



Blazing Paths to Observing Stellar and Exoplanet Particle Environments

**November 6-10, 2023
Overview Schedule**

**Monday, November 6, 2023
Salvatori Seminar Room, South Mudd Building (3rd floor) - Caltech**

**Short Course: Extrasolar Space Weather: The Hidden Hand in Exoplanet Evolution
Introductory Lectures - Open to all interested students, researchers and faculty**

Time	Event	Speaker
8:15 - 8:45	Coffee and Refreshments	
8:45 - 9:00	Welcome/ Logistics/ Introduction & Motivations	Bethany Ehlmann R.O. Parke Loyd
9:00 - 9:35	Cosmic Showers: How Particle Space Weather Changes Planets	David Brain
9:35 - 10:10	A Surge in Intensity: The Impact of Extreme Space Environments	Antígona Segura
10:10 - 10:40	Break	
10:40 - 11:15	The Fundamentals: Physical Origins of Particles in Circumstellar Space	Julián Alvarado-Gómez
11:15 - 11:50	View from the Inside: The Solar System's Particle Environment	Christina Cohen
11:50 - 12:25	Peering Out: The Frontiers of Observing Extrasolar Space Weather	Rachel Osten
12:25 - 12:30	Closing Remarks	R.O. Parke Loyd
12:30 - 1:30	Short Course Ends: Informal Lunch is provided outside short course location	
Invitation-Only Workshop Begins Keck Center - Think Tank, Room 155		
1:30 - 1:45	Walk to Keck Center, pick up badge and welcome packet, find seat in the Think Tank	
1:45 - 2:30	Workshop Logistics and Introduction to KISS	Bethany Ehlmann Janet Seid
2:30 - 3:00	Participant Introductions	KISS/ Team Leads
3:00 - 3:30	Study vision and goals for this workshop	Joe Lazio & Team Leads
3:30 - 4:00	Break	
4:00 - 5:00	Finalize study vision and workshop goals via plenary discussion	Team Leads
5:15 - 5:30	Solicitation of Lightning Talks	Team Leads
5:30 - 6:00	Pack up and walk to the Athenaeum	All
6:00	Dinner at the Athenaeum	

Tuesday, November 7, 2023 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Janet Seid Evgenya Shkolnik & Team Leads
9:15 - 10:00	Special Talk Topic #1 Space Weather in the Young Solar System: Open Questions	TBD
10:00 - 10:30	Lightning Talks (2)	TBD by participants
10:30 - 11:00	Break	
11:00 - 11:15	Overview of KISS Breakout Groups Format	Janet Seid
11:15 - 11:45	Selection of Breakout Groups and Topics #1 Theme: Big Questions in Need of Dependable Particle Inputs	All
11:45 - 1:15	Group Picture and Lunch at the Athenaeum	
1:15 - 2:45	Breakout Groups #1 Meet	Groups
2:45 - 3:30	Report outs from breakout groups #1 (15 mins each)	Groups
3:30 - 4:00	Break	
4:00 - 4:45	Lightning Talks (3)	TBD by participants
4:45 - 5:15	Selection of Topics and Groups for Fresh Minds Exercise	All
5:15 - 5:30	Break	
5:30 - 7:30	POSTER ^{ish} SESSION and Informal dinner at the Keck Center (dinner starts at 6:30 pm)	

Wednesday, November 8, 2023 - Keck Center - Think Tank, Room 155

8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Janet Seid R.O. Parke Loyd & Team Leads
9:15 - 10:30	Fresh Minds Exercise	Groups
10:30 - 11:00	Break	
11:00 - 11:45	Discussion of Fresh Minds Results	All
11:45 - 12:30	Special Talk Topic #2 Tentative: Emerging capabilities at long wavelengths (radio)	TBD
12:30 - 2:00	Lunch at the Athenaeum	
2:00 - 2:30	Lightning talks (2)	TBD by participants
2:30 - 3:15	Plenary Discussion on Participant Wants and Needs	All
3:15 - 3:45	Break	
3:45 - 4:00	Selection of Breakout Groups #2 Theme: Promising Observational Techniques: Questions and Validation	All
4:00 - 4:45	Breakout Groups #2 Meet	All
4:45 - 5:30	Breakout Groups #2 Report Out	All
6:00	OPTIONAL: No-Host Dinner in Pasadena	

Thursday, November 9, 2023 - Keck Center - Think Tank, Room 155

8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Janet Seid Gregg Hallinan & Team Leads
9:15 - 10:00	Special Topics Talk #3 Tentative: Emerging capabilities at short wavelengths (gamma, X-ray, UV)	TBD
10:00 - 10:30	Lightning talks (2)	TBD by participants
10:30 - 11:00	Break	
11:00 - 12:30	Plenary Discussion, Selection of Breakout Groups #3 Theme: Capabilities needed to make meaningful quantitative observations of particle environments	All
12:30 - 2:00	Lunch on your own	
2:00 - 3:15	Breakout Groups #3 Meet	All
3:15 - 3:45	Breakout Groups #3 Report Out	All
3:45 - 4:15	Break	
4:15 - 5:30	Plenary Discussion Pathways and priorities for observing particle environments.	Groups
6:00	Dinner at the Athenaeum	

Friday, November 10, 2023 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Janet Seid Joe Lazio & Team Leads
9:15 - 10:30	Open Discussion of Breakout Group Recommendations and Path Forward to the Second Workshop Goals: Organize teams, identify deliverables	All
10:30 - 11:00	Break	
11:00 - 12:15	Teams meet and begin follow up work: Goals: Set a meeting schedule, identify action items, identify timeline	All
12:15 - 12:30	Workshop Closeout	KISS and Team Leads
12:30	Formal Workshop Concludes - Informal lunch at the Keck Center	
12:30 - 5:00	INFORMAL WORKSHOP SMALL GROUP COLLABORATION TIME	
5:00	Institute Closes	