



Program overview

	Sun -18 Sep	Mon -19 Sep	Tue -20 Sep	Wed -21 Sep	Thu -22 Sep	Fri -23 Sep
8:00 - 9:00		Registration				
9:00 - 10:30		Welcome Session 5	Session 1	Session 2 Session 3	Session 3	Session 4
10:30 - 12:00		Poster session	Poster session	Poster session	Poster session	Poster session
12:00 - 13:00		Session 5	Session 2	Session 3	Session 3	New missions Closure
13:00 - 14:30		Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
14:30 - 15:30		Session 5	Session 2		Session 4	
15:30 - 17:00		Poster session	Poster session	Organized tour	Poster session	
17:00 - 18:00		Session 1	Session 2		Session 4	
18:00 - 22:00	Welcome reception					
19:30 - 23:00					Conference dinner	

Scientific program

Monday, September 19

Chair: Yukio Katsukawa

	9:00 - 9:15	Welcome address	
S5 Review	9:15 - 9:45	C. J. Diaz Baso	Application of machine learning and neural networks to data processing in solar physics
S5 Inv.	9:45 - 10:05	R. Ishikawa	Solar magnetic fields from the photosphere to the top chromosphere revealed by CLASP2 and Hinode
S5 Inv.	10:05 - 10:25	J. Stepan	Novel framework for the three-dimensional NLTE inverse problem
S5	12:00 - 12:15	N. Zambrana Prado	Elemental composition diagnostics for Hinode/EIS
S5	12:15 - 12:30	B. Panos	Explainable solar flare prediction using IRIS Mg II spectra
S5	12:30 - 12:45	K. Fukumitsu	Image Restoration based on Deep Learning for High-Resolution Solar Images
S5	12:45 - 13:00	T. Pereira	SunnyNet: Speeding up 3D non-LTE spectral synthesis with neural networks

Chair: Jana Kasparova

S5	14:30 - 14:45	D. Nobrega-Siverio	Solar surges related to UV bursts: Characterization through k-means, inversions, and density diagnostics
S5 Remote	14:45 - 15:00	N. Karna	The study of polar coronal holes since the launch of Hinode
S5	15:00 - 15:15	J. M. Jenkins	The Lightweaver 1.5D Spectral Synthesis of an MPI-AMRVAC Solar Prominence/Filament
S5	15:15 - 15:30	D.F. Ryan	Deriving and Visualizing X-ray Source Properties in 3-D Using Hinode/XRT and SolO/STIX
S1 Review	17:00 - 17:30	N. Bello Gonzalez	Convective cells and magnetic fields
S1	17:30 - 17:45	N. Nitta	How much do we know about the polar field?
S1	17:45 - 18:00	A. Popovas	First results from global MHD simulations of Solar convective zone

Tuesday, September 20

Chair: Graham Kerr

S1 Inv.	9:00 - 9:20	S.S.A. Silva	Formation of vortex tubes
S1 Inv.	9:20 - 9:40	K. Cho	Generation of umbral oscillations and subsurface structure of sunspots
S1 Inv.	9:40 - 10:00	R.T. Ishikawa	Multi-scale deep learning for estimating horizontal velocity fields on the solar surface
S1	10:00 - 10:15	T. Oba	Study of the relation between the reversed granulation and the gas compression/expansion
S1	10:15 - 10:30	L. Bellot Rubio	Unipolar and bipolar magnetic flux appearance in the solar internetwork
S2 Review	12:00 - 12:30	K. Reeves	A Review of the Hinode and IRIS Contributions to Understanding Magnetic Reconnection and Prospects for the Future
S2 Remote	12:30 - 12:45	Ying Li	Spectroscopic observations of a solar flare from IRIS and CHASE
S2	12:45 - 13:00	S. Jecic	Non-LTE Inversion of Prominence Spectroscopic Observations in H-alpha and MgII lines

Chair: Sabrina Savage

S2 Inv.	14:30 - 14:50	W. Ashfield	Condensation in flares, observation and modeling
S2 Inv.	14:50 - 15:10	R.J. French	Probing Current Sheet Instabilities from Flare Ribbon Dynamics
S2	15:10 - 15:25	I. Cabello	A textbook example of magnetic flux emergence leading to EBs, UV bursts, surges and EUV signatures
S2	17:00 - 17:15	S.L. Guglielmino	Small-scale reconnection events observed by IRIS: microflares, UV bursts and their complex configurations
S2	17:15 - 17:30	M. Garcia-Rivas	First co-temporal GREGOR and IRIS observations of a solar flare
S2	17:30 - 17:45	J. Zbinden	How well can we predict flares based on IRIS Mg II, Si IV, and C II spectra?
S2 Remote	17:45 - 18:00	G. Chintzoglou	Revealing Strong Photospheric Downflows in Collisional Polarity Inversion Lines of Flare- and CME-Productive Active Regions

Wednesday, September 21

Chair: Bart De Pontieu

S2	9:00 - 9:15	S. Roy	<u>Thermal and Non-thermal Energy Evolution in Solar Flares</u>
S2	9:15 - 9:30	J. Dudik	<u>Filament self-reconnection as a possible source of SADs</u>
S3 Review	9:30 - 10:00	D. Baker	<u>Upflows in active regions and their composition</u>
S3	10:00 - 10:15	M. Gosic	<u>Emergence of internetwork magnetic fields into the chromosphere and transition region</u>
S3	10:15 - 10:30	Yajie Chen	<u>Doppler shifts of spectral lines formed in the solar transition region and corona</u>
S3	12:00 - 12:15	J. de la Cruz Rodriguez	<u>Spatially-resolved radiative losses in the chromosphere</u>
S3	12:15 - 12:30	S. Bose	<u>On the correlation between chromospheric and coronal heating in an active region moss</u>
S3	12:30 - 12:45	C.M.J. Osborne	<u>Considering the Radiative Interaction between Flares and Neighbouring Chromosphere</u>
S3	12:45 - 13:00	M. Barta	<u>What is the temperature of solar prominences? First independent determination using ALMA, H-alpha, and IRIS</u>

Thursday, September 22

Chair: Sarah Matthews

S3 Inv.	9:00 - 9:20	J. M. da Silva Santos	Heating of the solar chromosphere
S3 Inv. Remote	9:20 - 9:40	Leping Li	Coronal condensations in hybrid prominence/coronal rain structures
S3	9:45 - 10:00	V. Hansteen	Mg II formation in the Solar Chromosphere
S3	10:00 - 10:15	S. Sahin Metcalf lecture	Prevalence of Thermal Non-Equilibrium over an Active Region
S3	10:15 - 10:30	P. Testa	Evolution of coronal abundances in active regions
<hr/>			
S3	12:00 - 12:15	T.A. Howson	The atmospheric response to heating driven by random foot point driving
S3	12:15 - 12:30	R. Morosin	Spatio-temporal analysis of chromospheric heating in a plage region
S3	12:30 - 12:45	T. Mihalescu	What determines active region coronal plasma composition?
S3	12:45 - 13:00	S. Mulay	A detailed investigation of molecular hydrogen at three flare ribbons

Chair: Patrick Antolin

S4 Review	14:30 - 15:00	K. Karamelas	MHD waves and instabilities in relation to oscillatory reconnection
S4	15:00 - 15:15	A. Sainz Dalda	Turbulence in the chromosphere during flares: taking on the challenge.
S4	15:15 - 15:30	M. Murabito	Relationship between high FIP bias and magnetic wave power
<hr/>			
S4	17:00 - 17:15	J. Lorincik	Rapid variations of Si IV line properties in an M-class flare observed by IRIS at very high cadence
S4	17:15 - 17:30	J. Joshi	Properties of ubiquitous magnetic reconnection events in the lower solar atmosphere
S4	17:30 - 17:45	P. Kohutova	Coronal oscillations in the self-consistent 3D MHD simulations of the solar atmosphere
S4	17:45 - 18:00	Y. Kotani	Universal Correlation between the Ejected Mass and Total Flare Energy for Solar and Stellar Cold Plasma Ejection

Friday, September 23

Chair: Bernhard Fleck

S4 Inv. Remote	9:00 - 9:20	Wenxian Li	Coronal magnetic fields measurement using MIT method
S4 Inv.	9:20 - 9:40	B. Popescu Braileanu	Ion-neutral interactions, MHD instabilities
S4	9:40 - 9:55	V. Polito	IRIS and NuSTAR observations of a small B-class flare
S4	9:55 - 10:10	P. Ondratschek	MgII spectra of an enhanced network region simulated with the MURaM code
S4	10:10 - 10:25	A.R.C. Sukarmadji	Nanojets as pointers to the flare initiation process
	12:00 - 12:20	B. De Pontieu	The MUlti-slit Solar Explorer mission
	12:20 - 12:40	T. Shimizu	Solar-C EUVST
	12:40 - 13:00	Closure of the meeting	
