2021 Virtual DDA Meeting Schedule

2021 Virtual 52nd Annual Meeting of the DDA

Q&A/Discussion Webinar Schedule

See the main meeting website for registration information: https://aas.org/meetings/dda52 [1]

The abstracts are available via NASA/ADS [2] and in a Google Doc here: DDA-52-Abstract-Book [3]

Many of the pre-recorded presentations and PDF posters are now linked below for public viewing! (All presentations are available for viewing on the registrant-only DDA meeting website [4].)

All times below are EDT (UTC-4)

Monday, May 17			
11:30-12:00 EDT		virtual coffee/socializing	
12:00-12:05 EDT		Ruth Murray-Clay (SOC Chair, DDA Vice-Chair)	Welcome/Announceme
12:05-12:30 EDT		Evolution and Migrati Systems: Hot and Wa 100)	on in Exoplanet
		Chair: Sarah Millholland	
	Rebekah Dawson	Pennsylvania State University	Precise Characterization of a 2:1 Resonant Pair: The Warm Jupiter TOI-216c and Eccentric Warm Neptune TOI-216b link to recording [5]
	Jonathan Jackson	Pennsylvania State University	Observable Predictions from Perturber-coupled High-eccentricity Migration of Warm Jupiters link to recording [6]
	Mor Rozner	Technion – Israel Institute of Technology	Origin Of Hot & Warm Jupiters From Enhanced High Eccentricity Migration link to recording [7]
	Malena Rice	Yale University	Revisiting the Dynamics of the HD 80606 Planetary System

	Kassandra Anderson	Princeton University	On a Possible Solution to the Tidal Realignment Problem for Hot Jupiters <u>link to</u> recording [8]
12:30-12:50 EDT		Evolution and Migrati Systems: Sub-Neptun (Session 101)	<u>-</u>
		Chair: Rebekah Dawson	
	Sam Hadden	Harvard-Smithsonian Center for Astrophysics	Inferring Migration Histories of Resonant Planets
	Mariah MacDonald	Pennsylvania State University	Constraining the formation of super-Earths via resonances link to recording [9]
	Juliette Becker	Caltech	Forming Ultra-Short-Period Planets Via Disk Migration in a Sub-Keplerian Disk link to recording [10]
	Isabel Angelo	University of California, Los Angeles	
13:00-14:30 EDT		Plenary Session (Sess	
		Invited Seminar	
		Chair: Smadar Naoz	
14:30-15:00 EDT	Sherard Robbins	Visceral Change break	Power and Privilege
15:00-15:30 EDT		Advances in Simulation	ons of Exonlanet
13.00 13.30 LD1		Evolution (Session 10	
		Chair: Daniel Tamayo	
	Daniel Scheeres	University of Colorado, Boulder	Tracking the Minimum Energy Function of Disassociated N-Body Systems
	David Hernandez	Center for Astrophysics Harvard &	Are long term N-body simulations reliable?
	Shirui Peng	Smithsonian California Institute of Technology	Interactions Among Non-Interacting Particles in Planet Formation Simulations link to recording [12]

	Steven Kreyche Jackson Barnes	University of Idaho Michigan State	recording [13] Exploring tidal obliquity variations with SMERCURY-T PDF Poster [14] The Role of
	Ju	University	Gravitational Collapse in Planetesimal Formation
15:30-15:55 EDT		Dynamical Stability in (Session 104)	n Exoplanet Systems
		Chair: Dimitri Veras	
	Daniel Tamayo	Princeton University	On the mechanisms for instabilities in compact multiplanet systems link to recording [15]
	Daniel Jones	Brigham Young University	Constraining the Physical and Orbital Parameters of Kepler Systems using Stability Criteria
	Sacha Gavino	Niels Bohr Institute	Anomalously long-lived compact configurations in three-planet systems link to recording [16]
	Aleksandr Mylläri	St. George's University	Testing the three-body stability limit at very long time
	Samuel Yee	Princeton University	How Close are Compact Multi-Planet Systems to the Stability Limit?
	Elizabeth Ellithorpe	University of Oklahoma	Possible Origins of Planetary Spin-Orbit Misalignment in Binary Systems <u>link to</u> recording [17]
15:55-16:00 EDT 16:00-16:15 EDT		short break Dynamics of Dark Ma	tter (Session 105)
		Chair: Elena D'Onghia	
	Jorge Moreno	Pomona College	(Invited) Dark matter free galaxies in LCDM
	Sioree Ansar	Indian Institute of Astrophysics, Bangalore, Center for Computational Astrophysics, Flatiron Institute	Determining Dark Matter Halo Properties using Visible Matter Observations of galaxies: A novel technique applied to high spinning halo of UGC5288
	Hayden Foote	University of Arizona	Studying Dynamical Friction on the Large Magellanic Cloud as a Dark Matter Probe
16:15-16:40 EDT		Impacts, Collisions, a Disruptions (Session	

Chair: Matija Cuk

Konstantin Batygin California Institute of Formation of Galilean

Technology Satellites in a Decretion

Disk -- <u>link to recording</u>

[18]

Sierra Ferguson Arizona State University Examination of elliptical

craters on Saturn's moons Tethys and Dione constrain their ages and origin

Gavin Brown University of Colorado

Boulder

Loss of Energy and Angular Momentum in

Disrupting N-body Systems

Matthew Clement Carnegie Institution of

Washington

Dynamical avenues for Mercury's enigmatic origin -- link to

recording [19]

Oscar Fuentes-Munoz University of Colorado

Boulder

NEO collision and close flyby probabilities using

semi-analytical long-term propagation

-- <u>link to recording</u> [20]

16:40-17:00 EDT end of day virtual socializing

Tuesday, May 18

11:30-12:00 EDT virtual coffee/socializing

12:00-12:35 EDT **Dynamics Leading to Gravitational Waves**

(Session 200)

Chair: Rosemary Wyse

Carl Rodriguez Carnegie Mellon (Invited) Dynamical

University Formation of LIGO's

Binary Black Hole Mergers -- <u>link to</u> <u>recording</u> [21]

Spin-Orbit

Yubo Su Cornell University

Misalignments in Tertiary-Induced Black-Hole Binary Mergers: Theoretical Analysis -- <u>link to</u> recording [22]

recording [22] tern The Impact of Tidal

Michelle Vick CIERA, Northwestern

University

Dissipation on the Eccentric Onset of Common Envelope Phases -- <u>link to</u> recording [23]

recording [23]

Jniversity of Colorado (Duncombe Student

Tatsuya Akiba University of Colorado

Page 4 of 18

		Boulder	Research Prize Winner) The Beginning of an END link to
	Smadar Naoz	University of California, Los Angeles	recording [24] Gravitational Wave Sources at the Heart of Galaxies link to
	Huiyi Wang	UCLA	recording [25] Gravitational-Wave Signatures from Compact Object Binaries in the Galactic Center
12:35-12:50 EDT		Clusters (Session 201	
		Chair: Rosemary Wyse	
	Aleksey Generozov	University of Colorado	Origin of the S star cluster
	Laura Watkins	AURA for ESA, ESA Office, Space Telescope Science Institute	Energy Equipartition in
	Vaclav Pavlik	Indiana University	Star cluster evolution towards energy equipartition
12:50-13:00 EDT 13:00-14:00 EDT		short break Plenary Session (Sess	• •
		Townhall Discussion a by Sherard Robbins	about DEI Moderated
		Chair: Ruth Murray-Clay	
14:00-14:05 EDT		short break	
14:05-14:25 EDT		Special Session	
		The Dynamics of Build Community: Strategic programs more inclusion.	es to make graduate
		Chair: Kat Volk	
	Smadar Naoz	University of California, Los Angeles	DEI efforts at UCLA physics and astronomy department
	Michael Petersen	University of Edinburgh	The Royal Observatory Edinburgh Institute for Astronomy's experience building an Diversity, Equity, and Inclusion team
14:25-15:00 EDT		Evolution of Stellar M	lultiples (Session 204)
		Chair: Smadar Naoz	
	Tjarda Boekholt	University of Oxford	Gargantuan chaotic gravitational three-body

	Eliot Halley Vrijmoet	RECONS/Georgia State University	systems and their irreversibility to the Planck length Orbital Architectures of M Dwarf Systems PDF
	John Zanazzi	University of Toronto	Poster [27] Tidal Circularization of Binaries by Resonance Locking link to
	Logan Pearce	University of Arizona	recording [28] An investigation of chaotic planetary dynamics induced by the wide stellar binary companion to Boyajian's Star
	Marguerite Epstein-Martin	California Institute of Technology	Exciting Stellar Obliquities in Triple Star Systems
15:00-15:30 EDT	Silvia Toonen	University of Amsterdam break	(Invited) The evolution of stellar triples
15:30-15:55 EDT		Tides and Interiors (S	ession 205)
		Chair: Marina Brozovic	
	Matija Cuk	SETI Institute	Recent Orbital Evolution of the Inner Moons of Saturn <u>link</u> to recording [29]
	Jean-Luc Margot	University of California, Los Angeles	Measurements of the spin axis precession and length-of-day variations of Venus link to recording [30]
	Alyssa Rhoden	Southwest Research Institute	The effects of bombardment on the thermal-orbital evolution of icy satellites
	Matthew Walker	Planetary Science Institute	Tidal Heating of Ice Shells with Variable Eccentricity link to recording [31]
	Joseph A'Hearn	University of Idaho	Ice Giant Ring Seismology
15:55-16:00 EDT 16:00-16:25 EDT		short break Physical Structures of Accretion, and Impact	f Exoplanets,
		Chair: Christopher O'Cor	nnor
	Spencer Wallace	University of Washington, Seattle	Understanding Planetesimal Accretion at Short Orbital Periods
	Jiayin Dong	Penn State	link to recording [32] (Duncombe Student Research Prize

			Winner) Boundary Layer Circumplanetary Accretion: How Fast Could an Unmagnetized Planet Spin Up Through Its Disk?
	Nader Haghighipour	Planetary Science Institute	Accurate Calculations of Planetesimal-Envelope Interactions in the Core Accretion Model
	Renata Frelikh	UC Santa Cruz	Clues in the Giant Exoplanet Eccentricity Distribution Point to Planet-Planet Impacts
	Santiago Torres	UCLA	link to recording [33] Raining Rocks in Exo-Worlds
16:25-17:00 EDT		end of day virtual socia	llizing
Wednesday, May	19		
11:30-12:00 EDT		virtual coffee/socializin	_
12:00-12:45 EDT		Plenary Session (Session 300)	
		Vera Rubin Early Car	eer Prize Lecture
		Chair: Ruth Murray-Cla	У
12:45-12:50 EDT	Jacqueline Faherty	American Museum of Natural History short break	Tales in Stellar Motion
12:50-13:20 EDT		Special Session How Gaia reveals the results local to the S	-
		Chair: Robyn Sanderso	n
	Ruth Angus	AMNH & Flatiron	(Invited) Kinematic ages for cool stars link to recording [34]
	J. Davy Kirkpatrick	Caltech.IPAC	(Invited) Using Gaia Astrometry to Anchor Parallaxes for Nearby
	Raquel Martinez	University of Texas, Austin	Brown Dwarfs (Invited) Leveraging Large-Sky Surveys in the <i>Gaia</i> Era to Reveal the Nature of Wide Substellar Companions link to recording [35]
	Daniella Bardalez Gagliuffi	American Museum of Natural History	(Invited) System Architectures as Fossils of Brown Dwarf and

of Brown Dwarf and

	Thea Faridani	UCLA	Hiding Planets Near and
		Chair: Alexander Stepha	n
14:00-14:25 EDT		Population-Level Exor (Session 303)	olanet Demographics
13:55-14:00 EDT		short break	recording [42]
	Tommaso Marchetti	European Southern Observatory	Abundances to Map Orbits and Mass in the Milky Way link to recording [41] (Invited) Searching for unbound stars in Gaia EDR3 link to
	Adrian Price-Whelan	Flatiron Institute	Understanding our Milky Way through Chemodynamics (Invited) Orbital Torus Imaging: Using Element
	Keith Hawkins	University of Texas, Austin	Core of the Orion Complex link to recording [40] (Invited) Galactic Archaeology:
	Cameren Swiggum	University of Wisconsin	of our Local Interstellar Medium with <i>Gaia</i> link to recording [39] Feedback-induced Radial Expansion at the
	Catherine Zucker	Harvard University	Deep Learning link to recording [38] (Invited) Probing the Structure and Dynamics
	Aneesh Naik	University of Nottingham	The Local Acceleration Field: Insights from
		Chair: Sukanya Chakraba	
13:25-13:55 EDT		Special Session How Gaia reveals the from local to galactic	_
13:20-13:25 EDT		short break	space
	Wilma Trick	Max Planck Institute for Astrophysics	Engulfment Sites (Invited) The Galactic bar's outer Lindblad resonance (OLR) in Gaia's action-angle
	Melinda Soares-Furtado	University of Wisconsin-Madison	to recording [37] (Invited) Using Gaia to Search for Planetary
	Zephyr Penoyre	University of Cambridge	<u>link to recording</u> [36]
			Giant Planet Formation

	Emily Safsten	The Pennsylvania State University	Far: Predicting Hidden Companions for Known Planetary Systems Nature versus Nurture: Using a Bayesian framework to study correlations between planetary properties
	Phoebe Sandhaus	Pennsylvania State University	and stellar ages Simulating the Effects of Outer Giant Planets on Inner Super-Earths with In Situ Formation
	Sarah Millholland	Princeton University	Models Evidence for a Non-Dichotomous Solution to the Kepler Dichotomy link to
	Christopher Spalding	Princeton University	recording [43] Metallicity matters in the tidal damping of stellar obliquities link to recording [44]
14:25-14:30 EDT		short break	to recording [44]
14:30-14:55 EDT		Orbital Resonance in (Session 304)	Multi-Planet Systems
		Chair: Sam Hadden	
	Nora Bailey	University of Chicago	Planetary Period Ratio Sculpting Near Second-Order Mean-Motion Resonances <u>link to</u> recording [45]
	Max Goldberg	California Institute of Technology	(Duncombe Student Research Prize Winner) A Tidal Origin for a 3-body Resonance in Kepler-221
	Jack Lissauer	NASA Ames Research	Three-Body Resonances
	Darin Ragozzine	Center Brigham Young University	Among Kepler Planets Towards a Photodynamical Analysis of all Kepler Multi-Transiting Systems link to recording [46]
	Drew Weisserman	University of Michigan	A Dynamical Analysis of the Kepler-80 System of Six Transiting Planets
14:55-15:30 EDT		break	
15:30-15:55 EDT		The Hill Sphere, Troja and Resonances (Ses	ins, Horseshoe Orbits, sion 305)
		Chair: Althea Moorhead	

	Kat Volk	University of Arizona	Mapping Neptune's resonances into the distant solar system
	Conor Benson	University of Colorado	link to recording [47] Resonant Tumbling YORP for Defunct Artificial Satellites link
	Jose Castro-Cisneros	University of Arizona	to recording [48] Near-Earth Asteroid Kamo`oalewa as Lunar Ejecta
	Renu Malhotra	University of Arizona	What really goes on in the chaotic zones of the planets, from Earth to Neptune
	Travis Yeager	Lawrence Livermore National Lab	The Lifetimes of Earth Trojan Asteroids and Tadpole Orbits
15:55-16:00 EDT		short break	radpore orbits
16:00-17:00 EDT		Mentoring Event	
		Chair: Juliette Becker	
17:00-17:30 EDT		Student Discussion w Speaker	rith Rubin Prize
		Chair:	
17:00-17:30 EDT		end of day virtual social	lizing

Thursd	21	May	20
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11:30-12:15 EDT		Plenary Session (Session 400) Dirk Brouwer Career Prize Lecture	
		Chair: Kat Volk	
	Lennart Lindegren	Lund University	Models and Methods in
12:15-12:20 EDT		short break	Optical Astrometry
12:20-12:50 EDT		Special Session How Gaia Reveals the Results on the Galact (Session 401)	
		Chair: Melinda Soares-F	urtado
	Sukanya Chakrabarti	Rochester Institute of Technology	(Invited) Fundamental Galactic parameters from direct acceleration measurements link to recording [49]

	Elena D'Onghia	University of Wisconsin, Madison	(Invited) Footprints of the bar and spiral-arm resonances in the solar neighborhood from Gaia-EDR3
	Stacy McGaugh	Case Western Reserve University	The Imprint of Spiral Arms on the Galactic Rotation Curve <u>link to</u>
	Zhaozhou Li	Shanghai Jiao Tong University	recording [50] A Novel Dynamical Modeling Method Based on the Data-driven Distribution Function
	Andres del Pino Molina	Space Telescope Science Institute	Machine Learning glasses for the eyes of Gaia: The Sagittarius Dwarf Spheroidal Galaxy in 6D link to recording [51]
	Ana Bonaca	Harvard University	(Invited) Reconstruction of the dark matter distribution in the Milky Way <u>link to recording</u> [52]
13:00-13:30 EDT		Special Session How Gaia Reveals the Results on the Galact (Session 402)	e Galaxy's Secrets:
		Chair: Ana Bonaca	
	Alis Deason	Durham University	(Invited) The Galactic Halo in the Gaia Era
	Michael Petersen	University of Edinburgh	Bringing Milky Way and Large Magellanic Cloud potentials to life to explain the Milky Way halo disequilibrium
	Carrie Filion	The Johns Hopkins University	Little Galaxy, Big Envelope: Blue Stars in the Outskirts of the Boötes I Ultra Faint Dwarf Galaxy
	Rachael Beaton	Princeton University	(Invited) Gaia Parallaxes and the ExtraGalctic Distance Scale link to recording [53]
	Annie Robin	Institut Utinam	(Invited) A fully consistent dynamical model of the Milky Way facing Gaia data
13:30-14:00 EDT		break	
14:00-14:25 EDT		Galactic Streams and 403)	Structures (Session
		Chair: Alis Deason	

	Eric Mendelsohn	Rensselaer Polytechnic Institute	Estimate of the Mass and Radial Profile of the Orphan Stream's Dwarf Galaxy Progenitor Using	
	Tjitske Starkenburg	Northwestern University	end: predictions for stellar halos, streams and shells around the	
	Thomas Donlon	Rensselaer Polytechnic Institute	A Trifurcated Sagittarius Stream in the South link to	
	Arpit Arora	University of Pennsylvania	on the adiabaticity of action space clustering of tidal streams via	
	Scott Lucchini	University of Wisconsin - Madison	potential modelling The Magellanic Stream: Implications of the Magellanic Corona and new Orbital Histories of the Clouds	
14:25-14:45 EDT		Galactic Morphologies (Session 404)		
		Chair: Adrian Price-Whel	an	
	Dhanesh Krishnarao	Space Telescope Science Institute	Finding the Ultra-Harmonic Resonance from Photometry Alone	
	Nicolas Garavito-Camargo	University of Arizona	The clustering of orbital poles in the Milky Way's halo induced by the Large Magellanic Cloud	
	Katie Chamberlain	University of Arizona	<u>link to recording</u> [55] Frequency and Dynamics of Dwarf Galaxy Pairs over Cosmic Time	
14:45-14:50 EDT		short break	Cosmic Time	
14:50-15:20 EDT		Populations of Small Bodies (Session 405)		
		Chair: Joseph Spitale		
	Fred Adams	University of Michigan	Capture of Interstellar Objects by our Solar System link to	
	Stanley Dermott	University of Florida	recording [56] Dynamical evolution of the inner asteroid belt link to recording [57]	
	Debora Pavela	University of Belgrade, Faculty of Mathematics	The Karma asteroid family: membership, age and evolution	
	Althea Moorhead	NASA Marshall Space Flight Center	Fully debiased meteor radiants and speeds	

	Dan Li	NSF's NOIRLab	and their constraints on dynamical models link to recording [58] The random walk evolution of asteroid families PDF Poster
	Alex Meyer	University of Colorado Boulder	[59] Modeling Fully Coupled Dynamics of Janus Binary Asteroid Mission Targets link to recording [60]
15:20-15:45 EDT		Rings, Disks, and Mig	
		Chair: Joseph A'hearn	
	Arcelia Hermosillo Ruiz	University of California, Santa Cruz	(Duncombe Student Research Prize Winner) The Impact of Stochastic Migration on Weak Resonances in The Kuiper Belt <u>link to</u> recording [61]
	Matthew Hedman	University of Idaho	Recording history in planetary rings with density waves
	Glen Stewart	University of Colorado	Local Gravitational Instabilities Modeled as a Dynamical System
	Meredith MacGregor	University of Colorado at Boulder	(Invited) Gaps and Wings and Eccentricities - ALMA Observations Reveal the Dynamics of Nearby Debris Disks
	Daniel Sega	University of Colorado, Boulder	Interactions within Self-Gravity wakes and bending waves based on the Mimas 5:3 Bending wave link to recording [62]
15:45-16:00 EDT 16:00-17:00 EDT		break Networking Event	recording [02]
		Chair: Darin Ragozzine	
17:00-17:30 EDT		end of day virtual social	izing
Friday May 21			
Friday, May 21			

Friday,	May	21
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virtual coffee/socializing 11:30-12:00 EDT

Student Discussion with Brouwer Prize 11:30-12:00 EDT

Speaker

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12:00-12:25 EDT **KBOs and Multiples (Session 501)**

Chair: Darin Ragozzine

Alexandre Correia University of Coimbra Evolution of the

Pluto-Charon binary

under tides

UC Santa Cruz Sricharan Balaji Can the Kuiper Belt's

3:2 orbital distribution result from stability

sculpting?

Ian Matheson University of Arizona A measurement of the Kuiper Belt midplane

from AI-classified

objects

Stability and Formation **Hunter Campbell** University of Oklahoma

> of Ultra-Wide Kuiper Belt Binaries -- link to

recording [63]

Nathan Kaib University of Oklahoma Inferring the primordial

> Pluto-mass population of the Kuiper belt -- link

to recording [64]

12:25-12:30 EDT short break

12:30-12:55 EDT TNOs and Planet X (Session 502)

Chair: Matthew Clement

Kalee Anderson University of Oklahoma Effects on the

> **Inclination Distribution** of the Detached Kuiper Belt by a Distant Planet

Dallin Spencer Brigham Young Investigating

> Non-Keplerian Effects in University- Provo

> > Trans-Neptunian Multiples -- link to recording [65]

Kevin Napier University of Michigan No Evidence for Orbital

Clustering in the

Extreme

Trans-Neptunian

Objects

William Oldroyd Northern Arizona Planet X Can Cause the Outer Solar System University

Perihelion Gap -- link to

recording [66]

Mohamad Ali-Dib University of Montreal The rarity of very red

> TNOs in the scattered disk and high order

resonances

short break

DDA Members' Meeting 13:00-14:00 EDT

12:55-13:00 EDT

(open to attendees and all DDA members)

Chair: Kat Volk

14:00-14:15 EDT 14:15-14:35 EDT		break Protoplanetary Disk Physics and Young Exoplanets (Session 504)	
		Chair: Konstantin Batygi	n
	Sahl Rowther	University of Warwick	Hiding Signatures of Gravitational Instability in Protoplanetary Discs with Planets <u>link to</u> recording [67]
	Zachary Murray	Center for Astrophysics Harvard and Smithsonian	The Effects of Massive Protoplanetary Disks on Resonance Capture and Evolution
	Antranik Sefilian	University of Cambridge	Mind the gap: secular dynamics of self-gravitating debris disks <u>link to recording</u> [68]
	Kundan Kadam	University of Western Ontario	Global model of magnetic wind-driven accretion in protoplanetary disks link to recording [69]
14:35-14:50 EDT		Dynamics of Planets After the Main Sequence (Session 505)	
		Chair: Gongie Li	
	Christopher O'Connor	Cornell University	Secular chaos in white-dwarf planetary systems
	Dimitri Veras	University of Warwick	The post-main-sequence fate of the HR 8799 planetary system link to recording [70]
	Alexander Stephan	OSU	Throwing Giant Planets at White Dwarfs
14:50-15:00 EDT 15:00-16:00 EDT		Closing Remarks/Annour end of meeting virtual so	ncements

Asynchronous Poster Presentations (Session 107)

Discussion via Slack

DISCUSSION VIA STACK		
Available all week		
Sethanne Howard	USNO/retired	Some spiral galaxies dominate their halos PDF Poster [71]
Nihaal Zaveri	University of California, Santa Cruz	Pluto's Resonant Orbit Visualized in 4D <u>PDF</u> <u>Poster</u> [72]
Konstantin Batygin	California Institute of Technology	P9-Driven Mixing Between the Inner Oort

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Scattered Disk -- PDF

Poster [73]

University of Cambridge Potential softening and Antranik Sefilian

> eccentricity dynamics in nearly Keplerian disks -- PDF Poster [74]

Dimitri Veras University of Warwick Rocky debris pollution

> of single white dwarfs in systems with no

planets

Obliquities of exoplanet Rebekah Dawson Pennsylvania State

> University host stars

Jiayin Dong Penn State In Situ versus Disk

> Migration Origins of Warm Jupiters: Prediction on Nearby

Companions

Zhaozhou Li The outer edges of the Shanghai Jiao Tong

University Milky Way halo from the

motion of nearby

galaxies

Jeffrey Sudol West Chester University On the prospect of

detecting habitable trojan planets in the Kepler circumbinary planetary systems

Prolate vs Oblate: When Benjamin Proudfoot **Brigham Young**

> University Do Sectoral

> > **Gravitational Harmonics**

Matter?

Planetary Science No Resonance Capture Nader Haghighipour

> Institute is Exact

Source URL: https://dda.aas.org/meetings/2021/schedule

Links

[1] https://aas.org/meetings/dda52

[2] https://ui.adsabs.harvard.edu/search/p =0&q=bibstem%3Adda%20year%3A2021&sort =date%20desc%2C%20bibcode%20desc

[3] https://docs.google.com/document/d/1weoNJyhX15Cnr5EYEUyd7e1ZahaalfvBxC0kT1rKRSk/edit?u sp=sharing

[4] https://my.aas.org/services/DDA52

[5] https://vimeo.com/546194546

[6] https://vimeo.com/545348821

[7] https://vimeo.com/545348825

[8] https://vimeo.com/545348873

[9] https://vimeo.com/545348943

[10] https://vimeo.com/545348952

[11] https://vimeo.com/545349004

[12] https://vimeo.com/545349048

[13] https://vimeo.com/545349061

[14] https://dda.aas.org/sites/dda.aas.org/files/2021meeting/103.05%20Steven%20Kreyche%20-%20 Exploring%20tidal%20obliquity%20variations%20with%20SMERCURY-T.pdf

[15] https://vimeo.com/546230909

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[16] https://vimeo.com/545349210
[17] https://vimeo.com/545349679
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[25] https://vimeo.com/545349549
[26] https://vimeo.com/546185371
[27] https://dda.aas.org/sites/dda.aas.org/files/2021meeting/204.03%20Eliot%20Halley%20Vrijmoet
%20-%20Orbital%20Architectures%20of%20M%20Dwarf%20Systems.pdf
[28] https://vimeo.com/546205621
[29] https://vimeo.com/545349803
[30] https://vimeo.com/545349812
[31] https://vimeo.com/545349861
[32] https://vimeo.com/545349919
[33] https://vimeo.com/545349998
[34] https://vimeo.com/546194451
[35] https://vimeo.com/546205654
[36] https://vimeo.com/546687629
[37] https://vimeo.com/545350052
[38] https://vimeo.com/546194498
[39] https://vimeo.com/545350101
[40] https://vimeo.com/545350176
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[46] https://vimeo.com/545350428
[47] https://vimeo.com/545350472
[48] https://vimeo.com/545350524
[49] https://vimeo.com/545350578
[50] https://vimeo.com/545350596
[51] https://vimeo.com/545350641
[52] https://vimeo.com/551489482
[53] https://vimeo.com/546205694
[54] https://vimeo.com/545350857
[55] https://vimeo.com/546185349
[56] https://vimeo.com/545351002
[57] https://vimeo.com/545351020
[58] https://vimeo.com/545351073
[59] https://dda.aas.org/sites/dda.aas.org/files/2021meeting/405.05%20Dan%20Li%20-%20The%20r
andom%20walk%20evolution%20of%20asteroid%20families.pdf
[60] https://vimeo.com/545351089
[61] https://vimeo.com/545351126
[62] https://vimeo.com/545351192
[63] https://vimeo.com/545351841
[64] https://vimeo.com/545351852
[65] https://vimeo.com/545351910
[66] https://vimeo.com/545351933
[67] https://vimeo.com/545351968
[68] https://vimeo.com/545352073
[69] https://vimeo.com/545352116
[70] https://vimeo.com/545352159
```

[71] https://dda.aas.org/sites/dda.aas.org/files/2021meeting/107.01%20Sethanne%20Howard%20-%

20Some%20spiral%20galaxies%20dominate%20their%20halos.pdf



[72] https://dda.aas.org/sites/dda.aas.org/files/2021meeting/107.02%20Nihaal%20Zaveri%20-%20Pluto's%20Resonant%20Orbit%20Visualized%20in%204D.pdf

[73] https://dda.aas.org/sites/dda.aas.org/files/2021meeting/107.03%20Konstantin%20Batygin%20%20P9-Driven%20Mixing%20Between%20the%20Inner%20Oort%20Cloud%20and%20the%20Scatte red%20Disk.pdf

[74] https://dda.aas.org/sites/dda.aas.org/files/2021meeting/107.04%20Antranik%20Sefilian%20-%20Potential%20softening%20and%20eccentricity%20dynamics%20in%20nearly%20Keplerian%20disks.pdf