

Comet Formation Workshop 2022

Program

Day	Time	Speaker	Title
7.6.22	12:30 – 13:30	Arrival & Coffee	
	13:30 – 14:00	Doro Bischoff	Introduction of the workshop and our model
	14:00 – 14:30	Jürgen Blum	Pebbles in Planet Formation and Comets
	14:30 – 15:00	Anders Johansen	The formation of planetesimals in a weakly turbulent protoplanetary disc
	15:00 – 15:30	Discussion	
	15:30 – 16:00	Coffee Break	
	16:00 – 16:30	Hubert Klahr	Progress in numerical simulations of comet formation - From pebble clouds to comet birth clusters
	16:30 – 17:00	Brooke Polak	Simulating Planetesimal Formation by Gravitational Collapse of Pebble Clouds
	17:00 – 17:30	Discussion	
	19:00	Dinner at Parlament	
8.6.22	9:00 – 9:30	Jessica Agarwal	Constraining comet evolution with astronomical methods
	9:30 – 10:00	Johanna Bürger	Sub-mm/mm optical properties of real protoplanetary matter derived from Rosetta/MIRO observations of comet 67P
	10:00 – 10:30	Discussion	
	10:30 – 11:00	Coffee Break	
	11:00 – 11:30	Kevin Lange	Internal transport of volatiles in comets due to radionuclide heating
	11:30 – 12:00	Uri Malamud (online)	Are there any pristine comets? Constraints from pebble structure
	12:00 – 12:30	Discussion	
	12:30 – 13:30	Lunch Break	
	13:30 – 14:00	Alessandro Morbidelli (online)	Comets are fragments I: A re-assessment of the Kuiper belt size distribution for sub-kilometer objects, revealing collisional equilibrium at small sizes
	14:00 – 14:30	Raphael Marschall	Comets are fragments II: Modeling the collisional evolution of the Kuiper belt towards an equilibrium shape consistent with observations
	14:30 – 15:00	Discussion	
	15:00 – 15:30	Coffee Break	
	15:30 – 16:00	Martin Jutzi	Modification of icy planetesimals by early thermal evolution and collisions: Constraints for formation time and initial size of comets and small KBOs

	16:00 – 16:30	Alexander Landeck	Impact experiments
	16:30 – 17:00	Discussion	
	19:00	Dinner at Vielharmonie	
9.6.22	9:00 – 9:30	Irina San Sebastián	Collisional Evolution of Planetesimals
	9:30 – 10:00	Carsten Güttler	Constraints on the microstructure of cometary material
	10:00 – 10:30	Discussion	
	10:30 – 11:00	Coffee Break	
	11:00 – 11:30	Cyrielle Opitom (online)	The composition of cometary ices: clues on comet formation and evolution?
	11:30 – 12:00	Marco Fulle	Comets constrain pebbles' chemistry in the protoplanetary disk
	12:00 – 12:30	Discussion	
	12:30 – 13:30	Lunch Break	
	13:30 – 14:00	Yuri Skorov	Dependence of cometary gas production on the properties of the surface layer of the nucleus
	14:00 – 14:30	Christopher Kreuzig	The CoPhyLab and the L chamber
	14:30 – 15:00	Discussion	
	15:00 – 15:30	Coffee Break	
	15:30 – 16:00	Noria Brecher	Production of ice pebbles
	16:00 – 16:30	Moritz Goldmann	Measurement of thermal conductivity of pebbles
	16:30 – 17:00	Lab Tour	
	19:00	Dinner at Steghaus	
10.6.22	9:00 – 9:30	Mauro Ciarniello	Modeling the seasonal evolution of 67P/Churyumov-Gerasimenko's nucleus color and water loss rate
	9:30 – 10:00	Doro Bischoff	Thermophysical Modelling of Cometary Surface and Activity
	10:00 – 10:30	Discussion	
	10:30 – 11:00	Coffee Break	
	11:00 – 12:00	Conclusion & Discussion	