# 2022 53rd Annual DDA Meeting Schedule

# 2022 53rd Annual Meeting of the DDA

## Flatiron Institute, Manhattan NY

## Oral Presentations

All times are local time (EDT, UTC-4)

## Monday, April 25th

**Introduction and Announcements**
Dan Tamayo, Kathryn Johnston, Ruth Murray-Clay
SOC, LOC and DDA Chairs
8:00 - 8:10

**Disequilibrium in the Galactic Disk**
Chair: Frank van den Bosch
Slack Chair: Thomas Donlon
8:00 - 9:00

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| 8:10 | Jason Hunt | Flatiron Institute | A Milky Way in motion: Dealing with dynamical disequilibria |
| 8:20 | Uddipan Banik | Yale University | Phase-space spirals as probes of perturbed, out-of-equilibrium disk galaxies |
| 8:30 | Christopher Carr | Columbia University | Stellar Migration in the Milky Way's Disc from Encounters with the Sagittarius Dwarf Galaxy (virtual) |
| 8:40 | Lekshmi Thulasidharan | University of Wisconsin | Evidence of a vertical kinematic oscillation beyond the Radcliffe Wave |
| 8:50 | Peter Craig | Rochester Institute of Technology | Building an Acceleration Ladder with Tidal Streams and Pulsar Timing |

**Star Clusters**
Chair: Zephyr Penoyre
Slack Chair: Mor Rozner
9:00-9:30

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| 9:00 | Lu Li | Shanghai Astronomical Observatory | Modeling open clusters in the CMD: binaries, mass function, and dynamical |

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| | | | evolution (virtual) |
| 9:10 | Anna Parul | University of Alabama | Flowing at Birth: A Dynamical Investigation of the Young Pisces-Eridanus Stream |
| 9:20 | Vaclav Pavlik | Indiana University | Effects of radially anisotropic velocity distribution on the dynamics of star clusters |

**Dynamics Beyond the Main Sequence**
Chair: Mor Rozner
Slack Chair: Michelle Vick
9:30-10:00

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| 9:30 | Christopher O'Connor | Cornell University | The comet bombardment rate of solitary white dwarfs |
| 9:40 | Catriona McDonald | University of Warwick | Binary asteroid scattering around white dwarfs |
| 9:50 | Samuel Grunblatt | American Museum of Natural History, Flatiron Institute | Probing planetary architecture evolution with post-main sequence planets |

**Morning Coffee Break**
10:00 - 10:30

**Planetary Transactions of Angular Momentum**
Chair: Jiayin Dong
Slack Chair: Sarah Millholland
10:30-11:30

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| 10:30 | Juliette Becker | Caltech | Producing Moderate Stellar Obliquity through Planet Formation in Broken, Misaligned Protoplanetary Disks |
| 10:40 | Malena Rice | Yale University | Origins of Hot and Warm Jupiters from the Stellar Obliquity Distribution (2020 Duncombe) |
| 10:50 | Andrew Langford | Notre Dame University | A Dynamical Systems Theory Approach to Circumbinary Orbital Dynamics (virtual) |
| 11:00 | Chen Chen | Georgia Institute of Technology | Mutual Inclination of |

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| | | | Ultra-Short-Period Planets with Time Varying Stellar J2-moment (virtual) |
| 11:10 | Nathaniel Moore | Georgia Institute of Technology | Formation History of HD106906 and the Vertical Warping of Debris Disks by an External Inclined Planetary Companion |
| 11:20 | Laetitia Rodet | Cornell University | The impact of stellar clustering on the observed multiplicity of super-Earth systems: outside-in cascade of orbital misalignments initiated by stellar flybys |
| 11:30 | Santiago Torres | University of California, Los Angeles | Raining Rocks: Collision, capture and ejection rates of comets in planetary systems |

**Tides**
Chair: Matija Cuk
Slack Chair: Kat Volk
11:40-12:00

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| 11:40 | Robert Jacobson | Jet Propulsion Laboratory | Tidal Dissipation in the Saturnian System |
| 11:50 | Janosz Dewberry | Caltech, Canadian Institute for Theoretical Astrophysics | Dynamical Tidal Love Numbers of Rapidly Rotating Planets and Stars |

**Binary Stars**
Chair: Maddie Lucey
Slack Chair: Laetitia Rodet
1:00-1:30

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| 1:00 | Zephyr Penoyre | Columbia University | The Astrometric Contribution of Unresolved Stellar Companions in Gaia |
| 1:10 | Hsiang-Chih Hwang | Institute for Advanced Study | Eccentricity of wide binary stars |
| 1:20 | Chris Hamilton | Institute for Advanced Study | The eccentricity distribution of wide binaries in the Galaxy |

**Advances in Theory and Numerics for Galactic Dynamics**
Chair: Robyn Sanderson

Slack Chair: Farnik Nikakhtar
1:30-2:20

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| 1:30 | Tomer Yavetz | Columbia University | Observing Fundamental Dynamics in the Milky Way: Stream Morphologies, Separatrices, and Dark Matter Potentials |
| 1:40 | Frank van den Bosch | Yale University | Dynamical Friction, Core Stalling & Dynamical Buoyancy |
| 1:50 | Martin Weinberg | University of Massachussetts, Amherst | A new instability in dark-matter halos |
| 2:00 | Alexander Johnson | Columbia University | Coupling Basis Function Expansion with Multi-Channel Singular Spectrum Analysis: a Powerful Toolkit for Dynamical Systems. |
| 2:10 | Leandro Beraldo e Silva | University of Michigan | Collisionless gravitational systems: discrete or not discrete? - That's the question |

**Poster pops**
Chair: Dan Tamayo
2:20 - 2:30

**Afternoon Coffee Break**
2:30 - 3:00

**Special Session: Modern Theories of Planetesimal Formation**
Chair: Seth Jacobson
Slack Chair: Matthew Hedman
3:00-4:30

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| 3:00 | Rixin Li | Cornell University | Thresholds for Planetesimal Formation by the Streaming Instability |
| 3:12 | Chao-Chin Yang | University of Nevada, Las Vegas | The Streaming Instability with Multiple Dust Species in Protoplanetary Disks |
| 3:24 | Jacob Simon | Iowa State | The Formation of |

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| | | University | Planetesimals by the Streaming Instability |
| 3:36 | Wesley Fraser | Herzberg Institute of Astrophysics | Pebble Cloud Collapse, a Revolution in Planetesimal Formation (virtual) |
| 3:48 | Michele Bannister | University of Canterbury | Interstellar planetesimals as diagnostics of galactic star-formation history (virtual) |
| 4:00 | Jackson Barnes | Michigan State University | The Role of Particle Contact Physics in Planetesimal Formation |
| 4:10 | Cristiano Longarini | Università Degli Studi di Milano | The dynamical role of drag force in gravitational instability: a path to form planetary cores in young protostellar discs |
| 4:20 | Natascha Manger | Flatiron Institute | Suppression of collision velocities in particle-laden protoplanetary disk turbulence |

**DDA Initiatives Recap and Discussion**
Juliette Becker & Dan Tamayo
4:30 - 5:00

**Welcome Reception**
5:00-6:00

## Tuesday, April 26th

**Introduction and Announcements**
Dan Tamayo, Kathryn Johnston, Ruth Murray-Clay
SOC, LOC and DDA Chairs
8:00 - 8:10

**Binary Asteroids and Radiation Forces**
Chair: Rogerio Deienno
Slack Chair: Rixin Li
8:10 - 9:00

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| 8:10 | Jorge Perez-Hernandez | Telespazio Germany GmbH | Non-zero Yarkovsky acceleration for near-Earth asteroid (99942) Apophis (2020 Duncombe) |
| 8:20 | Matija Cuk | SETI Institute | Near-Critical Rotation of Binary Asteroid Primaries |

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| 8:30 | Alex Meyer | University of Colorado, Boulder | Modeling the Chaotic Dynamics of Binary Asteroid 1991 VH |
| 8:40 | Ryota Nakano | Auburn University | A new binary-YORP effect model combining full two rigid body dynamics and three-dimensional thermal evolution |
| 8:50 | Harrison Agrusa | University of Maryland | Predictions for the Dynamical State of the Didymos Binary System Before and After the DART Impact |

**Cosmological footprints in Local Group dynamics**
Chair: Farnik Nikakhtar
Slack Chair: Juan Guerra
9:00 - 10:00

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| 9:00 | Scott Lucchini | University of Wisconsin | The Magellanic Stream at 20 kpc: A New Orbital History for the Magellanic Clouds (2022 Duncombe) |
| 9:10 | Katie Chamberlain | University of Arizona | Implications of the travel velocity of the Milky Way on Local Group mass estimates from the Timing Argument |
| 9:20 | Jay Baptista | Yale University | Orientations of Dark Matter Haloes in CDM and SIDM Latte Galaxies (virtual) |
| 9:30 | Zhaozhou Li | Hebrew University of Jerusalem | Modeling the Response of Dark Matter Halos to Gas Ejection (virtual) |
| 9:40 | Andreia Jessica Carrillo | Durham University | Can we really pick and choose? Benchmarking various selections of accreted halo stars in observations with simulations (virtual) |
| 9:50 | Elise Darragh-Ford | Stanford University | Understanding the Impact of Formation History on the Dynamical Distribution of Substructure using |

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| | | | the "Milky Way"est Simulation Suite |

**Morning Coffee Break**
10:00 - 10:30

**Dynamics Beyond Neptune**
Chair: William Oldroyd
Slack Chair: Sam Hadden
10:30 - 12:00

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| 10:30 | Konstantin Batygin | Caltech | The Stability Boundary of the Distant Scattered Disk |
| 10:40 | Matthew Belyakov | Caltech | The Stability Boundary of the Scattered Disk: Octupole and Beyond |
| 10:50 | Brett Gladman | University of British Columbia | Secular free inclinations in the main Kuiper Belt (virtual) |
| 11:00 | Samantha Lawler | University of Regina | The Populations of Plutinos and Other Resonant TNOs in the Distant Solar System (virtual) |
| 11:10 | Kathryn Volk | University of Arizona | Close enough? How variations in the giant planets & final orbits in migration simulations affect predicted resonant transneptunian populations |
| 11:20 | Arcelia Hermosillo Ruiz | University of California, Santa Cruz | Constraints on Migration Scenarios of Neptune Due to Stochasticity (2021 Duncombe) |
| 11:30 | Alexander Zderic | University of Colorado, Boulder | Spontaneous Symmetry Breaking in the Primordial Scattered Disk |
| 11:40 | Arnav Das | Caltech | On the secular dynamics of putative astrophysical disk in the outer solar system (virtual) |
| 11:50 | Yukun Huang | University of British Columbia | A Rogue Planet Populated the Distant Kuiper Belt (virtual) |

**Lunch Break**
12:00 - 1:00

**Mapping and modeling the Milky Way's tidal streams**
Chair: Elena D'Onghia
Slack Chair: Farnik Nikakhtar
1:00 - 2:00

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| 1:00 | Shifra Mandel | Columbia University | Unlocking the History of Galaxy Mergers Through the Automated Analysis of Tidal Debris Substructures |
| 1:10 | Khyati Malhan | MPIA, Heidelberg | The Global Dynamical Atlas of the Milky Way mergers: Processing the ESA/Gaia dataset using state-of-the-art algorithms (virtual) |
| 1:20 | Thomas Donlon | Rensselaer Polytechnic Institute | Identifying the Multiple Radial Mergers in the Local Stellar Halo with Chemodynamics |
| 1:30 | Nora Shipp | Massachusetts Institute of Technology | Too Big to Fail? 6D Stellar Streams in the Milky Way and Cosmological Simulations |
| 1:40 | Jacob Nibauer | Princeton University | Charting the Galactic Acceleration Field with Stellar Streams -- A Flexible Model Independent Approach |
| 1:50 | Nondh Panithanpaisal | University of Pennsylvania | Using Tidal Streams To Constrain Halo Minor Axis |

**Near-Earth Objects: From Asteroids to Meteoroids**
Chair: Harrison Agrusa
Slack Chair: Matija Cuk
2:00-3:00

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| 2:00 | Althea Moorhead | NASA Marshall Space Flight Center | Modeling the meteoroid environment far from the ecliptic plane (virtual) |

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| 2:10 | Matthew Tiscareno | SETI Institute | The effects of comet ejection characteristics on meteoroid stream cross-section profiles |
| 2:20 | Oscar Fuentes Muñoz | University of Colorado, Boulder | Obliquity evolution of NEOs due to planetary flybys and YORP (virtual) |
| 2:30 | Jose Castro | University of Arizona | Earth's Quasi-satellite Kamo'oalewa's Possible Origin as Lunar Ejecta (virtual) |
| 2:40 | Travis Yeager | Lawrence Livermore National Laboratory | Early results from the MEGASIM: Multitudinous Earth Greek (not Trojan) Asteroid SIMulation (virtual) |
| 2:50 | Daniel Scheeres | University of Colorado, Boulder | Limits on Energy and Angular Momentum in the Full N-Body Problem (virtual) |

**Afternoon Coffee Break**
3:00 - 3:30

**Rubin Prize Talk**
**Ann-Marie Madigan**
Chair: Dan Tamayo
Slack Chair: Juliette Becker
3:30-4:15

**Brouwer Prize Talk**
**Amina Helmi**
Chair: Ruth Murray-Clay
Slack Chair: Kathryn Volk
4:15-5:00

**Mentoring Event**
Juliette Becker
5:00 - 6:00

## Wednesday, April 27th

**Introduction and Announcements**
Dan Tamayo, Kathryn Johnston, Ruth Murray-Clay
SOC, LOC and DDA Chairs
8:00 - 8:10

**Special Session: Compact Object Binaries I: AGN Disk Environments**
Chair: Sanaea Rose
Slack Chair: Yubo Su
8:10-9:10

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| 8:10 | Yihan Wang | Stony Brook | Symmetry |

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| | | University | breaking in dynamical encounters in the disks of active galactic nuclei |
| 8:20 | Jiaru Li | Cornell University | Long-term Evolution of Tightly-Packed Stellar Black Holes in AGN Disks: Formation of Merging Black-Hole Binaries via Close Encounters |
| 8:30 | Hareesh Gautham Bhaskar | Georgia Institute of Technology | Blackhole mergers through evection Resonances |
| 8:40 | Gongjie Li | Georgia Institute of Technology | Spin Variations of Black Hole Binaries in AGN Disks |
| 8:50 | Gaia Fabj | University of Heidelberg | Star-Disk Interactions in Active Galactic Nuclei (virtual) |

**Poster Pops**
Chair: Sanaea Rose
9:00-9:10

**Special Session: Compact Object Binaries II: Cluster Environments**
Chair: Gongjie Li
Slack Chair: Samuel Grunblatt
9:10-10:00

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| 9:10 | Xian Chen | Peking University | Distortion of Gravitational Wave Signals by Astrophysical Environments (virtual) |
| 9:20 | Sanaea Rose | University of California, Los Angeles | Collisions in a Galactic Nucleus: Implications for Compact Object Formation and Gravitational Wave Sources |
| 9:30 | Mor Rozner | Technion | Binary evolution, gravitational-wave mergers and explosive transients in multi ple-populations gas-enriched globular-clusters (2022 Duncombe) |
| 9:40 | Stefano Torniamenti | University of Padova | Formation channels of binary black hole mergers in young star |

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| | | | clusters (virtual) |
| 9:50 | Johan Samsing | Niels Bohr Institute | Distinguishing Dynamical Formation Channels Apart Using Burst Timing |

**Morning Coffee Break**
10:00 - 10:30

**Dynamical Interactions in Multi-Planet Systems**
Chair: Laetitia Rodet
Slack Chair: Christopher O'Connor
10:30 - 11:30

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| 10:30 | Sarah Millholland | Princeton University | Edge-of-the-Multis: Evidence for Truncation of the Outer Architectures of Compact Multiple-Planet Systems |
| 10:40 | Thea Faridani | University of California, Los Angeles | Stable or Not: Constraining the Stability of Hidden Super-Short Period Planets (virtual) |
| 10:50 | Spencer Wallace | University of Washington | An In-Situ Formation Model for Systems of Tightly-Packed Inner Planets (virtual) |
| 11:00 | Ryleigh Davis | Caltech | Rapid Dynamical Chaos in a Short Period Multi-planet System |
| 11:10 | Yubo Su | Cornell University | Dynamics of Colombo's Top: Non-Trivial Oblique Spin Equilibria of Super-Earths in Multi-planetary Systems (2020 Duncombe) |
| 11:20 | Jiayin Dong | Pennsylvania State University | Two Case Studies of Warm Jupiters Suggesting Different Origins (2021 Duncombe) |

**History of the Early Solar System**
Chair: Konstantin Batygin
Slack Chair: Gongjie Li
11:30 - 12:00

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| 11:30 | Matthew Clement | Carnegie Institute of Washington | Mercury and the inner solar system sculpted by Earth |

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| | | | and Venus' outward migration |
| 11:40 | Rogerio Deienno | Southwest Research Institute | Effects of Jupiter large scale gas-driven migration on the inner solar system |
| 11:50 | Seth Jacobson | Michigan State University | Venus: What does it mean to have no moon |

**Lunch Break**
12:00 - 1:00

**Special Session: Astro 2020 Decadal, State of the Profession**
Kathryn Johnston, Kathryn Daniel, Gurtina Besla
Slack Chair: Ryleigh Fitzpatrick
1:00-2:30

**Afternoon Coffee Break**
2:30-3:00

**Public Program**
**American Museum of Natural History Planetarium**
Jackie Faherty
4:00-5:30

## Thursday, April 28th

**Introduction and Announcements**
Dan Tamayo, Kathryn Johnston, Ruth Murray-Clay
SOC, LOC and DDA Chairs
8:00 - 8:10

**Galactic Bars**
Chair: Jason Hunt
Slack Chair: Zephyr Penoyre
8:10 - 9:00

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| 8:10 | Maddie Lucey | University of Texas | Constraining the length and pattern speed of the Milky Way bar from direct orbit integration (2022 Duncombe) |
| 8:20 | Sioree Ansar | Indian Institute of Astrophysics, Bangalore, Flatiron Institute | Bar Formation and Destruction in the FIRE2 Simulations (virtual) |
| 8:30 | Binod Bhattarai | University of California, Merced | Resonance Sweeping in Barred Galaxy Simulations |
| 8:40 | Shashank Dattathri | University of Michigan | Deprojection and dynamical modeling of barred galaxies |
| 8:50 | Elena D'Onghia | University of | Are dark gaps in |

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| | | Wisconsin | barred galaxies a signature of bar corotation? |

**Numerics and Methods for Planetary Dynamics**
Chair: Michelle Vick
Slack Chair: Joseph A'Hearn
9:00 - 10:00

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| 9:00 | Stanley Dermott | University of Florida | A new method of searching for ghost families in the asteroid belt |
| 9:10 | Mohamad Ali-Dib | New York University, Abu-Dhabi | A machine-generated catalogue of Charon's craters and implications for the Kuiper belt (virtual) |
| 9:20 | William Oldroyd | Northern Arizona University | A Statistical Approach to Optimizing Orbit Constraints for Directly Imaged Exoplanets |
| 9:30 | David Hernandez | Harvard-Smithsonian Center for Astrophysics | Stepsize errors in the N-body problem: discerning Mercury's true possible long-term orbits |
| 9:40 | Samuel Hadden | Canadian Institute for Theoretical Astrophysics | Celestial mechanics with the celmech code |
| 9:50 | Daniel Tamayo | Princeton University | Celmech II: A universal integrable model for mean motion resonances in closely packed systems |

**Morning Coffee Break**
10:00 - 10:30

**Planetary Rings**
Chair: Maryame El Moutamid
Slack Chair: Rogerio Deienno
10:30 - 11:00

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| 10:30 | Matthew Hedman | University of Idaho | Using disk structures as historical records: A case study involving Saturn's rings. |
| 10:40 | Joseph A'Hearn | University of Idaho | Ring Seismology of the Ice Giants |

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| | | | Uranus and Neptune |
| 10:50 | Daniel Sega | University of Colorado, Boulder | The motion of satellite self-gravity wakes under the effects of tidal forces and shear: a case study of the Rings of Saturn. |

**Members' Meeting**
Ruth Murray-Clay
Slack Chair: Sarah Millholland
11:00 - 12:00

**Lunch Break**
12:00 - 1:00

**Resonant Dynamics and Consequences, Plus Disks!**
Chair: Samuel Hadden
Slack Chair: Jiayin Dong
1:00 - 2:00

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| 1:00 | Max Goldberg | Caltech | Architectures of Compact Super-Earth Systems Shaped by Instabilities (2021 Duncombe) |
| 1:10 | Nader Haghighipour | University of Hawaii | Diversity of resonances in multi-planet resonant chains is a natural outcome of planet formation (virtual) |
| 1:20 | Jordan Laune | Cornell University | Apsidal Architecture of Planetary Systems in Mean Motion Resonance |
| 1:30 | Roberto Tejada Arevalo | Princeton University | Stability Constrained Characterization of the 23 Myr-old V1298 Tau System: Do Young Planets Form in Mean Motion Resonance Chains? (2022 Duncombe) |
| 1:40 | Maryame El Moutamid | Cornell University | Three-Body Resonances in the Saturnian System |
| 1:50 | Marguerite Epstein-Martin | Columbia University | Generating stellar obliquities in systems with broken |

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| | | | protoplanetary disks (virtual) |
| 2:00 | Michelle Vick | Northwestern University | Modeling the Irradiation Instability of Protoplanetary Disks |

**Dynamics near supermassive black holes**
Chair: Ann-Marie Madigan
Slack Chair: Janosz Dewberry
2:10 - 2:50

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| 2:10 | Aleksey Generozov | Technion | Forming Young and Hypervelocity Stars in the Galactic Centre via Tidal Disruption of a Molecular Cloud |
| 2:20 | Denyz Melchor | University of California, Los Angeles | Repeated tidal disruption events in supermassive black hole binaries |
| 2:30 | Makana Silva | The Ohio State University | Dynamical perturbations around an extreme mass ratio inspiral near resonance (virtual) |
| 2:40 | Tatsuya Akiba | University of Colorado, Boulder | The Beginning of an END (2021 Duncombe) |

**Analysis of equilibrium collisionless systems: power and peril**
Chair: Chris Hamilton
Slack Chair: Natascha Manger
2:50 - 3:40

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| 2:50 | Farnik Nikakhtar | University of Pennsylvania | Probing the Galactic Potential Using Optimal Transport Theory |
| 3:00 | Micah Oeur | University of California, Merced | Orbital Torus Imaging on FIRE |
| 3:10 | Alexander Riley | Texas A&M University | Velocity dipoles in the halos of FIRE simulated galaxies |
| 3:20 | Kaustav Mitra | Yale University | Dynamical modelling of satellite galaxies to infer galaxy-halo connection and cosmology |
| 3:30 | Juan Guerra | Yale University | Jeans modeling of Simulated Dwarf Satellites Around a Milky Way like Galaxy |

**Concluding Remarks**
Chair: Ruth Murray-Clay

3:40-3:50

**End of Meeting**
**3:50**

## Poster Presentations

### Available all week

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| 1 | Yubo Su | Cornell University | Diminished Generation of Stellar Obliquities: The Angular Momentum Budget During Resonance Crossing |
| 2 | Matthias He | Pennsylvania State University | Debiasing the Minimum-Mass Extrasolar Nebula: Planet Multiplicity and the Diversity of Solid Density Profiles |
| 3 | Sachi Weerasooriya | Texas Christian University | Dancing Streams in Merging Halos: Effects of Major Mergers on Stellar Streams |
| 4 | Rixin Li | Cornell University | Hydrodynamical Evolution of Black-Hole Binaries Embedded in AGN Disks |
| 5 | Carrie Filion | Johns Hopkins University | Local Group Dynamics with the Subaru Prime Focus Spectrograph |
| 6 | Laetitia Rodet | Cornell University | On the Correlation between Hot Jupiters and Stellar Clustering: High-eccentricity Migration Induced by Stellar Flybys |
| 7 | Vaclav Pavlik | Indiana University | Environmental Effects on the Dynamical Evolution of Star Clusters in Turbulent Molecular Clouds |
| 8 | Hayden Foote | University of Arizona | Making Observational Predictions for the LMC's Dynamical Friction Wake |
| 9 | Jorge Perez-Hernandez | Telespazio Germany GmbH | LSIM: a cloud-based tool for lunar mission analysis and design |
| 10 | Arpit Arora | University of Pennsylvania | Subhalos-stream interaction in the presence of massive satellites. |
| 11 | Alex Meyer | University of Colorado, Boulder | Janus: A NASA SIMPLEx mission to explore two NEO Binary Asteroids |

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| 12 | Jordan Laune | Cornell University | Differential Apsidal Precession in Mean Motion Resonant Planetary Systems |
| 13 | Christian Aganza | University of California San Diego | Probing Gaps in Globular Cluster Streams in External Galaxies with the Nancy Grace Roman Telescope |

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