2-6 November, 2009 Puerto de La Cruz, Tenerife, Spain



SCIENTIFIC PROGRAMME

Sunday, 1st November

19:00 – 20:00 Registration and Welcome cocktail

Monday, 2 nd November			
08:00 - 09:00	Registration		
09:00 - 09:15	Welcome Address		

Session I Flux emergence in the interior and low atmosphere

09:15 – 09:45	<i>Invited review:</i> Flux emergence and the role of convection and large scale flows (S. Brun)
09:45 - 10:15	Invited review: Magnetic flux emergence in granular convection (M Cheung)
10:15 - 10:30	MHD flux emergence simulations through a convecting layer (A Lagerfjaerd)
10:30 - 11:00	POSTER SESSION
11:00 – 11:45	Coffee-break
11:45 – 12:15	<i>Invited review:</i> Observations of flux emergence events in the quiet Sun (L Bellot Rubio)
12:15 – 12:30	Linking the quiet photosphere and chromosphere with small magnetic loops (MJ Martinez Gonzalez)
12:30 – 12:45	Signatures of magnetic reconnection occurring in a small-scale emerging flux region inferred by high-resolution multi-wavelength observations (S Guglielmino)
12:45 - 13:00	Formation of a penumbra (N. Bello)

13:00– 14:30 **Lunch break**

Session II Flux emergence into the higher atmosphere 14:30 – 15:00 Invited review: Coronal jets: 3D numerical experiments and observations (K Galsgaard) 15:00 – 15:30 Invited review: Chromospheric anemone jets, emerging flux, and Ellerman bombs (K Shibata) 15:30 – 15:45 Photospheric and coronal signatures of flux emergence (A Hood) 15:45 – 16:00 Toroidal flux emergence (D McTaggart)



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16:00 – 16: 45	Coffee-break
16:45 – 17:00	Photospheric flows during flux emergence that drive coronal mass ejections (W Manchester)
17:00 - 17:30	Invited review: Flux emergence into the high atmosphere (V Hansteen)
17:30 – 17:45 17:45 – 18:00	Quasi-realistic 3D simulations of flux emergence into the corona (J Martinez Sykora) 3D MHD simulations of solar active regions (J.C. Santos)
	Tuesday, 3 rd November
Session III	Connectivity between atmospheric layers
Session 111	Connectivity between atmospheric layers
09:00 - 09:30	<i>Invited review:</i> Observations of photospherc-chromospheric magnetic coupling (H. Socas)
09:30 - 09:45	Magnetic field strength and topology of active region filaments (C. Kuckein)
09:45 - 10:00	Measurement of photospheric horizontal motions in filament footpoints: comparison between different techniques (P. Romano)
10:00 - 10:30	Invited review: Spectropolarimetric investigations of the magnetization of the quiet
10:30 - 10:45	Sun chromosphere (J. Trujillo-Bueno) H-alpha as diagnostics of chromospheric magnetism (J. Stepan)
10:45- 11:30	Coffee-break
101.10 11.00	
11:30 – 11:45	Reconstruction of a coronal magnetic flux rope from THEMIS/MTR vector map using nlfff extrapolation (B. Schmieder)
11:45 - 12:00	Non-linear force-free field models of small-scale solar magnetic fields (K. Meyer)
12:00 - 12:15	Effect of solar chromospheric neutrals on equilibrium field structures (G.J.J. Botha)
12:15 – 12:30	MHD dynamical evolution to MHS equilibria (J. Fuentes-Fernandez)
12:30 – 14:30	Lunch break
12.50 11.50	Editor broat

14:30 – 15:00 *Invited review:* Recent results on the dynamical evolution of topological structures (E. Pariat) 15:00 – 15:15 Magnetic skeletons: How to find them and why are they important (A. Haynes) 15:15 – 15:30 A phenomenological model for fluctuating magnetic fields in the photosphere (K. Petrovay)

Connectivity between atmospheric layers (cont)

Session IV

3rd SOLAIRE NETWORK MEETING and Flux Emergence Workshop 2009

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15:30 - 16:00	POSTER SESSION
16:00 – 16:45	Coffee-break
17:00 – 17:15	Momentum exchange between distant points of solar surface (R. Grappin) A non wave model for coronal waves (C. Delanee) Magneto-acoustic waves in sunspots: first results from a new 3D nonlinear magnetohydrodynamic code (T. Felipe)

Special session: the SUNRISE mission

17:30 – 18:00 **Invited review:** SUNRISE: the mission, the flight (June 2009) and first results (V. Martínez Pillet)

Wednesday, 4th November

Reconnection
Invited review: Separator and non-null reconnection (C. Parnell) Invited review: Magnetic reconnection at 3D null points (D. Pontin)
Magnetic Reconnection in weakly ionized solar chromosphere (H. Isobe)
POSTER SESSION
Coffee-break
Invited review: MHD simulations of reconnection in a current sheet with initial finite perturbations (T. Yokoyama)
Spontaneous non-steady and high-power reconnection within the solar atmosphere (L. Bettarini)
Coronal heating and nanoflares as gradient driven instabilities (J. Vranjes)
The Parker problem for coronal heating: magnetically dominated MHD turbulence in a low-beta environment (F. Rapazzo)

12:45 – 14:30 *Lunch break*

Session VI Flares

14:30 – 15:00 *Invited review:* The magnetic environment and evolution in flares: General theory and flux emergence models (B. Kliem)



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		Probing multiscale dynamical systems with solar flare observations (S. Liu) <i>Invited review:</i> The magnetic environment and evolution in flares: observations (F. Zuccarello)
	15:45 – 16:00	A radiative hydrodynamic model applied to solar flares. (F. Rubio da Costa)
	16:00 – 16:45	Coffee-break
	16:45 – 17:15	Invited review: Electron and ion acceleration in solar flares (N. Vilmer)
	17:15 – 17:30	Particle acceleration in flares by collapsing magnetic traps (K. Grady)
	17:30 – 17:45	Solar flare PIC simulation results (G. Baumann)
	17:45 – 18:00	Total volume of non-ideal regions in cascading magnetic reconnection and particle acceleration in solar flares (M. Barta)
	20:00 – 23:00	Closing dinner at El Monasterio restaurant

Thursday, 5th November

Session VII CMEs

08:45 - 09:15 09:15 - 09:30 09:30 - 10:00 10:00 - 10:15 10:15 - 10:30	Invited review: CME initiation: flux emergence (C Jacobs) Trend of magnetic helicity in active regions generating halo CMEs (A. Smyrli) Invited review: Large-scale development of CMEs (T. Török) The CME triggering mechanism in the flux cancellation model (G. Aulanier) The role of side magnetic reconnections in coronal mass ejections: observations and simulations(A. Soenen)
10:30 – 11:15	Coffee-break
11:15 - 11:45 11:45 - 12:00 12:00 - 12:30	Invited review: CME propagation in the interplanetary medium (J. Kleimann) Dynamics of self-similarly evolving magnetic clouds (G. Dalakishvilii) Invited review: Kinetic-theory aspects of reconnection (A. Nordlund)