

# Transients From Space

Tuesday, March 11, 2025 – Schedule of Events

Time	Title	Speaker	Location
8:00am	Breakfast + Posters <b>**Speaker Tech Check for Session 1**</b>		Café
8:30am	Conference Welcome	Jen Lotz, STScI Director	Auditorium
8:45am	Workshop Logistics and Goals	Ori Fox, Chair	
<b>Session 1: The State of the Field, Chair: Ori Fox</b>			
9:00am	Transients from Space: Where We Are and Where We Are Going	Saurabh Jha (I)	Auditorium
9:25am	ACROSS: Enabling Time Domain and Multi-messenger Astrophysics	Jamie Kennea (C)	
9:40am	The landscape of the high-energy transient sky	Andrew Levan (C)	
9:55am	A Gold Sample of Young and Nearby Transients from the UV to the NIR	Manisha Shrestha (C)	
10:10am	Poster Pops	Yaron, Mo, Kirshner, Crawford, Baer-Way, Lazzati, Parra, Liu, Larison, Su, Eracleous, Ryder, Jeong, Paek, Dimitrova	
10:40am	Coffee Break + Posters <b>**Speaker Tech Check for Session 2**</b>		
<b>Session 2: Early Time Observations, Chair: Pat Kelly</b>			
11:10am	Early Ultraviolet Observations of Supernovae	Azalee Bostroem (I)	Auditorium
11:35am	Transient science with high cadence survey: Kepler, TESS, and future missions	Qinan Wang (I)	
12:00pm	Ultraviolet Spectroscopy of a Luminous Fast Blue Optical Transient	Dan Perley (C)	
12:15pm	Ultraviolet observations of infant Supernovae	Erez Zimmerman (C)	
12:30pm	Lunch <b>**Speaker Tech Check for Session 3**</b>		Café
<b>Session 3: Dusty SNe and SNRs, Chair: Tea Temim</b>			
1:45pm	Supernovae and the Dust Budget: A JWST Review	Melissa Shahbandeh (I)	Auditorium
2:10pm	Space observations of supernova remnants & the unique case of SN 1987A	Josefin Larsson (I)	
2:35pm	Dust formation in massive stars, before and after supernova explosion	Arkaprabha Sarangi (C)	
2:50pm	SN2023fyq: The first Type Ibn Supernova with a Detected Progenitor System & Silicate Dust Formation	Kirsty Taggart (C)	
3:05	Coffee + Posters		Café
<b>Session 4: Splinter Working Groups</b>			

Early Time Observations and Target of Opportunity (ToO)	Stellar Transients and Mergers	Dust and SNR
<i>Auditorium; Scribe: Suvi Gezari</i>	<i>Bloomberg 462; Scribe: Lou Strolger</i>	<i>CaféCon, Scribe: Ori Fox</i>
3:45pm Spark Talks:	3:45pm Spark Talks:	3:45pm Spark Talks:
Facilitators: Jen Andrews, Robert Quimby, Armin Rest, Suvi Gezari	Facilitators: Yossef Zenati, Lou Strolger, Rebekah Hounsell, Takashi Moriya	Facilitators: Ori Fox, Tea Temim, Pat Kelly
Chair: Wynn Jacobson-Galan <i>Panchromatic Observations of Young Supernovae</i>	Chair: Danielle Frostig <i>WINTER: Advancing Infrared Time-Domain Surveys and Roman Preparatory Science</i>	Chair: Geoffrey Clayton <i>Very Late-Time JWST Observations of Dust in SN 1995N</i>
Bhagya Subrayan <i>Probing Shock Breakout and Cooling Emission of SN2024uwq with Early Swift UV Observations</i>	Andrea Antoni <i>Low-Energy Transients Following "Failed" Supernovae of Red and Yellow Supergiants</i>	Jacob Jencson <i>A JWST View of the Dynamic ISM with Thermal Echoes of Cas A</i>
Norbert Schartel <i>XMM-Newton: Scientific Policy and Target of Opportunities</i>	John Bally <i>Protostellar Mergers and Explosions: A New Class of IR Transients?</i>	Sam Rose <i>Confirmation of the first low-metallicity highly dust producing Wolf-Rayet system with JWST/NIRSpec</i>
Ryotaro Chiba <i>Exploring pre-supernova mass loss with modelling of double-peaked type Ibc SNe</i>	Michael Fausnaugh <i>The Unique View of TESS on Transient Astronomy</i>	Dan Milisavljevic <i>Understanding Supernovae Via Their Remnants in the Era of JWST</i>
4:30pm Discussion	4:30pm Discussion	4:30pm Discussion

5:30pm	Welcome Reception	Café
7:30pm	<b>OPTIONAL:</b> Social Outing at Union Craft Brewing	1700 W 41st St #420, Baltimore, MD 21211

# Transients From Space

Wednesday, March 12, 2025 – Schedule of Events

Time	Title	Speaker	Location
8:00am	Breakfast + Posters	**Speaker Tech Check for Session 5**	Café
8:00am	Special Tutorial: Deploying Machine Learning in Time-Domain Astronomy	Michael Coughlin	
9:00am	The Roman Research Nexus (RRN)	Gisella de Rosa (C)	Auditorium
Session 5: High-z Transients, Chair: Armin Rest			
9:15am	Overview of high-z SNe with JWST	Justin Pierel (I)	Auditorium
9:40am	Discoveries of strongly lensed SNe with HST and JWST	Wenlei Chen (I)	
10:05am	The JADES Transient Survey: Discovery and Classification of Supernovae in the JADES Deep Field	Christa DeCoursey (C)	
10:20am	Transient Discoveries in the JWST Era	Haojing Yan (C)	
10:35am	Poster Pops	Sears, Suresh, Moriya, Pasham, Lu, Perkins, Skiathas, Pandey	
10:50am	Coffee Break + Posters	**Speaker Tech Check for Session 6**	Café
Session 6: Survey Science, Chair: Lou Strolger			
11:20am	Stories of stellar birth and death: The next decade of infrared transient discoveries	Kishalay De (I)	Auditorium
11:45am	Challenges and opportunities of Machine Learning and AI for the next-generation astronomical surveys	Federica Bianco (I)	
12:10pm	Investigating the Host Galaxy Properties of Spectroscopically and Photometrically Classified CCSNe	Anya Nugent (C)	
12:25pm	The Landscape of "Extreme" and "Exotic" Transients	Brian Metzger (I)	
12:50pm	Group Picture		Café
1:00pm	Lunch	**Speaker Tech Check for Session 7**	Auditorium
Session 7: TDEs, AGN, Nuclear Transients, Chair: Suvi Gezari			
2:00pm	Overview of High-Energy Observations of Tidal Disruption Events	Yuhan Yao (I)	Auditorium
2:25pm	Identifying mid-IR nuclear transients and their connection to neutrino sources	Christos Panagiotou (C)	
2:40pm	A New Population of Mid-Infrared-Selected Tidal Disruption Events	Megan Masterson (C)	
2:55pm	New Developments in Late-Time Emission in Tidal Disruption Events	Yvette Cendes (C)	
3:10pm	Coffee + Posters		Café
Session 8: Splinter Working Groups			

High-Z SNE and Transients	High Energy Observations	Stellar Pops and Progenitors
<i>Auditorium; Scribe: Armin Rest</i>	<i>CaféCon; Scribe: Suvi Gezari</i>	<i>Bloomberg 462; Scribe: Ori Fox</i>
3:45pm Spark Talks:	3:45pm Spark Talks:	3:45pm Spark Talks:
Facilitators: Lou Strolger, Robert Quimby, Armin Rest, Pat Kelly	Facilitators: Suvi Gezari, Jen Andrews, Tea Temim, Rebekah Hounsell	Facilitators: Ori Fox, Yossef Zenati, Takashi Moriya
Chair: David Coulter <i>Discovery of a likely Type II SN at <math>z=3.6</math> with JWST</i>	Chair: Leo Singer <i>Gravitational-Wave Follow-Up Strategy for the UltraViolet Explorer (UVEX) Mission</i>	Chair: Nancy Elias-Rosa <i>Probing Supernova Precursors: Clues from Hubble Observations</i>
Matthew Siebert <i>Discovery of a Relativistic Stripped Envelope Type Ic-BL Supernova at <math>z=2.83</math> with JWST</i>	Chris Reynolds <i>TDAMM in the Era of the AXIS Probe Mission</i>	Kendall Shepherd <i>Stellar Winds &amp; the Fate of Very Massive Stars: Impacts on Evolution, Supernova Types, and Remnants</i>
Christian Vassallo <i>Relation Between Core-Collapse Supernova Rates and Star Formation Rates Using JADES Data</i>	Sebastien Guillot <i>High-energy transients from space with the SVOM mission</i>	Emmanouil Zapartas <i>The population of binary companions next to stripped-envelope core-collapse supernovae</i>
Aadya Agrawal <i>Testing Lens Models with the Triply Lensed Supernova Hope</i>	Brendan O'Connor <i>Characterization of a peculiar Einstein Probe transient EP240408a</i>	Charles Kilpatrick <i>Detecting the Massive Progenitor Starts of Core-Collapse Supernovae in Space Telescope Imaging</i>
4:30pm Discussion	4:30pm Discussion	4:30pm Discussion

5:30pm	Happy Hour SDAS	Café
7:30pm	OPTIONAL: Astronomy on Tap: Guilford Hall Brewery (Upstairs)	1611 Guilford Ave, Baltimore, MD 21202

# Transients From Space

Thursday, March 13, 2025 – Schedule of Events

Time	Title	Speaker	Location
8:00am	Breakfast + Posters	<b>**Speaker Tech Check for Session 9**</b>	Café
9:00am	High Level View from Goddard and Roman	Julie McEnergy	Auditorium
<b>Session 9: Roman and Space Missions, Chair: Rebekah Hounsell</b>			
9:25am	Overview of the Time-Domain and Transient Discovery Program with Roman	Brad Cenko (I)	Auditorium
9:50am	Supernova Cosmology with Roman	Ben Rose (I)	
10:15am	RAPID Insights: Real-Time Transient Classification for Roman	Ashish Mahabal (C)	
10:30am	Leveraging Ground-based Surveys to Maximize Transient Science with Roman	Adam Miller (C)	
10:45am	Coffee Break + Posters	<b>**Speaker Tech Check for Session 10**</b>	Café
<b>Session 10: Euclid and Space Missions, Chair: Takashi Moriya</b>			
11:15am	A transient discovery pilot program with Euclid (Virtual)	Maria Teresa Botticella (I)	Auditorium
11:40am	Space x Space Transient Discovery & Follow-up	Nao Suzuki (I)	
12:05pm	Synergies between Euclid and Ground-Based Surveys for Time-Domain Astronomy	Vincenzo Petrecca (C)	
12:20pm	Strongly Lensed Supernovae in Focus: Joint Analysis of gLSNe in ground and Space-Based Imaging	Charlotte Ward (C)	
12:35pm	Supernovae with ULTRASTAT: A Revolutionary Prospect	Avishay Gal-Yam (C)	
12:50pm	Lunch	<b>**Speaker Tech Check for Session 11**</b>	Café
<b>Session 11: Future Missions, Chair: Robert Quimby</b>			
1:50pm	High-Energy Blinders: Gamma-ray Astrophysics in the 2030's	Jeremy Perkins (I)	Auditorium
2:15pm	Overview of the Future of Space-Based Transient Discovery Programs	Maria Drout (I)	
2:40pm	Transient Science with UVEX	Ryan Chornock (C)	
2:55pm	Transient Science with HabWorlds Observatory	Jason Tumlinson (C)	
3:10pm	Coffee + Posters		Café
<b>Session 12: Splinter Working Groups</b>			

Type IA SNe	Extreme SNe	Big Data, ML, and AI
<i>Bloomberg 462; Scribe: Suvi Gezari</i>	<i>Auditorium; Scribe: Armin Rest</i>	<i>CaféCon; Scribe: Lou Strolger</i>
3:45pm Spark Talks:	3:45pm Spark Talks:	3:45pm Spark Talks:
Facilitators: Yossef Zenati, Pat Kelly, Suvi Gezari	Facilitators: Tea Temim, Robert Quimby, Armin Rest, Takashi Moriya	Facilitators: Lou Strolger, Rebekah Hounsell, Ori Fox, Jen Andrews
Chair: Sahana Kumar <i>The Faint and the Furious: Nebular Phase SNe Ia in the Near-Infrared</i>	Chair: Sebastian Gomez <i>Finding Long Duration Transients with Roman</i>	Chair: Konstantin Malanchev <i>Classification and Anomaly Detection with Massive Time-Domain Catalogs</i>
Lindsey Kwok <i>JWST Observations of Peculiar Iax Supernovae</i>	Tuomas Kangas <i>H-rich superluminous supernovae: diversity and power sources</i>	Gautham Narayan <i>Detecting Young Transients to Understand Progenitors</i>
James DerKacy <i>Type Ia Supernova Physics from Nebular-phase JWST Observations in the MIR</i>	Steve Schulze <i>The tale of two PISN candidates and the implications of finding them at high redshift</i>	Estefania Padilla Gonzalez <i>Spectral Classification of Supernovae Using Deep Learning Neural Networks</i>
Or Graur <i>Late-time Hubble Space Telescope observations of Type Ia supernovae</i>	Francesco Gabrielli <i>The cosmic rate of pair-instability supernovae</i>	Michael Coughlin <i>Tutorial for deploying machine learning in time-domain astronomy</i>
4:30pm Discussion	4:30pm Discussion	4:30pm Discussion

5:30pm	Goodbye	Auditorium
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