

Kepler & K2 Science Conference V Program

Version 3, February 20, 2019

	Monday March 4	Tuesday March 5	Wednesday March 6	Thursday March 7	Friday March 8
Session 1 (8.30am-10.00am)	<i>Kepler/K2 Mission History and Future (Chair: Dawn Gelino)</i>	<i>Kepler Benchmark Systems (Chair: Courtney Dressing)</i>	<i>Galactic Archaeology (Chair: Katrien Kolenberg)</i>	<i>Stellar Rotation and Gyrochronology (Chair: Ann Marie Cody)</i>	<i>Internal Rotation and Asteroseismology (Chair: Dennis Stello)</i>
8:30-8:45	Bill Borucki (invited): History of the Kepler Mission	Sarah Ballard (invited): Lessons from the Multi-planet Systems	Marc Pinsonneault (invited): Galactic Archeology with Kepler and K2	Ruth Angus (invited): The Kepler revolution: stellar rotation and activity in clusters and the field	Sebastian Deheuvels (invited): Monitoring the internal rotation of stars along their evolution with Kepler
8:45-9:00					
9:00-9:15	Katelynn McCalmont (invited): Flying the Kepler Spacecraft's Second Mission: K2 Operations	Christopher Shallue: Can deep learning help find Earth analogues?	Dennis Stello: The K2 Galactic Archaeology Program: revealing the jigsaw puzzle one campaign at a time	Jason Curtis: Building Precision Stellar Clocks with Kepler and Gaia	Jim Fuller: A Solution to the Slow Spins of Stellar Cores
9:15-9:30		Michelle Hill: Exploring Kepler Giant Planets in the Habitable Zone	Jie Yu: Ensemble asteroseismology of 20,000 oscillating red giants observed by Kepler	Beate Stelzer: The rotation-activity-age relation of M dwarfs in the era of Kepler and K2	Barbara Endl: Asteroseismology of white dwarfs observed by Kepler and K2
9:30-9:45	Douglas Caldwell: The Kepler photometer	Kai Rodenbeck: Revisiting the exomoon candidate signal around Kepler-1625 b	Rafael Garcia: A Comprehensive Full Kepler Red Giant Legacy Catalog	Lauren Doyle: The Rotational Phase distribution of Stellar Flares on M dwarfs	Roberto Szabo: Classical pulsating variables in the Kepler/K2 era
9:45-10:00	Geert Barentsen: Kepler's Discoveries Will Continue: 21 Scientific Opportunities with Kepler & K2 Archive Data	Ashley Chontos: The Curious Case of KOI-4: Confirming Kepler's First Exoplanet	Daniel Huber: An Asteroseismic Age for the Galactic Halo Measured with Distant Kepler Giants	Joshua Reding: The Confluence of Hardware Failures That Lead to the Discovery of the Most Rapidly Rotating Isolated White Dwarf	Katrien Kolenberg: RR Lyr, an old friend in a new light, with Kepler
Break (10am-10.30am)					

Session 2 (10.30am-12pm)	<i>Precise Stellar and Planetary Radii (Chair: Dan Huber)</i>	<i>K2 Benchmark Systems (Chair: Jessie Dotson)</i>	<i>Binaries, Exoplanets, and Citizen Science (Chair: Andrew Howard)</i>	<i>Exoplanets Over Time (Chair: Matthew Holman)</i>	<i>Kepler/K2 Follow-Up Programs (Chair: Christina Hedges)</i>
10:30-10:45	Mia Lundkvist (invited): Asteroseismology of exoplanet host stars from the Kepler/K2 missions	Andrew Vanderburg (invited): Benchmark Exoplanet Systems Discovered by the K2 Mission	Adam Kraus: The Perilous Lives of Planets in Binary Star Systems	Andrew Mann (invited): Tracing Planetary Evolution with K2	David Ciardi: The Legacy of Kepler and K2: The Follow-up Observation Programs
10:45-11:00			Rachel Matson: Detecting Unresolved Binaries in Exoplanet Transit Surveys with Speckle Imaging		David Latham: Contributions from HARPS-N to the Mass-Radius Diagram for Kepler/K2 Planets
11:00-11:15	Vincent Van Eylen: Understanding planet formation through asteroseismology	Juliette Becker: Dynamically Determining Observationally Ill-Constrained Planet Parameters: Towards Precise Transit Ephemerides for the Benchmark System HIP 41378	Nicole Hess: Identifying Bound Stellar Companions to Kepler Exoplanet Host Stars With Speckle Imaging	Ann Marie Cody: Young Stars in the Time Domain: the View with Kepler	Erik Petigura: Metal-rich Stars Host a Greater Diversity of Planets
11:15-11:30	Hilke Schlichting: Observational Signatures of the Core-Powered Mass-Loss Mechanism: The Radius Valley as a Function of Stellar Mass	Kevin Hardegree-Ullman: Space Telescope Synergy: Spitzer Follow-up of K2 Targets	Wei Zhu: Many Kepler planets have distant companions	Eric Gaidos: What Orbits a Mysterious Young "Dipper" Star in Taurus?	Cintia Fernanda Martinez: An Independent Spectroscopic Analysis of the California-Kepler Survey Sample: A Slope in the Small Planet Radius Gap
11:30-11:45	Travis Berger: Precise Characterization of Kepler Stars and Planets Using Gaia DR2	Joey Rodriguez: K2-266: A Compact Multi-Planet System With A Planet That Is "Way Out of Line"	Chris Lintott (invited): Citizen Science with Kepler and K2	Laura Venuti: A dynamical view of star-disk interaction processes in the Lagoon Nebula with Kepler/K2	Eric Mamajek: Small (In)temperate Planets: A Closer Look at Habitable Zone Terrestrial-sized Planet Candidates
11:45-12:00	Benjamin Fulton: Revisiting the Radius Gap in the Era of Gaia	Fei Dai: New perspective on the ultra-short-period planets		Samuel Grunblatt: Planetary Archaeology: Exploring the Planet Population of Evolved Stars	Ian Crossfield: Atmospheric Characterization of Kepler/K2 Planets
Lunch (12pm-1.30pm)					

Session 3 (1.30pm-3pm)	Stellar Magnetism and Activity (Chair: David Ciardi)	Methods, Microlensing, and Accretion Physics (Chair: Steve Howell)	Simultaneous Breakout Sessions I	Fundamental Stellar Parameters (Chair: Savita Mathur)	Solar System Science, Other Missions, and Reflections (Chair: Tom Barclay)
1:30-1:45	Matteo Cantiello: Internal Magnetic Fields Asteroseismology: Kepler's Legacy and TESS's opportunities	Rodrigo Luger: Gradient-based inference techniques for exoplanet light curves	David Soderblom: Opportunities and limitations of the cluster data from Kepler/K2	Patrick Gaulme (invited): Asteroseismology, Red Giants, and Eclipsing Binaries	Poster Competition Winners (2x7 min)
1:45-2:00	Angela Santos: Seismic signatures of magnetic activity in solar-type stars observed by Kepler	Sebastiano Calchi Novati: An isolated microlens observed from K2, Spitzer and Earth	Christina Hedges: The Lightcurve package for Kepler & TESS data analysis: tutorials and consulting breakout		Andras Pal: New results with K2 in Solar System exploration
2:00-2:15	Ellianna Schwab Abrahams: The Fundamental and Magnetic Characteristics of M Dwarfs in the Kepler Field	Krista Lynne Smith (invited): Kepler/K2 and Active Galactic Nuclei: New Insights into Accretion and High Energy Phenomena	Eric Feigelson: Finding Planets in Kepler lightcurves with R Sharon Wang: Data Hack for RVxK2: Battling Stellar Jitter with Simultaneous K2 Photometry and RVs	Timothy White: Testing asteroseismic ages of red giants with the Hyades	Jessie Dotson: Observations of Solar System Objects with K2
2:15-2:30	Michael Gully-Santiago: K2 constraints on stellar surface inhomogeneities and their systematic bias of transit-derived exoplanet densities			Benjamin Pope: Naked-Eye Stars in Kepler and K2	Andrea Fortier: The CHEOPS Mission
2:30-2:45	Sharon Xuesong Wang: RVxK2: Using Simultaneous Kepler Photometry to Mitigate Stellar Jitter	Paula Szkody: Insights into Accretion in Cataclysmic Variables Gleaned from Kepler		Dominic Bowman: Blue supergiants reveal diverse pulsational variability in K2 photometry	George Ricker: The TESS Mission: Current Status and Future Plans
2:45-3:00	Lisa Bugnet: FLiPer: a powerful tool to detect and characterise Solar-like pulsators	Ryan Ridden-Harper: Hunting transients in K2 with the K2: Background Survey		Simon Murphy: Pulsating Stars in Binaries	Jessie Christiansen (invited): Reflections
Break (3pm-3.30pm)					

Session 4 (3.30pm-5pm)	Exoplanet Occurrence Rates (Chair: Jessie Christiansen)	Extragalactic Science (Chair: Michael Gully-Santiago)	Simultaneous Breakout Sessions II	Planetary Architectures (Chair: Eric Mamajek)	
3:30-3:45	Courtney Dressing (invited): Probing the Frequency of Planetary Systems with Kepler and K2	Peter Garnavich (invited): Better Understanding Supernovae from Kepler/K2 Observations	Ann Marie Cody: A Crowded Field Photometry Challenge Michael Gully-Santiago: Modeling correlated noise with Gaussian processes Lee Rosenthal: RadVel: The Radial Velocity Fitting Toolkit Tom Barclay/Knicole Colón: Community Data Products and Early Science from the TESS Mission	Lauren Weiss (invited): Planetary System Architectures and Dynamics	End of Conference (3:15pm)
3:45-4:00					
4:00-4:15	Gijs Mulders: Exoplanet population synthesis in the era of large exoplanets surveys	Georgios Dimitriadis: K2 Observations of SN 2018oh Reveal a Two-Component Rising Light Curve for a Type Ia Supernova		Jack Lissauer: Architecture and Dynamics of Kepler's Multi-Transiting Planet Systems: Comprehensive Investigation Using All Four Years of Kepler Mission Data	
4:15-4:30	Timothy Morton: The Probabilistic Validation Revolution: How Kepler Forced a Paradigm Shift in How We Treat Transiting Planet Candidates	Thomas Holoien: ASASSN-18bt: Evidence for Nickle on the Surface of a Type Ia Supernova found by the rising K2 light curve		Darin Ragozzine: Getting more out of information-rich Kepler multis that show TTVs	
4:30-4:45	Marko Sestovic: The occurrence rate of planets around ultracool dwarfs	Edward Shaya: A Tidal Disruption Event in a Seyfert 2 Observed with K2		Sarah Millholland: Obliquity Tides and their Role in Understanding the Kepler Planet Period Ratio Distribution	
4:45-5:00	Christina Hedges: Are there any more planets in the Kepler / K2 data?	Armin Rest: A Fast-Evolving, Luminous Transient Discovered by K2/Kepler		Miranda Herman: Revisiting the Long-Period Transiting Planets from Kepler	
Evening Session (5pm-6.30pm)		Poster Session I		Poster Session II	