:30-10:45	4-I4	Q. Hao	2.5m Wide-field and High-resolution Solar Telescope (WeHoST)
10:45-11:00	Workshop Photo		
11:00-18:00	Excursion		
19:00-22:00	Banquet & Ceremony		

<b>May 26 (Fri)</b>			
<b>Chair: Vasyl Yurchyshyn</b>			
09:00-09:25	5-I1 (keynote)	Y.-J. Moon	Application of Deep Learning to Solar and Space Weather Data Sets
09:25-09:45	5-I2 (remote)	J. Wang	Machine Learning for Space Weather Analytics
09:45-10:00	5-C1	K.-S. Lee	Deep Learning-based Fast Spectral Inversion of H $\alpha$ and Ca II 8542 Line Spectra
10:00-10:20	5-I3	H.-J. Jeong	Generation of AI-generated Solar Farside Magnetograms and Their Applications in the Corona
10:20-10:40	Break		
10:40-11:05	3-I1 (keynote)	J. Chae	Recent Investigation into Sunspot MHD Waves Based on the GST/FISS Observations
11:05-11:25	3-I2	D. Jess	Sunspot wave dynamics captured with high temporal, spatial and spectral resolutions
11:25-11:40	3-C1	D. Li	Spectroscopic diagnostics of sunspot oscillations in infrared and ultraviolet wavelengths
11:40-11:55	3-C2	K. Lee	Effect of Radiative Relaxation on Intensity-Velocity Phase Difference in Umbral Oscillations
11:55-12:10	3-C3	J. Kang	Chromospheric Umbral Oscillations Driven by the Subphotospheric Resonance of Fast Magnetohydrodynamic Waves
12:10-12:25	3-C4	S. Grant	The Propagation of Coherent Waves Across Multiple Solar Magnetic Pores
12:25-14:00	Lunch		
<b>Chair: Wenda Cao</b>			
14:00-14:20	3-I3	H. Ji	Magneto-acoustic waves in the photosphere: MHD solutions, observational verification, and their correlation with coronal heating
14:20-14:35	3-C5	B. Kuźma	Transverse oscillations and an energy source in a strongly magnetised sunspot
14:35-14:50	3-C6	H. Kwak	Spectroscopic detection of Alfvénic waves in the chromospheric fibrils of a solar quiet region
14:50-15:05	4-I5	J. Hong	First observations from the Chinese H $\alpha$ Solar Explorer (CHASE)
15:05-15:20	4-I6	Z. Li	Inflight Performance and Early Results from HXI onboard ASO-S
15:20-15:40	Break		

15:40-15:55	4-I7	R. Ishikawa	Photospheric and chromospheric dynamics challenging with SUNRISE III balloon-borne telescope: capability and status
15:55-16:10	4-C1	N. Gorciex	Present and Future of the adaptive optics at the GST
16:10-16:25	4-C2	H. Yang	Drift scanning Solar Imaging-Spectroscopic Telescope
16:25-16:50	Closing Remark		