



Final Workshop
NFN Project
„Pathways to Habitability“
SP3 & SP8

12. – 18. Jan. 2020
Hotel Winkler Bad Hofgastein

	Monday	Tuesday	Wednesday	Thursday	Friday
9:15 -		K. Tsiganis	N. Haghhighipour		Liyong Zhou
9:30 - 10:00	Welcome & Introduction "Path"	K. Tsiganis	N. Haghhighipour	A.-S. Libert	Liyong Zhou
10:00 -10:30	R. Dvorak: SP3 - Water	D. Bancelin	C. Burger	G. Voyatzis	Lei Zhou
10:30 - 11:00	E.P.-Lohinger: SP8 - Binaries	C O F F E E			
11:00 - 11:30		C. Lhotka	L. Winkler	N. Georgakarakos	B. Loibnegger
11:30 - 12:00		C. Lhotka	C. Schäfer	M. Zimmermann	Summary
	L U N C H				
15:00 - 15:45	G. Gronchi				
15:45 - 16:15	D. Hestroffer	Workshop 1	Workshop 2	Workshop 3	
16:15 - 16:45	C O F F E E	Exoplanets	Collisions and	GAIA and HERA Missions	End of Workshop
16:45 - 17:15	J. Souchay	Single vs. Binary Stars	SPH simulations	Asteroids & Comets	
17:15 - 17:45	A. Bazzó	Missions	Machine learning	Exocomets	
	D I N N E R				
				WS-Event	

Monday, 13/01/2020

9:30	Welcome
9:35 – 10:00	R. Dvorak & E. Pilat-Lohinger: Introduction „PATH“
10:00 – 10:30	R. Dvorak: SP3-Water
10:30 – 11:00	E. Pilat-Lohinger: SP8 –Binary stars and habitability
11:00 – 11:30	Organisation of the Workshop
12:30	<i>LUNCH</i>
15:00 – 15:45	G. Gronchi: On the geometry of two Keplerian orbits with a common focus: Results and open problems
15:45 – 16:15	D. Hestroffer: Dynamics of asteroids, comets, exocomets
16:15 – 16:45	<i>COFFEE</i>
16:45 – 17:15	J. Souchay: The rotation of asteroids during close encounters : The case of Apophis
17:15 – 17:45	A. Basz6: TBD
18:30	<i>DINNER</i>

Tuesday, 14/01/2020

9:15 – 10:00	K. Tsiganis: Secular phenomena in satellite and primordial asteroid motion
10:00 – 10:30	D. Bancelin: Binary stars systems perturbed by passing stars
10:30 – 11:00	<i>COFFEE</i>
11:00 – 11:45	C. Lhotka: Charged dust close to outer MMRs in the solar system
12:30	<i>LUNCH</i>
15:00 – 18:00	Workshop 1 : Exoplanets Chair: N. Haghighipour Exoplanets in Single and Binary Stars Habitability Importance of Space Missions: CoRoT, Kepler, TESS, CHEOPS
18:30	<i>DINNER</i>

Wednesday, 15/01/2020

- 9:15 – 10:00 N. Haghighipour:
Terrestrial planet formation in modern era: Current state and future direction
- 10:00 – 10:30 C. Burger:
Realistic terrestrial planet formation using an N-body—SPH hybrid code
- 10:30 – 11:00 *COFFEE*
- 11:00 – 11:30 L. Winkler: SPH Catalogue
- 11:30 – 12:00 C. Schäfer: Formation of Ultima Thule
- 12:30 *LUNCH*
- 15:00 – 18:00 Workshop 2 : Collisions
Chair: T.I. Maindl
- SPH simulations
Machine learning
- 18:30 *DINNER*

Thursday, 16/01/2020

- 9:30 – 10:00 A.-S. Libert :
Planets in binary stars and Protoplanetary disks in binary stars
- 10:00 – 10:30 G. Voyatzis:
Dynamics of planetary systems with very heavy planets
- 10:30 – 11:00 *COFFEE*
- 11:00 – 11:30 N. Georgakarakos:
Validating the radial velocity solutions of multi-planet systems: the case of HD34445
- 11:30 – 12:00 M. Zimmermann:
Dynamical Evolution of Planetesimal Disks in Binary Systems
- 12:30 *LUNCH*
- 15:00 – 18:00 Workshop 3: GAIA & Hera Missions
Chairs: D. Hestroffer & K. Tsiganis
- Asteroids and Comets
Exocomets
- 18:30 *DINNER*

Friday, 17/01/2020

- 9:15 – 10:00 L. Zhou: Yarkovsky effect and resonances
- 10:00 – 10:30 Lei Zhou: TBD
- 10:30 – 11:00 *COFFEE*
- 11:00 – 11:30 B. Loibnegger: Comets in extra-solar systems
- 12:30 *LUNCH*
- 18:30 *DINNER*