Workshop on Interstellar Catalysis

	Monday 12 June		Tuesday 13 June		Wednesday 14 June		Thursday 15 June		Friday 16 June
			Chair: Mie Andersen		**Chair: Evine van Dishoeck**		**Chair: Bjørk Hammer**	09:00	*Coffee + check out*
		09:00	**Emmanuel Dartois:** 'Influence of grain growth on CO2 ice spectroscopic profiles - Modelling for dense cores and disks in the context of JWST'	09:00	**Julia Santos:** 'Resonant infrared irradiation of interstellar ices: structural changes and photodesorption'	09:00	**Thanja Lamberts:** 'Atomistic insight into molecular processes on interstellar ice analogs'		**Chair: Harold Linnartz**
				09.30	**Laura Slumstrup:** 'PAHs in CO ice'	09:40	**Rob Garrod:** 'Formation and destruction of complex organic molecules on interstellar ices'	09.20	**Ko-Ju Chuang:** 'Interstellar dust erosion induced by X-ray irradiation of water ice in protoplanetary disks'
11.00	Bus departs from Park Allé 2 - near the water founation between "The Mayor" hotel and the city hall	09:40	**Stefan Bromley:** 'Understanding the properties and abundance of interstellar nanosilicate dust grains from their infrared spectra: Theory, experiment and observation'	10.00	**Laurie Chu**: 'Observations of Water Ice Mixtures in Dense Prestellar and Protostellar Cores'	10:20	*Coffee*	10.00	**Anita Schneiker:** 'Extra-terrestrial formation of larger amino acids from glycine in the interstellar medium'
				10:30	*Coffee and group photograph*	10:40	**Albert Rimola:** 'True chemical catalysis on interstellar grains. Insights from quantum chemical simulations'	10.30	**Alfred Hopkinson:** 'Glycine deuteration and the creation of larger amino acids'
12:00	*Registration*	10:20	**Zeyuan Tang:** 'A computational anharmonic IR database of nanosilicate clusters at astrochemically relevant temperatures'	11:00	**Jes Jørgensen:** 'Ice and Gas: Complementary constraints from submillimeter and infrared observations'	11:20	**Mie Andersen:** 'Machine learning of binding energies'	11.00	**Sergio Ioppolo:** 'Formation and Evolution of COMs in Space: A Laboratory Perspective'
	Note: hotel check-in only after 3 pm	10.50	Discussion (w/coffee) - **Chair Mie Andersen and Ewine van Dishoeck** "Theoretical and Lab based approaches to fitting IR spectra – A Universal Best Practice?"	11.40	Discussion **Chair: Liv Hornekær** "PAHs from gas to ice"	12:00	Discussion **Chair: Bjørk Hammer** "Best theoretical approaches"	11.40	Discussion - **Chair: Harold Linnartz** "Forming the molecular building blocks of life - the big questions going forward"
12:30	*Lunch*	12:30	*Lunch*	12.30	*Lunch*	12:30	*Lunch*	12:30	*Lunch and departure*
	Session 1: Fitting observational IR spectra of solids Chair: Liv Hornekær		**Session 2: Interstellar ices – nucleation, composition, mixing, morphology Chair: Andrew Cassidy**		**Session 3: Interstellar Catalytic Reactions Chair: Ko-Ju Chuang**		**Chair: Sergio Ioppolo**		
14:00	**Ewine van Dishoeck**: 'Recent developments in observations of molecules in gas and ices with JWST and ALMA'	14:00	**Herma Cuppen:** 'Simulation of interstellar ices: from monolayer to meters'	14:00	**Alexei Potapov:** 'Chemistry on cosmic dust surfaces'	14:00	**Pooneh Nazari:** 'Complex organic molecules around protostars'	15.00	Bus arrives back at Aarhus train station
14:40	**Katarina Slavicinska:** 'El Dorado of the ISM: Searching for the Elusive Sulfur in Ices with IR Spectroscopy'	14:40	**Signe Kyrkjebø:** 'H2O and CO2 ice cluster growth on graphite studied with low-temperature scanning tunneling microscopy'	14.40	**Jose Angel Martin Gago:** 'Aliphatic formation in evolved stars and photodestruction in the interstellar medium, a pathway towards aromatics'	14:30	**Francois Dulieu:** 'H and O interaction on (or with ?) water ice and coronene films'		
15.10	**Yuan Chen:** 'Searching for fingerprints of COM ices in the JWST/MIRI spectrum of IRAS 1A'	15.10	**Nikolaj Rønne:** 'Atomistic resolution of nanometer sized CO2 cluster on graphene using machine learning'			15:10	**Jennifer Noble:** 'UV photophysics of aromatics in ices and clusters: the role of morphology on reactivity'		
15.40	*Coffee*	15.40	*Coffee*	15.20	**Dario Campisi:** 'Interaction of PAHs on olivinic grains: A quantum chemistry	15:50	Discussion (w/coffee) - **Chair Sergio Ioppolo** "Ices vs. carbonaceous/silicious surface"		
16.10	**Will Rocha** – intro talk: 'Ices with JWST: what we have learned so far'	16.00	**Niels Munk Mikkelsen:** 'Theoretical IR-spectra of H2O:CO2 ice mixtures'	15.50	*Coffee*				
16:40	**Will Rocha** – demonstration: 'Learning by doing: fitting ice spectra in the era of JWST'	16.30	*Free time / project meetings*			16.30	*Free time / project meetings*		
18:00	*Free time and Hotel Check-In*	17.30	InterCat Managment Meeting						
				17.00	*Walk to Trehøje*				
19:00	*Dinner*	19:00	*Dinner*	19:00	*Dinner - Sølballegaard*	19:00	*Dinner*		
20:30	Exit game	20:30	Posters session						

INTERCAT
Center for Interstellar Catalysis

Danmarks Grundforskningsfond
Danish National Research Foundation

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