Results matching the search 1-79 of 79

## Presentation Search Results

<table>
<thead>
<tr>
<th>Presentation</th>
<th>Session</th>
</tr>
</thead>
</table>
| **303.02 - A 3D Two-Temperature Solar Wind Model with Alfvén Wave Heating** | **SPD Oral Session**
| Bart Van Der Holst¹, W. B. Manchester¹ ¹University of Michigan. | **303. Solar Wind and the Heliosphere**
| | Monday, May 24, 2010 2:00 - 3:00 PM |
| **317.01 - A Spherical Harmonic Analysis of the Evolution of the Photospheric Magnetic Field, and Consequences for the Solar Dynamo** | **SPD Oral Session**
| Marc L. DeRosa¹, J. T. Hoeksema², A. S. Brun³ ¹Lockheed Martin, ²Stanford University, ³CEA-CNRS-Université Paris, France. | **317. Solar Magnetism and the Activity Cycle**
| | Wednesday, May 26, 2010 4:00 - 5:30 PM |
| **306.04D - A Timing Study Of Impulsive** | **SPD Oral Session**
| Linghua Wang¹ | **306. Solar Amuse**

http://www.abstractsonline.com/Plan/SSResults.aspx
Study Of Impulsive Solar Energetic Particle Events

1SSL & Univ. of California, Berkeley.

306. Solar Amuse Bouche
Tuesday, May 25, 2010 8:30 - 9:30 AM

319.01 - Acoustic Oscillations During the Extended Solar Minimum

Sushanta Tripathy1, K. Jain1, F. Hill1
1National Solar Observatory.

SPD Oral Session
319. Solar Interior & Structure, Asteroseismology
Thursday, May 27, 2010 10:30 AM - 12:00 PM

308.03 - AIA on SDO

Alan M. Title1
1Lockheed Martin.

SPD Oral Session
308. Solar Dynamics Observatory - First Results
Tuesday, May 25, 2010 2:00 - 3:30 PM

300.02 - An Argument for Two Coronal Heating Models

Amy R. Winebarger1, H. P. Warren2, D. H. Brooks2, I. Ugarte-Urra2
1Alabama A&M Univ., 2Naval Research Laboratory.

SPD Oral Session
300. Coronal Loops
Monday, May 24, 2010 8:30 - 9:45 AM

303.01 - An MHD Model with Wave Turbulence Driven Heating and Solar Wind Acceleration

Roberto Lionello1, J. A. Linker1, Z. Mikic1, P. Riley1, M. Velli2
1Predictive Science Incorporated, 2Jet Propulsion Laboratory.

SPD Oral Session
303. Solar Wind and the Heliosphere
Monday, May 24, 2010 2:00 - 3:00 PM

306.01 - Bootstrapping the Coronal Magnetic Field with STEREO

Markus J. Aschwanden1
1Lockheed Martin ATC.

SPD Oral Session
306. Solar Amuse Bouche
Tuesday, May 25, 2010 8:30 - 9:30 AM

306.00C - Chair

J. Todd Hoeksema1
1Stanford Univ..
<table>
<thead>
<tr>
<th>Session Code</th>
<th>Chair</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Venue</th>
<th>Date &amp; Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>317.00C</td>
<td>Alexei A. Pevtsov&lt;sup&gt;1&lt;/sup&gt;</td>
<td>SPD Oral Session 317. Solar Magnetism and the Activity Cycle</td>
<td>National Solar Observatory.</td>
<td>Tuesday, May 25, 2010 8:30 - 9:30 AM</td>
<td></td>
</tr>
<tr>
<td>320.00C</td>
<td>Robert P. Lin&lt;sup&gt;1&lt;/sup&gt;</td>
<td>SPD Oral Session 320. Solar Flares</td>
<td>UC, Berkeley.</td>
<td>Wednesday, May 26, 2010 4:00 - 5:30 PM</td>
<td></td>
</tr>
<tr>
<td>313.00C</td>
<td>Hugh S. Hudson&lt;sup&gt;1&lt;/sup&gt;</td>
<td>SPD Oral Session 313. Irradiance</td>
<td>UC, Berkeley.</td>
<td>Wednesday, May 26, 2010 10:30 - 11:45 AM</td>
<td></td>
</tr>
<tr>
<td>314.00C</td>
<td>David F. Webb&lt;sup&gt;1&lt;/sup&gt;</td>
<td>SPD Oral Session 314. Coronal Mass Ejections</td>
<td>Boston College.</td>
<td>Wednesday, May 26, 2010 2:00 - 3:30 PM</td>
<td></td>
</tr>
<tr>
<td>305.00C</td>
<td>Bart De Pontieu&lt;sup&gt;1&lt;/sup&gt;</td>
<td>SPD Oral Session 305. Chromosphere &amp; Transition Region</td>
<td>Lockheed Martin Solar &amp; Astrophysics Lab.</td>
<td>Monday, May 24, 2010 4:00 - 5:30 PM</td>
<td></td>
</tr>
<tr>
<td>321.00C</td>
<td>Gordon Dean Holman&lt;sup&gt;1&lt;/sup&gt;</td>
<td>SPD Oral Session 321. Flares &amp; Energetic Particles</td>
<td>NASA's GSFC.</td>
<td>Thursday, May 27, 2010 3:00 - 4:30 PM</td>
<td></td>
</tr>
<tr>
<td>Session</td>
<td>Chair</td>
<td>Authors</td>
<td>Session Details</td>
<td></td>
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<td>---------</td>
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<td></td>
</tr>
<tr>
<td>319.00C - Chair</td>
<td>Jesper Schou&lt;sup&gt;1&lt;/sup&gt;, 1Stanford Univ.</td>
<td>SPD Oral Session 319. Solar Interior &amp; Structure, Asteroseismology Thursday, May 27, 2010 10:30 AM - 12:00 PM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>319.02 - Changes in the Strength and Structure of the Sun’s Meridional Flow during Cycle 23</td>
<td>David H. Hathaway&lt;sup&gt;1&lt;/sup&gt;, L. Rightmire&lt;sup&gt;2&lt;/sup&gt;, 1NASA/MSFC, 2University of Memphis.</td>
<td>SPD Oral Session 319. Solar Interior &amp; Structure, Asteroseismology Thursday, May 27, 2010 10:30 AM - 12:00 PM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300.00C1 - Co-Chair</td>
<td>Harry Warren&lt;sup&gt;1&lt;/sup&gt;, 1Naval Research Lab.</td>
<td>SPD Oral Session 300. Coronal Loops Monday, May 24, 2010 8:30 - 9:45 AM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300.00C2 - Co-Chair</td>
<td>James A. Klimchuk&lt;sup&gt;1&lt;/sup&gt;, 1NASA GSFC.</td>
<td>SPD Oral Session 300. Coronal Loops Monday, May 24, 2010 8:30 - 9:45 AM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>308.00C1 - Co-Chair</td>
<td>W. Dean Pesnell&lt;sup&gt;1&lt;/sup&gt;, 1NASA GSFC.</td>
<td>SPD Oral Session 308. Solar Dynamics Observatory - First Results Tuesday, May 25, 2010 2:00 - 3:30 PM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>308.00C2 - Co-Chair</td>
<td>Barbara J. Thompson&lt;sup&gt;1&lt;/sup&gt;, 1NASA’s GSFC.</td>
<td>SPD Oral Session 308. Solar Dynamics Observatory - First Results Tuesday, May 25, 2010 2:00 - 3:30 PM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300.03 - Comparison of 3D and 1D Coronal Loop Simulations and Their Implied Emissions</td>
<td>Yung Mok&lt;sup&gt;1&lt;/sup&gt;, R. Lionello&lt;sup&gt;2&lt;/sup&gt;, Z. Mikic&lt;sup&gt;2&lt;/sup&gt;, J. Linker&lt;sup&gt;2&lt;/sup&gt;, 1Univ. of California,</td>
<td>SPD Oral Session 300. Coronal Loops Monday, May 24, 2010 8:30 - 9:45 AM</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**317.02 - Comparisons of Photospheric Convection Cell Characteristics During the Solar Minima of Cycles 22-23 and 23-24**

Peter E. Williams\(^1\), W. D. Pesnell\(^1\)

\(^1\)NASA/GSFC.

**SPD Oral Session**

317. Solar Magnetism and the Activity Cycle

Wednesday, May 26, 2010 4:00 - 5:30 PM

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**308.04 - Computer Vision for SDO: First Results from the SDO Feature Finding Algorithms**

Petrus C. Martens\(^1\), G. Attrill\(^2\), A. Davey\(^2\), A. Engeli\(^2\), S. Farid\(^2\), P. Grigis\(^2\), J. Kasper\(^2\), K. Korreck\(^2\), S. Saar\(^2\), Y. Su\(^2\), P. Testa\(^2\), M. Wills-Davey\(^2\), P. Bernasconi\(^3\), N. Raouafi\(^3\), M. Georgoulis\(^4\), C. Deforest\(^5\), J. Peterson\(^5\), T. Berghoff\(^6\), V. Delouille\(^6\), J. Hochedez\(^6\), B. Mampaey\(^6\), C. Verbeek\(^6\), J. Curtain\(^7\), S. Green\(^8\), R. Timmons\(^8\), A. Savcheva\(^9\), R. Angryk\(^10\), T. Wiegelmann\(^11\), R. McAteer\(^12\)

\(^1\)Department of Physics, Montana State University, \(^2\)Smithsonian Astrophysical Observatory, \(^3\)Applied Physics Lab, Johns Hopkins University, \(^4\)Academy of Athens, Greece, \(^5\)Southwest Research Institute,

**SPD Oral Session**

308. Solar Dynamics Observatory - First Results

Tuesday, May 25, 2010 2:00 - 3:30 PM
6Royal Observatory of Belgium, Belgium,
7NASA Marshall Space Flight Center,
8Lockheed-Martin Solar and Astrophysics Laboratory, 9Boston University,
10Department of Computer Science, Montana State University, 11Max Planck Institut fuer Sonnensystemforschung, Germany, 12School of Physics, Trinity College Dublin, Ireland.

321.04 - Consequences of Nonthermal Particle Distributions in the Nanoflare Heating Model

Henry D. Winter, III1

1SAO.

313.03 - Cool Star Photometry: Insight Into Temporal and Spatial Activity Variation

Steven H. Saar1

1Harvard-Smithsonian, CfA.

320.02 - Deflation of Coronal Loops in Solar Eruptions

Rui Liu1, H. Wang1

1New Jersey Institute of Technology.

305.03 - Delving into the Chromosphere: New Observational Tools

Kevin P. Reardon1, G. Cauzzi1, A. Tritschler2, H. Uitenbroek2

1INAF / Arcetri Astrophysical Observatory, Italy,
2 National Solar Observatory.

300.01D - Determining the Temperature Structure of Solar Coronal Loops using their Temporal Evolution

Fana Mulu$^1$, A. R. Winebarger$^1$, H. P. Warren$^2$, M. J. Aschwanden$^3$, J. A. Klimchuk$^4$

$^1$Alabama A& M University, $^2$Naval Research Laboratory, $^3$Lockheed Martin, Advanced Technology Center Solar & Astrophysics Lab, $^4$Goddard Space Flight Center.

308.05 - Developing Physics-Based Procedures for Local Helioseismic Probing of Sunspots and Magnetic Regions

Aaron Birch$^1$, D. C. Braun$^1$, A. Crouch$^1$, M. Rempel$^2$, Y. Fan$^2$, R. Centeno$^2$, J. Toomre$^3$, D. Haber$^3$, B. Hindman$^3$, N. Featherstone$^3$, T. Duvall, Jr.$^4$, J. Jackiewicz$^5$, M. Thompson$^6$, R. Stein$^7$, L. Gizon$^8$, R. Cameron$^8$, Y. Saidi$^8$, S. Hanasoge$^8$, R. Burston$^8$, H. Schunker$^8$, H. Moradi$^8$

$^1$NWRA/CoRA Div., $^2$NCAR, HAO Div., $^3$University of Colorado, JILA, $^4$NASA, GSFC, $^5$New Mexico State University, $^6$University of Sheffield, United

SPD Oral Session 300. Coronal Loops Monday, May 24, 2010 8:30 - 9:45 AM

SPD Oral Session 308. Solar Dynamics Observatory - First Results Tuesday, May 25, 2010 2:00 - 3:30 PM
305.07 - Direct Imaging of an Emerging Flux Rope and a Resulting Chromospheric Jet Observed by Hinode

Wei Liu\textsuperscript{1}, T. Berger\textsuperscript{2}, A. M. Title\textsuperscript{2}, T. D. Tarbell\textsuperscript{2}, M. DeRosa\textsuperscript{2}
\textsuperscript{1}Stanford-Lockheed Institute for Space Research, \textsuperscript{2}Lockheed Martin Solar and Astrophysics Laboratory, Department ADBS.

300.05 - Dynamics of Active Regions: Observations and 3D MHD Modeling

Hardi Peter\textsuperscript{1}, S. Bingert\textsuperscript{1}
\textsuperscript{1}Max Planck Institute for Solar System Research, Germany.

314.06 - Emergence and Eruption of Magnetic Flux Ropes, a Model for Coronal Mass Ejections

Ward B. Manchester, \textsuperscript{IV} F. Fang\textsuperscript{1}, B. van der Holst\textsuperscript{1}
\textsuperscript{1}Univ. of Michigan.

321.01 - Energetics in Two-ribbon Flares

Jiong Qiu\textsuperscript{1}, W. Liu\textsuperscript{1}, N. Hill\textsuperscript{2}, M. Kazachenko\textsuperscript{1}
\textsuperscript{1}Montana State Univ., \textsuperscript{2}Grinnell College.

305.06 - Energy Transfer by Enthalpy in the Solar Atmosphere

Stephen Bradshaw\textsuperscript{1}, P. J. Cargill\textsuperscript{2}
\textsuperscript{1}NASA Goddard Space Flight Center, \textsuperscript{2}Imperial College London, United Kingdom.

314.03D - Evidence

Claire Raftery\textsuperscript{1}, P. T.
For Internal Tether-cutting in a Flare/CME Event.

Gallagher\(^2\), R. T. J. McAtreer\(^2\), C. H. Lin\(^2\), G. Delahunt\(^2\)

\(^1\)Space Science Lab, UC Berkeley, \(^2\)Trinity College, Ireland.

314. Coronal Mass Ejections
Wednesday, May 26, 2010 2:00 - 3:30 PM

303.03 - Examining Periodic Solar Wind Density Structures in SECCHI HI1A

Nicholeen Viall\(^1\), A. Vourlidas\(^2\), H. Spence\(^3\), R. Howard\(^2\)

\(^1\)NASA Goddard Space Flight Center, \(^2\)Naval Research Laboratory, Solar Physics Branch, \(^3\)University of New Hampshire, Space Science Center.

303. Solar Wind and the Heliosphere
Monday, May 24, 2010 2:00 - 3:00 PM

313.04 - First Accurate, and Surprising, Observations of Solar Spectral Irradiance by the SIM/SORCE Instrument

Juan Fontenla\(^1\), J. Harder\(^1\), T. Woods\(^1\)

\(^1\)LASP-Univ. of Colorado Boulder.

313. Irradiance
Wednesday, May 26, 2010 10:30 - 11:45 AM

308.01 - First Data From the Helioseismic and Magnetic Imager

Jesper Schou\(^1\), HMI Team

\(^1\)Stanford Univ..

308. Solar Dynamics Observatory - First Results
Tuesday, May 25, 2010 2:00 - 3:30 PM

313.01 - Global-Scale Dynamics of the Deep Solar Convection Zone and Implications for Irradiance Variability

Mark S. Miesch\(^1\)

\(^1\)HAO/NCAR.

313. Irradiance
Wednesday, May 26, 2010 10:30 - 11:45 AM

302.02 - Hot Prominence Cavities

Shadia R. Habbal\(^1\), M. Druckmuller\(^2\), H. Morgan\(^1\), I. Scholl\(^1\), V. Harder\(^1\), T. Woods\(^1\)

\(^1\)LASP-Univ. of Colorado Boulder, \(^2\)Trinity College, Ireland.

302. Coronal Magnetic Fields
Morgan¹, I. Scholl¹, V. Rusin³, A. Daw⁴, J. Johnson⁵, M. Arndt⁶
¹Univ. of Hawaii at Manoa, ²Faculty of Mechanical Engineering, Brno University of Technology, Czech Republic, ³Astronomical Institute, Slovak Academy of Sciences, Slovakia, ⁴NASA GSFC, ⁵Electron, ⁶Bridgewater State University.

319.03 - Investigation of Subsurface Connections in Complexes of Activity by Local Helioseismology

Alexander G. Kosovichev¹, T. L. Duvall, Jr²
¹Stanford Univ., ²Solar Physics Laboratory, GSFC NASA.

SPD Oral Session
319. Solar Interior & Structure, Asteroseismology
Thursday, May 27, 2010 10:30 AM - 12:00 PM

314.01 - Isolating CME Signals In Coronagraph Images

Huw Morgan¹
¹Institute for Astronomy.

SPD Oral Session
314. Coronal Mass Ejections
Wednesday, May 26, 2010 2:00 - 3:30 PM

319.04D - Local Helioseismology with Solar Optical Telescope onboard Hinode

Kaori Nagashima¹
¹Graduate University for Advanced Studies, Japan.

SPD Oral Session
319. Solar Interior & Structure, Asteroseismology
Thursday, May 27, 2010 10:30 AM - 12:00 PM

321.03 - Magnetic Energy Spectrum and Intermittency in Solar Active Regions of Different Flare Productivity

Valentyna Abramenko¹
¹Big Bear Solar Observatory.

SPD Oral Session
321. Flares & Energetic Particles
Thursday, May 27, 2010 3:00 - 4:30 PM
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
</table>
| 306.03  | Measurements of the Coronal Acceleration Region of a Solar Flare     | Sam Krucker\(^1\), H. S. Hudson\(^1\), S. M. White\(^2\), S. Masuda\(^3\), R. P. Lin\(^1\)  
\(^1\)UC, Berkeley, \(^2\)Air Force Research Laboratory, \(^3\)Space Vehicles  
Directorate, \(^3\)University of Nagoya, Japan. | SPD Oral Session  
306. Solar Amuse Bouche  
Tuesday, May 25, 2010  
8:30 - 9:30 AM |  |
| 306.02D | Modeling Eruptive Coronal Magnetohydrodynamic Systems with FLUX     | Laurel Rachmeler\(^1\)  
\(^1\)NCAR/HAO. | SPD Oral Session  
306. Solar Amuse Bouche  
Tuesday, May 25, 2010  
8:30 - 9:30 AM |  |
| 319.06  | Modeling the Sensitivity of Helioseismic Measurements to Magnetic Fields and Thermal Perturbations | Ashley D. Crouch\(^1\), A. Birch\(^1\), D. Braun\(^1\)  
\(^1\)NorthWest Research Associates. | SPD Oral Session  
319. Solar Interior & Structure,  
Asteroseismology  
Thursday, May 27, 2010  
10:30 AM - 12:00 PM |  |
| 302.01  | New Observations Of The Solar Coronal Magnetism And Waves With HAO/CoMP | Scott W. McIntosh\(^1\), S. Tomczyk\(^1\)  
\(^1\)National Center for Atmospheric Research. | SPD Oral Session  
302. Coronal Magnetic Fields  
Monday, May 24, 2010  
10:15 - 11:30 AM |  |
| 305.05  | Numerical Simulations of the Chromosphere                            | Viggo H. Hansteen\(^1\)  
\(^1\)Institute of Theoretical Astrophysics, University of Oslo, Norway. | SPD Oral Session  
305. Chromosphere & Transition Region  
Monday, May 24, 2010  
4:00 - 5:30 PM |  |
| 314.04  | Numerical Simulations of the Eruption of a Coronal Flux Rope         | Yuhong Fan\(^1\)  
\(^1\)HAO/NCAR. | SPD Oral Session  
314. Coronal Mass Ejections  
Wednesday, May 26, 2010  
2:00 - 3:30 PM |  |
| 302.03  | On the Vector Tomographic                                           | Maxim Kramar\(^1\), H. Lin\(^2\), B. Inhester\(^3\)  
\(^1\)HAO/NCAR. | SPD Oral Session  
302. Coronal |  |
Reconstruction for the pre-CME Coronal Magnetic Field from Fe XIII 10747 A Emission Line Observations

Lin, D., Inhester, J., Davila  
1The Catholic University of America, 2The University of Hawaii, 3Max-Planck Institute for Solar System Research, Germany, 4NASA-GSFC.

308.06 - Overview of First-Result SDO Posters

Alexander G. Kosovichev 1, SDO Team  
1Stanford Univ.

SPD Oral Session 308. Solar Dynamics Observatory - First Results  
Tuesday, May 25, 2010 2:00 - 3:30 PM

313.05 - Photospheric Temperature Variations near the Solar Limb

Martin Fivian 1, H. S. Hudson 1, R. P. Lin 1, H. J. Zahid 2  
1Space Sciences Lab/ UC Berkeley, 2Institute for Astronomy/University of Hawaii.

SPD Oral Session 313. Irradiance  
Wednesday, May 26, 2010 10:30 - 11:45 AM

300.04 - Plasma Flows in Coronal Loops

Peter R. Young 1, B. O. Dwyer 2, H. E. Mason 2  
1George Mason University, 2Cambridge University, United Kingdom.

SPD Oral Session 300. Coronal Loops  
Monday, May 24, 2010 8:30 - 9:45 AM

320.04D - Plasma Heating and Thermal Fronts Following Localized and Impulsive Reconnection in the Solar Corona

Silvina Guidoni 1, D. Longcope 1  
1Montana State University - Bozeman.

SPD Oral Session 320. Solar Flares  
Thursday, May 27, 2010 1:00 - 2:30 PM

317.04 - Polar Coronal Hole Ephemeral Regions, The Fast

Jonathan W. Cirtain 1  
1NASA.

SPD Oral Session 317. Solar Magnetism and the
Solar Wind And The Global Magnetic Dynamo

314.05 - Propagation of an Earth-Directed Coronal Mass Ejection in 3D

Jason Byrne¹, P. T. Gallagher¹, S. A. Maloney¹, J. McAteer¹
¹Trinity College Dublin, Ireland.

SPD Oral Session
314. Coronal Mass Ejections
Wednesday, May 26, 2010 2:00 - 3:30 PM

305.02 - Quasi-periodic Signatures in the Transition Region and Corona: Waves or Flows?

Bart De Pontieu¹, S. W. McIntosh²
¹Lockheed Martin Solar and Astrophysics Laboratory, ²National Center for Atmospheric Research.

SPD Oral Session
305. Chromosphere & Transition Region
Monday, May 24, 2010 4:00 - 5:30 PM

321.05D - Radio Observations And Modeling Of A Post-flare Arcade

Hazel Bain¹, L. Fletcher²
¹University of California, Berkeley, ²University of Glasgow, United Kingdom.

SPD Oral Session
321. Flares & Energetic Particles
Thursday, May 27, 2010 3:00 - 4:30 PM

320.06 - RHESSI and TRACE Observations of Emerging Flux Reconnection in a Solar Jet on August 21, 2003

Lindsay Glesener¹, S. Krucker¹, R. P. Lin¹
¹Space Sciences Laboratory, University of California - Berkeley.

SPD Oral Session
320. Solar Flares
Thursday, May 27, 2010 1:00 - 2:30 PM

320.01D - RHESSI Observations of Super-Hot (T > 30 MK) Plasma in Large Solar Flares

Amir Caspi¹, R. P. Lin¹
¹SSL, UC Berkeley.

SPD Oral Session
320. Solar Flares
Thursday, May 27, 2010 1:00 - 2:30 PM

308.02 - SDO Extreme Ultraviolet Variability Experiment (EVE): Instrument and First Results

Thomas N. Woods¹, F. Eparvier¹, R. Hock¹, A. Jones¹, L. Didkovsky²,
²University of California, Berkeley.

SPD Oral Session
308. Solar Dynamics Observatory - First Results

Light

D. Judge\textsuperscript{2}, P. Chamberlin\textsuperscript{3}, J. Lean\textsuperscript{4}, H. Warren\textsuperscript{4}, J. Mariska\textsuperscript{4}
\textsuperscript{1}Univ. of Colorado,
\textsuperscript{2}Univ. of Southern Calif.,
\textsuperscript{3}NASA GSFC, \textsuperscript{4}Naval Research Lab.

Tuesday, May 25, 2010 2:00 - 3:30 PM

317.06 - Sea-Serpent Magnetic Structure of Sunspot Penumbrae: Observations and MHD Simulations

Irina Kitiashvili\textsuperscript{1}, L. R. Bellot Rubio\textsuperscript{2}, A. G. Kosovichev\textsuperscript{1}, N. N. Mansour\textsuperscript{3}, A. Sainz Dalda\textsuperscript{4}, A. A. Wray\textsuperscript{3}
\textsuperscript{1}Stanford University,
\textsuperscript{2}Instituto de Astrofisica de Andalucia (CSIC), Spain, \textsuperscript{3}NASA Ames Research Center,
\textsuperscript{4}Stanford-Lockheed Institute for Space Research.

SPD Oral Session
317. Solar Magnetism and the Activity Cycle
Wednesday, May 26, 2010 4:00 - 5:30 PM

320.05 - Simultaneous Fitting of Multiple Accelerated-Ion Parameters to RHESSI Gamma-Ray Flare Spectra

David M. Smith\textsuperscript{1}, J. P. Naiman\textsuperscript{1}, K. P. Schmidt\textsuperscript{1}, R. J. Murphy\textsuperscript{2}, G. H. Share\textsuperscript{2}, A. Y. Shih\textsuperscript{3}, R. P. Lin\textsuperscript{4}
\textsuperscript{1}UC, Santa Cruz, \textsuperscript{2}Naval Research Laboratory,
\textsuperscript{3}NASA Goddard Space Flight Center, \textsuperscript{4}Physics Department and Space Sciences Laboratory, University of California, Berkeley, and School of Space Research, Kyung Hee University, Korea.

SPD Oral Session
320. Solar Flares
Thursday, May 27, 2010 1:00 - 2:30 PM

305.04 - Small Scale Chromospheric Dynamics Detected

Vasyl B. Yurchyshyn\textsuperscript{1}
\textsuperscript{1}Big Bear Solar Obs.

SPD Oral Session
305. Chromosphere
| Dynamics Detected With The New Solar Telescope In Big Bear | Lewis Fox\(^1\), C. C. Kankelborg\(^1\), R. J. Thomas\(^2\)  
\(^1\)Montana State University, \(^2\)Goddard Space Flight Center. | Monday, May 24, 2010 4:00 - 5:30 PM |
| --- | --- | --- |
| changed to 403.11 - SMART Analysis Of A He II Explosive Event Observed With MOSES | Jie Zhang\(^1\)  
\(^1\)George Mason University | Monday, May 24, 2010 4:00 - 5:30 PM |
| 317.05 - Statistical Properties of Solar Active Regions Based on Objective Detection and Characterization | Maria Kazachenko\(^1\), R. Canfield\(^1\), D. Longcope\(^1\), J. Qiu\(^1\)  
\(^1\)Montana State University | Wednesday, May 26, 2010 4:00 - 5:30 PM |
| 320.03D - Sunspot Rotation, Eruptive Flare Energetics And Flux Rope Helicity: Topology Matters. | James E. Leake\(^1\), M. Linton\(^1\), S. Antiochos\(^2\)  
\(^1\)Naval Research Laboratory, \(^2\)NASA Goddard Space Flight Center. | Wednesday, May 26, 2010 2:00 - 3:30 PM |
| 314.02 - Tests of Dynamical Flux Emergence as a Mechanism for CME Initiation | James A. Klimchuk\(^1\), G. Nigro\(^2\), R. B. Dahlburg\(^3\), S. K. Antiochos\(^1\)  
\(^1\)NASA GSFC, \(^2\)Univ. of Calabria, Italy, \(^3\)NRL. | Wednesday, May 26, 2010 10:15 - 11:30 AM |
| 302.05 - The Existence and Origin of Turbulence in Solar Active Regions | Hamish Reid\(^1\), E. Kontar\(^1\)  
\(^1\)University of Glasgow | Thursday, May 27, 2010 1:00 - 2:30 PM |
<p>| 321.07 - The Interaction of Solar Flare Accelerated | | Thursday, May 27, 2010 1:00 - 2:30 PM |</p>
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Affiliation(s)</th>
<th>Date and Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>303.04</td>
<td>The Solar Wind in the Heliosheath</td>
<td>John D. Richardson&lt;sup&gt;1&lt;/sup&gt;</td>
<td>MIT&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Thursday, May 27, 2010 3:00 - 4:30 PM</td>
</tr>
<tr>
<td>313.02</td>
<td>The Thermal Relaxation Time</td>
<td>Robert F. Stein&lt;sup&gt;1&lt;/sup&gt;, A. Nordlund&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Michigan State Univ.&lt;sup&gt;1&lt;/sup&gt;, Niels Bohr Institute, Denmark&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Wednesday, May 26, 2010 10:30 - 11:45 AM</td>
</tr>
<tr>
<td>317.03</td>
<td>The Unusual Minimum of Solar Cycle 23 Explained</td>
<td>Dibyendu Nandy&lt;sup&gt;1&lt;/sup&gt;, A. Munoz-Jaramillo&lt;sup&gt;2&lt;/sup&gt;, P. C. H. Martens&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Indian Institute of Science Education and Research, Kolkata, India&lt;sup&gt;1&lt;/sup&gt;, Montana State University&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Wednesday, May 26, 2010 4:00 - 5:30 PM</td>
</tr>
<tr>
<td>302.04</td>
<td>Three-dimensional MHD Model Of Active Region Loop Oscillations With Background Flow</td>
<td>Leon Ofman&lt;sup&gt;1&lt;/sup&gt;, J. Schmidt&lt;sup&gt;1&lt;/sup&gt;, T. Wang&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Catholic University and NASA's GSFC&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Monday, May 24, 2010 10:15 - 11:30 AM</td>
</tr>
<tr>
<td>321.06D</td>
<td>Type III-L Solar Radio Bursts and Their Associations with Solar Energetic Proton Events</td>
<td>Robert T. Duffin&lt;sup&gt;1&lt;/sup&gt;, S. M. White&lt;sup&gt;2&lt;/sup&gt;, P. S. Ray&lt;sup&gt;3&lt;/sup&gt;, M. L. Kaiser&lt;sup&gt;4&lt;/sup&gt;</td>
<td>George Mason University, Air Force Research Lab, Naval Research Lab, NASA/Goddard Space Flight Center&lt;sup&gt;1&lt;/sup&gt;&lt;sup&gt;4&lt;/sup&gt;</td>
<td>Thursday, May 27, 2010 3:00 - 4:30 PM</td>
</tr>
</tbody>
</table>
319.05 - Validating Time-Distance Subsurface Sound-Speed Structure Inversions

Junwei Zhao¹, K. V. Parchevsky¹, T. Hartlep¹, A. G. Kosovichev¹
¹Stanford Univ.

SPD Oral Session
319. Solar Interior & Structure, Asteroseismology
Thursday, May 27, 2010 10:30 AM - 12:00 PM

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