

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

11:35 AM - 12:05 PM EDT		<a href="#">Recording</a> [13]	
		<b>Planetary System Populations (Session 101)</b>	
		Chairs: Darin Ragozzine	
	Fred Adams	University of Michigan	<a href="#">A Solution to the Peas-in-a-Pod Problem for Extrasolar Planetary Systems</a> [14] - <a href="#">Link to Recording</a> [15]
	Matthias He	The Pennsylvania State University	<a href="#">The Intrinsic Architectures of Planetary Systems: Correlations of AMD-Stable Systems</a> [16] - <a href="#">Link to Recording</a> [17]
	Emily Safsten	The Pennsylvania State University	<a href="#">Nature vs. nurture: a Bayesian framework for assessing apparent correlations between planetary orbital properties and stellar ages</a> [18]
	Jiayin Dong	The Pennsylvania State University	<a href="#">Unraveling Warm, Large Exoplanet (WaLE) Origins From TESS Observations</a> [19] - <a href="#">Link to Recording</a> [20]
	Kyriaki Antoniadou	Aristotle University of Thessaloniki	<a href="#">Kepler and K2 systems dynamically unveiled via periodic orbits</a> [21] (Poster)
	Srisurya Yadavalli	Georgia Institute of Technology	<a href="#">On the Seasonal Flux and Temperature Variations on Circumbinary Planets</a> [22] - <a href="#">Link to Recording</a> [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	<a href="#">What I have learned about the Milky Way's dynamics from Gaia so far</a> [24]
1:45	Fred Rasio	Northwestern University	<a href="#">Forming Gravitational Wave Sources through Stellar Dynamics</a> [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	<a href="#">N-Body Simulations</a>
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	Institute	<a href="#">with MilkyWay @ home [26]</a> - <a href="#">Link to Recording [27]</a>
Nondh Panithanpaisal	University of Pennsylvania	<a href="#">Stellar Streams and Their Progenitors in MW-like Simulations [28]</a> - <a href="#">Link to Recording [29]</a>
Thomas Donlon	Rensselaer Polytechnic Institute	<a href="#">A Recent Major Radial Merger Leaves Shells in the Milky Way [30]</a> - <a href="#">Link to Recording [31]</a>
Drona Vargya	University of Pennsylvania	<a href="#">Nemesis Stars in Dynamic Time-Dependent Galactic Potentials [32]</a>
Maria Tiongco	University of Colorado	<a href="#">Complexities in the Kinematical Evolution of Globular Clusters [33]</a> - <a href="#">Link to Recording [34]</a>
Hangci Du	Tsinghua University	<a href="#">Kinematics of RR Lyrae stars in the Galactic bulge with OGLE-IV and Gaia DR2 [35]</a> - <a href="#">Link to Recording [36]</a>
10:00 AM - 10:15 AM EDT	<b>The Solar System in the Galaxy: Interstellar objects and stellar flybys (Session 201)</b>	
	Chair: Darryl Seligman	
Amir Siraj	Harvard University	<a href="#">Identifying Interstellar Objects Trapped in the Solar System through Their Orbital Parameters [37]</a>
Marvin Morgan	University of Pennsylvania	<a href="#">Close Encounters of Stars in the Solar Neighborhood [38]</a> ( <a href="#">Poster PDF [39]</a> )
Tim Hallatt	McGill University	<a href="#">The Dynamics of Interstellar Asteroids and Comets within the Galaxy: An Assessment of Local Candidate Source Regions for 1I/Oumuamua and 2I/Borisov [40]</a> - <a href="#">Link to Recording [41]</a>
10:15 AM - 10:40 AM EDT	<b>Early Planetary Systems: accretion, collisions, and orbital configurations (Session 202)</b>	
	Chair: Gongjie Li	
Mor Rozner	Technion	<a href="#">The aeolian-erosion barrier for the growth of metre-size objects in protoplanetary-discs and implications [42]</a> -

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

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

**Wednesday, August 5**

9:30 AM - 10:00 AM EDT	<b>Planetary System Stability (Session 300)</b>  Chair: Dimitri Veras	
	Daniel Tamayo Princeton University	<a href="#">Predicting the</a>

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

### 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)	<a href="#">Inclusive Community in a Challenging Environment</a> [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) <a href="#">Regular, resonant and chaotic motions within space debris</a> [96] - <a href="#">Link to Recording</a> [97]
Shane Ross	Virginia Tech	(Invited) <a href="#">The interplanetary transport network: mechanisms of fast transport in the solar system</a> [98] - <a href="#">Link to Recording</a> [99]
Conor Benson	University of Colorado	<a href="#">YORP-Driven Spin State Evolution of Meter-Sized Asteroids</a> [100]- <a href="#">Link to Recording</a> [101]
Marielle Pellegrino	University of Colorado Boulder	<a href="#">Influence of Solar Radiation Pressure on the Luni-Solar Resonance Structure of MEO satellites</a> [102]

11:30 AM - 11:50 AM EDT

**Near Earth Asteroids (Session 401)**

Chair: Althea Moorhead

Jean-Luc Margot	University of California, Los Angeles	<a href="#">Measurements of Yarkovsky Drift Rates for 247 Near-Earth Asteroids</a> [103]
Jorge Pérez-Hernández	Universidad Nacional Autonoma de Mexico (UNAM)	<a href="#">The Yarkovsky effect for (99942) Apophis and observational predictions for the upcoming 2020-2021 close approach to Earth</a> [104] -- Duncombe Student Research Prize Winner - <a href="#">Link to Recording</a> [105]
Bruno Chagas	UNESP	<a href="#">Deflect an hazardous asteroid through kinetic impact</a> [106] ( <a href="#">Poster PDF</a> [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	<a href="#">The Perturbative Effects of Gas Drag at Active Comets: Equations of Motion for the Mean Elements under General Inverse-Square Perturbations</a> [125]
Luke Dones	Southwest Research Institute	<a href="#">Splitting as a Source of Periodic Comets</a> [126] - <a href="#">Link to Recording</a> [127]
Althea Moorhead	NASA Marshall Space Flight Center	<a href="#">Realistic gravitational focusing of meteoroid streams</a> [128] - <a href="#">Link to Recording</a> [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	<a href="#">Unlocking the mystery of the Haumea Family</a> [130] - <a href="#">Link to Recording</a> [131]
Ann-Marie Madigan	CU Boulder	<a href="#">Collective gravity in the Outer Solar System</a> [132] - <a href="#">Link to Recording</a> [133]
Malena Rice	Yale University	<a href="#">Surveying the Trans-Neptunian Solar System with TESS</a> [134] -- Duncombe Student Research Prize Winner
William Oldroyd	Northern Arizona University	<a href="#">Constraining the Outer Solar System Perihelion Gap</a> [135] - <a href="#">Link to Recording</a> [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	<a href="#">How the breakup of triaxial asteroids generates debris reservoirs for white dwarf pollution</a> [137] ( <a href="#">Poster PDF</a> [138])
Christopher O'Connor	Cornell University	<a href="#">High-e migration of planetesimals around polluted white dwarfs</a> [139]
Alexander Stephan	UCLA	<a href="#">Social Distancing for Stars: A hidden friend for WD</a>

			<a href="#">J091405.30+191412.25</a> [140]
Dimitri Veras	University of Warwick		<a href="#">The dynamical history and current orbital constraints of a milestone ice giant planet orbiting a white dwarf</a> [141]
María Ronco	Instituto de Astrofísica - Pontificia Universidad Católica de Chile		<a href="#">How Jupiters save or destroy inner Neptunes around evolved stars</a> [142] - <a href="#">Link to Recording</a> [143]

1:00 PM - 1:25 PM EDT

**Planetary System Obliquities and Tidal Evolution (Session 503)**

Chair: Smadar Naoz

Yubo Su	Cornell University		<a href="#">Dynamics of Colombo's Top: Generating Exoplanet Obliquities from Planet-Disk Interactions</a> [144] -- Duncombe Student Research Prize Winner - <a href="#">Link to Recording</a> [145]
Sarah Millholland	Princeton University		<a href="#">Formation of Ultra-Short-Period Planets by Obliquity-Driven Tidal Runaway</a> [146] - <a href="#">Link to Recording</a> [147]
Craig Duguid	University of Leeds		<a href="#">Convective turbulent viscosity acting on equilibrium tidal flows: new frequency scaling of the effective viscosity</a> [148] - <a href="#">Link to Recording</a> [149]
Cristobal Petrovich	University of Arizona		<a href="#">Disk dispersal-driven instabilities: application to hot Neptunes</a> [150] - <a href="#">Link to Recording</a> [151]
Steven Kreyche	University of Idaho		<a href="#">Retrograde-rotating exoplanets experience obliquity excitations in an eccentricity-enabled resonance</a> [152] - <a href="#">Link to Recording</a> [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 href="#">A Hidden Friend for the Galactic Center Black Hole, Sgr A*</a> [154]
Sanaea Rose	UCLA		<a href="#">On Socially Distant Neighbors: Binaries as</a>

	Aleksey Generozov	University of Colorado, Boulder	<a href="#">Density Probes in the Galactic Center</a> [155] <a href="#">The Hills Mechanism and the Galactic Center S-stars</a> [156]
	Heather Wernke	University of Colorado	<a href="#">Photometry of Simulated Eccentric Nuclear Disks</a> [157]
	Alexander Rodriguez	University of Colorado	<a href="#">Galactic Merger Implications for Eccentric Nuclear Disks</a> [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	<a href="#">New initial conditions for terrestrial planet formation derived from high resolution simulations of planetesimal accretion</a> [159]- <a href="#">Poster PDF</a> [160]
M Cuk	SETI Institute,	<a href="#">"Barrel Instability" for Elongated Secondaries in Binary Asteroids</a> [161] - <a href="#">Poster PDF</a> [162]
C. Filion	Department of Physics & Astronomy, The Johns Hopkins University	<a href="#">The Low Mass Stellar Initial Mass Function of the Ultra Faint Dwarf Spheroidal Galaxy Boötes I</a> [163] - <a href="#">Poster PDF</a> [164]
P. Gratia	JP Morgan Chase (formerly Northwestern University)	<a href="#">Eccentricity and the Lifetimes of Closely-Spaced Five-Planet Systems</a> [165] - <a href="#">Poster PDF</a> [166]
A. Moorhead	NASA Marshall Space Flight Center	<a href="#">Is LaTeX use correlated with the number of equations in a manuscript?</a> [167] - <a href="#">Poster PDF</a> [168]
D. Veras	University of Warwick	<a href="#">A full-lifetime planetary simulation: from stellar birth cluster evolution to planetary destruction around white dwarfs</a> [169] - <a href="#">Poster PDF</a> [170]
K. Volk	Lunar and Planetary Lab, The University of	<a href="#">Dynamical instabilities in systems of multiple short-period planets are</a>

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-vjOU6RSix3X34iVIUjgSsXQmkWMxFf0jFOB50jN9Zs7shVb8oVLLbY6jfd9rCQdzzOC& c=SZaoQUQpZXt4AGZhGoD1T2-vDq\\_gBNfjTc45Z-gKCD-aO4fjGkH8Sww=& ch=nvJX8yOwOk3oP6QwefieQ3-Q5hV2iDd-M1UYpC0MNX3rypeRueMuQw==](http://r20.rs6.net/tn.jsp?f=001h_uDgQBPS40tK0oZkqE-M2xHeG3ff6oWv5Yb0B6SZBNda5GNFpMd3Js4_j5nOtDU3Uuxzg7Qtyb5uFDzCnq1enYelcCF-vjOU6RSix3X34iVIUjgSsXQmkWMxFf0jFOB50jN9Zs7shVb8oVLLbY6jfd9rCQdzzOC& c=SZaoQUQpZXt4AGZhGoD1T2-vDq_gBNfjTc45Z-gKCD-aO4fjGkH8Sww=& 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](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)
- [3] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110001M/abstract>
- [4] <https://vimeo.com/442110529>
- [5] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110002S/abstract>
- [6] <https://vimeo.com/442120955>
- [7] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110003G/abstract>
- [8] <https://vimeo.com/442450029>
- [9] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110004D/abstract>
- [10] <https://vimeo.com/441129705>
- [11] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110005C/abstract>
- [12] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110006N/abstract>
- [13] <https://vimeo.com/442109232>
- [14] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110101A/abstract>
- [15] <https://vimeo.com/441850327>
- [16] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110102H/abstract>
- [17] <https://vimeo.com/441849574>
- [18] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110103S/abstract>
- [19] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110104D/abstract>
- [20] <https://vimeo.com/441911382>
- [21] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110105A/abstract>
- [22] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110106Y/abstract>
- [23] <https://vimeo.com/442071430>
- [24] <https://ui.adsabs.harvard.edu/abs/2020DDA....5110201B/abstract>
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- [27] <https://vimeo.com/442120310>
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- [29] <https://vimeo.com/441688003>
- [30] <https://ui.adsabs.harvard.edu/abs/2020DDA....5120004D/abstract>
- [31] <https://vimeo.com/441912060>
- [32] <https://ui.adsabs.harvard.edu/abs/2020DDA....5120005V/abstract>
- [33] <https://ui.adsabs.harvard.edu/abs/2020DDA....5120006T/abstract>
- [34] <https://vimeo.com/442073415>
- [35] <https://ui.adsabs.harvard.edu/abs/2020DDA....5120007D/abstract>
- [36] <https://vimeo.com/441911030>
- [37] <https://ui.adsabs.harvard.edu/abs/2020DDA....5120101S/abstract>
- [38] <https://ui.adsabs.harvard.edu/abs/2020DDA....5120102M/abstract>
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