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 <u>registrant-only DDA meeting website</u>. [1]

Public links to many of the presentations are now available!

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

Monday, August 3	3		
10:50 AM EDT 11:00 AM - 11:35 AM EI	DT	Kat Volk, SOC and DDA chair Special Session	Introduction and announcements
		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) <u>Asteroid belt</u> <u>dynamics and statistics</u> [3] - <u>Link to Recording</u> [4]
	Federica Spoto	CfA Harvard & Smithsonian	(Invited) <u>Asteroid</u> families: a powerful tool to understand our Solar <u>System</u> [5] - <u>Link to</u> <u>Recording</u> [6]
	Mikael Granvik	University of Helsinki / Luleå University of Technology	(Invited) <u>Source regions</u> of meteorites and near-Earth asteroids [7]
	Stanley Dermott	University of Florida	<u>A new observational</u> <u>constraint on the</u> <u>Yarkovsky-driven</u> <u>mobility of main belt</u> <u>asteroids [9] - Link to</u> <u>Recording [10]</u>
	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

All times below are EDT (UTC-4)



11:35 AM - 12:05 PM EDT		Recording [13] Planetary System Populations (Session 101)	
		Chairs: Darin Ragozzine	
	Fred Adams	University of Michigan	<u>A Solution to the</u> <u>Peas-in-a-Pod Problem</u> <u>for Extrasolar Planetary</u> <u>Systems</u> [14] - <u>Link to</u> Becording [15]
	Matthias He	The Pennsylvania State University	The Intrinsic Architectures of Planetary Systems: Correlations of AMD-Stable Systems [16] - Link to Recording
	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 (Sess	ion 102):
		Vera Rubin Early Care Dirk Brouwer Prize Le Chair: Kat Volk	er Prize Lecture cture
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 t Complex Stellar Cluste	cne Milky Way and ers (Session 200)
		Chair: Heidi Jo Newberg	
	Eric Mendelsohn	Rensselaer Polytechnic	N-Body Simulations



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		Institute	with MilkyWay @ home [26] - Link to Recording
	Nondh Panithanpaisal	University of Pennsylvania	Stellar Streams and Their Progenitors in <u>MW-like Simulations</u> [28] - <u>Link to Recording</u> [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	<u>Nemesis Stars in</u> <u>Dynamic</u> <u>Time-Dependent</u> 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 ED	Т	The Solar System in t objects and stellar fly	he Galaxy: Interstellar bys (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 PDE [39])
	Tim Hallatt	McGill University	The Dynamics of Interstellar Asteroids and Comets within the Galaxy: An Assessment of Local Candidate Source Regions for 11/'Oumuamua and 21/Borisov [40]- Link to Becording [41]
10:15 AM - 10:40 AM ED	Τ	Early Planetary Syste collisions, and orbital configurations (Session)	ms: accretion,
		Chair: Gongjie Li	
	Mor Rozner	Technion	The aeolian-erosion barrier for the growth of metre-size objects in protoplanetary-discs and implications [42] -



1:30 PM -

	Christopher Spalding	Yale University	Link to Recording [43] The Solar Wind Prevents Re-accretion of Debris after Marcura's Ciant Impact
	Jennifer Pouplin	Purdue University	[44] - <u>Link to Recording</u> [45] The Importance of <u>Being Swiftest: The</u> <u>effects of collisional</u> <u>fragmentation on the</u> accretion timescale of
	Carlisle Wishard	Purdue University	the martian moons and the terrestrial planets [46] Swiftest: An N-body dynamics code incorporating collisional regime determination
	Matthew Clement	Carnegie Institution of Washington	(Poster PDF [48]) Born eccentric: constraints on Jupiter and Saturn's pre-instability orbits [49] - Link to Recording [50]
2:00 PM EDT		Asteroid Dynamics: P	airs. Multiples.
		· · · · · · · · · · · · · · · · · · ·	
		Shapes, and Spin Sta	tes (Session 203)
		Shapes, and Spin Stat	tes (Session 203)
	Darryl Seligman	Shapes, and Spin Star Chair: Seth Jacobson University of Chicago	The Onset of Chaos in Permanently Deformed Binaries from Spin-Orbit and Spin-Spin Coupling [51] - Link to Recording
	Darryl Seligman Sanjana Prabhu Desai	Shapes, and Spin Stat Chair: Seth Jacobson University of Chicago UCLA	The Onset of Chaos in Permanently Deformed Binaries from Spin-Orbit and Spin-Spin Coupling [51] - Link to Recording [52] Evolution of the Binary Asteroid 66391 Moshup-Squannit (1999 KW(4) [53](Poster)
	Darryl Seligman Sanjana Prabhu Desai Valeri Makarov	Shapes, and Spin Stat Chair: Seth Jacobson University of Chicago UCLA U.S. Naval Observatory	The Onset of Chaos in Permanently Deformed Binaries from Spin-Orbit and Spin-Spin Coupling [51] - Link to Recording [52] Evolution of the Binary Asteroid 66391 Moshup-Squannit (1999 KW4) [53](Poster) Spin-orbit resonances of prolate asteroids and minor planets at higheccentricity (e > 0.9) [54] (Poster PDF
	Darryl Seligman Sanjana Prabhu Desai Valeri Makarov Darin Ragozzine	Shapes, and Spin Stat Chair: Seth Jacobson University of Chicago UCLA U.S. Naval Observatory Brigham Young University	The Onset of Chaos in Permanently Deformed Binaries from Spin-Orbit and Spin-Spin Coupling [51] - Link to Recording [52] Evolution of the Binary Asteroid 66391 Moshup-Squannit (1999 KW4)_[53](Poster) Spin-orbit resonances of prolate asteroids and minor planets at higheccentricity (e > 0.9) [54] (Poster PDE [55]) Non-Keplerian Effects in Kuiper Belt Multiples [56] - Link to Recording [57]
	Darryl Seligman Sanjana Prabhu Desai Valeri Makarov Darin Ragozzine Tamires Moura	Shapes, and Spin Stat Chair: Seth Jacobson University of Chicago UCLA U.S. Naval Observatory Brigham Young University São Paulo State University - UNESP	The Onset of Chaos in Permanently Deformed Binaries from Spin-Orbit and Spin-Spin Coupling [51] - Link to Recording [52] Evolution of the Binary Asteroid 66391 Moshup-Squannit (1999 KW4)_[53](Poster) Spin-orbit resonances of prolate asteroids and minor planets at higheccentricity (e ≥ 0.9) [54] (Poster PDE [55]) Non-Keplerian Effects in Kuiper Belt Multiples [56] - Link to Recording [57] Dynamical Environment and Surface Characteristics of Asteroid (16) Psyche [58] (Poster PDF [591)



2:00 PM - 2:20 PM EDT		Queensland Exoplanets: Linking O Dynamics with TTVs ([60] bservations and 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 a 205)	nd Rings (Session
		Chair: Matthew Tiscaren	0
	Joseph A'Hearn	University of Idaho	Periodic orbits for small N co-orbital satellite systems [68] - Link to Becording [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
	Philip Nicholson	Cornell University	Recording [74] The outer edge of Saturn's A ring, as revealed by Cassini occultation
	Matthew Young	University of Idaho	observations. [75] Evidence for a new type of moonlet wake near Enceladus [76] (Poster PDF [77])
9:30 AM - 10:00 AM EDT	st 5	Planetary System Sta	bility (Session 300)
		Chair: Dimitri Veras	
	Daniel Tamayo	Princeton University	Predicting the



	A. Paula Granados Contreras	Academia Sinica	long-term stability of compact multi-planet systems [78] - Link to Recording [79] Mass stability limit for coorbital planets in a horseshoe configuration
	Sacha Gavino	CNRS-Université de Bordeaux	[80] Orbital stability of compact three-planet systems [81]- Link to Becording [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 301)	in Galaxies (Session
		Chair: Aleksey Generozo	V
	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 <u>Thoughts on Building an</u>



2:05 PM - 3:30 PM EDT		Vice-Chair) Sherard Robbins	Inclusive Community in a Challenging Environment [95] (Invited Workshop) Do I Have To?: Navigating Your Introversion In Higher Education.
Thursday, August	6		
11:00 AM - 11:30 AM ED	Т	Special Session	
		Artificial Celestial Boo Laboratory for Astrop Celestial Dynamics (S	lies as a Dynamical hysical and ession 400)
		Chairs: TBD	
	Alessandra Celletti	University of Rome Tor Vergata	(Invited) <u>Regular.</u> resonant and chaotic motions within space debris [96] - <u>Link to</u> Recording [97]
	Shane Ross	Virginia Tech	(Invited) <u>The</u> 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 ED	Т	Near Earth Asteroids (Session 401)	
		Chair: Althea Moorhead	
	Jean-Luc Margot	University of California, Los Angeles	<u>Measurements of</u> <u>Yarkovsky Drift Rates</u> <u>for 247 Near-Earth</u> Asteroids [103]
	Jorge Pérez-Hernández	Universidad Nacional Autonoma de Mexico (UNAM)	Asteroids [103] 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])



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	Daniel Scheeres	University of Colorado	Janus: A NASA SIMPLEx mission to explore two NEO Binary Asteroids [108] - <u>Link to</u> Recording [109]
12:00 PM - 1:00 PM EDT		DDA Members' Meeti	ng
7:10 PM - 7:30 PM EDT		Solar System Evolution and long-term stability	on: numerical methods ty (Session 402)
		Chairs: Sarah Morrison	
	Oscar Fuentes-Munoz	University of Colorado, Boulder	Semi-analytical long-term propagation of asteroids [110] - Link
	Kevin Zhang	Cornell University	<u>GLISSE: A</u> <u>GPU-optimized</u> <u>planetary system</u> <u>integrator with</u> <u>application to orbital</u> <u>stability calculations</u> [112] - <u>Link to</u> 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 Evolut System Architectures	ion of Planetary (Session 403)
		Chair: Sarah Millholland	
	Ruth Murray-Clay	University of California, Santa Cruz	<u>A Giant Impacts Phase</u> for Giant Planets [116] - Link to Becording [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
10:20 AM - 10:40 AM ED	Т	Outer Solar System: o observations of TNOs	ynamics and (Session 501)
		Chair: Matthew Hedman	
	Benjamin Proudfoot	Brigham Young University	<u>Unlocking the mystery</u> of the Haumea Family [130] - <u>Link to</u> 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	<u>Constraining the Outer</u> <u>Solar System Perihelion</u> <u>Gap [135] - Link to</u> <u>Decerding [126]</u>
10:40 AM - 11:05 AM ED	Т	Recording [136] Planets and Planetesimals around Highly Evolved Stars (Session 502)	
		Chairs: Cristobal Petrovi	ch
	Catriona McDonald	University of Warwick	How the breakup of triaxial asteroids generates debris reservoirs for white dwarf pollution [137] (Poster PDE [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



	Dimitri Veras	University of Warwick	J091405.30+191412.25 [140] The dynamical history and current orbital constraints of a milestone ice giant planet orbiting a white
	María Ronco	Instituto de Astrofísica - Pontificia Universidad Católica de Chile	dwarf [141] How Jupiters save or destroy inner Neptunes around evolved stars [142] - Link to Recording [143]
1:00 PM - 1:25 PM EDT		Planetary System Obl Evolution (Session 50	iquities and Tidal 3)
		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 Becording [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 Galaxie	s (Session 504)
		Chair: Alexander Stephe	n
	Smadar Naoz	University of California, Los Angeles	<u>A Hidden Friend for the</u> <u>Galactic Center Black</u> <u>Hole, Sgr A*</u> [154]
	Sanaea Rose	UCLA	<u>On Socially Distant</u> <u>Neighbors: Binaries as</u>



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



Arizona

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

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Links

[1] http://r20.rs6.net/tn.jsp?f=001h uDqQBPS40tK0oZkgE-M2xHeG3ff6oWv5Yb0B6SZBNda5GNFpMd 3Js4 j5nOtDU3Uuxzg7Qtyb5uFDzCnq1enYelcCF-vjOU6RSix3X34iVIUjgSsXQmkWMxFf0jFOB50jN9Zs7s hVb8oVLLbY6jfd9rCQdzzOC&c=SZaoQUQpZXt4AGZhGoD1T2-vDq_gBNFjTc45Z-gKCD-aO4fJGkH 8Sw==&ch=nvJX8yOwOk3oP6QwefieQ3-Q5hV2iDd-M1UYpC0MNX3rypeRueMuQw== [2] https://ui.adsabs.harvard.edu/search/fg=%7B!type%3Dagp%20v%3D%24fg_database%7D& fq database=(database%3Aastronomy)&q=series%3AAAS%2FDivision%20of%20Dynamical%2 0Astronomy%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 [25] https://ui.adsabs.harvard.edu/abs/2020DDA....5110202R/abstract [26] https://ui.adsabs.harvard.edu/abs/2020DDA....5120001M/abstract [27] https://vimeo.com/442120310 [28] https://ui.adsabs.harvard.edu/abs/2020DDA....5120002P/abstract [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 [39] http://dda.aas.org/sites/dda.aas.org/files/2020Meeting/Public-Poster-PDFs/201.02-Marvin-Morgan.pdf [40] https://ui.adsabs.harvard.edu/abs/2020DDA....5120103H/abstract

[41] https://vimeo.com/442145831

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