

2014 LWS Meeting Agenda – Poster Sessions

DoubleTree Lloyd Center Ballroom

(as of October 29, 2014)

Monday, Nov. 3, 2 pm – 3:45 pm, Poster Session – P1/P2

Featuring Topics 2a and 2b, and Hinode/IRIS Splinters

Poster Topic 2a. *Evolving Coronal Mass Ejections from Corona, through the Heliosphere, into Geospace*

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| 101 | Kanda, Natsuo | <i>Statistical Characteristics of Filament Eruptions Obtained by the EUV Spectroscopic Observations</i> |
| 102 | Carlyle, Jack | <i>Probing the Density & Magnetic Fields of Eruptive Solar Filament Plasma (Presented by David Williams)</i> |
| 103 | Kendrick, Alexander | <i>Automated Kinematics Analysis of Off-Limb Coronal Bright Fronts Observed with SDO/AIA</i> |
| 104 | Evans, Kaitlin | <i>A Kinematic Study of Eruptive Prominences</i> |
| 105 | McKillop, Sean | <i>Characterizing Twisting and Rolling Motions in Prominence Eruptions</i> |
| 106 | Panesar, Navdeep Kaur | <i>SDO/AIA and STEREO/EUVI Observations of Prominence Dynamics during a Series of Eight Homologous Flares Leading to a CME Eruption</i> |
| 107 | Reva, Anton | <i>Initiation and Early Evolution of the Coronal Mass Ejection on May 13, 2009 from EUV and White-Light Observations</i> |
| 108 | Howard, Tim | <i>The Launch and Evolution of a Coronal Mass Ejection Flux Rope</i> |
| 109 | Liewer, Paulett | <i>Observations and Analysis of the Non-Radial Propagation of Coronal Mass Ejections near the Sun</i> |
| 110 | Lugaz, Noé | <i>Shocks Inside Coronal Mass Ejections: Properties and Geo-Effectiveness</i> |
| 111 | Thompson, Barbara | <i>Analyzing 3D CMEs with the Time Convolution Mapping Method</i> |
| 112 | Watanabe, Tetsuya | <i>Plasma Eruptions Seen in EIS during a C8.3 Flare on 2014 April 4</i> |
| 113 | Vanninathan, Kamalam | <i>DEM Analysis of a EUV Wave Generated by a CME (Presented by Maria Madjarska)</i> |
| 114 | Boerner, Paul | <i>Thermal Analysis of EUV Waves Observed with SDO/AIA</i> |
| 115 | Mason, James | <i>Parameterizing Coronal Dimmings Associated with Coronal Mass Ejections</i> |
| 116 | | <i>Withdrawn</i> |
| 117 | Linton, Mark | <i>Investigating the Origin and Evolution of Magnetic Flux Ropes in the Heliosphere</i> |
| 118 | Bain, Hazel | <i>Mapping the Alfvén Speed profile in the Inner Heliosphere using Type II Radio Bursts</i> |
| 119 | Chamberlin, Phil | <i>Future Observations of Coronal Temperature and Electron Velocity with the Spherical Occulter Coronagraph CubeSat (SpOC Cube)</i> |
| 120 | DeForest, Craig | <i>The Future of Heliospheric Imaging (Presented by Tim Howard)</i> |

Poster Topic 2b. *Dynamics of Energetic Particles, Wave-Particle Interactions, Shocks, Turbulence*

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| 121 | Alaoui, Meriem | <i>Evidence for a Co-Spatial Return Current in RHESSI Solar Flare Spectra</i> |
| 122 | Case, Anthony | <i>Solar Wind Speed-Temperature-Acceleration Relation</i> |
| 123 | Daw, Adrian | <i>Continuum Emission Observed by IRIS during Solar Flares</i> |
| 124 | Freed, Michael | <i>Characterizing Turbulent Flow in Quiescent Prominences</i> |
| 125 | Kawate, Tomoko | <i>Comparison between Visible White Light and EUV Continuum Enhancement in Solar Flares with Hinode/SOT and EIS</i> |

- 126 Roelof, Edmond *Extracting Solar Energetic Particle Injection Histories and Decay Phase Propagation Directly from Observations*
- 127 Salem, Chadi *Thermodynamics of Solar Wind Electrons*

Hinode / IRIS Poster Session

- 128 Katsukawa, Yukio *Study of High-Speed Flows Associated with Chromospheric Transients around a Sunspot (Presented by Patrick Antolin)*
- 129 Tian, Hui *IRIS Observations of the Transition Region above Sunspots*

E-Posters – Session P1

- 130-E Jibben, Patricia *Hinode, SDO AIA, and CoMP Observations of a Coronal Cavity with a Hot Coronal Cavity with a Hot Core*
- 131-E McCauley, Patrick *Filament Eruptions Observed by the Solar Dynamics Observatory*
- 132-E Schanche, Nicole *The EUV Connection to CMEs and "Blobs"*
- 133-E Stenborg, Guillermo *Coronal Mass Ejections and associated Shocks: Build-up and propagation in a complex environment*

Tuesday, Nov. 4, 10:45 am – 12:30 pm, Poster Session – P1/P2

Featuring Topics 4a and 4b

Poster Topic 4a. Origins of Solar Magnetic Fields, Variability, and Effects at Earth

- 201 Bush, Rock I. *The On-Orbit Performance of the Helioseismic and Magnetic Imager Instrument*
- 202 DeLuca, Michael *Automatic vs. Human detection of Bipolar Magnetic Regions: Using the best of both worlds*
- 203 Kusano, Kanya *Simulation Study of Hemispheric Asymmetry in Solar Cycle Activities*
- 204 Jaynes, Allison *Variability of Energetic Protons at the Outer Edge of the Inner Radiation Belt as Observed by Van Allen Probes*
- 205 Svalgaard, Leif *Revision of the Sunspot Number*
- 206 Takeda, Aki *The New Hinode/XRT Synoptic Composite Image Archive and Derived Solar Soft X-ray Irradiance*
- 207 Didkovsky, Leonid *Some Results From a New Algorithm for Using Available SDO/EVE/MEGS-A Data as Reference Solar Spectra for the EVE/ESP Absolute Solar Irradiance Calculations*
- 208 Wieman, Seth *SOHO/CELIAS/SEM 26-34 nm Absolute Irradiance Time Series from 1996 to 2014: A revised calibration and comparison with solar indices*
- 209 Thiemann, Ed *FISM-P: Modeling Solar VUV Variability throughout the Solar System*
- 210 Woods, Thomas *EUV Late Phase Flares: Before & During SDO*
- 211 Woodraska, Don *SDO-EVE Data Products: Improvements and Plans*
- 212 Wauters, Laurence *Mid-term Periodicities of the LYRA Data Spectrum*
- 213 Xu, Yan *Negative Flare Emissions Observed in EUV by SDO/AIA*

Poster Topic 4b. Modeling and Forecasting Space Climate and Space Weather Events

- 214 Bamba, Yumi *Study on Triggering Process using SDO Data*
- 215 Timmons, Ryan *Coordinated Solar Observation and Event Searches using the HEK*
- 216 Bertello, Luca *Uncertainties in Solar Synoptic Maps and Implications for Space Weather Prediction*
- 217 Gorby, Matthew *Particle Acceleration in the Low Corona Over Broad Longitudes*

- 218 Kusano, Kanya *Triggering Mechanism and Predictability of Solar Eruptions*
- 219 Dumbovic, Mateja *The CME Geomagnetic Forecast Tool (CGFT)*
- 220 Leka, K. D. *Lessening the Effects of Projection for Line-of-Sight Magnetic Field Data*
- 221 Nitta, Nariaki *Challenges in Understanding Heliospheric Disturbances before Making Space Weather Predictions Useful*
- 222 McIntosh, Scott *On the High and Low Points of the Sun-Earth Connection*
- 223 Zheng, Yihua *Challenges in Forecasting Geomagnetic Storms*
- 224 *Withdrawn*
- 225 Jones, Andrew *An Analysis of the Degradation of the EVE MEGS-A Filters: Do we understand what is happening?*
- 226 Lin, Cissi Ying-tsen *Soft X-ray Irradiance Measured by the Solar Aspect Monitor on the Extreme Ultraviolet Variability Experiment*
- 227 Woods, Tom *The Miniature X-ray Solar Spectrometer (MinXSS) CubeSat*
- 228 Shimojo, Masumi *New Window of Solar Physics: Solar observations with ALMA*
- 229 Szabo, Adam *Space Weather Prediction with the DSCOVR Spacecraft*
- 230 Wedemeyer, Sven *The SSALMONetwork: Potential science with ALMA as predicted by numerical simulations*

E-Posters – Session P2

- 231-E Hunt, Linda *SABER Observations of the Effects of Solar Variability in the Upper Atmosphere*
- 232-E Chen, Shihping *An Empirical Equatorial Spread-F Model Developed from FORMOSAT-3/COSMIC Scintillation Observation During 2007-2013*
- 233-E Liu, Wei *IRIS Observations of a Novel, Hybrid Prominence-Coronal Rain Complex in a Supra-arcade Fan Geometry*
- 234-E Upton, Lisa *Improving Synchronic Maps with Far-Side Active Region Emergence*

Wednesday, Nov. 5, 10:15 am – 12 pm, Poster Session – P3/P4

Featuring Topics 1a and 1b

Poster Topic 1a. Magnetic Energy and Field from Solar Interior to Corona and Heliosphere

- 301 Masada, Youhei *The Origin of Solar Magnetism - Large-scale Dynamos in Local and Global Convective Dynamo Simulations*
- 302 Pithadia, Manisha *Study of Mechanisms of Energy Build-up and Release in Solar Flares*
- 303 Sun, Xudong *On Magnetic Polarity Reversal and Surface Flux Transport during Solar Cycle 24*
- 304 Hoeksema, Todd *A Curiously Ineffective Solar Event*
- 305 Jafarzadeh, Shahin *Distribution of Magnetic Fields in the Quiet-Sun Internetwork*
- 306 Kasuga, Megumi *Different Photospheric Magnetic Properties at Footpoints between Hot and Warm Coronal Loops in Active Regions*
- 307 Norton, Aimee *Anti-Hale Sunspot Groups*
- 308 Oba, Takayoshi *Time Variation of Vertical Velocity Structures during Disappearance of Granules on the Photosphere*
- 309 Scott, Roger *Inferring Magnetic Evolution in Supra-Arcade Fan Structures*
- 310 Fleck, Bernard *Wave Propagation in the Internetwork Chromosphere: Comparing IRIS Observations of Mg II h and k with Simulations*
- 311 Kawate, Tomoko *Comparison of Spectral Signatures of Mg II h, k and Ca II K Lines on a Plage Region*

- 312 Hansteen, Viggo *Chromospheric and Transition Region Signatures of Emerging Magnetic Flux Bubbles: First Observations with IRIS and SST*
- 313 Leamon, Robert *The Quasi-Annual Forcing of the Sun's Eruptive, Radiative and Particulate Output*
- 314 Mason, Helen *Chromospheric Evaporation in a Recent Joint IRIS/EIS Flare Observation*
- 315 Tarbell, Ted *IRIS and Hinode SOT Observations of Small Photospheric Field Effects on the Chromosphere*
- 316 Martinez Pillet, V. *Daniel K. Inouye Solar Telescope: Collaborations and synergies between DKIST*
- 317 Marsh, Andrew *NuSTAR's First Solar Observations: Search for Transient Brightenings / Nanoflares*
- 318 Alexander, Caroline *Simulated Time Lags of Hinode/XRT and SDO/AIA Lightcurves as an Indication of Loop Heating Scenario*
- 319 Allred, Joel *Modeling Nanoflare-Heated Solar Coronal Active Regions*
- 320 Barnes, Graham *Characterizing the Properties of Coronal Magnetic Null Points*
- 321 *Withdrawn*
- 322 Cadavid, Ana *Dissipation of MHD Turbulence and Heating of Coronal Loops in Non-flaring Active Region Cores*
- 323 Foord, Adi *Observations of a Solar Flare in Association with a Quiescent Filament Eruption*
- 324 Hahn, Michael *Evidence for Wave Heating of the Quiet Corona*
- 325 Kirk, Michael *Long-Term Periodicities in Polar Coronal Holes*
- 326 Lowder, Chris *Solar Coronal Holes and Open Magnetic Flux*
- 327 Saar, Steven *A Study of the Relations between Large-Scale Active Region Canopies and Filament Formation over a Year*
- 328 Saar, Steven *Time Variation of X-ray Bright Point Properties with Hinode XRT*
- 329 Sako, Nobuharu *A Study of Acceleration Mechanisms of X-ray Jets*
- 330 Stenborg, Guillermo *Role of Jetlets and Transient Bright Points in the Sustainability of Solar Coronal Plumes*
- 331 Wedemeyer, Sven *Atmospheric Vortex Flows: New results and implications*

Poster Topic 1b. *Reconnection and Magnetic Instabilities in Geospace, Heliosphere, and Solar Atmosphere*

- 332 Asgari-Targhi, M. *Nanoflare Heating Model and the Reconnection of Solar Coronal Loops (Presented by Ed DeLuca)*
- 333 DeLuca, Edward *Survey of Active Region Magnetic Field Models*
- 334 DeVore, C. Richard *Solar Polar Jets Driven by Magnetic Reconnection with Gravity and Wind*
- 335 Hannah, Iain *The HXR and EUV Energetics of Microflares*
- 336 Herman, Daniel *Statistics of AIA's EUV Response to Solar Flares*
- 337 Imada, Shinsuke *Comparative Study of Hinode/EIS Spectroscopic Observation and Ionization Non-Equilibrium Calculation of Chromospheric Evaporation during a Solar Flare*
- 338 Korreck, Kelly *Jets in the Solar Wind: What are measureable contributions from coronal jets*
- 339 Kusano, Kanya *Simulation Study of Rapid Change of Photospheric Magnetic Field Associated with Solar Flares*
- 340 McKenzie, David *Plasma Sheets in Post-CME Flares: Turbulent Dynamics versus Temperature Variations*
- 341 Savcheva, Antonia *A Topological View at Observed Flare Features: An Extension of the Standard Flare Model to 3D*
- 342 Shestov, Sergey *Observations of the Formation of the Hot Loop Arcades in the Mg XII 8.42 Å Line*

- 343 Suematsu, Yoshinori *Dynamics of Solar Flare Kernels Observed with 3D Spectroscopy in H-alpha Line and SDO*
- 344 Moore, Ron *Reconnection and Spire Drift in Coronal Jets*
- 345 Takasao, Shinsuke *Numerical Experiment of Emergence of Kink-unstable Flux Tube to Understand Formation of Delta-sunspots*
- 346 Pulupa, Marc *Core Electron Heating in Solar Wind Reconnection Exhausts*
- 347 Toriumi, Shin *Observation of Magnetic Reconnection and Recurrent Cool Jets in Emerging Active Region NOAA 11974*
- 348 *Withdrawn*
- 349 Black, Carrie *Steps toward Multiscale Coupling: Shear Driving in Kinetic Simulations*
- 350 Xu, Zhonghua *Application of Wavelet Analysis on Conjugate High Latitude Geomagnetic ULF Pulsations*
- 351 Lewis, Maggie *Solar Irradiance Impacts on Earth's Atmosphere Ion-Neutral Processes*

E-Posters – Session P3

- 352-E Chintzoglou, Georgios *First Reconstruction of the 3-D Subsurface Magnetic Structure of Emerging Solar Active Regions Using Magnetic Vector Maps from HMI/SDO*
- 353-E Schmit, Donald *Cool Plasma Observed in the FUV using IRIS*
- 354-E Ugarte-Urra, Ignacio *Active regions from Birth to Decay: SDO/Hinode/STEREO observations*
- 355-E Brewer, Jasmine *Modeling a Super-Hot, Above-the-Loop-Top Thermal HXR Source as the Slow-Shock-Heated Reconnection Outflow*

Thursday, Nov. 6, 1 pm – 2:45 pm, Poster Session – P3/P4

Featuring Topics 3a and 3b, and E-Posters from Topic 1b

Poster Topic 3a. Ion-Neutral Interactions within Earth's Atmosphere and the Solar Atmosphere

- 401 De Pontieu, Bart *Why is Non-Thermal Line Broadening of Lower Transition Region Lines Independent of Spatial Resolution?*
- 402 Skogrud, Håkon *On the Multi-Threaded Nature of Solar Spicules*
- 403 Fletcher, Lyndsay *Properties of the Partially Ionised Flare Chromosphere Deduced from SDO Lyman Continuum Observations*
- 404 Fontenla, Juan *Chromospheric Radiative Energy Loss and Spectrum*
- 405 Hillier, Andrew *The (PIP) Code: A new astrophysical code to study partially ionised plasma*
- 406 Jaeggli, Sarah *Molecular Hydrogen in the Chromosphere, IRIS Observations and a Simple Model*

Poster Topic 3b. Heliosphere-Magnetosphere Interactions from Bowshock to Geotail

- 407 Agapitov, Oleksiy *Empirical Model of Chorus Wave Distribution in the Outer Radiation Belt*

E-Posters – Session P4

- 408-E Antolin, Patrick *Strand-like Structure and Characteristic Spectral Signatures of Transversely Oscillating Flux Tubes in the Solar Corona*
- 409-E Zacharias, Pia *Tracing Mass and Energy Flows in the Solar Atmosphere using Radiation-MHD Simulations*
- 410-E Kobelski, Adam *Initiation of AR-AR Reconnection after Flux Emergence*
- 411-E Williams, David *Supersonic Outflows Observed Along a Filament Eruption*