

Kepler & K2 Science Conference V Program

Version 2, February 7, 2019

Science Program

1

List of Contributed Posters

12



Science Program

Monday, March 4, 2019

- Session 1* *Kepler/K2 Mission History and Future (Chair: Dawn Gelino)*
- 8:00-8:30 Registration
- 8:30-9:00 [Bill Borucki \(invited\): History of the Kepler Mission](#)
- 9:00-9:30 [Katelynn McCalmont \(invited\): Flying the Kepler Spacecraft's Second Mission: K2 Operations](#)
- 9:30-9:45 Douglas Caldwell: The Kepler photometer
- 9:45-10:00 Geert Barentsen: Kepler's Discoveries Will Continue: 21 Scientific Opportunities with Kepler & K2 Archive Data
- 10:00-10:30 *Break*
- Session 2* *Precise Stellar and Planetary Radii (Chair: Dan Huber)*
- 10:30-11:00 [Mia Lundkvist \(invited\): Asteroseismology of exoplanet host stars from the Kepler/K2 missions](#)
- 11:00-11:15 Vincent Van Eylen: Understanding planet formation through asteroseismology
- 11:15-11:30 Hilke Schlichting: Observational Signatures of the Core-Powered Mass-Loss Mechanism: The Radius Valley as a Function of Stellar Mass
- 11:30-11:45 Travis Berger: Precise Characterization of Kepler Stars and Planets Using Gaia DR2
- 11:45-12:00 Benjamin Fulton: Revisiting the Radius Gap in the Era of Gaia
- 12:00-13:30 *Lunch*
- Session 3* *Stellar Magnetism and Activity (Chair: David Ciardi)*
- 13:30-13:45 Matteo Cantiello: Internal Magnetic Fields Asteroseismology: Kepler's Legacy and TESS's opportunities
- 13:45-14:00 Angela Santos: Seismic signatures of magnetic activity in solar-type stars observed by Kepler
- 14:00-14:15 Ellianna Schwab Abrahams: The Fundamental and Magnetic Characteristics of M Dwarfs in the Kepler Field
- 14:15-14:30 Michael Gully-Santiago: K2 constraints on stellar surface inhomogeneities and their systematic bias of transit-derived exoplanet densities
- 14:30-14:45 Sharon Xuesong Wang: RVxK2: Using Simultaneous Kepler Photometry to Mitigate Stellar Jitter
- 14:45-15:00 Lisa Bugnet: FLiPer: a powerful tool to detect and characterise Solar-like pulsators

15:00-15:30 *Break*

Session 4 Exoplanet Occurrence Rates (Chair: Jessie Christiansen)

15:30-16:00 [Courtney Dressing \(invited\): Probing the Frequency of Planetary Systems with Kepler and K2](#)

16:00-16:15 Gijs Mulders: Exoplanet population synthesis in the era of large exoplanets surveys

16:15-16:30 Timothy Morton: The Probabilistic Validation Revolution: How Kepler forced a paradigm shift in how we treat transiting planet candidates

16:30-16:45 Marko Sestovic: The occurrence rate of planets around ultracool dwarfs

16:45-17:00 Christina Hedges: Are there any more planets in the Kepler / K2 data?

Tuesday, March 5, 2019

Session 1 Kepler Benchmark Systems (Chair: Courtney Dressing)

8:30-9:00 [Sarah Ballard \(invited\): Lessons from the Multi-planet Systems](#)

9:00-9:15 Christopher Shallue: Can deep learning help find Earth analogues?

9:15-9:30 Michelle Hill: Exploring Kepler Giant Planets in the Habitable Zone

9:30-9:45 Kai Rodenbeck: Revisiting the exomoon candidate signal around Kepler-1625 b

9:45-10:00 Ashley Chontos: The Curious Case of KOI-4: Confirming Kepler's First Exoplanet

10:00-10:30 *Break*

Session 2 K2 Benchmark Systems (Chair: Jessie Dotson)

10:30-11:00 [Andrew Vanderburg \(invited\): Benchmark Exoplanet Systems Discovered by the K2 Mission](#)

11:00-11:15 Juliette Becker: Dynamically Determining Observationally Ill-Constrained Planet Parameters: Towards Precise Transit Ephemerides for the Benchmark System HIP 41378

11:15-11:30 Kevin Hardegree-Ullman: Space Telescope Synergy: Spitzer Follow-up of K2 Targets

11:30-11:45 Joey Rodriguez: K2-266: A Compact Multi-Planet System With A Planet That Is "Way Out of Line"

11:45-12:00 Fei Dai: New perspective on the ultra-short-period planets

12:00-13:30 *Lunch*

Session 3 Methods, Microlensing, and Accretion Physics (Chair: Steve Howell)

13:30-13:45 Rodrigo Luger: Gradient-based inference techniques for exoplanet light curves

13:45-14:00 Sebastiano Calchi Novati: An isolated microlens observed from K2, Spitzer and Earth

- 14:00-14:30 [Krista Lynne Smith \(invited\): Kepler/K2 and Active Galactic Nuclei: New Insights into Accretion and High Energy Phenomena](#)
- 14:30-14:45 Paula Szkody: Insights into Accretion in Cataclysmic Variables Gleaned from Kepler
- 14:45-15:00 Ryan Ridden-Harper: Hunting transients in K2 with the K2: Background Survey
- 15:00-15:30 *Break*
- Session 4 Extragalactic Science (Chair: Michael Gully-Santiago)*
- 15:30-16:00 [Peter Garnavich \(invited\): Better Understanding Supernovae from Kepler/K2 Observations](#)
- 16:00-16:15 Georgios Dimitriadis: K2 Observations of SN 2018oh Reveal a Two-Component Rising Light Curve for a Type Ia Supernova
- 16:15-16:30 Thomas Holoién: ASASSN-18bt: Evidence for Nickel on the Surface of a Type Ia Supernova found by the rising K2 light curve
- 16:30-16:45 Edward Shaya: A Tidal Disruption Event in a Seyfert 2 Observed with K2
- 16:45-17:00 Armin Rest: A Fast-Evolving, Luminous Transient Discovered by K2/Kepler
- 17:00-18:30 *Poster Session I*

Wednesday, March 6, 2019

- Session 1 Galactic Archaeology (Chair: Katrien Kolenberg)*
- 8:30-9:00 [Marc Pinsonneault \(invited\): Galactic Archeology with Kepler and K2](#)
- 9:00-9:15 Dennis Stello: The K2 Galactic Archaeology Program: revealing the jigsaw puzzle one campaign at a time
- 9:15-9:30 Jie Yu: Ensemble asteroseismology of 20,000 oscillating red giants observed by Kepler
- 9:30-9:45 Rafael Garcia: A Comprehensive Full Kepler Red Giant Legacy Catalog
- 9:45-10:00 Daniel Huber: An Asteroseismic Age for the Galactic Halo Measured with Distant Kepler Giants
- 10:00-10:30 *Break*
- Session 2 Binaries, Exoplanets, and Citizen Science (Chair: Andrew Howard)*
- 10:30-10:45 Adam Kraus: The Perilous Lives of Planets in Binary Star Systems
- 10:45-11:00 Rachel Matson: Detecting Unresolved Binaries in Exoplanet Transit Surveys with Speckle Imaging
- 11:00-11:15 Nicole Hess: Identifying Bound Stellar Companions to Kepler Exoplanet Host Stars With Speckle Imaging
- 11:15-11:30 Wei Zhu: Many Kepler planets have distant companions

- 11:30-12:00 [Chris Lintott \(invited\): Citizen Science with Kepler and K2](#)
- 12:00-13:30 *Lunch*
- Session 3 Simultaneous Breakout Sessions I*
- 13:30-15:00 [David Soderblom: Opportunities and limitations of the cluster data from Kepler/K2](#)
[Christina Hedges: The Lightkurve package for Kepler & TESS data analysis: tutorials and consulting breakout](#)
[Eric Feigelson: Finding Planets in Kepler lightcurves with R](#)
[Sharon Wang: Data Hack for RVxK2: Battling Stellar Jitter with Simultaneous K2 Photometry and RVs](#)
- 15:00-15:30 *Break*
- Session 4 Simultaneous Breakout Sessions II*
- 15:30-17:00 [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](#)

Thursday, March 7, 2019

- Session 1 Stellar Rotation and Gyrochronology (Chair: Ann Marie Cody)*
- 8:30-9:00 [Ruth Angus \(invited\): The Kepler revolution: stellar rotation and activity in clusters and the field](#)
- 9:00-9:15 Jason Curtis: Building Precision Stellar Clocks with Kepler and Gaia
- 9:15-9:30 Beate Stelzer: The rotation-activity-age relation of M dwarfs in the era of Kepler and K2
- 9:30-9:45 Lauren Doyle: The Rotational Phase distribution of Stellar Flares on M dwarfs
- 9:45-10:00 Joshua Reding: The Confluence of Hardware Failures That Lead to the Discovery of the Most Rapidly Rotating Isolated White Dwarf
- 10:00-10:30 *Break*
- Session 2 Exoplanets Over Time (Chair: Matthew Holman)*
- 10:30-11:00 [Andrew Mann \(invited\): Tracing Planetary Evolution with K2](#)
- 11:00-11:15 Ann Marie Cody: Young Stars in the Time Domain: the View with Kepler
- 11:15-11:30 Eric Gaidos: What Orbits a Mysterious Young “Dipper” Star in Taurus?
- 11:30-11:45 Laura Venuti: A dynamical view of star-disk interaction processes in the

- Lagoon Nebula with Kepler/K2
- 11:45-12:00 Samuel Grunblatt: Planetary Archaeology: Exploring the Planet Population of Evolved Stars
- 12:00-13:30 *Lunch*
- Session 3 Fundamental Stellar Parameters (Chair: Savita Mathur)*
- 13:30-14:00 [Patrick Gaulme \(invited\): Asteroseismology, Red Giants, and Eclipsing Binaries](#)
- 14:00-14:15 Timothy White: Testing asteroseismic ages of red giants with the Hyades
- 14:15-14:30 Benjamin Pope: Naked-Eye Stars in Kepler and K2
- 14:30-14:45 Dominic Bowman: Blue supergiants reveal diverse pulsational variability in K2 photometry
- 14:45-15:00 Simon Murphy: Pulsating Stars in Binaries
- 15:00-15:30 *Break*
- Session 4 Planetary Architectures (Chair: Eric Mamajek)*
- 15:30-16:00 [Lauren Weiss \(invited\): Planetary System Architectures and Dynamics](#)
- 16:00-16:15 Jack Lissauer: Architecture and Dynamics of Kepler's Multi-Transiting Planet Systems: Comprehensive Investigation Using All Four Years of Kepler Mission Data
- 16:15-16:30 Darin Ragozzine: Getting more out of information-rich Kepler multits that show TTVs
- 16:30-16:45 Sarah Millholland: Obliquity Tides and their Role in Understanding the Kepler Planet Period Ratio Distribution
- 16:45-17:00 Miranda Herman: Revisiting the Long-Period Transiting Planets from Kepler
- 17:00-18:30 *Poster Session II*

Friday, March 8, 2019

- Session 1 Internal Rotation and Asteroseismology (Chair: Dennis Stello)*
- 8:30-9:00 [Sebastian Deheuvels \(invited\): Monitoring the internal rotation of stars along their evolution with Kepler](#)
- 9:00-9:15 Jim Fuller: A Solution to the Slow Spins of Stellar Cores
- 9:15-9:30 Barbara Endl: Asteroseismology of white dwarfs observed by Kepler and K2
- 9:30-9:45 Roberto Szabo: Classical pulsating variables in the Kepler/K2 era
- 9:45-10:00 Katrien Kolenberg: RR Lyr, an old friend in a new light, with Kepler
- 10:00-10:30 *Break*

- Session 2 Kepler/K2 Follow-Up Programs (Chair: Christina Hedges)*
- 10:30-10:45 David Ciardi: The Legacy of Kepler and K2: The Follow-up Observation Programs
- 10:45-11:00 David Latham: Contributions from HARPS-N to the Mass-Radius Diagram for Kepler/K2 Planets
- 11:00-11:15 Erik Petigura: Metal-rich Stars Host a Greater Diversity of Planets
- 11:15-11:30 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 Eric Mamajek: Small (In)temperate Planets: A Closer Look at Habitable Zone Terrestrial-sized Planet Candidates
- 11:45-12:00 Ian Crossfield: Atmospheric Characterization of Kepler/K2 Planets
- 12:00-13:30 *Lunch*
- 13:30-13:45 *Poster Competition Winners (2x7 min)*
- Session 3 Solar System Science, Other Missions, and Reflections (Chair: Tom Barclay)*
- 13:45-14:00 Andras Pal: New results with K2 in Solar System exploration
- 14:00-14:15 Jessie Dotson: Observations of Solar System Objects with K2
- 14:15-14:30 Andrea Fortier: The CHEOPS Mission
- 14:30-14:45 George Ricker: The TESS Mission: Current Status and Future Plans
- 14:45-15:15 [Jessie Christiansen \(invited\): Reflections](#)
- 15:15 *End of Conference*

Kepler & K2 Science Conference V Program

| | 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 III-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) | <i>Stellar Magnetism and Activity (Chair: David Ciardi)</i> | <i>Methods, Microlensing, and Accretion Physics (Chair: Steve Howell)</i> | <i>Simultaneous Breakout Sessions I</i> | <i>Fundamental Stellar Parameters (Chair: Savita Mathur)</i> | <i>Solar System Science, Other Missions, and Reflections (Chair: Tom Barclay)</i> |
| 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 Lightkurve package for Kepler & TESS data analysis: tutorials and | | 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 | consulting breakout Eric Feigelson: Finding Planets in Kepler lightcurves with R | 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 | | Sharon Wang: Data Hack for RVxK2: Battling Stellar Jitter with Simultaneous K2 Photometry and RVs | 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) | <i>Exoplanet Occurrence Rates (Chair: Jessie Christiansen)</i> | <i>Extragalactic Science (Chair: Michael Gully-Santiago)</i> | <i>Simultaneous Breakout Sessions II</i> | <i>Planetary Architectures (Chair: Eric Mamajek)</i> | |
| 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 | Lauren Weiss (invited): Planetary System Architectures and Dynamics | End of Conference (3:15pm) |
| 3:45-4:00 | | | Michael Gully-Santiago: Modeling correlated noise with Gaussian processes | | |
| 4:00-4:15 | Gijs Mulders: Exoplanet population synthesis in the era of large exoplanets surveys | Georgios Dimitiadis: K2 Observations of SN 2018oh Reveal a Two-Component Rising Light Curve for a Type Ia Supernova | Lee Rosenthal: RadVel: The Radial Velocity Fitting Toolkit Tom Barclay/Knicole Colón: Community Data Products and Early Science from the TESS Mission | 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 | Thomas Holoiien: ASASSN-18bt: Evidence for Nickle on the Surface of a Type Ia Supernova | | Darin Ragozzine: Getting more out of information-rich Kepler multis that show TTVs | |

| | | | | | |
|-------------------------------------|--|---|--|--|--|
| | How We Treat Transiting Planet Candidates | found by the rising K2 light curve | | | |
| 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) | | <i>Poster Session I</i> | | <i>Poster Session II</i> | |

List of Contributed Posters

| Name | Institution | Topic | Title |
|--------------------|---|--|---|
| Barclay, Thomas | NASA GSFC / UMBC | Exoplanets | Simultaneous, multi-wavelength flare observations of nearby low-mass stars from Earth and space |
| Barna, Tyler | Rutgers University | Exoplanets | The Search for Exoplanets Within the Open Cluster M67 by Means of Image Subtraction Analysis |
| Beatty, Thomas | University of Arizona | Stellar Astrophysics/Activity/ Clusters/Rotation | The Curious Case of CWW 89Ab: a Brown Dwarf With a Measured Mass, Radius, and Age |
| Bieryla, Allyson | Center for Astrophysics Harvard & Smithsonian | Exoplanets | Follow-up of K2 Validated Planet Candidates from TFOP-SG1 |
| Boisvert, John | UNLV | Exoplanets | Radial Velocity Model Comparison Near the 2:1 Degeneracy |
| Bryson, Steve | NASA Ames Research Center | Exoplanets | Bayesian Computation of Kepler DR25 Vetting Completeness and Reliability |
| Buzasi, Derek | Florida Gulf Coast University | Asteroseismology | An Unprecedented Asteroseismic Data Set for the Oscillating Massive Star Spica |
| Carmichael, Theron | Harvard University | Other | Exploring the Brown Dwarf Desert: Short-period substellar companions from the Kepler and K2 missions |
| Carpenter, Kenneth | NASA GSFC | Exoplanets | HST's Evolving Role in the Study of Exoplanets |
| Ceja, Alma | University of California, Riverside | Other | The Search for Extraterrestrial Life: An Astro-ecological Modeling Approach for Characterizing Exoplanet Habitability |
| Chang, Heon-Young | Kyungpook National University | Asteroseismology | On Width of Power Excess and Evolutionary Status |
| Childs, Anna | University of Nevada, Las Vegas | Data/Statistical/Numerical Methods | The Importance of High Resolution Collision Models in N-body Studies |
| Clarke, Bruce | SETI | Data/Statistical/Numerical Methods | Dynamic Black-Level Correction and Artifact Flagging in the Kepler/K2 Pipeline |
| Colon, Knicole | NASA Goddard Space Flight Center | Other | Sharing is Caring: Identification of Targets Observed by both K2 and TESS |
| Coughlin, Jeffrey | NASA Ames / SETI Institute | Missions: Past, Current, & Future | The K2 Mission Global Uniform Reprocessing Effort |
| Coughlin, Jeffrey | SETI Institute / NASA Ames | Other | Lessons Learned and Fascinating Finds from a Manual Vetting of Conflicted KOIs |
| Curtis, Jason | Columbia University | Exoplanets | K2-231 b: A Sub-Neptune Exoplanet Transiting a Solar Twin in Ruprecht 147 |
| Dalba, Paul | UC Riverside | Exoplanets | Transit Ephemeris Refinement of Long-period Exoplanets with Substantial TTVs |
| David, Trevor | NASA JPL | Stellar Astrophysics/Activity/ Clusters/Rotation | Age Determination in Upper Scorpius with Eclipsing Binaries |
| Daylan, Tansu | MIT | Exoplanets | Recharacterization of previously known exoplanets in multi-sector TESS data |

| | | | |
|-------------------------|--|--|--|
| Debski, Bartlomiej | Astronomical Observatory, Jagiellonian University | Stellar Astrophysics/Activity/ Clusters/Rotation | The light curve evolution in contact binaries observed with the Kepler Spacecraft |
| Dhara, Atirath | West Windsor Plainsboro High School South | Exoplanets | Using Image Subtraction to Search for Planets in M67 |
| Dholakia, Shashank | University of California, Berkeley | Exoplanets | Mind the Gap 2: Period Constraints for Long-Period Planets in Overlapping Fields |
| Dholakia, Shishir | University of California Berkeley | Exoplanets | Mind the Gap 1: New Constraints for Six Planet Candidate Systems in K2 C5, C16, and C18 data |
| Eisberg, Joann | Chaffey College | Other | New Astronomy Reviews Special Issue: History of Major Kepler Exoplanet Discoveries |
| Endl, Michael | Univeristy of Texas at Austin | Exoplanets | Characterization of the stellar population in the Kepler field with the VIRUS array at the Hobby-Eberly Telescope |
| Estrela, Raissa | JPL/Caltech | Exoplanets | Two terrestrial planet families with different origins |
| Feigelson, Eric | Penn State University | Data/Statistical/Numerical Methods | AutoRegressive Planet Search: A new statistical approach to exoplanet transit detection |
| Fetherolf, Tara | University of California Riverside | Stellar Astrophysics/Activity/ Clusters/Rotation | Stellar Properties of KIC 8736245: A Sub-Synchronous Kepler Eclipsing Binary with a Solar-type Star Leaving the Main Sequence |
| Fleming, Jordan | UC Berkeley | Exoplanets | A Refined Transit Measurement for K2 Planetary Candidate EPIC 206061524.01 Orbiting an M Dwarf |
| Fridlund, Malcolm | Leiden Observatory and Chalmers university of Technology | Exoplanets | The KESPRINT collaboration |
| Gaidos, Eric | University of Hawaii | Exoplanets | From Building-blocks to Boil-off: Kepler/K2 Observe the Life Cycle of Planets |
| Ganesh, Abhinav | Caltech | Exoplanets | Project PANOPTES: Detecting Transiting Exoplanets with a Low-Cost Robotic Observatory |
| Gonzales, Erica | University of California, Santa Cruz | Stellar Populations/Galactic Archeology | K2 Candidate Star Companions: Revealing and Confirming Diluting Companions with Adaptive Optics High Resolution Imaging |
| Gosnell, Natalie | Colorado College | Stellar Astrophysics/Activity/ Clusters/Rotation | K2 M67 legacy field signals spots as cause of sub-subgiant underluminosity |
| Gratia, Pierre | Northwestern University | Exoplanets | Eccentricities and the Stability of Closely-Spaced Five-Planet Systems |
| Greklek-McKeon, Michael | University of Maryland, College Park | Stellar Astrophysics/Activity/ Clusters/Rotation | Revealing the Variability of Naked-Eye Ecliptic Stars with K2 Halo Photometry |
| Gupta, Akash | UCLA | Exoplanets | Understanding the Radius Valley in the Distribution of Small, Close-in Exoplanets: Relevance of Core-Powered Mass-Loss Mechanism |
| Hamann, Aaron | University of Chicago | Exoplanets | K2-146: Discovery of Planet c, Masses from Transit Timing, and Observed Precession |
| Hasegawa, Yasuhiro | JPL/Caltech | Exoplanets | Core accretion and the composition of exoplanets observed by the Kepler telescope |
| Henderson, Calen | Caltech/IPAC | Exoplanets | A Keck Target-of-Opportunity Program in Search of Free-floating Planets During K2's Campaign 9 |
| Howell, Steve | NASA Ames Research Center | Exoplanets | Speckle Interferometric Time-Series Transit Observations of Kepler-13 |

| | | | |
|--|--|--|---|
| Huang, Chenliang | University of Nevada, Las Vegas | Exoplanets | Revisiting the mass-radius relation of super Earth with new ice EOS measurement |
| Isaak, Kate | ESTEC | Exoplanets | The ESA CHEOPS Guest Observers Programme |
| Jontof-Hutter, Daniel | University of the Pacific | Exoplanets | Following Up the Kepler Field: Targets for Transit Timing and Atmospheric Characterization |
| Kitiashvili, Irina | NASA Ames Research Center | Stellar Astrophysics/Activity/ Clusters/Rotation | 3D Radiative Hydrodynamics Modeling of Convection of Stars From F to M Types to Probe Their Interiors and Photospheric Properties |
| Kjeldsen, Hans | Stellar Astrophysics Centre, Aarhus University | Exoplanets | Accurate measurement of properties for exoplanets that orbit very close to their host stars |
| Kosiarek, Molly | UC Santa Cruz | Exoplanets | EPIC 247418783 b: A rocky super-Earth in a 2.2 day orbit |
| Kosovichev, Alexander | New Jersey Institute of Technology | Asteroseismology | Resolving Power of Asteroseismic Inversion of the Kepler Legacy Sample |
| Kosovichev, Alexander | New Jersey Institute of Technology | Stellar Astrophysics/Activity/ Clusters/Rotation | What Sets the Magnetic Field Strength and Cycle Period in Solar-Type Stars? |
| Kostov, Veselin | NASA/SETI Institute | Exoplanets | Discovery and Vetting of Exoplanets: Benchmarking K2 Vetting Tools |
| Li, Min | University of Nevada, Las Vegas | Exoplanets | Disk evolution and chemical compositions in the rocky planets/planetesimals |
| Lisse, Carey | Johns Hopkins University Applied Physics Lab | Other | Know Thy Star, Know Thy Planet: NIR Spectral Measurements of Primary Star Atomic Abundances in Kepler THZ Planet Systems |
| Littlefield, Colin | University of Notre Dame | Stellar Astrophysics/Activity/ Clusters/Rotation | Short-cadence K2 observations of an accretion-state transition in Tau 4, the first polar observed by Kepler |
| Mathur, Savita | Instituto de Astrofisica de Canarias | Asteroseismology | On understanding the non detection of acoustic modes in solar-like stars observed by Kepler |
| Mayo, Andrew | UC Berkeley | Exoplanets | Measuring the Masses of Long-Period Planets Kepler-538 b and Kepler-37 d |
| Mighell, Kenneth | SETI Institute / NASA Ames | Data/Statistical/Numerical Methods | Kepler K2 Cadence Events: A Data Visualization and Manipulation Tool to Improve the Scientific Return of Light Curve Files and Target Pixel Files from the Kepler, K2 and TESS Missions |
| Mocnik, Teo | UC Riverside | Exoplanets | K2's Short-cadence View of Transiting Exoplanets |
| Montgomery, Michele | UCF | Stellar Astrophysics/Activity/ Clusters/Rotation | Algols and Other EBs in Kepler & K2 - Revised and New Data |
| Namekata, Kosuke | Kyoto University | Stellar Astrophysics/Activity/ Clusters/Rotation | Lifetimes and Emerging/Decay Rates of Star Spots on Solar-type Stars Estimated by Kepler Data in Comparison with Those of Sunspots |
| Olenick, Richard | University of Dallas | Other | Kepler Observations of the Dwarf Nova EPIC 220615486 (J011613.76+092215.9) in Outburst |
| Olenick, Richard and Thompson, Alexander | University of Dallas | Stellar Astrophysics/Activity/ Clusters/Rotation | Evidence of Mass Transfer and Possible Third Body from Photometric Analysis and Modeling of KIC 2708156 |
| Owen, James | Imperial College London | Exoplanets | Insights from the "evaporation valley" |

| | | | |
|--------------------------|--|---|---|
| Peters, Geraldine | USC | Stellar Astrophysics/Activity/Clusters/Rotation | Quadrature Light Variability in Eclipsing Binaries: What 10 Years of Kepler/K2 Observations Have Revealed |
| Poleski, Radosław | Ohio State University | Exoplanets | Photometry of K2 Bulge Data |
| Poon, Sanson Tsun Sum | Queen Mary University of London | Exoplanets | Formation of Kepler compact multi-systems by dynamical instabilities and giant impacts |
| Prsa, Andrej | Villanova University | Data/Statistical/Numerical Methods | Detrending Kepler/K2 data using strictly periodic variables |
| Rampalli, Rayna | Columbia University | Stellar Astrophysics/Activity/Clusters/Rotation | How Long Do Bees Buzz? Examining Light Curve Evolution For Low-Mass Stars In Praesepe |
| Ramsay, Gavin | Armagh Observatory | Stellar Astrophysics/Activity/Clusters/Rotation | Kepler and K2 observations of cataclysmic variables |
| Rebull, Luisa | Caltech-IPAC/IRSA | Stellar Astrophysics/Activity/Clusters/Rotation | Rotation in Taurus with K2 |
| Rice, David | University of Nevada, Las Vegas | Exoplanets | The effect of differentiated collisions on the interiors of terrestrial planets |
| Rivodo Rodriguez, Vanesa | University of Central Florida | Exoplanets | Orbital Mechanics Study of Kepler/K2 System Formations |
| Rogers, James | Imperial College London | Exoplanets | A Bayesian Hierarchical Model for the Planetary Distributions in our Galaxy |
| Santos, Angela | Space Science Institute | Stellar Astrophysics/Activity/Clusters/Rotation | Surface rotation, photometric activity, and active region lifetimes for Kepler targets |
| Saunders, Nicholas | Kepler/K2 GO Office, NASA Ames | Data/Statistical/Numerical Methods | Forward modeling pixel data: applications to Kepler/K2 and future missions |
| Schlawin, Everett | University of Arizona | Exoplanets | Back to "Normal" for the Disintegrating Planet Candidate KIC 12557548 b |
| Scott, Nicholas | NASA ARC/BEARI | Exoplanets | Diffraction-limited Imaging for Exoplanet Characterization |
| Singh, Raghubar | Indian Institute of Astrophysics India | Asteroseismology | Asteroseismic and spectroscopic study of Li-rich red giants |
| Soares, Melinda | Princeton University | Stellar Astrophysics/Activity/Clusters/Rotation | Using Image Subtraction to Search for Planets and Variables in M35, NGC 2158, M44 and M67 |
| Socia, Quentin | San Diego State University | Exoplanets | The Discovery of a Transiting Circumbinary Planet in KOI-3152 |
| Stauffer, John | Grove Colony HOA | Stellar Astrophysics/Activity/Clusters/Rotation | More Enigmatic M Dwarf Light Curves in Upper Sco |
| Steffen, Jason | University of Nevada, Las Vegas | Exoplanets | The distribution of orbital period ratios and system architecture from dynamical sculpting |
| Stello, Dennis | UNSW | Other | Is the (single) peer review process broken? |
| Sudol, Jeffrey | West Chester University | Exoplanets | On the Possibility of Habitable, Trojan Planets in the Kepler Circumbinary Planetary Systems |
| Swanton, Peter | Australian National University | Supernovae/Extragalactic Science | Analysing the Short Term Variability of 3C 273 |

| | | | |
|--------------------------|--|--|---|
| Taylor, Stuart | Participation Worldscope/Okapi Architecture | Exoplanets | The Distribution of Planet Parameters Provides Essential Constraints For Understanding Planet Formation. |
| Thao, Pa Chia | University of North Carolina at Chapel Hill | Exoplanets | The Young Exoplanet K2-25b: Flat Spectrum and High Eccentricity |
| Thompson, Alexander | University of Dallas | Stellar Astrophysics/Activity/ Clusters/Rotation | Analysis of KIC 2708156 |
| Torres, Guillermo | Harvard-Smithsonian Center for Astrophysics | Stellar Astrophysics/Activity/ Clusters/Rotation | The eclipsing binary EPIC 219394517 in the open cluster Ruprecht 147 |
| Tovmassian, Gagik | Institute of Astronomy, UNAM | Stellar Astrophysics/Activity/ Clusters/Rotation | K2 study of the magnetic pre-cataclysmic variable V1082 Sgr |
| Valio, Adriana | CRAAM - Mackenzie University (Brazil) | Stellar Astrophysics/Activity/ Clusters/Rotation | The effects of stellar activity on orbiting planets from transit mapping |
| Vanderbosch, Zach | University of Texas at Austin | Asteroseismology | Pulsating Helium White Dwarfs in the Age of Kepler/K2 |
| Vissapragada, Shreyas | Caltech | Exoplanets | Space-like infrared photometry of Kepler TTV systems with Palomar/WIRC |
| Wang, Songhu | Yale | Exoplanets | Kepler-730: A hot Jupiter with an additional, close-in transiting Earth-sized planet |
| Wells, Mark | Penn. State University and Villanova University | Data/Statistical/Numerical Methods | Reconciling the observed Kepler Eclipsing Binary Sample with Population Models |
| Wittenmyer, Rob | University of Southern Queensland | Exoplanets | Revised planetary and host parameters for K2 planet candidates from AAT/HERMES: Complete results C1-C13 |
| Wolfgang, Angie | Pennsylvania State University | Exoplanets | The Empirical Exoplanet Composition Distribution: Latest Developments and Next Steps |
| Yenawine, Mitchell | San Diego State University | Stellar Astrophysics/Activity/ Clusters/Rotation | The Apsidal Motion Constants in the Triple Star System KOI-126 |
| Zhang, Shangjia | University of Nevada, Las Vegas | Exoplanets | Gaps and Rings in ALMA Observations of Protoplanetary Disks: Implications for the Young Planet Population |
| Zhu, Wei | Canadian Institute for Theoretical Astrophysics | Exoplanets | There is no Kepler dichotomy |
| Zink, Jon | UCLA | Exoplanets | Transit Multiplicity in Planet Occurrence Rates |
| Zinn, Joel | Ohio State University | Asteroseismology | Testing the radius scaling relation with Gaia DR2 in the Kepler Field |