2020 Virtual DDA Meeting Schedule

2020 Virtual 51st Annual Meeting of the DDA

Q&A/Discussion Webinar Schedule

All presentations (except the plenary prize lectures) are pre-recorded and are available for viewing on the registrant-only DDA meeting website. [1]

Public links to many of the presentations are now available!

You can see all of the meeting abstracts in ADS [2], or click on the individual talk/poster titles to go to individual abstracts in ADS.

All times below are EDT (UTC-4)

Monday, August 3

10:50 AM EDT		Kat Volk, SOC and DDA chair	Introduction and announcements
11:00 AM - 11:35 AM EDT		**Special Session** **The Main Belt: A Complex Dynamical System (Session 100)** Chairs: Bojan Novakovic and Apostolos Christou	
	Renu Malhotra	Lunar and Planetary Laboratory, The University of Arizona	(Invited) Asteroid belt dynamics and statistics [3] - Link to Recording [4]
	Federica Spoto	CfA | Harvard & Smithsonian	(Invited) Asteroid families: a powerful tool to understand our Solar System [5] - Link to Recording [6]
	Mikael Granvik	University of Helsinki / Luleå University of Technology	(Invited) Source regions of meteorites and near-Earth asteroids [7] - Link to Recording [8]
	Stanley Dermott	University of Florida	A new observational constraint on the Yarkovsky-driven mobility of main belt asteroids [9] - Link to Recording [10]
	Apostolos Christou	Armagh Observatory and Planetarium	Orbital mobility of asteroids in the Inner Main Belt: A closer look at gravitational diffusion [11]
	John Noonan	Lunar and Planetary Laboratory, University of Arizona	Evaluating the Dynamical Feasibility of (3) Juno as a Parent Body of the H Chondrites [12] - Link to

			Recording [13]
11:35 AM - 12:05 PM EDT		**Planetary System Populations (Session 101)** Chairs: Darin Ragozzine	
	Fred Adams	University of Michigan	A Solution to the Peas-in-a-Pod Problem for Extrasolar Planetary Systems [14] - Link to Recording [15]
	Matthias He	The Pennsylvania State University	The Intrinsic Architectures of Planetary Systems: Correlations of AMD-Stable Systems [16] - Link to Recording [17]
	Emily Safsten	The Pennsylvania State University	Nature vs. nurture: a Bayesian framework for assessing apparent correlations between planetary orbital properties and stellar ages [18]
	Jiayin Dong	The Pennsylvania State University	Unraveling Warm, Large Exoplanet (WaLE) Origins From TESS Observations [19] - Link to Recording [20]
	Kyriaki Antoniadou	Aristotle University of Thessaloniki	Kepler and K2 systems dynamically unveiled via periodic orbits [21] (Poster)
	Srisurya Yadavalli	Georgia Institute of Technology	On the Seasonal Flux and Temperature Variations on Circumbinary Planets [22] - Link to Recording [23]
1:00 PM - 2:30 PM EDT		**Plenary Session (Session 102):** **Vera Rubin Early Career Prize Lecture** **Dirk Brouwer Prize Lecture** Chair: Kat Volk	
1:00	Jo Bovy	University of Toronto	What I have learned about the Milky Way's dynamics from Gaia so far [24]
1:45	Fred Rasio	Northwestern University	Forming Gravitational Wave Sources through Stellar Dynamics [25]
Tuesday, August 4			
9:30 AM - 10:00 AM EDT		**Stellar Kinematics in the Milky Way and Complex Stellar Clusters (Session 200)** Chair: Heidi Jo Newberg	
	Eric Mendelsohn	Rensselaer Polytechnic	N-Body Simulations

		Institute	with MilkyWay @ home [26] - Link to Recording [27]
	Nondh Panithanpaisal	University of Pennsylvania	Stellar Streams and Their Progenitors in MW-like Simulations [28] - Link to Recording [29]
	Thomas Donlon	Rensselaer Polytechnic Institute	A Recent Major Radial Merger Leaves Shells in the Milky Way [30] - Link to Recording [31]
	Drona Vargya	University of Pennsylvania	Nemesis Stars in Dynamic Time-Dependent Galactic Potentials [32]
	Maria Tiongco	University of Colorado	Complexities in the Kinematical Evolution of Globular Clusters [33]- Link to Recording [34]
	Hangci Du	Tsinghua University	Kinematics of RR Lyrae stars in the Galactic bulge with OGLE-IV and Gaia DR2 [35] - Link to Recording [36]
10:00 AM - 10:15 AM EDT		**The Solar System in the Galaxy: Interstellar objects and stellar flybys (Session 201)** Chair: Darryl Seligman	
	Amir Siraj	Harvard University	Identifying Interstellar Objects Trapped in the Solar System through Their Orbital Parameters [37]
	Marvin Morgan	University of Pennsylvania	Close Encounters of Stars in the Solar Neighborhood [38] (Poster PDF [39])
	Tim Hallatt	McGill University	The Dynamics of Interstellar Asteroids and Comets within the Galaxy: An Assessment of Local Candidate Source Regions for 1I/'Oumuamua and 2I/Borisov [40]- Link to Recording [41]
10:15 AM - 10:40 AM EDT		**Early Planetary Systems: accretion, collisions, and orbital configurations (Session 202)** Chair: Gongjie Li	
	Mor Rozner	Technion	The aeolian-erosion barrier for the growth of metre-size objects in protoplanetary-discs and implications [42] -

	Christopher Spalding	Yale University	Link to Recording [43] The Solar Wind Prevents Re-accretion of Debris after Mercury's Giant Impact [44] - Link to Recording [45]
	Jennifer Pouplin	Purdue University	The Importance of Being Swiftest: The effects of collisional fragmentation on the accretion timescale of the martian moons and the terrestrial planets [46]
	Carlisle Wishard	Purdue University	Swiftest: An N-body dynamics code incorporating collisional regime determination and fragmentation [47] (Poster PDF [48])
	Matthew Clement	Carnegie Institution of Washington	Born eccentric: constraints on Jupiter and Saturn's pre-instability orbits [49] - Link to Recording [50]
1:30 PM - 2:00 PM EDT		**Asteroid Dynamics: Pairs, Multiples, Shapes, and Spin States (Session 203)** Chair: Seth Jacobson	
	Darryl Seligman	University of Chicago	The Onset of Chaos in Permanently Deformed Binaries from Spin-Orbit and Spin-Spin Coupling [51] - Link to Recording [52]
	Sanjana Prabhu Desai	UCLA	Evolution of the Binary Asteroid 66391 Moshup-Squannit (1999 KW4) [53](Poster)
	Valeri Makarov	U.S. Naval Observatory	Spin-orbit resonances of prolate asteroids and minor planets at higheccentricity (e > 0.9) [54] (Poster PDF [55])
	Darin Ragozzine	Brigham Young University	Non-Keplerian Effects in Kuiper Belt Multiples [56] - Link to Recording [57]
	Tamires Moura	São Paulo State University - UNESP	Dynamical Environment and Surface Characteristics of Asteroid (16) Psyche [58] (Poster PDF [59])
	Timothy Holt	University of Southern	A pair of Jovian Trojans

		Queensland	[60]
2:00 PM - 2:20 PM EDT		**Exoplanets: Linking Observations and Dynamics with TTVs (Session 204)**	
		Chair: Juliette Becker	
	Chris Fox	University of Western Ontario	Exomoon Candidates from Transit Timing Variations [61]
	Jack Lissauer	NASA Ames Research Center	Perturbations, TTVs & the (Un)reliability of Ephemerides of Kepler Planets [62] - Link to Recording [63]
	Mariah MacDonald	Pennsylvania State University	Confirming and characterizing the five-planet resonant chains of K2-138 and Kepler-80 [64] - Link to Recording [65]
	Abigail Graham	Brigham Young University	Investigating unseen exoplanets in Kepler multis [66] - Link to Recording [67]
2:20 PM - 2:50 PM EDT		**Planetary Satellites and Rings (Session 205)**	
		Chair: Matthew Tiscareno	
	Joseph A'Hearn	University of Idaho	Periodic orbits for small N co-orbital satellite systems [68] - Link to Recording [69]
	Maryame El Moutamid	Cornell University	The Orbital History of Mimas, Enceladus and Dione [70]
	Matija Cuk	SETI Institute	Are The Inner Satellites of Uranus Stable? [71] - Link to Recording [72]
	Matthew Hedman	University of Idaho	Sudden changes in the structure and orbit of one of Saturn's dusty rings [73] - Link to Recording [74]
	Philip Nicholson	Cornell University	The outer edge of Saturn’s A ring, as revealed by Cassini occultation observations. [75]
	Matthew Young	University of Idaho	Evidence for a new type of moonlet wake near Enceladus [76] (Poster PDF [77])

Wednesday, August 5

9:30 AM - 10:00 AM EDT		**Planetary System Stability (Session 300)**	
		Chair: Dimitri Veras	
	Daniel Tamayo	Princeton University	Predicting the

			long-term stability of compact multi-planet systems [78] - Link to Recording [79]
	A. Paula Granados Contreras	Academia Sinica	Mass stability limit for coorbital planets in a horseshoe configuration [80]
	Sacha Gavino	CNRS-Université de Bordeaux	Orbital stability of compact three-planet systems [81]- Link to Recording [82]
	Billy Quarles	Georgia Institute of Technology	Orbital Stability of Circumstellar Earth-like planets in Binary Systems [83]
	Marialis Rosario-Franco	National Radio Astronomy Observatory	Orbital Stability of Exomoons and Submoons with Applications to Kepler 1625b-I [84]
	Laetitia Rodet	Cornell University	Hiding resonant objects behind a big friend [85](Poster)
10:00 AM - 10:25 EDT		**Bars and Spiral Arms in Galaxies (Session 301)**	
		Chair: Aleksey Generozov	
	Monica Valluri	University of Michigan	FORSTAND: A New Schwarzschild Dynamical Modeling Code for Galaxies of All Morphological Types [86] - Link to Recording [87]
	Katherine Xiang	Johns Hopkins University	Buckling bars in face-on galaxies observed with MaNGA [88]
	E. Athanassoula	Laboratoire D'Astrophysique De Marseille	Orbits in galactic bars [89] - Link to Recording [90]
	Angela Collier	JILA/ UC Boulder	Halo-Bar Coupling via Secular Torques [91] - Link to Recording [92]
	Emma Lieb	University of Colorado Boulder	Leading Spiral Arms in Isolated Disc Galaxies [93] -- Duncombe Student Research Prize Winner - Link to Recording [94]

Special Session

The Dynamics of Building a Dynamics Community (Session 302)

Chair: Smadar Naoz

2:00 PM - 2:05 PM	Ruth Murray-Clay (DDA	Thoughts on Building an

		Vice-Chair)	Inclusive Community in a Challenging Environment [95]
2:05 PM - 3:30 PM EDT		Sherard Robbins	(Invited Workshop) Do I Have To?: Navigating Your Introversion In Higher Education.

Thursday, August 6

11:00 AM - 11:30 AM EDT		**Special Session** **Artificial Celestial Bodies as a Dynamical Laboratory for Astrophysical and Celestial Dynamics (Session 400)** Chairs: TBD	
	Alessandra Celletti	University of Rome Tor Vergata	(Invited) Regular, resonant and chaotic motions within space debris [96] - Link to Recording [97]
	Shane Ross	Virginia Tech	(Invited) The interplanetary transport network: mechanisms of fast transport in the solar system [98] - Link to Recording [99]
	Conor Benson	University of Colorado	YORP-Driven Spin State Evolution of Meter-Sized Asteroids [100]- Link to Recording [101]
	Marielle Pellegrino	University of Colorado Boulder	Influence of Solar Radiation Pressure on the Luni-Solar Resonance Structure of MEO satellites [102]
11:30 AM - 11:50 AM EDT		**Near Earth Asteroids (Session 401)** Chair: Althea Moorhead	
	Jean-Luc Margot	University of California, Los Angeles	Measurements of Yarkovsky Drift Rates for 247 Near-Earth Asteroids [103]
	Jorge Pérez-Hernández	Universidad Nacional Autonoma de Mexico (UNAM)	The Yarkovsky effect for (99942) Apophis and observational predictions for the upcoming 2020-2021 close approach to Earth [104] -- Duncombe Student Research Prize Winner - Link to Recording [105]
	Bruno Chagas	UNESP	Deflect an hazardous asteroid through kinetic impact [106] (Poster PDF [107])

	Daniel Scheeres	University of Colorado	Janus: A NASA SIMPLEx mission to explore two NEO Binary Asteroids [108] - Link to Recording [109]
12:00 PM - 1:00 PM EDT	**DDA Members' Meeting**		
7:10 PM - 7:30 PM EDT	**Solar System Evolution: numerical methods and long-term stability (Session 402)** Chairs: Sarah Morrison		
	Oscar Fuentes-Munoz	University of Colorado, Boulder	Semi-analytical long-term propagation of asteroids [110] - Link to Recording [111]
	Kevin Zhang	Cornell University	GLISSE: A GPU-optimized planetary system integrator with application to orbital stability calculations [112] - Link to Recording [113]
	Yukun Huang	University of British Columbia	Four Billion Year Stability of the Earth-Mars Belt [114] (Poster PDF [115])
7:30 PM - 7:55 PM EDT	**Formation and Evolution of Planetary System Architectures (Session 403)** Chair: Sarah Millholland		
	Ruth Murray-Clay	University of California, Santa Cruz	A Giant Impacts Phase for Giant Planets [116] - Link to Recording [117]
	Isabel Angelo	University of California, Los Angeles	The Dynamical Origins of Kepler-1656b's Extreme Eccentricity [118] (Poster PDF [119])
	Sarah Morrison	Missouri State University	Producing Close-in Super-Earths and Mini-Neptunes in Resonant Chains During In Situ Planet Formation [120]
	Yuji Matsumoto	Academia Sinica Institute of Astronomy and Astrophysics	Breaking resonant chains triggered by long-term mass evolution [121] - Link to Recording [122]
	Juliette Becker	Caltech	The Origins of Multi-Planet Systems with Misaligned, Nearby Companions [123]- Link to Recording [124]

Friday, August 7

10:00 AM - 10:20 AM EDT		**Meteoroids and Comets (Session 500)**	
		Chair: David Minton	
	Mark Moretto	University of Colorado	The Perturbative Effects of Gas Drag at Active Comets: Equations of Motion for the Mean Elements under General Inverse-Square Perturbations [125]
	Luke Dones	Southwest Research Institute	Splitting as a Source of Periodic Comets [126] - Link to Recording [127]
	Althea Moorhead	NASA Marshall Space Flight Center	Realistic gravitational focusing of meteoroid streams [128] - Link to Recording [129]
10:20 AM - 10:40 AM EDT		**Outer Solar System: dynamics and observations of TNOs (Session 501)**	
		Chair: Matthew Hedman	
	Benjamin Proudfoot	Brigham Young University	Unlocking the mystery of the Haumea Family [130] - Link to Recording [131]
	Ann-Marie Madigan	CU Boulder	Collective gravity in the Outer Solar System [132] - Link to Recording [133]
	Malena Rice	Yale University	Surveying the Trans-Neptunian Solar System with TESS [134] -- Duncombe Student Research Prize Winner
	William Oldroyd	Northern Arizona University	Constraining the Outer Solar System Perihelion Gap [135] - Link to Recording [136]
10:40 AM - 11:05 AM EDT		**Planets and Planetesimals around Highly Evolved Stars (Session 502)**	
		Chairs: Cristobal Petrovich	
	Catriona McDonald	University of Warwick	How the breakup of triaxial asteroids generates debris reservoirs for white dwarf pollution [137] (Poster PDF [138])
	Christopher O'Connor	Cornell University	High-e migration of planetesimals around polluted white dwarfs [139]
	Alexander Stephan	UCLA	Social Distancing for Stars: A hidden friend for WD

			J091405.30+191412.25 [140]
	Dimitri Veras	University of Warwick	The dynamical history and current orbital constraints of a milestone ice giant planet orbiting a white dwarf [141]
	María Ronco	Instituto de Astrofísica - Pontificia Universidad Católica de Chile	How Jupiters save or destroy inner Neptunes around evolved stars [142] - Link to Recording [143]
1:00 PM - 1:25 PM EDT		**Planetary System Obliquities and Tidal Evolution (Session 503)**	
		Chair: Smadar Naoz	
	Yubo Su	Cornell University	Dynamics of Colombo's Top: Generating Exoplanet Obliquities from Planet-Disk Interactions [144] -- Duncombe Student Research Prize Winner - Link to Recording [145]
	Sarah Millholland	Princeton University	Formation of Ultra-Short-Period Planets by Obliquity-Driven Tidal Runaway [146] - Link to Recording [147]
	Craig Duguid	University of Leeds	Convective turbulent viscosity acting on equilibrium tidal flows: new frequency scaling of the effective viscosity [148] - Link to Recording [149]
	Cristobal Petrovich	University of Arizona	Disk dispersal-driven instabilities: application to hot Neptunes [150] - Link to Recording [151]
	Steven Kreyche	University of Idaho	Retrograde-rotating exoplanets experience obliquity excitations in an eccentricity-enabled resonance [152] - Link to Recording [153]
1:25 PM - 1:50 PM EDT		**The Center of Galaxies (Session 504)**	
		Chair: Alexander Stephen	
	Smadar Naoz	University of California, Los Angeles	A Hidden Friend for the Galactic Center Black Hole, Sgr A* [154]
	Sanaea Rose	UCLA	On Socially Distant Neighbors: Binaries as

			Density Probes in the Galactic Center [155]
	Aleksey Generozov	University of Colorado, Boulder	The Hills Mechanism and the Galactic Center S-stars [156]
	Heather Wernke	University of Colorado	Photometry of Simulated Eccentric Nuclear Disks [157]
	Alexander Rodriguez	University of Colorado	Galactic Merger Implications for Eccentric Nuclear Disks [158]
1:50 PM - 2:00 PM		Kat Volk, SOC and DDA chair	Meeting Wrap Up, Final Announcements

Asynchronous Poster Presentations (Session 103)

Discussion via Slack

Available all week

M. Clement	Earth and Planets Laboratory, Carnegie Institution of Washington	New initial conditions for terrestrial planet formation derived from high resolution simulations of planetesimal accretion [159]- Poster PDF [160]
M Cuk	SETI Institute,	"Barrel Instability" for Elongated Secondaries in Binary Asteroids [161] - Poster PDF [162]
C. Filion	Department of Physics & Astronomy, The Johns Hopkins University	The Low Mass Stellar Initial Mass Function of the Ultra Faint Dwarf Spheroidal Galaxy Boötes I [163] - Poster PDF [164]
P. Gratia	JP Morgan Chase (formerly Northwestern University)	Eccentricity and the Lifetimes of Closely-Spaced Five-Planet Systems [165] - Poster PDF [166]
A. Moorhead	NASA Marshall Space Flight Center	Is LaTeX use correlated with the number of equations in a manuscript? [167] - Poster PDF [168]
D. Veras	University of Warwick	A full-lifetime planetary simulation: from stellar birth cluster evolution to planetary destruction around white dwarfs [169] - Poster PDF [170]
K. Volk	Lunar and Planetary Lab, The University of	Dynamical instabilities in systems of multiple short-period planets are

Arizona	likely driven by secular chaos: a case study of Kepler-102 [171] - Poster PDF [172]

Source URL: https://dda.aas.org/meetings/2020/schedule

Links
[1] http://r20.rs6.net/tn.jsp?f=001h_uDgQBPS40tK0oZkqE-M2xHeG3ff6oWv5Yb0B6SZBNda5GNFpMd3Js4_j5nOtDU3Uuxzg7Qtyb5uFDzCnq1enYelcCF-vjOU6RSix3X34iVlUjgSsXQmkWMxFf0jFOB50jN9Zs7shVb8oVLLbY6jfd9rCQdzzOC&c=SZaoQUQpZXt4AGZhGoD1T2-vDq_gBNFjTc45Z-gKCD-aO4fJGkH8Sw==&ch=nvJX8yOwOk3oP6QwefieQ3-Q5hV2iDd-M1UYpC0MNX3rypeRueMuQw==
[2] https://ui.adsabs.harvard.edu/search/fq=%7B!type%3Daqp%20v%3D%24fq_database%7D&fq_database=(database%3Aastronomy)&q=series%3AAAS%2FDivision%20of%20Dynamical%20Astronomy%20Meeting%20year%3A2020&sort=bibcode%20asc%2C%20bibcode%20asc&p_=0
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[48] http://dda.aas.org/sites/dda.aas.org/files/2020Meeting/Public-Poster-PDFs/202.04-Carlisle-Wishard.pdf
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