Duncombe Prize - Past Winners

		nners of the <u>Duncom</u>		
rea r	Winner	Institution	Advisor	Presentation
202 3	Sergio Best	Pontificia Universidad Catolica de Chile		Influence of cold Jupiters in the formation of close-in planets
	Barry Ginat	Technion Israel Institute of Technology		Resonant Dynamical Friction at The Galactic Center
	Sanaea Rose	University of California, Los Angeles		Stellar Collisions in the Galactic Center
	Ricardo Yarza	University of California, Santa Cruz		The hydrodynamics of planetary engulfment
202	Scott Lucchini	U Wisconsin, Madison	Elena D'Onghia	The Magellanic Stream at 20 kpc: A New Orbital History for the Magellanic Clouds
	Maddie Lucey	University of Texas at Austin		Constraining the length and pattern speed of the Milky Way bar from direct orbit integration
	Mor Rozner	Technion Israel Institute of Technology	Hagai Perets	Binary evolution, gravitational-wave mergers and explosive transients in multiple-populations gas-enriched globular-clusters
	Roberto Tejada Arevalo	Princeton University	Dan Tamayo	Stability Constrained Characterization of the 23 Myr-old V1298 Tau System: Do Young Planets Form in Mean Motion Resonance Chains?
202 1	Jiayin Dong	Penn State	Rebekah Dawson	Boundary Layer Circumplanetary Accretion: How Fast Could an Unmagnetized Planet Spin Up Through Its Disk?
	Arcelia Hermosillo Ruiz	University of California, Santa Cruz	Ruth Murray-Clay	The Impact of Stochastic Migration on Weak Resonances in The Kuiper Belt
	Tatsuya Akiba	University of Colorado Boulder	Ann-Marie Madigan	The Beginning of an END
	Max Goldberg	California Institute of Technology	Konstantin Batygin	A Tidal Origin for a 3-body Resonance in Kepler-221
202	Emma Lieb	University of Colorado Boulder	Angela Collier	Leading Spiral Arms in Isolated Disc Galaxies Duncombe Student Research Prize Winner
	Jorge Pérez-Hernández	Universidad Nacional Autonoma de Mexico	Luis Benet	The Yarkovsky effect for (99942) Apophis and observational predictions for the upcoming 2020-2021 close approach to Earth
	Malena Rice	Yale University	Gregory Laughlin	Surveying the Trans-Neptunian Solar System with TESS

	Yubo Su	Cornell University	Dong Lai	Dynamics of Colombo's Top: Generating Exoplanet Obliquities
201 9	Yuxi Lu	University of Maryland	Doug Hamilton	from Planet-Disk Interactions Simulating Saturn's A ring edge with a single chain of gravitationally-interacting
	Ekta Patel	University of Arizona	Gurtina Besla	particles Dynamics of Local Group satellite galaxies in the era of high precision astrometry
	Bonan Pu	Cornell University	Dong Lai	Low-eccentricity formation of ultra-short period planets in multi-planet systems
	Darryl Seligman	Yale University	Greg Laughlin	On the anomalous acceleration of 11/2017 U1 `Oumuamua
201 8	Kassandra Anderson	Cornell University	Dong Lai	Teetering stars: resonant excitation of stellar obliquities by hot and warm Jupiters with external companions
	Elizabeth Bailey	California Institute	Konstantin Batygin	Probing the parameters of the
	Tali Khain	of Technology University of Michigan	Fred Adams	HAT-P-2 system The generation of the distant Kuiper belt by planet nine from an initially broad perihelion distribution
	Sarah Millholland	Yale University	Greg Laughlin	On the obliquities of planets in close-in, compact systems
201 7	Alex Davis	University of Colorado, Boulder	Daniel Scheeres	Constraining Binary Asteroid Mass Distributions Based on Mutual Dynamics
	Michelle Vick	Cornell University	Dong Lai	Dynamical Tides in Highly Eccentric Binaries: Chaos, Dissipation and Quasi-Steady State
	Robert Chancia	University of Idaho	Matthew Hedman	Weighing Uranus' Moon Cressida with the η Ring
201 6	Maria Tiongco	Indiana University	Enrico Vesperini	Effects of Dynamical Evolution on the Internal Kinematical Properties of Star Clusters
	Eva Bodman	University of Rochester	Alice Quillen	Cometary Source for the Strange Behavior of KIC 8462852
	Indranil Banik	University of St Andrews	Hong Sheng Zhao	Anomalous Motions in the Local Group: Evidence of a Past Milky Way Andromeda Flyby
201 5	Juliette Becker	University of Michigan	Fred Adams	Inclination Excitation in Compact Extrasolar Planetary Systems
J	Peter Buhler	California Institute of Technology	Konstantin Batygin	Dialing the Love Number of Hot Jupiter HAT-P-13b
	Gongjie Li	Harvard University	Avi Loeb	On the Spin-axis Dynamics of the Earth
	Chris Spalding	California Institute of Technology	Konstantin Batygin	
201 4	Nicholas Attree	Queen Mary, University of London	Carl Murray	Collisional Features in Saturn's F Ring
	Melissa Dykhuis	University of Arizona	Richard Greenberg	Defining the Flora Family: Reflectance Properties and Age
	Natalia Storch	Cornell University	Dong Lai	Chaotic Dynamics of Stellar Spin

201	South American Au	and Winners	in Binaries and the Production of Misaligned Hot Jupiters	
3	South American Aw Cristian Giuppone	IATE-OAC, Cordoba, Aregentina	Alexandre Correia	Stability criteria in real planetary systems
	Andre Izidoro	UNESP, Guaratingueta, Brazil	Othon Winter	Non-uniform distributions of protoplanetary bodies as a pre-requisite for the formation of a low-mass Mars
	Rest of the World A	ward Winners		
	Audrey Compère	University of Namur	Anne Lemaitre	Dynamical explanation for the lack of binary asteroids among the Plutinos
	Katherine Deck	Massachusetts Institute of Technology	Matthew J. Holman	Rapid Dynamical Chaos in an Exoplanetary System
	Aaron Rosengren	University of Colorado, Boulder	Daniel Scheeres	The Milankovitch orbital elements and their application to the long-term orbit evolution of planetary satellites subject to radiation and gravitational perturbations
201 2	Nathaniel Hamlin	University of California, Los Angeles	William Newman	The Role of Magnetic Fields in Relativistic Astrophysical Jets
	Erika Nesvold	University of Maryland, Baltimore County	March Kuchner NASA Goddard	A New Method for Modeling Collisions in Debris Disks
	Christa Van Laerhoven	University of Arizona	Rick Greenberg	Secular Dynamics of the Kepler-11 System
201 1	Rebekah Dawson	Harvard University	Ruth Murray-Clay	Secular Constraints on the Dynamical History of the Solar System
	Daniel Jontof-Hutter	University of Maryland	Douglas Hamilton	Stability of Charged Grains in Planetary Rings
	Sarah Miller	Oxford University and California Institute of	Richard Ellis	The Assembly History of Disk Galaxies: The Tully-Fisher Relation and Dynamical Mass
201 0	Adrian Barker	Technology University of Cambridge	Gordon Ogilvie	Estimates to z=1.3 Internal wave breaking and the fate of planets around solar-type stars
	Justin Comparetta	University of Rochester	Alice Quillen	Instabilities in tidal tails
	Tyler Mitchell	University of Colorado, Boulder	Glen Stewart	A New Method for Modeling Collisions in Debris Disks
	Daniel Tamayo	Cornell University	Joe Burns	The exogenous origin of lapetus' dark material
200 9	Julia Comerford	University of California, Berkeley	Marc Davis	The Dynamics of Black Holes in Galaxy Mergers: A New Observational Technique for Identifying Mergers
	Ashley Espy	Univeristy of Florida	Stanley Dermott	A Dynamical Model of a Still-Forming Zodiacal Dust Band as Constrained by IRAS
200 8	Clement Baruteau	CEA Saclay, France	Frederic Masset	Planetary migration in a self-gravitating gaseous disk
	Althea Moorhead	University of	Fred Adams	Evolution of giant planet orbits in

200	Chris Stark	Michigan University of	Marc Kuchner	a turbulent circumstellar disk Debris Disk Structures Induced by
7		Maryland		Terrestrial-Mass Planets
	Genya Takeda	Northwestern University	Fred Rasio	Secular Evolution of Planets in Binary Systems
200 6	Ivan Minchev	University of Rochester	Alice Quillen	Radial Heating of a Galactic Disk by Multiple Spiral Density Waves
	Kevin Walsh	University of Maryland	Derek Richardson	A Steady-State Model of NEA Binaries Formed via Tidal Disruption
200 5	Ruth Murray-Clay	University of California, Berkeley	Eugene Chiang	A Signature of Planetary Migration: The Origin of Asymmetric Capture in the 2:1 Resonance
	Ke Zhang	University of Maryland	Douglas Hamilton	Dynamics of Neptune's Small Satellites
200 4	Sean Raymond	University of Washington	Tom Quinn	Making other Earths: Dynamical Simulations of Terrestrial Planet Formation and Water Delivery
	Dimitri Veras	University of Colorado, Boulder	Phil Armitage	The Dynamics of Two Planets on Inclined Orbits
200 3	Rory Barnes	University of Washington	Tom Quinn	Planet scattering and exoplanet orbits
	Edwin Sirko	Princeton University	Jeremy Goodman	Galactic Halo
200 2	Matija Cuk	Cornell University	Joe Burns	New Secular Resonances Involving the Irregular Satellites of Saturn
200 1	Milos Milosavljevic Eric Barnes	Rutgers University Louisiana State University	David Merritt Joel Tohline	Dynamics of Galactic Nuclei Characterizing 3D Stellar Orbits with Correlation Integrals
	Britt Scharringhausen	Cornell University	Phil Nicholson	Adaptive Optics Observations of Saturn's Inner Moons
200 0	Joseph Adams	University of Massachusetts		Results on the Structure and Mass of the Pleiades from a 2MASS-USNO Proper Motion Search
	Robert Salow	Ohio University		Self-Consistent Models of Eccentric Nuclear Disks
199 9	Jacob Bak	Ohio University		Properties of Cores Formed by Retrograde Minor Mergers
	Steven Deines	Iowa State University		Apparent Deceleration of the Lunar Mean Motion and the Uncompensated Time Dilation in Timescales
199 8	Elena Grocheva	Pulkovo Observatory		Applications of Probability Theory to the Identification and Analysis of Binary Star Systems
	Jounghun Lee	University of Kansas		The Cosmological Mass Distribution Function in the Zel'dovich Approximation
199 7	Dana Dinescu	Yale University		Tangential Velocities of Southern Globular Clusters: New Results
,	Francis Wilkins	University of California, Berkeley		Analytic Solutions for Non-Axisytnmetric Stellar Wind Bow Shocks and Binary Wind
199 6	Jose Luis Alvarellos	San Jose State University		Collisions Orbital Stability of Hypothetical Distant Satellites of the Jovian

Kevin Grazier University of

California, Los

Angeles

199 Julia Espresate-Eib

5 enschutz

State University of New York, Stony

Brook

Jane Morrison University of

Florida

Planets

Integrators for Long-Term Solar

System Dynamical Simulations

Transient Torque on a

Dissipation-less Annulus at the

2:1 Orbital Resonance

Re-reduction of the Southern

Polar Zone of the Yale Photographic Catalog

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