

Binaries in the Solar System VI

15-17 September 2025
Côte d'Azur Observatory, Nice (France)



OBSERVATOIRE
DE LA CÔTE D'AZUR

UNIVERSITÉ CÔTE D'AZUR



	Monday	Tuesday	Wednesday
09:30	Reception/badges	---	---
09:45		Kevin Walsh	---
10:00	Benoît Carry	Adriano Campo Bagatin	Petr Pravec
10:15	Kate Minker	Jackson Barnes	Magdalena Polińska
10:30	Wen-Han Zhou	John Wimarsson	Andrea Farina
10:45	Ziyu Liu	Wen-Yue Dai	Albert Conrad
11:00	Coffee break		
11:15			
11:30	Rachel Cueva	Sabina Raducan	Raphael Lallemand
11:45			
12:00	Daniel Scheeres	Seth Jacobson	Marin Ferrais
12:15	Luana Liberato	Olivier Barnouin	Flaviane Venditti
12:30	Ozgur Karatekin	Po-Yen Liu	Sean Marshall
12:45	Lunch		
14:00			
14:15	Harold Levison	Matija Cuk	Estela Fernández-Valenzuela
14:30			
14:45	Andy López-Oquendo	Isabel Herreros	W. M. Grundy
15:00	Duncan Lyster	Rahil Makadia	Bryan Holler
15:15	Harrison Agrusa	Patrick Michel	Anne Verbiscer
15:30	PT (1-8)	PT (9-17)	Coffee break
15:45			
16:00	Coffee break and Poster session 1	Coffee break and Poster session 2	Dallin Spencer
16:15			Simon Porter
16:30	Andrea Lopez	Free discussion	Yukun Huang
16:45	Keith Noll		Ketan Kamat
17:00	Jessica Agarwal		Free discussion
17:15	Free discussion		
17:30			
17:45			

Social Dinner

Colors:

RT- Regular Talk

LT - Long Talk

PT - Poster lightning talk

Monday - 15 September

09:30	Reception/badges		
	Session 1 - Dynamics and binaries properties		
10:00	RT 1	Benoît Carry	Evidence for widely-separated binary asteroids recorded by craters on planetary surfaces
10:15	RT 2	Kate Minker	A dynamical dichotomy in large binary asteroids
10:30	RT 3	Wen-Han Zhou	The Binary Yarkovsky Effect: A New Mechanism for Changing the Mutual Orbits of Binary Asteroids
10:45	RT 4	Ziyu Liu	Binary asteroid dynamics and physical property analysis using Gaia astrometry
11:00	Coffee break		
11:15			
11:30	LT 1	Rachel Cueva	Modeling the Dynamical Survivability of Binary Asteroids in the Near-Earth Object Population
11:45			
12:00	RT 5	Daniel Scheeres	Mechanics of multi-component asteroid systems
12:15	RT 6	Luana Liberato	Binary asteroids in Gaia FPR
12:30	RT 7	Ozgur Karatekin	Effects of Internal Density Inhomogeneities on the Dynamics of Binary Asteroid Systems
12:45	Lunch		
14:00			
	Session 2 - Lucy targets and Trojans		
14:15	LT 2	Harold Levison	The Lucy Mission's Observations of Binary Asteroids
14:30			
14:45	RT 8	Andy López-Oquendo	Spectral Characterization of (152830) Dinkinesh System by the Lucy Mission
15:00	RT 9	Duncan Lyster	Modelling Radiance from Lucy's Flyby of Binary Asteroid (152830) Dinkinesh
15:15	RT 10	Harrison Agrusa	The Formation of the Eurybates system
15:30	PT (1-8)		
15:45			
16:00	Coffee break + Poster session 1		
16:15			
16:30	RT 11	Andrea Lopez	Parametric investigation into orbit stability of small Trojan binaries
16:45	RT 12	Keith Noll	Trojan binaries
17:00	RT 13	Jessica Agarwal	Is the binary main-belt comet 288P actually a triple system?
17:15	Free discussion		
17:30			
17:45			

Tuesday - 16 September

Session 3 - Formation of binaries and satellites		
09:45	RT 14	Kevin Walsh Formation of satellites around the largest asteroids
10:00	RT 15	Adriano Campo Bagatin Collisions in the Main Belt may drive binary asteroid formation rather than YORP
10:15	RT 16	Jackson Barnes An assessment of the long-term dynamics of primordial binary planetesimal systems
10:30	RT 17	John Wimarsson Formation of atypically shaped binary asteroid satellites in debris disks via sub-escape-velocity mergers
10:45	RT 18	Wen-Yue Dai Diverse configurations of binary asteroids explained by multi-generation satellites
11:00	Coffee break	
11:15		
11:30	LT 3	Sabina Raducan Asteroid moon formation through low-velocity mergers
11:45	RT 19	Seth Jacobson Binary Formation Via Gravitational Collapse with a soft-sphere Discrete Element Method
12:00	RT 20	Olivier Barnouin Binary and bilobate asteroids formation following catastrophic disruption.
12:15	RT 21	Po-Yen Liu Binary asteroid formation via sudden collisional spin-up
12:30	Lunch	
12:45		
13:00		
14:00	Session 4 - DART/Hera	
14:15	LT 4	Matija Cuk BYORP and Dissipation in Binary Asteroids: Lessons from DART
14:30	RT 22	Isabel Herreros Mass-Wasting Processes and Surface Dynamics on Dimorphos
14:45	RT 23	Rahil Makadia Deflecting binary asteroids: Future considerations highlighted by the Didymos system's heliocentric deflection after DART
15:00	RT 24	Patrick Michel The ESA Hera mission: first rendezvous with a binary asteroid
15:15	PT (9-17)	
15:30		
15:45	Coffee break + Poster session 2	
16:00		
16:15	Free discussion	
16:30		
16:45		
17:00		
17:15		
17:30		
17:45		

Wednesday - 17 September

Session 5 - Observations & physical characteristics

10:00	RT 25	Petr Pravec	Physical parameters of near-Earth and small main-belt binary asteroids
10:15	RT 26	Magdalena Polířska	2478 Tokai - synchronous eclipsing binary asteroid with surprising lightcurves
10:30	RT 27	Andrea Farina	Visible Spectroscopic Analysis of Didymos and Seven Other Binary Near-Earth Asteroids
10:45	RT 28	Albert Conrad	Observation of (93) Minerva satellite Aegis with SHARK-VIS by the Large Binocular Teleacop
11:00	Coffee break		
11:15			
11:30	LT 5	Raphael Lallemand	Stellar Occultations as a Tool to Detect and Characterize Binary Asteroids
11:45	RT 29	Marin Ferrais	Physical characterization of the NEA 1994 AW1 and its satellite from radar observations
12:00	RT 30	Flaviane Venditti	The population of binary and triple near-Earth asteroids observed with the Arecibo planetary radar system
12:15	RT 31	Sean Marshall	Physical Characteristics and Mutual Orbit of Binary PHA 1998 QE2
12:30	Lunch		
12:45			
13:00			
14:00			

Session 6 - TNOs & KBOs

14:15	LT 6	Estela Fernández-Valenzuela	Physical properties of TNO's satellites from stellar occultations
14:30	RT 32	W. M. Grundy	Mutual Orbits of Transneptunian Binaries
14:45	RT 33	Bryan Holler	Probing the formation of trans-Neptunian binaries with JWST/NIRCam
15:00	RT 34	Anne Verbiscer	The Opposition Effect Observed on Trans-Neptunian Binaries
15:15	Coffee break		
15:30			
15:45	RT 35	Dallin Spencer	Toward the LSST Era: Binary TNO Discoveries from DEEP
16:00	RT 36	Simon Porter	Detection of Close Kuiper Belt Binaries with HST WFC3
16:15	RT 37	Yukun Huang	Retrograde TNOs from Binary Disruptions by Giant Planets
16:30	RT 38	Ketan Kamat	Assessment of the Formation of 486958 Arrokoth due to a Single Soft Merger
16:45	Free discussion		
17:00			
17:15			
17:30			
17:45			

Poster Session 1 - Monday - 15 September

PT1 - 1	Kevin Walsh	Using binary asteroid systems to probe the interior physical properties of Near-Earth asteroids
PT1 - 2	Olivier S. Barnouin	A Gravity Tractor Mission Concept to a Binary Asteroid
PT1 - 3	Andrea Magnanini	A Constrained Multi-Arc Orbit Determination Approach for the Hera Radio Science Experiment at the Didymos Binary Asteroid
PT1 - 4	Luisa Fernanda Zambrano Marin	Moons Aplenty: Probing the Shapes and Orbits of Two NEA Multiples, 2020BX12 and 3122 Florence
PT1 - 5	Paolo Tanga	Asteroid binaries: the impact of Gaia
PT1 - 6	Przemysław Bartczak	Densities and their uncertainties in the modelling of synchronous binary systems.
PT1 - 7	Kim Haeun	A Case Study of the Main-Belt Binary Asteroid (7344) Summerfield Using Time-Series Photometry
PT1 - 8	Antoine Choukroun	Early-Development Framework for Detection and Characterization of Binary Asteroid Systems

Poster Session 2 - Tuesday - 16 September

PT2 - 9	Filipe Monteiro	Detection and physical characterization of two binary asteroids
PT2 - 10	Andrea Magnanini	Tidal Dissipation Estimation through Hera Radio Science Experiment at the Didymos Binary Asteroid
PT2 - 11	Camille Chatenet	Transneptunian binaries with MICADO
PT2 - 12	Richard Cannon	Shape modelling of contact binary NEO's with radar and lightcurve observations
PT2 - 13	Aaron Deleon	Using Solveorbit and Mutual Events to Characterize Radar-Observed Binary Systems
PT2 - 14	Masanori Kanamaru	AsteroidThermoPhysicalModels.jl, a thermophysical modeling package applicable to a binary asteroid
PT2 - 15	Stephen R. Schwartz	Boulder reaccumulation in the Didymos system
PT2 - 16	Tony Farnham	High Speed Boulders in the DART Ejecta Field
PT2 - 17	Andre Amarante	The Dynamics Of Dimorphos Reshaping On The Coorbital Particles Around Didymos After The DART Impact