







ptember 25		
	08:30-09:30 Registration	
	09:30-10:00 Welcome	
10:00-11:00 Session I:	Future space missions and ground-based telescopes	
Holly Gilbert	Solar Orbiter: Joint Mission to Study the Sun	Invited talk
Manuel Collados	The European Solar Telescope: the future of European ground-based solar physics	Invited talk
11:00-	11:45 Coffee break and poster view	
00 Session II: Solar dyna	amo, activity and magnetic coupling of interior and atmos	phere
Mausumi Dikpati	Global MHD tachocline instabilities	Invited review
Kirill Kuzanyan	Tilt and Helicity of Solar Active Regions: theoretical mechanism and observational regularities	
Andrey Tlatov	Formation of a polar magnetic field in a cycle 24	
	13:00-15:00 Lunch break	
00 Session II: Solar dyna	amo, activity and magnetic coupling of interior and atmos	phere
Laurent Gizon	Equatorial Rossby waves in the solar interior	
Eka Gurgenashvili	North-south Asymmetry in Rieger-type Periodicity during Solar Cycles 19-23	
Teimuraz Zaqarashvili	Magneto-Rossby waves in the solar tachocline	
16:00-	16:30 Coffee break and poster view	
16:30-18:05	Session III: Convection and Helioseismology	
Mark Miesch	The Convection Conundrum: Mystery and Intrigue Below the Solar Surface	Invited review
Chris Hanson	The state of the art: Inversions for flows in the solar interior	
Hannah Schunker	Statistical analysis of the evolution of active region tilt angles	
Sushanta Ttripathy	Magnetoseismic Study of Active Regions	
	10:00-11:00 Session I: Holly Gilbert Manuel Collados 11:00- 00 Session II: Solar dyna Mausumi Dikpati Kirill Kuzanyan Andrey Tlatov 00 Session II: Solar dyna Laurent Gizon Eka Gurgenashvili Teimuraz Zaqarashvili 16:00- 16:30-18:05 S Mark Miesch Chris Hanson Hannah Schunker	08:30-09:30 Registration 09:30-10:00 Welcome 10:00-11:00 Session I: Future space missions and ground-based telescopes Holly Gilbert Solar Orbiter: Joint Mission to Study the Sun Manuel Collados The European Solar Telescope: the future of European ground-based solar physics 11:00-11:45 Coffee break and poster view 00 Session II: Solar dynamo, activity and magnetic coupling of interior and atmos Mausumi Dikpati Global MHD tachocline instabilities Kirill Kuzanyan Tilt and Helicity of Solar Active Regions: theoretical mechanism and observational regularities Andrey Tlatov Formation of a polar magnetic field in a cycle 24 13:00-15:00 Lunch break 00 Session II: Solar dynamo, activity and magnetic coupling of interior and atmos Laurent Gizon Equatorial Rossby waves in the solar interior Eka Gurgenashvili North-south Asymmetry in Rieger-type Periodicity during Solar Cycles 19-23 Teimuraz Zaqarashvili Magneto-Rossby waves in the solar tachocline 16:00-16:30 Coffee break and poster view 16:30-18:05 Session III: Convection and Helioseismology Mark Miesch The Solar Surface Chris Hanson The state of the art: Inversions for flows in the solar interior Hannah Schunker Statistical analysis of the evolution of active region tilt angles

19:30 PM Welcome Reception









Tuesday, September 26

	09:15-10:	30 Session IV: Photospheric magnetism	
09:15-09:45	Sami Solanki	Photospheric Magnetism	Invited review
09:50-10:05	Nataliia Shchukina	Spectropolarimetric diagnostics of photospheric magnetic fields from the Hanle and Zeeman effects	
10:10-10:25	Robertus Erdelyi	MHD waves in asymmetric waveguides	
	10:30	-11:40 Coffee break and poster view	
	11:40-13:	00 Session IV: Photospheric magnetism	
11:40-11:55	Arnold Hanslmeier	Tomography of the lower solar atmosphere	
12:00-12:15	Peter Leitner	Tracking of photospheric shock waves in computational fluid dynamics data by means of post-processing detection algorithms based on edge detection and shock surface normals computation	
12:20-12:35	David Kuridze	Spectropolarimetric inversions of the Ca 8542 and Fe I 6173 Å lines in a M-class solar flare	
12:40-12:55	Tamar Chaghiashvili	Photospheric responses during high-energy flares	
		13:00-15:00 Lunch break	
	15:00-16:40 Ses	sion V: Chromospheric structure and dynamics	
15:00-15:30	Jaime De la Cruz Rodriguez	The chromosphere: structure and dynamics	Invited review
15:35-15:50	Mats Carlsson	Recent developments in modelling of the chromosphere	
15:55-16:15	Nabil Freij	QSEBs with co-spatial IRIS Bursts	Invited talk
16:20-16:35	Sara Esteban Pozuelo	Polarization in penumbral microjets	
	16:40	-17:10 Coffee break and poster view	
	17:10-18:35 Ses	sion V: Chromospheric structure and dynamics	
17:10-17:30	Marco Stangalini	Polarized Kink Waves in Magnetic Elements: Evidence for Chromospheric Helical Waves	Invited talk
17:35-17:50	Kris Murawski	Numerical model of a partially-ionized solar atmosphere	
17:55-18:10	Rahul Sharma	Dynamical response of 3D spicular waveguides to the magnetohydrodynamical wave-mode(s)	
18:15-18:30	Nana Shatashvili	Magneto-Fluid Coupling in Dynamic Finely Structured Solar Atmosphere – Theory and Simulation	









Wednesday, September 27

09:15-10:50 Session VI: Magnetic coupling in the solar atmosphere				
09:15-09:45	Bart De Pontieu	Interface Region Imaging Spectrograph views of how the solar atmosphere is energized	Invited review	
09:50-10:10	Abhishek Srivastava	High-frequency Torsional Alfvén Waves as an Energy Source in the Solar Corona	Invited talk	
10:15-10:30	Roberto Soler	Propagation of Torsional Alfven Waves from the Photosphere to the Corona: Reflection, Transmission, and Heating in Expanding Flux Tubes		
10:35-10:50	Teimuraz Kvernadze	Detection of the Hanle and Zeeman Effects in Ha and He I D3 of the Solar Spicules using Polarization-holographic Imaging Stokes Polarimeter		

10:55-11:25 Coffee break and poster view

11:25-13:00 Session VI: Magnetic coupling in the solar atmosphere				
11:25-11:55	Javier Trujillo Bueno	Prospects to Explore the Outer Solar Atmosphere with the Polarization of Ultraviolet Lines	Invited review	
12:00-12:15	Isabell Piantschitsch	Numerical Simulation of Large Scale Amplitude Coronal Waves interacting with Corona Holes		
12:20-12:35	Błażej Kuzma	2-Fluid Numerical Simulations of Solar Spicules		
12:40-12:55	Julius Koza	Spectral Inversion of the Ha and Ca II 8542 A Lines Observed by SST/CRISP in Chromospheric Jets		

13:00-15:00 Lunch break

15:00-18:30 Excursion









Thursday, September 28

09:15-10:45 Session VII: Solar corona				
09:15-09:45	Therese Kucera	Solar Prominences - Structure and Origins	Invited review	
09:50-10:05	José Luis Ballester	The temporal behaviour of MHD waves in a partially ionized prominence-like plasma: Effect of heating and cooling		
10:10-10:25	Aaron Hernandez-Perez	On the generation mechanisms of ribbons in a confined flare		
10:30-10:45	Pavel Kotrc	On the Measurement of Spectral Continua Flux in Solar Flares		

10:50-11:35 Coffee break and poster view

11:35-13:00 Session VII: Solar corona				
11:35-11:55 Konstantinos Karampelas		Heating by transverse waves in 3D simulations of turbulent coronal loops	Invited talk	
12:00-12:15 Charalambos Kanella		Radiative Cooling of Joule Heating Events in MHD Simulations of the Solar Corona		
12:20-12:35	Chris Nelson	The role of cancellation in driving small-scale transients and filling coronal loops		
12:40-12:55	Leon Ofman	The role of waves and turbulence in the solar wind plasma		

13:00-15:00 Lunch break

15:00-18:30 Visit wine cellar

20:00 Conference diner









Friday, September 29

10:00-11:15 Session VIII: Solar wind			
10:00-10:30	Rui Pinto	The solar wind: challenges for theory, modelling and observations	Invited review
10:35-10:50	Roberto Bruno	Magnetic Field Background Spectrum, from Fluid to Kinetic Scales, as Observed in the Solar Wind	
10:55-11:10	Grigol Gogoberidze	Very high frequency temperature spectrum in the solar wind	

11:15-11:55 Coffee break and poster view

11:55-13:00 Session VIII: Solar wind

11:55-12:15	Zoltan Vörös	In situ observations of magnetic reconnection in plasma turbulence	Invited talk
12:20-12:35	Tina Kahniashvili	Magnetohydrodynamic Turbulence and Its Application	
12:40-12:55	Bidzina Shergelashvili	The model of solar wind polytropic flow patterns	

13:00-15:00 Lunch break

15:00-16:35 Session: IX: Solar flares, CMEs and space weather			
15:00-15:30	Francesca Zuccarello	Eruptive phenomena on the Sun	Invited review
15:35-15:50	Marianna Korsos	Novel flare forecasting in 3D solar active regions	
15:55-16:10	Aabha Monga	Fast CME associated with giant prominence eruption	
16:15-16:30	Irakli Mghebrishvili	Statistical relation of tornadoes to instability of hosting prominences	

16:35-17:05 Coffee break and poster view

17:05-18:10 Session IX: Solar flares, CMEs and space weather			
17:05-17:25	David Tsiklauri	Particle-In-Cell, fully kinetic scale modelling of solar radio bursts based on non-gyrotropic and plasma emission mechanisms	Invited talk
17:30-17:45	Jordi Tuneu	Microwave and sub-mm radiation from energetic ion secondary particles	
17:50-18:05	Jaša Calogovic	Drag-Based Ensemble Model (DBEM): probabilistic model for heliospheric propagation of ICMEs	

18:10- Final remarks and close