2023 54th Annual DDA Meeting Schedule

2023 54th Annual Meeting of the DDA

Michigan State University, East Lansing MI

Oral Presentations

All times are local time (EDT, UTC-4)
Full abstract information is here, [1] but you must "login" in order to see it.

Sunday, May 7th

Opening Reception
Food and drink available for purchase
Venue: Rock Bar (top floor), Graduate Lansing East Hotel, 133 Evergreen Ave, East Lansing MI
5:00 – 8:00

Monday, May 8th

Dynamics Community Meetup
We encourage all members of the DDA to gather for pre-meeting conversations and networking. We hope this space enhances people's experience at the DDA by providing an opportunity for people with similar identities to meet and connect. Those who are underrepresented in astronomy are strongly encouraged to attend, as well as anyone interested in DEI issues.
8:20 – 8:55

Introduction and Announcements
Matt Tiscareno, Seth Jacobson, Dan Tamayo
SOC, LOC and DDA Chairs
8:55 – 9:00

100 - Comet and TNO Dynamics
Chair: Kat Volk
Slack Chair: Aswin Sekhar
9:00 – 10:30

9:00	Yukun Huang	University of British Columbia	Steady state of a planet-scattering debris disk
9:15	Brett Gladman	University of British Columbia	Sednoid creation by scattered rogue planets
9:30	Sam Hadden	CITA	Scattered Disk Dynamics: A Mapping Approach
9:45	Santiago Torres	University of California, Los Angeles	From the Oort Cloud to Interstellar Space
10:00	Henry Dones	Southwest Research Institute	Original Orbits for Long-Period Comets Active Far from the Sun
10:15	William Bottke	Southwest Research Institute	The Size Distribution and Impact Flux of

			Comets in the Outer Solar System

Coffee Break
10:30 – 10:45

101 - Galaxy Dynamics 1: Spirals and Bars
Chair: Arpit Arora
Slack Chair: Harrison Blake
10:45 – 12:15

10:45	Steven Gough-Kelly	Jeremiah Horrocks Institute, University of Central Lancashire	Modelling the Internal Evolution of Barred Galaxies (VIRTUAL)
11:00	Leandro Beraldo e Silva	University of Michigan	Orbital support and evolution of flat profiles of bars (shoulders)
11:15	Sandeep Kataria	Shanghai Jiao Tong University, Shanghai	The role of inner halo angular momentum on bar formation and evolution (VIRTUAL)
11:30	Monica Valluri	University of Michigan	Early Growing Supermassive Black Holes Strengthen Stellar Bars
11:45	Behzad Tahmasebzadeh	University of Michigan	Schwarzschild Modeling of Barred S0 Galaxy NGC4371 with TIMER Survey
12:00	Curtis Struck	Iowa State University	Extended Eccentric Resonance Regions in Galaxy Disks

Lunch
12:15 – 1:45

102 - Brouwer Prize Lecture
Chair: Dan Tamayo
Slack Chair: Matt Tiscareno
1:45 – 2:45

1:45	Hal Levison	Southwest Research Institute	Probing the Formation and Evolution of the Outer Solar System with Lucy

103 - Exoplanet Dynamics 1
Chair: Yubo Su
Slack Chair: Sarah Millholland
3:00 – 4:30

3:00	Juliette Becker	Caltech	The Influence of

			Tidal Heating on the Habitability of Planets Orbiting White Dwarfs
3:15	Malena Rice	MIT, Yale University	Orbital Geometries of Exoplanet-Hosting Multi-Star Systems
3:30	John Zanazzi	University of California, Berkeley	Are planetary systems coplanar?
3:45	Songhu Wang	Indiana University	Hot Jupiters are not as lonely as we thought: Implications for a New Framework of Hot Jupiter Formation
4:00	Brandon Radzom	Indiana University	Post-disk Evolution of Short-period Gas Giants in Compact Multi-planet Systems: A Mechanism to Produce the Observed Companionship Dichotomy Between Hot Jupiters and Warm Jupiters (VIRTUAL)
4:15	Sergio Best	Pontificia Universidad Catolica de Chile	Influence of cold Jupiters in the formation of close-in planets

Brief Break
4:30 – 4:35

104 - Planetary Origins Dynamics 1
Chair: Michelle Vick
Slack Chair: David Minton
4:35 – 5:05

4:35	André Izidoro	Rice University	Very wide-orbit planets from dynamical instabilities during the stellar birth cluster phase
4:50	Raluca Rufu	Southwest Research Institute	Origin of compact exoplanetary systems via early accretion during stellar infall

End of Sessions for the Day
5:05
105 - DDA Public Talk **[2]**
Venue: UrbanBeat, 1213 Turner Road, Lansing MI

6:00 – 8:00

6:00	Harrison Agrusa	Université Côte d'Azur, Observatoire de la Côte d'Azur, CNRS, Laboratoire Lagrange	The results of NASA's DART Mission and what comes next

Tuesday, May 9th

Coffee and Gathering
8:20 – 8:55

Introduction and Announcements
Matt Tiscareno, Seth Jacobson, Dan Tamayo
SOC, LOC and DDA Chairs
8:55 – 9:00

200 - Galaxy Dynamics 2: Black Holes and Dark Matter
Chair: Curtis Struck
Slack Chair: Eric Bell
9:00 – 10:45

9:00	Harrison Blake	Ohio State University	Dynamics of Extreme Mass Ratio Inspiral Resonance Scenarios
9:15	Zhaozhou Li	The Hebrew University of Jerusalem	Modeling the formation of dark-matter deficient galaxies (VIRTUAL)
9:30	Denis Erkal	University of Surrey	The OC stream's evolution in the dark matter haloes of the Milky Way and the LMC (VIRTUAL)
9:45	Frank van den Bosch	Yale University	On the Tidal Evolution of Dark Matter Substructure
10:00	Barry Ginat	Technion – Israel Institute of Technology	Resonant Dynamical Friction at The Galactic Center (VIRTUAL)
10:15	Sanaea Rose	University of California, Los Angeles	Stellar Collisions in the Galactic Center (VIRTUAL)
10:30	Francisco I. Aros	Indiana University	Effects of stellar and intermediate-mass black holes on the degree of energy equipartition in globular clusters.

Coffee Break
10:45 – 11:00

201 - Special Session: Accessibility and Inclusivity in the Dynamics Community
Chair: Juliette Becker
Slack Chair: Steven Gough-Kelly
11:00 – 12:30

11:00	Allyson Bieryla	Center for Astrophysics | Harvard & Smithsonian	Using Sound to Make Solar Eclipses Accessible for the Blind and Low-vision Community (Invited)
11:45	Guided Discussion	In the second half of the workshop, we will discuss how various topics in accessibility play a role in the operations of the DDA, and will solicit suggestions for how accessibility can in improved in our community.	

Lunch
12:30 – 2:00

202 - Asteroid Dynamics
Chair: Alex Meyer
Slack Chair: Sam Hadden
2:00 – 3:30

2:00	William Oldroyd	Northern Arizona University	Active Quasi-Hilda 2009 DQ118 and the Asteroid-Comet Boundary
2:15	Dahlia Baker	University of Colorado Boulder	Statistical Variation in YORP Evolution due to Random Boulder Populations and their Motion
2:30	Rogerio Deienno	Southwest Research Institute	Accretion in the Main Asteroid belt
2:45	Stanley Dermott	University of Florida	Do HED meteorites originate from two large craters on asteroid Vesta?
3:00	Kevin Walsh	Southwest Research Institute	Formation of satellites around large asteroids
3:15	Julian Marohnic	University of Maryland	Simulating the effects of particle shape on the tidal disruption and reaccumulation of small Solar System objects.

Poster Pops
Each poster presenter will be given 1 minute to advertise their poster.
Up to 20 posters may be presented (remainder on Thursday), first-come-first-served, submit your slide to reserve your slot.
3:30 – 3:50

Poster Session
All posters featured. See poster titles below.

3:30 – 5:00

209 - Community Seminar & Mentoring Event
This event is intended to provide a space for junior members to receive mentoring and guidance form senior DDA members. We will start with a discussion on a recent Nature paper “Quantifying hierarchy and dynamics in US faculty hiring and retention”. This will be followed by a formal mentoring event where participants in the year-round mentoring program can meet with their group, and new participants will be paired with a mentor for a conversation about careers, research, and any other topics of interest.
Chairs: Juliette Becker, Santiago Torres, William Oldroyd
5:00 – 6:30

End of Sessions for the Day
6:30

Wednesday, May 10th

Coffee and Gathering
8:20 – 8:55

Introduction and Announcements
Matt Tiscareno, Seth Jacobson, Dan Tamayo
SOC, LOC and DDA Chairs
8:55 – 9:00

300 - Special Session: Uniform Sizes and Spacing in Planetary Systems 1
Chair: Songhu Wang
Slack Chair: Gabriel Nathan
9:00 – 10:15

9:00	Sarah Millholland Lauren Weiss	MIT University of Notre Dame	Peas-in-a-Pod: A Review on the Observed Patterns of Intra-System Uniformity (Invited)
9:25	Hilke Schlichting	UCLA	Giant Impacts: Sculpting Planet Uniformity or Diversity? (Invited) (VIRTUAL)
9:50	Fred Adams	University of Michigan, Ann Arbor	Dynamical Configurations of Planetary Systems Arising from Energy Optimization (Invited)

Coffee Break
10:15 – 10:25

301 - Special Session: Uniform Sizes and Spacing in Planetary Systems 2
Chair: Lauren Weiss
Slack Chair: Janosz Dewberry
10:25 – 11:10

10:25	Armaan Goyal	Indiana University	The Interplay of Planetary Uniformity and Near-Resonant Dynamics

10:40	David Shaw	University of Notre Dame	Updated Masses for Kepler-90's Gas Giants Via Transit-Timing Variation and Radial Velocity Observations (VIRTUAL)
10:55	Caleb Lammers	University of Toronto	Intra-system uniformity: a natural outcome of dynamical sculpting

Brief Break
11:10 – 11:15

302 - Stellar Dynamics 1: Engulfments and Explosions
Chairs: Christopher O'Connor, Joshua Shields
Slack Chair: Jessica Birky
11:15 – 12:15

11:15	Ricardo Yarza	University of California, Santa Cruz	The hydrodynamics of planetary engulfment
11:30	Thomas Donlon	Rensselaer Polytechnic Institute	RR Lyrae Stars as Accelerometers and their Post-Engulfment Companions
11:45	Joshua Shields	Michigan State University	Testing the Double Detonation SN Ia Progenitor Scenario: A High Precision Proper Motion Survey of the SN 1006 Remnant
12:00	Christopher O'Connor	Cornell University	Simulations of planetary engulfment in MESA: envelope hydrodynamics, light curves, and prospects for survival

Lunch
12:15 – 1:45

303 - Rubin Prize Lecture
Chair: Dan Tamayo
Slack Chair: Matt Tiscareno
1:45 – 2:45

1:45	Kathryn Volk	Planetary Science Institute	Using distant small body populations to reveal the solar system’s dynamical history

Coffee Break
2:45 – 3:00

305 - Dynamical Theory and Tools
Chair: Brett Gladman
Slack Chair: Darin Ragozzine
3:00 – 4:45

3:00	Daniel Tamayo	Harvey Mudd College	Insights from the Hill Problem for Understanding Mean Motion Resonances
3:15	David Hernandez	Yale University	Switching integrators reversibly in the astrophysical N-body problem
3:30	Tiger Lu	Yale University	Self-Consistent Spin, Tidal, and Dynamical Equations of Motion in the REBOUND framework
3:45	Soley Hyman	University of Arizona/Steward Observatory	An analytic post-Newtonian method for detecting general relativistic effects in the S stars
4:00	Alessandra Celletti	University of Rome Tor Vergata	Space debris families: from perturbative methods to machine learning techniques (VIRTUAL)
4:15	Anargyros Dogkas	University of Rome (Tor Vergata)	Secular evolution of debris in highly eccentric and inclined orbits (VIRTUAL)
4:30	Janosz Dewberry	CITA	Dynamical tides in rotationally flattened planets and stars with stable stratification

Brief Break
4:45 – 4:50

306 - Planetary Satellite Dynamics 1: Ocean Worlds
Chair: Marina Brozovic
Slack Chair: Hanna Adamski
4:50 – 5:35

4:50	Brynna Downey	University of California, Santa	An observational constraint on

		Cruz	Titan's tidal dissipation
5:05	Maryame El Moutamid	Cornell University	The Role of Three-Body Resonances on the Dynamical History of the Saturnian Satellite System
5:20	Alyssa Rhoden	Southwest Research Institute	Cascading Habitability: Exploring the Effects of Disruptive Collisions on Ocean Worlds

End of Sessions for the Day
5:35
DDA Banquet
Venue: Beggar's Banquet, 218 Abbot Road, East Lansing MI
7:00 – 9:00

Thursday, May 11th

Coffee and Gathering
8:20 – 8:55

Introduction and Announcements
Matt Tiscareno, Seth Jacobson, Dan Tamayo
SOC, LOC and DDA Chairs
8:55 – 9:00

400 - Stellar Dynamics 2: Binaries
Chair: Joshua Shields
Slack Chair: Thomas Donlon
9:00 – 10:15

9:00	Lawrence Molnar	Calvin University	Contact Binary Star Formation
9:15	Noah Vowell	Michigan State University	HIP 33609 b: a highly eccentric transiting brown dwarf orbiting a B-star
9:30	Jessica Birky	University of Washington	Prospects of Constraining Tidal Dissipation in Low-Mass Binary Stars
9:45	Mor Rozner	Technion	Binary formation through gas-assisted capture and the implications for stellar, planetary and compact-object evolution (VIRTUAL)
10:00	Denyz Melchor	University of California, Los	Tidal Disruption Events from the

		Angeles	Combined Effects of Two-Body Relaxation and the Eccentric Kozai-Lidov Mechanism

Coffee Break
10:15 – 10:30

401 - Exoplanet Dynamics 2: Stellar and Planetary Obliquities
Chair: John Zanazzi
Slack Chair: Rogerio Deienno
10:30 – 11:45

10:30	Konstantin Gerbig	Yale University	Precession-Driven Dissipation in Exoplanet-Hosting Binary Star Systems
10:45	Yubo Su	Princeton University	The Effect of Protoplanetary Disk Photoevaporation on Disk-Driven Resonantly Excited Stellar Obliquities
11:00	Michelle Vick	Northwestern University	Forming Perpendicular Hot Jupiter Systems via High-Eccentricity Migration
11:15	Xiumin Huang	Purple Mountain Observatory, Chinese Academy of Sciences	Evolution of the Planetary Obliquity under the Competition of Eccentric Kozai-Lidov Resonance and the Equilibrium Tide (VIRTUAL)
11:30	Sarah Millholland	Massachusetts Institute of Technology	Spin Dynamics of Planets in Resonant Chains: An Abundance of High Obliquities

402 - Planetary Ring Dynamics
Chair: Jackson Barnes
Slack Chair: Dahlia Baker
11:45 – 12:30

11:45	Philip Nicholson	Cornell University	Normal modes at the outer edge of Saturn's B ring.
12:00	Matthew Hedman	University of Idaho	Resonantly-generated brightness variations in the Uranian rings seen in Voyager 2 images

12:15	Mia Mace	SETI Institute	Investigating the effects of stochastic charging on the orbital dynamics and precipitation of nanodust in Saturn's rings

Lunch
12:30 –2:00

403 - Planetary Origins Dynamics 2: Protoplanetary Disks
Chair: Malena Rice
Slack Chair: Sergio Best
2:00 – 3:30

2:00	Jiaru Li	Cornell University	Resonant Excitation of Planetary Eccentricity due to a Dispersing Eccentric Protoplanetary Disk: a New Mechanism of Generating Large Planetary Eccentricities
2:15	Fernanda Correa Horta	The University of Chicago	Influence of Protoplanetary Disks and Orbital Resonances on the Formation of Super Earths via Giant Impacts
2:30	David Minton	Purdue University	Modeling collisional fragmentation with *Fraggle*, a high fidelity fragment generation model developed for the *Swiftest* n-body project.
2:45	Carlisle Wishard	Purdue University	Collisional Fragmentation During Terrestrial Planet Accretion from a Narrow Annulus
3:00	Thomas Steiman-Cameron	Indiana University	Transport in Gravitationally Unstable Protoplanetary Disks: Slings, Swings, and Rings
3:15	Cristobal Petrovich	Pontificia Universidad Catolica de Chile	A long resonant chain shaping the disk around HD

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Poster Pops
Each poster presenter will be given 1 minute to advertise their poster.
Any posters that were not presented in the Tuesday "pops" may be presented at this time.
3:30 – 3:50

Poster Session
All posters featured. See poster titles below.
3:30 – 5:00

404 - DDA Business Meeting
All DDA Meeting attendees are welcome and encouraged to attend!
Only DDA members will be able to vote. DDA officers will give reports, and future meetings and activities of the AAS Division on Dynamical Astronomy (DDA) will be discussed.
5:00 – 6:30

End of Sessions for the Day
6:30

Friday, May 12th

Coffee and Gathering
8:20 – 8:55

Introduction and Announcements
Matt Tiscareno, Seth Jacobson, Dan Tamayo
SOC, LOC and DDA Chairs
8:55 – 9:00

500 - Special Session: Binary Asteroids after DART 1
Chair: Matija Cuk
Slack Chair: Tajudeen Oluwafemi Amuda
9:00 – 10:15

9:00	Alex Meyer	University of Colorado, Boulder	Leveraging Observations to Model the Dynamics of the Didymos System After the DART Impact (Invited)
9:25	Yun Zhang	Department of Aerospace Engineering, University of Maryland, College Park	Rubble-pile structural and dynamical evolution under YORP and the pathway to a binary system (Invited)
9:50	Harrison Agrusa	Université Côte d'Azur, Observatoire de la Côte d'Azur, CNRS, Laboratoire Lagrange	The post-impact rotation state of Dimorphos due to the DART Impact (Invited)

Coffee Break
10:15 – 10:25

501 - Special Session: Binary Asteroids after DART 2
Chair: Harrison Agrusa
Slack Chair: Yun Zhang

10:25 – 11:10

10:25	Matija Cuk	SETI Institute	BYORP Effect on True Rubble Pile Secondaries
10:40	Daniel Scheeres	University of Colorado, Boulder	The Dynamical Evolution of Dimorphos's Ejecta from the DART Impact Revealed by the Hubble Space Telescope
10:55	Rachel Cueva	University of Colorado Boulder	Orbit-Attitude Coupled Tidal-BYORP Evolution of Didymos After DART

Lunch
11:10 – 12:40

502 - Galaxy Dynamics 3: Milky Way and Friends
Chair: Monica Valluri
Slack Chair: Sandeep Kataria
12:40 – 1:40

12:40	Ting Li	University of Toronto	Impact of LMC and Sagittarius dwarf on Milky Way's satellites and their tidal streams (VIRTUAL)
12:55	Arpit Arora	University of Pennsylvania	Subhalos-stream interaction in the presence of massive satellites
1:10	Hayden Foote	University of Arizona	The Large Magellanic Cloud's Dynamical Friction Wake in Cold vs. Fuzzy Dark Matter
1:25	Eric Bell	University of Michigan	Uncertainties associated with the backward integration of dwarf satellites using simple parametric potentials

Coffee Break
1:40 – 2:00

503 - Planetary Satellite Dynamics 2
Chair: Maryame El Moutamid
Slack Chair: Emily Elizondo
2:00 – 2:45

2:00	Jose Castro	University of	The Dynamical

		Arizona	Fate of Lunar Ejecta and the Possible Origin of Earth's Quasi-satellite Kamo'oalewa (VIRTUAL)
2:15	Marina Brozovic	Jet Propulsion Laboratory/California Institute of Technology	Revisiting orbit fits for the Eris-Dysnomia system
2:30	Benjamin Proudfoot	Brigham Young University	Unraveling the complex dynamics of Haumea's satellites

Concluding Remarks
Chair: Dan Tamayo
2:45 – 2:50

Ice Cream Social
2:50
End of Meeting
2:50

Poster Presentations

Available all week

203 - Asteroid and Comet Dynamics Posters
Poster Pops on Thursday 5/11 at 3:30
Slack Chair: Aswin Sekhar

Severance Graham	University of Arizona	The destabilization of Neptune's distant mean motion resonances by Uranus (VIRTUAL)
Dallin Spencer	Brigham Young University	SBDynT: Characterizing the Solar System Small Bodies by Proper Elements and Chaos (VIRTUAL)
Rosemary Dorsey	University of Canterbury (New Zealand)	OSSOS: XXVI. Population Estimates for Theoretically Stable Centaurs Between Uranus and Neptune (VIRTUAL)

204 - Dynamical Theory and Tools Posters
Poster Pops on Thursday 5/11 at 3:30
Slack Chair: Darin Ragozzine

Tajudeen Oluwafemi Amuda	Air Force Institute of Technology	Investigating Motion around equilibrium points in the restricted three-body problem under effects of radiation forces and circumbinary disc
Thomas Y. Chen	Columbia University	Data Science in Dynamical Astronomy Education (WITHDRAWN)
David Dunham	KinetX Aerospace, Inc.	Fifty Years of Halo Orbits (VIRTUAL)

205 - Exoplanet Dynamics Posters
Poster Pops on Tuesday 5/9 at 3:30
Slack Chair: Rogerio Deienno

Kyriaki I. Antoniadou	Aristotle University of Thessaloniki	Dynamical constraints on the three-planet system Kepler-51 (VIRTUAL)
Miguel Angel Martinez	Northwestern University	Test Particle Stability and the Eccentricity of Multiplanet Systems
Yubo Su	Princeton University	Spin Dynamics in Compact Multiplanetary Systems: Towards Understanding Resonance Overlap and Chaos
Erica Thygesen	Michigan State University	Title: The K2 & TESS Synergy: Combining NASA's Planet Hunters (WITHDRAWN)
Sanskriti Verma	Michigan State University	Investigating the properties planetesimal systems with multiple members formed from gravitational collapse
Xianyu Wang	Indiana University	3D configuration of a compact multi-giant system lying at the stability boundary
Drew Weisserman	University of Michigan	Kepler-80 Revisited: Assessing the Participation of a

Kyle Hixenbaugh	Indiana University	Newly Discovered Planet in the Resonant Chain Unraveling the Origins of Spin-Orbit Misalignments: Evidence for Planet-Planet Dynamical Interactions (WITHDRAWN)
Jack Schulte	Michigan State University	The Migration and Evolution of Eccentric Planets (MEEP) Survey

206 - Galaxy Dynamics Posters
Poster Pops on Tuesday 5/9 at 3:30
Slack Chair: Sandeep Kataria

Eric Bell	University of Michigan	The infall of dwarf satellite galaxies are influenced by their host's massive accretions
Scott Lucchini	University of Wisconsin - Madison	Moving groups across the Galactic disk with Gaia DR3 (WITHDRAWN)
Zhijie (Jay) Xu	Pacific Northwest National Laboratory	Universal scaling laws and density slopes for dark matter halos
Zhijie (Jay) Xu	Pacific Northwest National Laboratory	Energy cascade for distribution and evolution of supermassive black holes and host galaxies
Rachel Lee McClure	University of Wisconsin -- Madison	Galactic Bar Resonances and the Vertical BPX Stellar Orbits in an N-Body Simulation (WITHDRAWN)
Peter Craig	Rochester Institute of Technology	Building HI Maps Without Using Kinematic Distances (WITHDRAWN)

207 - Planetary Origins Dynamics Posters
Poster Pops on Thursday 5/11 at 3:30
Slack Chair: Sergio Best

Hanna Adamski	Yale University	The Signature of Planet Nine in Earth's Orbital Elements
Sanskruti Admane	Ohio State	Quantifying Debris

	University	Production in Imperfect Merger Planetary Formation Models
Jackson Barnes	Michigan State University	Planetesimal Formation by Gravitational Collapse with the Perfect-SSDEM Hybrid Collisional Method
Lucas Brefka	Pennsylvania State University	Exploring Orbital Properties Through Assumptions of Pebble Accretion Isolation Masses
Ryan Copeland	Michigan State University	Imperfect Accretion in a GPU-enhanced N-Body Simulator
Emily Elizondo	Michigan State University	Debris of Giant Impacts
Luka Ludden	University of Minnesota	Empirically establishing relationships between properties of gravitationally collapsing pebble clouds and formed planetesimal systems
Bernard Monteiro de Barros Leal	Michigan State University	Understanding the formation of terrestrial planets (VIRTUAL)
Gabriel Nathan	Michigan State University	Preliminary constraints on Solar System formation scenarios via models of isotopic fractionation during terrestrial core formation
Collin Dobson	Michigan State University	Can a planet lose a moon? (VIRTUAL)
Brenna Chetan	Michigan State University	Coupling SPH Giant Impact Models with a Modified SyMBA code to simulate Lunar Formation
Phoebe Sandhaus	Pennsylvania State University	Simulating the Effects of Outer Giant Planets on Inner Super-Earths with In Situ Formation Models

208 - Stellar Dynamics Posters
Poster Pops on Tuesday 5/9 at 3:30

Tomás Cabrera	Carnegie Mellon University	Runaway and Hypervelocity Stars from Strong Encounters with Compact Objects in Globular Clusters (WITHDRAWN)

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Links
[1] https://submissions.mirasmart.com/DDA54/Itinerary/EventsAAG.aspx
[2] https://aas.org/sites/default/files/2023-04/Astronomy_on_tap_050823.jpg