Meeting Schedule

Monday 1 July

09:00 – 11:00  Registration at University Residence (mainly for students arriving on Monday morning)

16:00 – 18:00  Registration at Venue (Convention Center, for all participants - be aware that we will distribute the vouchers for the eclipse observation and welcome reception)

Tuesday 2 July

09:00 – 11:00  Registration at Venue (Convention Center, for all participants - be aware that we will distribute the vouchers for the eclipse observation and welcome reception)

12:00 – 20:30  Eclipse observation

20:30 – …  Welcome reception (North Foyer of the Juan Victoria Auditorium - buses will stop here after the eclipse observation)

Wednesday 3 July

10:00 – 12:00  Registration at Venue (Convention Center)

13:00 – 13:30  Welcome words

Session 1  Space Weather: An approach from the solar interior to the lower solar atmosphere (Chair: Cristina Mandrini)

13:30 – 14:00  Forecasting Long-term Space Weather: A Dynamo Modeling Perspective (Invited)

Dibyendu Nandi
14:00 – 14:30  Active Region Evolution and Dynamic Events (Invited)
Lidia van Driel-Gesztelyi

14:30 – 14:45  Time variations of the non-potential and volume-threading magnetic helicities (Contributed)
Luis Linan

14:45 – 15:00  Coronal hole flux emergence evolution (Contributed)
Judith Palacios

15:00 – 15:15  Imaging far-side active regions: a possible improvement by Porter-Bojarski holography (Contributed)
Dan Yang

15:15 – 15:30  On the energetics of seismically active solar flares (Contributed)
Juan Camilo Buitrago-Casas

15:30 – 16:00  Coffee Break

Session 2  Energy release in the low solar atmosphere and its consequences (Chair: Lidia van Driel-Gesztelyi)

16:00 – 16:30  Particle Acceleration in Solar Flares: X/gamma ray and radio diagnostics (Invited)
Nicole Vilmer

16:30 – 16:45  Energetic electrons in connection with coronal jets (Contributed)
Sophie Musset

16:45 – 17:05  Recent Advances in Millimeter to Mid-Infrared Solar Physics (Solicited)
Jean-Pierre Raulin

17:05 – 17:20  Submillimeter radiation as the thermal component of the Neupert Effect (Contributed)
Jorge Fernando Valle-Silva
17:20 – 17:50 Solar Magnetic Flux Rope Eruption Simulated by a Data-driven Magnetohydrodynamic Model (Invited)

Yang Guo

17:50 – 18:05 Analytical Model of Particle Acceleration that Results in Power-Law Energy Spectra (Contributed)

Silvina Guidoni

Thursday 4 July

Anticipating Session 10 Science with total solar eclipses (Chair: Sarah Gibson)

09:30 – 10:00 The Scientific Uniqueness of Total Solar Eclipse Observations (Invited)

Shadia R. Habbal

Session 3 Eruptive phenomena initiation and their low coronal consequences (Chairs: Sarah Gibson, Silvina Guidoni)

10:00 – 10:30 Flare Initiation and CMEs: Observations and Mechanisms (Invited)

Lucie Green

10:30 – 10:50 Large-scale coronal waves and dimmings (Solicited)

Astrid Veronig

10:50 – 11:15 Coffee Break

11:15 – 11:30 Can we use coronal dimmings as application for space weather forecasting? (Contributed)

Karin Dissauer

11:30 – 11:45 Multiple EUV wave reflection from a coronal hole (Contributed)

Tatiana Podladchikova

11:45 – 12:00 On the Nature of Extreme Ultraviolet Waves (Contributed)

Ramesh Chandra
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>12:00 – 12:15</td>
<td>Observational and numerical characterization of a wave-like front propagating along pseudo-open field lines above an active region (Contributed)</td>
<td>Valeria Sieyra</td>
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<tr>
<td>12:30 – 14:00</td>
<td>Lunch Break</td>
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|              | **Session 4**  
CMEs: origin, peculiarities and in situ signatures (Chair: Dipankar Banerjee) |                                |
| 14:00 – 14:20| Constraining the origins and evolution of coronal mass ejections (Solicited) | Sarah Gibson                   |
| 14:20 – 14:35| Stealth CME Initiation and In-Situ Signatures: What Can We Learn from Numerical Modelling? (Contributed) | Dana-Camelia Talpeanu          |
| 14:35 – 14:50| ICMEs without Obvious Low Coronal Signatures (Contributed)            | Nariaki Nitta                  |
| 14:50– 15:05| Studying stealth CMEs using advanced imaging analysis techniques (Contributed) | Jennifer O’Kane                |
| 15:05 – 15:35| On 3D reconstruction and propagation of Coronal Mass Ejections (Invited) | Marilena Mierla                |
| 15:35 – 16:00| Coffee Break                                                        |                                |
|              | **Session 5**    
SEPs and radio emissions: Space weather connection (Chair: Guillermo Giménez de Castro) |                                |
16:00 – 16:20  Solar and interplanetary radio bursts, including scintillation data, for forecasting CMEs/large scale solar wind structures (Solicited)
   **Américo González-Esparza**

16:20 – 16:50  Solar energetic particles (SEPs)– observations, interpretation, and space weather consequences (Invited)
   **Karl-Ludwig Klein**

16:50 – 17:05  Modelling the transport of solar energetic particles near a high-speed solar wind stream (Contributed)
   **Nicolas Wijsen**

**Session 6  Coronal large-scale structure and solar wind coupling**
(Chair: Guillermo Giménez de Castro)

17:05 – 17:35  Prediction of the Structure of the Solar Corona for the July 2, 2019 Total Solar Eclipse (Invited)
   **Jon Linker**

17:35 – 17:50  Using the Parker Solar Probe WISPR Instrument for Tomography of the Solar Corona (Contributed)
   **Alberto Vásquez**

17:50 – 18:10  Solar sources of the slow solar wind and their interplanetary manifestations (Solicited)
   **David Brooks**

**Friday 5 July**

**Session 7  Interplanetary space weather drivers**
(Chairs: Teresa Nieves-Chinchilla, Alisson Dal Lago)

09:30 – 10:00  Corotating High Speed Solar Wind Streams and Stream Interaction Regions (Invited)
   **Ian Richardson**
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<tr>
<td>10:00 – 10:15</td>
<td>Causes and consequences of a possible CIR-ICME driven Space Weather event (Contributed)</td>
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<td><em>María Graciela Molina</em></td>
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<td>10:15 – 10:30</td>
<td>Variation of the mean shape of the ICME/shock using in situ observations (Contributed)</td>
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<td><em>Carlos Pérez-Alanis</em></td>
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<td>10:30 – 10:45</td>
<td>Analysis of CME deflections (Contributed)</td>
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<td><em>Mariana Cécere</em></td>
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<td>10:45 – 11:15</td>
<td>Coffee Break</td>
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<tr>
<td>11:15 – 11:45</td>
<td>Main physical properties of Interplanetary Coronal Mass Ejections to improve the forecast of</td>
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<td>Space Weather (Invited)</td>
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<td><em>Sergio Dasso</em></td>
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<td>11:45 – 12:00</td>
<td>The generic magnetic profiles of Interplanetary Coronal Mass Ejections at Mercury, Venus and</td>
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<td>Earth: superposed epoch analyses (Contributed)</td>
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<td><em>Miho Janvier</em></td>
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<td>12:00 – 12:20</td>
<td>A Comparative Evaluation of Solar Flare Prediction Models: Lessons Learned (Solicited)</td>
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<td><em>Manolis Georgoulis</em></td>
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<td>12:20 – 12:35</td>
<td>What is needed for a satisfying CME arrival prediction? (Contributed)</td>
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<td><em>Tanja Amerstorfer</em></td>
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<td>12:35 – 14:00</td>
<td>Lunch Break</td>
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Session 8 | **Tools and simulations for space weather prediction** (Chair: Américo González-Esparza)

14:00 – 14:30 | CCMC’s Space Weather Tools – Forecasting for NASA’s Robotic Missions (Invited)

*Yaireska Collado-Vega*
14:30 – 14:45 Global-MHD & Test-Particle Simulations of Radiation Belt evolution during shock-driven magnetospheric compressions (Contributed)
Ravindra Desai

14:45 – 15:00 Predicting Radiation Variability in Earth’s Magnetosphere (Contributed)
Alex Glocer

Anticipating Session 11 Missions and instrumentation with space weather applications (Chair: Américo González-Esparza)

15:00 – 15:20 PROBA-3/ASPIICS: a Giant Formation Flying Coronagraph, and Its Contribution to the Studies of Coronal Mass Ejections (Solicited)
Andrei Zhukov

15:20 – 15:35 Parker Solar Probe: Mission Status and Outlook (Contributed)
Teresa Nieves-Chinchilla

15:35 – 16:00 Coffee Break

Session 9 Short time-scale radiation variations and space weather implications (Chair: Marcelo López Fuentes)

16:00 – 16:30 Solar irradiance variability on flare timescales: measurements and modeling (Invited)
Phillip Chamberlin

16:30 – 16:50 Intermediate Timescale Solar Spectral Irradiance Variability and its Impacts (Solicited)
James Klimchuk

Ryan Milligan
### Session 10  
**Science with total solar eclipses**  
(Chair: Marcelo López Fuentes)

- **17:05 – 17:25**  
  Total Eclipse Expedition of KASI (Solicited)  
  **Su-Chan Bong**

- **17:25 – 17:45**  
  “Megamovie” Programs for 2017 and 2024 (Solicited)  
  **Hugh Hudson**

- **17:45 – 18:05**  
  The 2017 Great American Eclipse: NASA efforts and accomplishments (Solicited)  
  **C. Alex Young**

- **20:30 – …**  
  Closing Dinner

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### Saturday 6 July

**Session 11**  
**Missions and instrumentation with space weather applications** (Chairs: Bernhard Fleck, Hebe Cremades)

- **09:30 – 10:00**  
  Solar Orbiter: a mission to study the Sun and the inner heliosphere (Invited)  
  **Luca Teriaca**

- **10:00 – 10:30**  
  Space Weather and Sun Climate with Aditya-L1 (Invited)  
  **Durgesh Tripathi**

- **10:30 – 10:45**  
  Space Weather Studies from Aditya’s Coronagraph (Contributed)  
  **Dipankar Banerjee**

- **10:45 – 11:15**  
  Coffee Break

- **11:15 – 11:30**  
  Exploring the Transition Corona with the Coronal Spectrographic Imager in the EUV (COSIE) (Contributed)  
  **Leon Golub**
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| 11:30 – 11:45 | The 7 GHz solar radio polarimeter: development of tracking automation and acquisition data codes (Contributed)  
Ray Fernando Hidalgo-Ramírez |
| 11:45 – 12:00 | Results of the installation of the Latin American Giant Observatory Space Weather Node at the last Antarctic Campaign (Contributed)  
Adriana María Gulisano |
| 12:00 – 12:20 | The Space Weather Efforts in Latin-America (Solicited)  
Joaquim Costa |
| 12:20 – 12:30 | Closing |

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Out of Schedule: Space weather programs  
(Chair: Sergio Dasso)

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<tr>
<th>Time</th>
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| 12:30 – 12:40 | Present and Future Opportunities for Geospace Science Research at NSF  
Ilia Roussev |
| 12:40 – 13:10 | Discussion – Operative space weather in Latin America  
Joaquim Costa, Sergio Dasso, Américo González-Esparza |