id	Author	Affiliation	Title	Working Group	Tags
001	**Bart van der Holst**	University of Michigan	AWSoM simulations for Parker Solar Probe	WG1: Solar (including interior) and coronal	PSP and SO: Origin and Acceleration of the Solar Wind(s)
002	**Mari Paz Miralles**	Center for Astrophysics | Harvard & Smithsonian, Cambridge, MA	Properties of the Corona and Solar Wind with Multi-instrument Observations of Pseudostreamers and Helmet-Streamers	WG1: Solar (including interior) and coronal	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 02. Multi-messenger Heliophysics with DKIST
003	**Michael Hahn**	Columbia University	Evidence for Parametric Decay Instability in the Lower Solar Atmosphere	WG1: Solar (including interior) and coronal	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 02. Multi-messenger Heliophysics with DKIST|Session 03. Energy dissipation processes in space plasmas
004	**Joan Burkepile**	National Center for Atmospheric Research	Exploring the Corona With the Newest Coronagraph at the Mauna Loa Solar Observatory (MLSO)	WG1: Solar (including interior) and coronal	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 02. Multi-messenger Heliophysics with DKIST|Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Session 11. Modeling CME initiation and propagation through the heliosphere|Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
005	**Alexandros Koukras**	KU Leuven - Royal Observatory of Belgium	Estimating uncertainties in the back-mapping of the fast solar wind	WG1: Solar (including interior) and coronal	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection|Student Poster
006	**Samantha Wallace**	NASA Postdoctoral Program, GSFC	New insights into the first two PSP solar encounters enabled by modeling analysis with ADAPT-WSA	WG1: Solar (including interior) and coronal	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
007	**Nathalia Alzate**	NASA GSFC / ADNET SYSTEMS, INC.	Connecting the Sun/Corona/Heliosphere By Capitalizing On Remote Sensing Data Products	WG1: Solar (including interior) and coronal	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 07. Data Mining for Science of the Sun-Earth Connection as a Single System|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
008	**Carlos R. Braga**	George Mason University	Can we image reconnection-related flows at the fronts of CMEs?	WG1: Solar (including interior) and coronal	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 11. Modeling CME initiation and propagation through the heliosphere|Session 12. Flux Ropes and their Dynamics
009	**Liang Zhao**	University of Michigan	Depletion of Heavy Ion Abundances in Slow Solar Wind and the Association with Quiet Sun Regions	WG1: Solar (including interior) and coronal	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
010	**Aditya Gandhi**	University of Michigan	The Role of Plasma Instabilities in Switchback Evolution: A Parker Solar Probe Statistical Analysis	WG1: Solar (including interior) and coronal	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Student Poster
011	**Maxim Kramar**	Institute for Astronomy, University of Hawaii at Manoa	The Vector Tomographic Inversion for the Solar Coronal Magnetic Field with DKIST and UCoMP instruments.	WG1: Solar (including interior) and coronal	Session 02. Multi-messenger Heliophysics with DKIST|Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection

012 Johnathan Stauffer	CU Boulder	Studying the Cool Chromosphere with ALMA	WG1: Solar (including interior) and coronal	Session 02. Multi-messenger Heliophysics with DKIST|Student Poster
013 Donald Schmit	CIRES/University of Colorado	New Insights into the EUV Corona from the EUNIS 2021 Dataset	WG1: Solar (including interior) and coronal	Session 03. Energy dissipation processes in space plasmas|Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling
014 Stephan G. Heinemann	(Max Planck Institute for Solar System Research, 37077 Gvðttingen, Germany	Double Side Photospheric Flux Transport Model combining Front-side and Far-side Information	WG1: Solar (including interior) and coronal	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models
015 N Dylan Kee	National Solar Observatory	MHD Simulation Uncertainties Imposed by Boundary Condition Choices	WG1: Solar (including interior) and coronal	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models
016 Graham Barnes	NWRA	Is the coronal magnetic topology of Potential Field Source Surface models robust to boundary conditions from different Surface Flux Transport models?	WG1: Solar (including interior) and coronal	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models
017 Ward Manchester	University of Michigan	Energy and Spectral Analysis of an AWSoM MHD Simulated Active Region	WG1: Solar (including interior) and coronal	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models
018 Irina Kitiashvili	NASA Ames Research Center	Modeling of Multiscale Solar Dynamics for Understanding Drivers of Space Weather	WG1: Solar (including interior) and coronal	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models
019 Subhamoy Chatterjee	Southwest Research Institute	Homogenizing Solar Extreme Ultraviolet Imaging Surveys with Uncertainty: A model-ensemble approach	WG1: Solar (including interior) and coronal	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models|Session 07. Data Mining for Science of the Sun-Earth Connection as a Single System|Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture
020 Daniel da Silva	NASA/GSFC, UMBC	Predicting Solar Wind Footpoints as Probability Distributions using WSA/ADAPT	WG1: Solar (including interior) and coronal	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models|Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture|Student Poster
021 Bin Zhuang	University of New Hampshire	Importance of Understanding the CME Three-Part Structure and Its Implication for the CME Radial Expansion	WG1: Solar (including interior) and coronal	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models|Session 11. Modeling CME initiation and propagation through the heliosphere|Session 12. Flux Ropes and their Dynamics
022 Christopher Rura	the Catholic University of America / NASA GSFC	Validation of Image Based Method for Optimizing Coronal Magnetic Field Models	WG1: Solar (including interior) and coronal	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models|Student Poster
023 Keiji Hayashi	George Mason University	Examining the boundary treatment of the data-driven/data-constraint MHD simulation model of the global corona	WG1: Solar (including interior) and coronal	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling
024 Wenyuan Yu	University of New Hampshire	Investigating the Asymmetry of the Magnetic Field Profile of "Simple" Magnetic Ejecta	WG1: Solar (including interior) and coronal	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Session 12. Flux Ropes and their Dynamics
025 Samuel Schonfeld	Institute for Scientific Research, Boston College	Improving models of the corona and solar wind using polar coronal hole observations	WG1: Solar (including interior) and coronal	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
026 Nicolas Donders	The University of Alabama in Huntsville	Understanding Atmospheric Absorption Effects on UV Spectra from Sounding Rockets using a Spherical-Shells Model	WG1: Solar (including interior) and coronal	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Student Poster

027 Juan Camilo Buitrago-Casas	Space Sciences Laboratory - UC Berkeley	On the Sun's faintest coronal hard X-rays	WG1: Solar (including interior) and coronal	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Student Poster
028 James Turtle	Predictive Science Inc	CHMAP: Coronal Hole Mapping and Analysis Pipeline	WG1: Solar (including interior) and coronal	Session 07. Data Mining for Science of the Sun-Earth Connection as a Single System
029 Benjamin Boe	Institute for Astronomy, University of Hawaii	The First Absolute Brightness Measurements and MHD Model Predictions of Fe X, XI, and XIV out to 3.4 Rs	WG1: Solar (including interior) and coronal	Session 07. Data Mining for Science of the Sun-Earth Connection as a Single System|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
030 Xudong Sun	University of Hawaii	SpIn4D: Spectropolarimetric Inversion in Four Dimensions with Deep Learning	WG1: Solar (including interior) and coronal	Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture
031 Nat Mathews	NASA GSFC	Emulating Coronal Field Models with Physics-Informed Neural Nets	WG1: Solar (including interior) and coronal	Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture|Session 12. Flux Ropes and their Dynamics|Session 19. Data-driven models of solar flares: where are we and what's next?
032 KD Leka	NWRA and Nagoya University	AIA Active Region Patches (AARPs): an ML-ready dataset (and initial forecasting-"related" analysis)	WG1: Solar (including interior) and coronal	Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture|Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?
033 Dennis Tilipman	University of Colorado, Boulder / LASP / NSO	Using Machine Learning to Infer Transverse Velocities and Compute Poynting Flux in the Quiet Sun	WG1: Solar (including interior) and coronal	Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture|Student Poster
034 Ronald M. Caplan	Predictive Science Inc.	Interactive Tool for Modeling Multiple Solar Eruptions from Sun to Earth	WG1: Solar (including interior) and coronal	Session 11. Modeling CME initiation and propagation through the heliosphere
035 Hui Tian	Peking University	On the detectability of solar and stellar coronal mass ejections through asymmetries of extreme-ultraviolet spectral line profiles	WG1: Solar (including interior) and coronal	Session 11. Modeling CME initiation and propagation through the heliosphere
036 Chunming Zhu	Montana State University	Energy Partition in Flare-CME events	WG1: Solar (including interior) and coronal	Session 11. Modeling CME initiation and propagation through the heliosphere
037 NISHTHA SACHDEVA	UNIVERSITY OF MICHIGAN	MHD modeling of solar wind background and flux-rope CMEs	WG1: Solar (including interior) and coronal	Session 11. Modeling CME initiation and propagation through the heliosphere
038 Andrew Alt	Princeton University	Laboratory study of the stability of solar-relevant, arched, line-tied magnetic flux ropes	WG1: Solar (including interior) and coronal	Session 11. Modeling CME initiation and propagation through the heliosphere|Session 12. Flux Ropes and their Dynamics|Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?|Student Poster
039 Nishu Karna	Center For Astrophysics, Harvard & Smithsonian	Observation and modeling of an geo-effective event observed on 2011 May 28 from the solar surface to 1AU	WG1: Solar (including interior) and coronal	Session 11. Modeling CME initiation and propagation through the heliosphere|Session 12. Flux Ropes and their Dynamics|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
040 Kai Yang	Institute for Astronomy, University of Hawaii at Manoa	Relative Magnetic Helicity Based on a Periodic Potential Field	WG1: Solar (including interior) and coronal	Session 12. Flux Ropes and their Dynamics
041 Wen He	University of Alabama in Huntsville	Extrapolation and Topological Analysis of Magnetic Flux Ropes for Two Solar Eruption Events	WG1: Solar (including interior) and coronal	Session 12. Flux Ropes and their Dynamics|Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?|Student Poster
042 Silvina Guidoni	American University / NASA Goddard Space Flight Center	Spectral Single and Double Power-law Formation by Sequential Particle Acceleration in Flux Ropes	WG1: Solar (including interior) and coronal	Session 12. Flux Ropes and their Dynamics|Session 19. Data-driven models of solar flares: where are we and what's next?

043 Andrei N. Afanasev	LASP, University of Colorado Boulder	Hybrid data-driven magnetofrictional and MHD simulations of an eruptive solar active region	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?
044 Georgia A. de Nolfo	NASA Goddard Space Flight Center	Closing the Gap on Particle Acceleration with Neutrons	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?
045 Rahul Yadav	LASP, University of Colorado, Boulder	A statistical study of magnetic field changes in the photosphere during solar flares using high-cadence vector magnetograms and their association with flare ribbons	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?
046 Cooper Downs	Predictive Science Inc.	Modeling Solar Eruptions of Magnetic Flux Ropes with New Techniques	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?
047 Karin Dissauer	NorthWest Research Associates	Can we use pre-eruption activity to shed light on initiation mechanisms of solar eruptions?	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?
048 Chen Shi	UCLA	Linear tearing instability in resistive-MHD current sheet: guide field, normal magnetic field, and plasma flow	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?
049 Lucas A. Tarr	National Solar Observatory	Arbitrary open boundary conditions for data driven magnetohydrodynamic simulations: validation using an expanding spheromak ground truth simulation	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?
050 Maria D. Kazachenko	University of Colorado, Boulder / National Solar Observatory	Eruptive vs. confined solar flares: statistical comparison of their solar source properties	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?|Session 19. Data-driven models of solar flares: where are we and what's next?
051 Satoshi Inoue	Center for Solar-terrestrial Research, New Jersey Institute of Technology	What is a Better Way for Data-based Solar Magnetohydrodynamic Simulations?	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?|Session 19. Data-driven models of solar flares: where are we and what's next?
052 Kamil D. Sklodowski	University of California, Los Angeles	Laboratory Study of Arched Plasma Eruptions in a Sheared Magnetic Field	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?|Student Poster
053 Fallon Konow	Georgia State University	Looking for Acoustic Precursor Signals of Solar Eruptive Events with a new Helium D3 Instrument	WG1: Solar (including interior) and coronal	Session 13. How can we improve our current understanding of the nature of pre-eruptive configurations and the genesis of solar eruptions?|Student Poster
054 Shadia Habbal	Institute for Astronomy, University of Hawaii	Total solar eclipse observations: Filling a critical science gap for identifying the sources of the solar wind	WG1: Solar (including interior) and coronal	Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
055 Nat Gopalswamy	NASA Goddard Space Flight Center	The Multiview Observatory for Solar Terrestrial Science	WG1: Solar (including interior) and coronal	Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
056 Chris R. Gilly	Laboratory for Atmospheric and Space Physics (LASP)	The Middle Corona: Perpetually Under-observed	WG1: Solar (including interior) and coronal	Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection|Student Poster
057 Xiaoyan Xie	Harvard-Smithsonian Center for Astrophysics	Heating Effects of Supra-arcade Downflows (SADs) on Plasma above Solar Flare Arcades	WG1: Solar (including interior) and coronal	Session 19. Data-driven models of solar flares: where are we and what's next?
058 Paul Cassak	West Virginia University	Two Aspects of Solar Flare Physics Beyond MHD - 3D Reconnection Spreading and Electron Heating	WG1: Solar (including interior) and coronal	Session 19. Data-driven models of solar flares: where are we and what's next?
059 Joel Dahlin	NASA GSFC	Flare Ribbon Signatures of Reconnection Plasmoids	WG1: Solar (including interior) and coronal	Session 19. Data-driven models of solar flares: where are we and what's next?

060 William Ashfield	Montana State University	A Model for Gradual Phase Heating Driven by MHD Turbulence in Solar Flares	WG1: Solar (including interior) and coronal	Session 19. Data-driven models of solar flares: where are we and what's next?|Student Poster
061 Vicki Herde	CU Boulder / LASP	Algorithmically Identifying Upflows and Downflows in the Solar Chromosphere and Transition Region using IRIS MgII Observations	WG1: Solar (including interior) and coronal	Session 19. Data-driven models of solar flares: where are we and what's next?|Student Poster
062 Marcel F. Corchado Albelo	University of Colorado at Boulder	Inferring fundamental properties of the flare current sheet using flare ribbons: oscillations in the reconnection flux rates.	WG1: Solar (including interior) and coronal	Student Poster
063 Peter Levens	Cornell University, Stanford University	Characterizing Œ¥-Sunspots and an Introduction to ‚ÄòDegree of Delta'	WG1: Solar (including interior) and coronal	Student Poster
064 Zihao Yang	Peking University; NCAR/HAO	Magnetoseismology for the solar corona: from ~10 Gauss to coronal magnetograms	WG1: Solar (including interior) and coronal	Student Poster
065 Daniel Carpenter	University of Michigan	The FIP Effect on Individual Charge State Abundances	WG1: Solar (including interior) and coronal	Student Poster
066 Chris Crawford	The University of Alabama in Huntsville	The Impact of Domain Size on Magnetic Reconnection Simulations on Electron Acceleration by the Electron Kelvin-Helmholtz Instability	WG1: Solar (including interior) and coronal	Student Poster
067 Ana Peruza	George Mason/CUA	Comparing solar wind data collected by MESSENGER spacecraft to simulation data by AWSoM model	WG1: Solar (including interior) and coronal	Student Poster
068 Ryan Hofmann	CU Boulder / NSO	Probing Chromospheric Temperatures and Dynamics with ALMA	WG1: Solar (including interior) and coronal	Student Poster
069 Jonathan Lee	Institute for Astronomy, University of Hawaii at Manoa	Rapid Disintegration of Bald Patches in a Major Solar Eruption	WG1: Solar (including interior) and coronal	Student Poster
070 Michael Prazak	Montana State University	Evolution of Non-neutralized Electric Currents in Eruptive Solar Active Regions	WG1: Solar (including interior) and coronal	Student Poster
071 Yingjie Zhu	University of Michigan	Estimating Ion Temperatures at the Polar Coronal Hole Boundary	WG1: Solar (including interior) and coronal	Student Poster
072 Andrew Leisner	George Mason University	Using ACWE to Create a Coronal Hole Map	WG1: Solar (including interior) and coronal	Student Poster
073 Eleni Nikou	George Mason University	3D CME fitting technique and uncertainty analysis using multiple viewpoints.	WG1: Solar (including interior) and coronal	Student Poster
074 Sean Sellers	Department of Astronomy, New Mexico State University	Call and Response: A Time-Resolved Electron Driver and its Consequences	WG1: Solar (including interior) and coronal	Student Poster
075 Samuel Badman	UC Berkeley, Space Sciences Lab	PSP Solar Wind Sources at 13.3 Solar Radii	WG1: Solar (including interior) and coronal	Student Poster
076 Valmir Moraes Filho	Catholic University/GSFC NASA	SynCOM: A new tool for coronal flow tracking algorithms	WG1: Solar (including interior) and coronal	Student Poster
077 Jiayi Liu	Institute for Astronomy, University of Hawaii	Large Photospheric Doppler Shift in Solar Active Region 12673	WG1: Solar (including interior) and coronal	Student Poster
078 John Stefan	NJIT	Exploring the Connection Between Helioseismic Travel Time Anomalies and the Emergence of Large Active Regions	WG1: Solar (including interior) and coronal	Student Poster
079 Megan Kenny	University of Colorado, Boulder	Translational Tomography of the Solar Corona with PSP-WISPR	WG1: Solar (including interior) and coronal	Student Poster
080 James Staeben	UVA/NASA GSFC	WSA-ADAPT Solar Wind Prediction Performance Consistency and the Effects of the Solar Cycle	WG1: Solar (including interior) and coronal	Student Poster
081 Bryan Yamashiro	University of Hawaii	Sources of Open Magnetic Flux in Solar Polar Regions	WG1: Solar (including interior) and coronal	Student Poster

082 Laurel Farris	New Mexico State University	Multi-flare analysis of the chromospheric 3-minute oscillations	WG1: Solar (including interior) and coronal	Student Poster
083 Crisel Suarez	Vanderbilt University/Harvard|Smithsonian Center for Astrophysics	Analysis of Solar Flare Observations obtained by the MinXSS-1 CubeSat	WG1: Solar (including interior) and coronal	Student Poster
084 Elliot Johnson	University of Delaware	Anterograde Collisional Analysis of Solar Wind Ions	WG1: Solar (including interior) and coronal	Student Poster
085 Lizet Casillas	UCLA	Predicting Magnetic Chirality¬†of Coronal Mass Ejections and Potential Geoeffectiveness of Solar Storms	WG1: Solar (including interior) and coronal	Student Poster
086 Dinesha Vasanta Hegde	University of Alabama in Huntsville	Improving Solar Wind Predictions Using Multi-Satellite In Situ Observations	WG1: Solar (including interior) and coronal	Student Poster
087 Shea A. Hess Webber	Stanford	The Large Scale Collaborative Science of the COFFIES DRIVE Science Center	WG1: Solar (including interior) and coronal	
088 Benjamin Berkey	MLSO/HAO/NCAR	An introduction to the Upgraded Coronal Multi-channel Polarimeter (UCoMP) hardware and data products	WG1: Solar (including interior) and coronal	
089 Don Hassler	Southwest Research Institute	Composition Studies to Link the Sun & Heliosphere with SPICE on Solar Orbiter	WG1: Solar (including interior) and coronal	
090 Holly Gilbert	NCAR/HAO	Coronal Solar Magnetism Observatory (COSMO)	WG1: Solar (including interior) and coronal	
091 Piyush Agrawal	Southwest Research Institute	Improved differential and meridional flows with a focused study at high latitudes	WG1: Solar (including interior) and coronal	
092 Giuliana de Toma	NCAR/HAO	The transition between solar cycle 24 and 25	WG1: Solar (including interior) and coronal	
093 Sushant S. Mahajan	W. W. Hansen Experimental Physics Laboratory, Stanford University	Removal Of Active Region Inflows Reveals Solar Cycle Scale Trends In Meridional Flow	WG1: Solar (including interior) and coronal	
094 Alexander Kosovichev	New Jersey Institute of Technology	Can Proton Beams Explain White-Light Flares and Sunquakes?	WG1: Solar (including interior) and coronal	
095 Daniela Lacatus	High Altitude Observatory | NCAR	Spectroscopic investigation of solar filaments	WG1: Solar (including interior) and coronal	
096 Sherry Chhabra	George Mason University/ Naval Research Laboratory	Probing the Solar SXR Background Emission with Chandrayaan-2 XSM	WG1: Solar (including interior) and coronal	
097 Shaheda Begum Shaik	George Mason University/ Naval Research Laboratory	Nested Rings CME Cavity from WISPR Imager onboard Parker Solar Probe	WG1: Solar (including interior) and coronal	
098 DeOndre	NASA Goddard Space Flight Center	Thermal Analysis of the Plasma Sheet Region	WG1: Solar (including interior) and coronal	
099 Sarah A. Spitzer	University of Michigan	An Expanded Cross-Calibration and Performance Assessment of the Solar Orbiter Heavy Ion Sensor with its Ion Optical Model	WG2: Interplanetary	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 02. Multi-messenger Heliophysics with DKIST
100 Sanjay Gosain	National Solar Observatory	Underestimation of the polar magnetic flux mesurements due to projection effects from the ecliptic view and the open flux problem.	WG2: Interplanetary	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 02. Multi-messenger Heliophysics with DKIST|Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models|Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling

101 Zhenguang Huang	University of Michigan	Modeling the Solar Wind During Different Phases of the Last Solar Cycle	WG2: Interplanetary	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 02. Multi-messenger Heliophysics with DKIST|Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling
102 Benjamin Lynch	Space Sciences Laboratory, University of California--Berkeley	Properties of Coherent Magnetic Structures in Composition-Enhanced Solar Wind from the S-Web	WG2: Interplanetary	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
103 Rohit Chhiber	University of Delaware & NASA GSFC	An extended and fragmented AlfvV©n zone in the Young Solar Wind	WG2: Interplanetary	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range
104 Ali Rahmati	UC Berkeley Space Sciences Lab	Parker Solar Probe observations of nonthermal solar wind and Venusian protons during PSP's Venus Gravity Assists	WG2: Interplanetary	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling
105 Ronan Laker	UC Berkeley	Investigating the radial evolution of solar wind structures with PSP's 11th Encounter	WG2: Interplanetary	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Session 08. Connecting the Heliosphere with the Interstellar Medium|Student Poster
106 Elizabeth Wraback	University of Michigan	Simulating Stream Interaction Regions during Parker Solar Probe's First Approach with the Alfven Wave Solar atmosphere Model	WG2: Interplanetary	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Student Poster
107 Keyvan Ghanbari	The university of Alabama in Huntsville	Turbulent properties of the solar wind within corotating interaction regions: superposed epoch analysis of simulations and observations	WG2: Interplanetary	Session 01. Do we understand the role of turbulence and diffusion in cosmic ray transport in the heliosphere?
108 Jia Huang	University of Michigan	The Radial Evolution of Solar Wind Plasma in the Inner Heliosphere: PSP, Helios and Wind Observations	WG2: Interplanetary	Session 02. Multi-messenger Heliophysics with DKIST, PSP and SO: Origin and Acceleration of the Solar Wind(s)
109 Dr. Chadi Salem	University of California Berkeley	New Insights on Solar Wind Electrons at 1 AU: Collisionality, Heat Flux, and Thermal Force	WG2: Interplanetary	Session 03. Energy dissipation processes in space plasmas
110 Katariina Nykyri	Embry-Riddle Aeronautical University	Seven Sisters - Societal and Science Case For an Inner Heliospheric Solar Wind Constellation	WG2: Interplanetary	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence
111 Francesco Pecora	University of Delaware	Magnetic Switchback Occurrence Rates in the Inner Heliosphere: Parker Solar Probe and 1 au	WG2: Interplanetary	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence
112 Simone Di Matteo	Catholic University of America/NASA-GSFC	Multitaper Spectral Analysis Procedure for the Identification of Solar Wind Periodic Density Structures	WG2: Interplanetary	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 07. Data Mining for Science of the Sun-Earth Connection as a Single System
113 Manuel Enrique Cuesta	University of Delaware	Magnetic-field Line Curvature using Magnetospheric Multiscale	WG2: Interplanetary	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 12. Flux Ropes and their Dynamics
114 Nikolai V Pogorelov	Department of Space Science, The University of Alabama in Huntsville	Improving Space Weather Predictions with Data-driven Models of the Solar Atmosphere and Inner Heliosphere	WG2: Interplanetary	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models

115 Gabor Toth	University of Michigan	Developing the Michigan Sun-to-Earth Model	WG2: Interplanetary	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models
116 Evangelia Samara	Royal Observatory of Belgium and KU Leuven	Calibrating the WSA model in EUHFORIA based on PSP observations: challenges and limitations toward the improvement of solar wind forecasting	WG2: Interplanetary	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models|Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Student Poster
117 Rachael Filwett	University of Iowa	The Mesoscale Structure of Three Unremarkable Coronal Mass Ejections observed near Earth	WG2: Interplanetary	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Session 11. Modeling CME initiation and propagation through the heliosphere
118 Anwesha Maharana	KU Leuven, Belgium	Modelling the mis predicted storm of early September 2014 with the FRi3D model in EUHFORIA	WG2: Interplanetary	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Session 11. Modeling CME initiation and propagation through the heliosphere|Session 12. Flux Ropes and their Dynamics
119 Emma Davies	University of New Hampshire	Multi-spacecraft Observations of Interplanetary Coronal Mass Ejections between 0.3 and 2.2 AU: Conjunctions with the Juno Spacecraft	WG2: Interplanetary	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Session 12. Flux Ropes and their Dynamics
120 Yeimy Rivera	Center for Astrophysics | Harvard & Smithsonian	Gravitational Settling and the FIP Effect in Interplanetary CMEs and Associated Source Regions	WG2: Interplanetary	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection
121 Richard Leske	California Institute of Technology	ACE Observations of Anomalous and Galactic Cosmic Ray Intensities at 1 AU Throughout >2 Complete Solar Cycles	WG2: Interplanetary	Session 08. Connecting the Heliosphere with the Interstellar Medium
122 Dan Reisenfeld	Los Alamos National Laboratory	Theseus: an Advanced Method for rendering IBEX-Hi ENA Sky Maps	WG2: Interplanetary	Session 08. Connecting the Heliosphere with the Interstellar Medium
123 Xuanye Ma	Embry-Riddle Aeronautical University	Comparing information and wave propagation in the solar wind observations and MHD simulations	WG2: Interplanetary	Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture
Luiz Fernando Guedes 124 dos Santos	nextSource Inc	Using supervised learning to identify flux rope and its and orientation	WG2: Interplanetary	Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture|Session 12. Flux Ropes and their Dynamics
125 Samuel Fordin	University of Delaware	Identifying Circularly-Polarized Waves in the Solar Wind Using 1D Convolutional Neural Networks	WG2: Interplanetary	Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture|Student Poster
126 Christina Kay	NASA GSFC/CUA	Beyond Basic Drag in Interplanetary CME Modeling: Effects of Solar Wind Pile-Up and High Speed Streams	WG2: Interplanetary	Session 11. Modeling CME initiation and propagation through the heliosphere
127 Kan Liou	The Johns Hopkins University Applied Physics Laboratory	Magnetohydrodynamic simulation of a flux-roped coronal mass ejection: A new model	WG2: Interplanetary	Session 11. Modeling CME initiation and propagation through the heliosphere
128 chin-chun wu	Naval Research Laboratory	Effect of the background solar wind on the propagation of CME-driven shocks - a comparative global magnetohydrodynamic simulation	WG2: Interplanetary	Session 11. Modeling CME initiation and propagation through the heliosphere
129 Elena Provornikova	Johns Hopkins APL	How would CMEs with different magnetic morphologies appear in heliospheric white-light imaging?	WG2: Interplanetary	Session 11. Modeling CME initiation and propagation through the heliosphere
130 Camilla Scolini	University of New Hampshire	Scales of Magnetic Complexity and Coherence within ICMEs: Estimates from Spacecraft Swarms in Global Heliospheric Simulations	WG2: Interplanetary	Session 11. Modeling CME initiation and propagation through the heliosphere|Session 12. Flux Ropes and their Dynamics

131 Chip Manchester	University of Michigan	FETCH concept: Investigating Quiescent and Transient Magnetic Structures in the Inner Heliosphere using Faraday Rotation of Spacecraft Radio Signals	WG2: Interplanetary	Session 11. Modeling CME initiation and propagation through the heliosphere|Session 12. Flux Ropes and their Dynamics
132 Tinatin Baratashvili	Centre for mathematical Plasma-Astrophysics, KU Leuven	The effect of AMR on the magnetized CME model in Icarus	WG2: Interplanetary	Session 11. Modeling CME initiation and propagation through the heliosphere|Session 12. Flux Ropes and their Dynamics|Student Poster
133 Sanchita Pal	University of Helsinki	Eruption and Interplanetary Evolution of a Stealthy Streamer-Blowout CME at 0.5 AU	WG2: Interplanetary	Session 12. Flux Ropes and their Dynamics
134 Noé Lugaz	University of New Hampshire	The 2021 February 24 Coronal Mass Ejection Measured Jointly by STEREO-A and Wind at 55¬∞ Separation: Consequences for CME Global Properties	WG2: Interplanetary	Session 12. Flux Ropes and their Dynamics
135 Florian Regnault	Space Science Center, Institute for the Study of Earth, Oceans, and Space, University of New Hampshire	Quantifying and Reducing the Observed Aging Effect of CMEs through Simultaneous In-situ Measurements	WG2: Interplanetary	Session 12. Flux Ropes and their Dynamics
136 Nada Al-Haddad	Space Science Center, UNH	Magnetic field of CMEs as represented by 40+ years of analyses	WG2: Interplanetary	Session 12. Flux Ropes and their Dynamics
137 B. L. Alterman	SwRI	Heavy Ion Heating Observed by Solar Orbiter HIS Across a Shock	WG2: Interplanetary	Session 18. The kinetic physics of collisionless shock waves in the heliosphere
138 Austin Brenner	University of Michigan	How does the planetary bow shock at earth process ICME shock, sheath, and ejecta? An MHD simulation event study.	WG2: Interplanetary	Session 18. The kinetic physics of collisionless shock waves in the heliosphere|Student Poster
139 Thomas Woolley	Imperial College London	Radial Evolution and Kinetics of Ion Species with Helios	WG2: Interplanetary	Student Poster
140 Opal Issan	University of California, San Diego	Predicting Solar Wind Streams from the Inner-Heliosphere to Earth via Shifted Operator Inference	WG2: Interplanetary	Student Poster
141 Carlos Arturo Perez-Alanis	Universidad Nacional Aut√≥noma de M√©xico, UNAM	Evolution of the interplanetary shocks through the inner heliosphere.	WG2: Interplanetary	Student Poster
142 Katherine Holland	Embry-Riddle Aeronautical University	Unraveling the Multi-Scale Solar Wind Structure Between Lagrange 1-point, Lunar Orbit and Earth's Bow Shock: Better Space Weather Prediction Through Information Theory	WG2: Interplanetary	Student Poster
143 Kalpa Henadhira Arachchige	Department of Physics & Applied Physics, University of Massachusetts Lowell, USA	Comparing the Performance of a Solar Wind model from the Sun to 1 AU using Real and Synthetic Magnetograms	WG2: Interplanetary	Student Poster
144 Sarah Auriemma	University of New Hampshire	ICME Driven Shock of November 9th 2004 its Effect on Earth's Magnetosphere	WG2: Interplanetary	Student Poster
145 Shannon C. Hill	University of Michigan	Tracing the impacts of an ICME shock on the magnetosphere: Comparison of observations and SWMF simulation results¬†	WG2: Interplanetary	Student Poster
146 Sahanaj Aktar Banu	University of New Hampshire	Characterization of Small Flux Ropes using Juno Spacecraft Data	WG2: Interplanetary	Student Poster
147 Siqi Wang	University of Hawaii at Manoa	Properties of Forbush Decreases observed with the AMS-02 daily proton flux	WG2: Interplanetary	Student Poster
148 Andr√© Nicolov	Caltech	Effects of heliosphere plasma conditions on the properties of astrophysical dust grains	WG2: Interplanetary	Student Poster

149 Jason Gilbert	University of Michigan	Energy-per-Charge Selecting Entrance System for the Solar Wind and Pickup Ion Composition Energy Spectrometer	WG2: Interplanetary	
150 Andrew Poppe	Space Sciences Lab., Univ. California at Berkeley	The effects of solar cycle variability on nanodust dynamics in the inner heliosphere: Predictions for future STEREO A/WAVES measurements	WG2: Interplanetary	
151 Kyung-Eun Choi	Chungbuk National University, Korea	Small flux ropes and associated global structures identified from multi-point observations with PSP, STEREO-A and Wind	WG2: Interplanetary	
152 Patrick Kilian	Space Science Institute	Drift-kinetic model of the inner heliosphere	WG2: Interplanetary	
153 Dylan Conner	WVU Dept. of Physics	Calculating and Examining Electric Fields in the Venusian Plasma Environment using PSP	WG2: Interplanetary	
154 Maher Dayeh	Southwest Research Institute	Suprathermal ion properties in slow and fast solar wind structures: Observations from the Parker Solar Probe	WG3: Solar energetic particles (including suprathermal and GCR)	PSP and SO: Origin and Acceleration of the Solar Wind(s)
155 Fernando Carcaboso Morales	Catholic University of America / NASA/GSFC	Advantages of Charaterising the Suprathermal Electrons Pitch-angle Distribution	WG3: Solar energetic particles (including suprathermal and GCR)	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture|Session 11. Modeling CME initiation and propagation through the heliosphere|Session 12. Flux Ropes and their Dynamics|Student Poster
156 Haihong Che	University of Alabama in Huntsville	The Formation of Electron Outflow Jets with Power-law Energy Distribution in GuideÔ¨Åeld Magnetic Reconnection	WG3: Solar energetic particles (including suprathermal and GCR)	Session 01. Do we understand the role of turbulence and diffusion in cosmic ray transport in the heliosphere?
157 Meriem Alaoui	IREAP/UMD & NASA/GSFC	Role of Suprathermal Runaway electrons returning to the acceleration region in solar flares	WG3: Solar energetic particles (including suprathermal and GCR)	Session 03. Energy dissipation processes in space plasmas
158 Michael D. Galloy	NCAR/HAO/MLSO	Integrating automated coronal mass ejection detection alerts from a ground based coronagraph for use in solar energetic particle event forecasting	WG3: Solar energetic particles (including suprathermal and GCR)	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models|Session 07. Data Mining for Science of the Sun-Earth Connection as a Single System|Session 09. SHINE Challenge: SEP Model Validation Community Effort - Forecasting the "Non-event"
159 Alicia Petersen	AFRL NRC Fellow and University of Florida	Quantifying the Impacts of Interplanetary Propagation and Transient Events on Solar Energetic Particle Intensity-Time Profiles	WG3: Solar energetic particles (including suprathermal and GCR)	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models|Session 07. Data Mining for Science of the Sun-Earth Connection as a Single System|Session 09. SHINE Challenge: SEP Model Validation Community Effort - Forecasting the "Non-event"|Session 17. Models and observations for the contributions from SEPs and GCRs to the radiation background in the heliosphere
160 Bofeng Tang	University of Alabama in Huntsville	Impact of Magnetic Focusing on the Origin of Electron Beams Propagating Upwardly in the Solar Corona	WG3: Solar energetic particles (including suprathermal and GCR)	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling
161 Matthew J West	Southwest Research Institute	Acceleration of Solar Energetic Particles (SEPs) through a CME-driven Shock and Streamer Interaction	WG3: Solar energetic particles (including suprathermal and GCR)	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling

162 James M. Ryan	University of New Hampshire	Re-vitalizing the US-Based Neutron Monitor Network	WG3: Solar energetic particles (including suprathermal and GCR)	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling|Session 17. Models and observations for the contributions from SEPs and GCRs to the radiation background in the heliosphere
163 Subhamoy Chatterjee	Southwest Research Institute	Validating a Multivariate Ensemble of SEP Forecasting Models with SHINE Challenge Events and Non-events over the Period 2014-2022	WG3: Solar energetic particles (including suprathermal and GCR)	Session 07. Data Mining for Science of the Sun-Earth Connection as a Single System|Session 09. SHINE Challenge: SEP Model Validation Community Effort - Forecasting the "Non-event"|Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture
164 John D. Richardson	MIT	Using Magnetic Flux Conservation to Determine Heliosheath Speeds	WG3: Solar energetic particles (including suprathermal and GCR)	Session 08. Connecting the Heliosphere with the Interstellar Medium
165 Hafijul Islam	University of New Hampshire	12 Year Full Solar Cycle Maps from IBEX-Lo Interstellar Neutral Atom Observations (2009-2020) and Global Parameter estimation of Interstellar Helium	WG3: Solar energetic particles (including suprathermal and GCR)	Session 08. Connecting the Heliosphere with the Interstellar Medium|Student Poster
166 Kathryn Whitman	NASA JSC SRAG	Community Effort towards Solar Energetic Particle Model Validation Motivated by Space Radiation Operations	WG3: Solar energetic particles (including suprathermal and GCR)	Session 09. SHINE Challenge: SEP Model Validation Community Effort - Forecasting the "Non-event"
167 Alessandro Bruno	Catholic University of America	SEPSTER2D: An Empirical Model of 10-130 MeV Solar Energetic Particle Spectra at 1 AU Based on Coronal Mass Ejection Speed and Direction	WG3: Solar energetic particles (including suprathermal and GCR)	Session 09. SHINE Challenge: SEP Model Validation Community Effort - Forecasting the "Non-event"
168 Jon Linker	Predictive Science Inc	Modeling Broad-Longitude SEP Events in the Era of PSP and Solar Orbiter	WG3: Solar energetic particles (including suprathermal and GCR)	Session 09. SHINE Challenge: SEP Model Validation Community Effort - Forecasting the "Non-event"
169 Viacheslav Sadykov	Georgia State University	Machine Learning-Driven Prediction of "All-Clear" Periods for Solar Proton Events	WG3: Solar energetic particles (including suprathermal and GCR)	Session 09. SHINE Challenge: SEP Model Validation Community Effort - Forecasting the "Non-event"|Session 10. Machine Learning and Data Assimilation in Heliophysics: Capturing the Current Picture
170 Valeriy Tenishev	University of Michigan	Integrated Model for the Solar Energetic Particles and Alfven Wave Turbulence in the Inner Heliosphere	WG3: Solar energetic particles (including suprathermal and GCR)	Session 11. Modeling CME initiation and propagation through the heliosphere
171 Keaton Van Eck	The University of Alabama in Huntsville	Determining the Relative Roles of SMFR Acceleration Mechanisms on Particle Acceleration Behind Traveling Shocks Within 1 AU	WG3: Solar energetic particles (including suprathermal and GCR)	Session 12. Flux Ropes and their Dynamics|Session 15. Suprathermal Ions in the Heliosphere and Surrounding Very Local Interstellar Medium|Student Poster
172 Ratan Kumar Bera	Center for Space Plasma and Aeronomic Research, University of Alabama in Huntsville	Towards Accurate Modeling of Pickup Ions in the ¬†Solar Wind¬†Interaction¬†with the Local Interstellar Medium	WG3: Solar energetic particles (including suprathermal and GCR)	Session 15. Suprathermal Ions in the Heliosphere and Surrounding Very Local Interstellar Medium
173 Samuel Hart	The University of Texas at San Antonio	Live Catalogue and Statistical Study of Helium-3 Rich Time Periods over the Last Two Solar Cycles	WG3: Solar energetic particles (including suprathermal and GCR)	Session 15. Suprathermal Ions in the Heliosphere and Surrounding Very Local Interstellar Medium|Student Poster
174 Ashraf Moradi	University of Arizona	The Variation of the Pitch-angle Distribution of 500 MeV solar protons at 1 au in a Weak Pitch-angle Scattering and in the Large-scale Turbulent Interplanetary Magnetic Field	WG3: Solar energetic particles (including suprathermal and GCR)	Session 17. Models and observations for the contributions from SEPs and GCRs to the radiation background in the heliosphere
175 Lulu Zhao	University of Michigan	SOFIE (Solar-wind with Field-lines and Energetic-particles): A data-driven and self-consistent SEP modeling and forecasting tool	WG3: Solar energetic particles (including suprathermal and GCR)	Session 17. Models and observations for the contributions from SEPs and GCRs to the radiation background in the heliosphere
176 J. Grant Mitchell	George Washington University & NASA/GSFC	First Measurements of Jovian Electrons by Parker Solar Probe/ISOIS Within 0.5 AU of the Sun	WG3: Solar energetic particles (including suprathermal and GCR)	Session 17. Models and observations for the contributions from SEPs and GCRs to the radiation background in the heliosphere|Student Poster

177 Omar Bahri	Utah State University	Rule Transform: A Shapelet-based Temporal Association Rule Miner for Multivariate Time Series Classification	WG3: Solar energetic particles (including suprathermal and GCR)	Student Poster
178 Aatiya Ali	Georgia State University	Predicting Solar Proton Events of Solar Cycles 22-24	WG3: Solar energetic particles (including suprathermal and GCR)	Student Poster
179 Antonio Esteban Niemela	KU Leuven	Gradual SEP modelling with PARADISE: March and April 2013 events	WG3: Solar energetic particles (including suprathermal and GCR)	Student Poster
180 Kimberly Moreland	University of Texas at San Antonio/Southwest Research Institute	Forecasting the Probability of Solar Energetic Particle Events and Their Properties Using a Multivariate Dataset and an Ensemble of Convolutional Neural Networks	WG3: Solar energetic particles (including suprathermal and GCR)	Student Poster
181 Yang Zhang	Caltech	Laboratory nano-flares generated from multiple braided current loops	WG3: Solar energetic particles (including suprathermal and GCR)	Student Poster
182 Adolfo Santa Fe DueV±as	University of Texas at San Antonio / Southwest Research Institute	ESP Heavy Ion Property Variations in Solar Cycles 23 and 24	WG3: Solar energetic particles (including suprathermal and GCR)	Student Poster
183 Xiaohang Chen	University of Arizona	Solar Energetic Particles (SEP) Acceleration in the Ground Level Enhancement Event on 2017/09/10: A 3D simulation	WG3: Solar energetic particles (including suprathermal and GCR)	Student Poster
184 Ian G. Richardson	University of Maryland/Goddard Space Flight Center	Solar Energetic Particle-Associated Coronal Mass Ejections Observed by the Mauna Loa Solar Observatory Mk3 and Mk4 Coronagraphs	WG3: Solar energetic particles (including suprathermal and GCR)	
185 Gang Li	UAH	Using Ensemble Modelling to Assess the Uncertainty of Solar Energetic Particle Event	WG3: Solar energetic particles (including suprathermal and GCR)	
186 Nariaki Nitta	Lockheed Martin Advanced Technology Center	The Origin of Fe-rich Gradual Solar Energetic Particle Events	WG3: Solar energetic particles (including suprathermal and GCR)	
187 Leon Ofman	CUA/NASA GSFC	Solar wind proton and alpha particle velocity distributions, temperature anisotropies, and heating models guided by Parker Solar Probe perihelia data	WG4: Microphysics (reconnection, turbulence, etc)	PSP and SO: Origin and Acceleration of the Solar Wind(s)
188 Seth Dorfman	Space Science Institute	Laboratory Study of Alfvv©n Wave Parametric Instabilites	WG4: Microphysics (reconnection, turbulence, etc)	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 03. Energy dissipation processes in space plasmas|Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range
189 Trevor Bowen	University of California, Berkeley	In-Situ Signature of Cyclotron Resonant Heating	WG4: Microphysics (reconnection, turbulence, etc)	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 03. Energy dissipation processes in space plasmas|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range
190 Phyllis Whittlesey	University of California Berkeley / Space Sciences Lab	Sunward Strahl in Magnetic Field Reversals: Solar Connectivity and Magnetic Topology during Rapid Switchbacks in Parker Solar Probe Fast Electron Data	WG4: Microphysics (reconnection, turbulence, etc)	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 12. Flux Ropes and their Dynamics
191 Yi Qi	LASP, CU Boulder	The Magnetic Flux Transport analysis and reconnection at the interface of entangled flux tubes	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas
192 Colby Haggerty	University of Hawaii, Institute for Astronomy	The Role of Shear Flow on Reconnecting Current Sheets in the Inner Solar Wind	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas
193 Tak Chu Li	Dartmouth College	Magnetic Reconnection and Energy Partition in Three-dimensional Plasma Turbulence	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas

194 Ivan Vasko	Space Sciences Laboratory, UC Berkeley	Kinetic-scale current sheets at 0.2 and 1 au: properties, origin and reconnection	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas|Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence
195 Jada Walters	University of Arizona	The Effects of Non-Equilibrium Velocity Distributions on Ion-Scale Waves in the Solar Wind	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas|Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range|Student Poster
196 Alexandre Brosius	PSU/NASA GSFC	Characterizing waves near the heliospheric current sheet with improved minimum variance analysis of PSP observations	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas|Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Student Poster
197 Mihailo Martinovic	University of Arizona	Classification of Solar Wind Instabilities in the Inner Heliosphere	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas|Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models
198 Hanying Wei	Hanying Wei	Ion cyclotron waves in the solar wind and their indications of source ion distributions	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range
199 Emily Lichko	University of Arizona	Effects of distribution structure on predictions of plasma behavior in marginally unstable plasma	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range
200 Niranjana Shankarappa	University of Arizona	Relative heating of protons and electrons in the young solar wind due to turbulent dissipation mediated by Landau damping	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range|Student Poster
201 Mahmud Hasan Barbhuiya	West Virginia University	Generalized First law of Thermodynamics: A New Theory of Kinetic-Scale Energy Conversion	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas|Student Poster
202 Sarah Horvath	The University of Iowa	Characterizing Electron Energization Using Field-Particle Correlations	WG4: Microphysics (reconnection, turbulence, etc)	Session 03. Energy dissipation processes in space plasmas|Student Poster
203 Zhaoming Gan	New Mexico Consortium	On the Existence of Fast Modes in Compressible Magnetohydrodynamic Turbulence	WG4: Microphysics (reconnection, turbulence, etc)	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence
204 Juan Carlos Palacios	Florida Institute of Technology	On the Statistical Distribution of Increments and Intermittency of Solar Wind Turbulence	WG4: Microphysics (reconnection, turbulence, etc)	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence
205 Chen Shi	UCLA	Turbulence and large-scale structures in the expanding solar wind (Scene-setting - Session #4)	WG4: Microphysics (reconnection, turbulence, etc)	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence
206 Mel Abler	Space Science Institute	Strong Alfven Wave Interactions in a Laboratory Plasma	WG4: Microphysics (reconnection, turbulence, etc)	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence
207 Kristopher G Klein	University of Arizona	HelioSwarm: Characterizing the Multi-Scale Nature of Space Plasma Turbulence	WG4: Microphysics (reconnection, turbulence, etc)	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range
208 Xiangrong Fu	New Mexico Consortium	Nature and Scalings of Density Fluctuations of Compressible MHD Turbulence with Applications to the Solar Wind	WG4: Microphysics (reconnection, turbulence, etc)	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range
209 Michael Terres	The University of Alabama in Huntsville	A Measure of Alfvenic Turbulence during PSP encounters 6, 7, and 8	WG4: Microphysics (reconnection, turbulence, etc)	Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range|Student Poster

210 Noshin Mashayekhizadeh	University of New Hampshire	Parametric Decay of Circularly Polarized Alfven Wave: One Dimensional and Multidimensional Simulations	WG4: Microphysics (reconnection, turbulence, etc)	Session 05. Understanding and Quantifying the Performance and Uncertainties in Solar and Heliospheric Models|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range|Student Poster
211 Rebecca Harvey	University of Alabama in Huntsville	Observational Analysis of Small-scale Structures in the Earth's Magnetosheath	WG4: Microphysics (reconnection, turbulence, etc)	Session 12. Flux Ropes and their Dynamics|Student Poster
212 Mason Dorseth	Florida Institute of Technology	On the Estimation of Correlation Functions of Non-Contiguous Solar Wind Turbulence Signals	WG4: Microphysics (reconnection, turbulence, etc)	Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range|Student Poster
213 Subash Adhikari	University of Delaware	Guide field dependence of energy spectrum and energy transfer in reconnection	WG4: Microphysics (reconnection, turbulence, etc)	Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range|Student Poster
214 Gregory G. Howes	University of Iowa	Understanding the Kinetic Physics of Particle Energization at Collisionless Shocks Using the Field-Particle Correlation Technique	WG4: Microphysics (reconnection, turbulence, etc)	Session 18. The kinetic physics of collisionless shock waves in the heliosphere
215 Ilya Kuzichev	New Jersey Institute of Technology	Generation of Quasi-Parallel Whistler Waves Around Interplanetary Shocks	WG4: Microphysics (reconnection, turbulence, etc)	Session 18. The kinetic physics of collisionless shock waves in the heliosphere
216 Jason TenBarge	Princeton University	Evolution and Particle Energization of the Electron Cyclotron Drift Instability with Realistic Particle Distributions	WG4: Microphysics (reconnection, turbulence, etc)	Session 18. The kinetic physics of collisionless shock waves in the heliosphere
217 Collin Robert Brown	University of Iowa	Phase Space Energization Analysis of the Corrugation Instability using the Field-Particle Correlation Technique	WG4: Microphysics (reconnection, turbulence, etc)	Session 18. The kinetic physics of collisionless shock waves in the heliosphere|Student Poster
218 Brandon Russell	University of Michigan	Laboratory evidence of unstable semi-relativistic quasi-perpendicular shock formation	WG4: Microphysics (reconnection, turbulence, etc)	Student Poster
219 Sohom Roy	University of Delaware	Statistics of Energy Dissipation rate at reconnection sites	WG4: Microphysics (reconnection, turbulence, etc)	Student Poster
220 Waverly Gorman	University of Arizona	Mind the Gap: Energy Transfer in a high-beta MHD Turbulent Cascade	WG4: Microphysics (reconnection, turbulence, etc)	Student Poster
221 Joshua Goodwill	University of Delaware	Isotropization and Evolution of Energy-Containing Eddies in Solar Wind Turbulence: Parker Solar Probe, Helios 1, ACE, WIND, and Voyager 1	WG4: Microphysics (reconnection, turbulence, etc)	Student Poster
222 Justin Bowman	West Virginia University	Comparison of Sub-proton Scale Magnetic Holes in the Magnetosheath, Magnetotail, and Foreshock	WG4: Microphysics (reconnection, turbulence, etc)	Student Poster
223 Anthony Rasca	NASA	Evidence of Current-Driven Behavior at Switchback Boundaries Observed by Parker Solar Probe	WG4: Microphysics (reconnection, turbulence, etc)	
224 Young Dae Yoon	Pohang Accelerator Laboratory	Current sheet equilibrium selection via relaxation and guide field amplification	WG4: Microphysics (reconnection, turbulence, etc)	
225 Don Kolinski	NCAR/HAO	Polarimeter to UNify the Corona and Heliosphere (PUNCH)	Other	PSP and SO: Origin and Acceleration of the Solar Wind(s)|Session 04. Heliospheric Turbulence I - Interplay of Large-scale Structure with Turbulence|Session 11. Modeling CME initiation and propagation through the heliosphere|Session 14. Identifying Science and Instrumentation Gaps in the Coronal - Solar Wind Connection|Session 16. Heliospheric Turbulence II: Multiscale Nature of Turbulence from Inertial Scales to Dissipation Range
226 Don Kolinski	NCAR/HAO	Whole Heliosphere and Planetary Interactions (WHPI)	Other	Session 06. Connecting the Sun and Heliosphere through interdisciplinary coordinated observing campaigns and modeling

227 Justyna M. Sokol	Southwest Research Institute, San Antonio, TX	Solar Cycle Variations of the Solar Wind Dynamic Pressure and the Consequences for the Heliosphere as seen by Energetic Neutral Atoms	Other	Session 08. Connecting the Heliosphere with the Interstellar Medium
228 Bishwas L. Shrestha	Princeton University	Tracking the Evolution of Polar Coronal Holes using IBEX ENA Observations	Other	Session 08. Connecting the Heliosphere with the Interstellar Medium|Session 15. Suprathermal Ions in the Heliosphere and Surrounding Very Local Interstellar Medium
229 Federico Fraternale	Center for Space Plasma and Aeronoimc Research, The University of Alabama in Huntsville	A new MHD-plasma/Kinetic-neutral global heliosphere model with helium neutrals and separate fluid electrons	Other	Session 08. Connecting the Heliosphere with the Interstellar Medium|Session 15. Suprathermal Ions in the Heliosphere and Surrounding Very Local Interstellar Medium
230 Erick Powell	Boston University	Heliospheric Lyman Alpha Absorption with Kinetic Neutrals	Other	Session 08. Connecting the Heliosphere with the Interstellar Medium|Student Poster
231 Luis Preisser	Space Research Institute / Austrian Academy of Science	Parametric Study of Magnetosheath Jets in 2D Local Hybrid Simulations	Other	Session 18. The kinetic physics of collisionless shock waves in the heliosphere
232 Tyler Eddy	Climate and Space Sciences and Engineering, University of Michigan	TFIPS: Next Generation Space Plasma Spectrometry	Other	Student Poster
233 Aniket Jivani	University of Michigan	Global Sensitivity Analysis for Solar Wind and CME Simulations in the Space Weather Modelling Framework	Other	Student Poster
234 Chika Onubogu	Boston University	Time-Dependent Models of the Heliosphere	Other	Student Poster
235 Jacob Mclaughlin	University of Iowa	Development of a Neutral Calcium Plasma Source	Other	Student Poster
236 Shanti Thagunna	University of Alabama in Huntsville	The Global Kinetic Plasma Model for Material Processing and Space Science	Other	
237 Xiaohan Ma	Boston University	Development of Rayleigh-Taylor-Like Driven Instability in Heliosheath	Other	
238 Joseph Olson	University of Wisconsin-Madison	Opportunities for the study of heliospheric and astrophysical plasmas at the Wisconsin Plasma Physics Laboratory	Other	
239 Alexandra Glenn	UH Mānoa, IfA	Full disk spectropolarimetry using a multi-slit spectrometer	Other, WG1: Solar (including interior) and coronal	Student Poster