

# Posters

Student and PDRA poster presenters are indicated with an asterisk, \*

1	L. Krim	Reduction of C=O functional group through H addition reactions at 10 K: The cases of glyoxal, propanal and methylformate
2	J. Bouwman	Probing the dissociation of interstellar polyaromatic hydrocarbons
3	J. Terwisscha van Scheltinga*	Infrared spectra of complex organic molecules in astronomically relevant ice matrices
4	L. Duc Thong	An updated constraint on variations of the fine-structure constant using wavelengths of Fe II absorption line multiplets
5	P. Sundararajan*	Infrared spectra of protonated and hydrogenated corannulene (C <sub>20</sub> H <sub>10</sub> ) and sumanene (C <sub>21</sub> H <sub>12</sub> ) using matrix isolation in solid para-Hydrogen - Implications to the UIR bands
6	M. Stockett	Non-statistical fragmentation of C <sub>60</sub> and the formation of endohedral defect fullerenes
7	C. Arumainayagam	Photochemistry vs. Radiation Chemistry of Cosmic Ice Analogs
8	O. Shalabiea	N-Bearing Species in Massive Star Forming Regions
9	A. Meijer	On the formation of Urea in the ISM
10	A. Ocaña*	Gas-phase reactivity of CH <sub>3</sub> OH + OH down to 11.7K: Astrophysical implications.
11	S. Gaertner	Nanoscale Structure of Amorphous Solid Water. What Determines the Porosity in ASW?
12	W. Sameera	OH radical on interstellar ices: a quantum chemical study
13	H. Chaabouni	Thermal desorption of amino complex organic molecules. Effect of the substrate
14	N. Ligterink*	A new MALDI technique for the investigation of biomolecules in extraterrestrial environments
15	A. Kar*	Laboratory simulation of light scattering from regolith analogue: Effect of porosity and particle size
16	S. Spezzano*	High resolution rotational spectroscopy of elusive molecules at the Center for Astrochemical Studies (CAS@MPE)
17	V. Herrero	Adsorption of volatile molecules on interstellar carbonaceous dust analogs
18	A. Lemmens*	Anharmonic Aromatics
19	S. Blázquez*	Gas-phase reactivity of CH <sub>3</sub> C(O)CH <sub>3</sub> with OH radicals at interstellar temperatures (T = 11.7-64.0 K) using the CRESU technique
20	N. West*	Low Temperature Gas Phase Reaction Rate Coefficient Measurements: Toward Modeling of Stellar Winds and the Interstellar Medium.
21	R. Brunetto	Asteroid surfaces: irradiation and spectroscopy, in laboratory and in space
22	A. Booth*	Molecular Line Emission from Planet-Forming Disks
23	M. Laverick*	The Belgian repository of fundamental atomic data and stellar spectra (BRASS): Quality assessing atomic data for unblended lines in FGK-type stars
24	G. Wenzel*	Photoprocessing of large PAH cations
25	A. Cassidy*	Spontaneous polarisation charge on CO ice mantles accelerates ion recombination reaction rates in cold dark clouds.
26	M. Dubernet	VAMDC and Data Citation
27	A. Candian	Modelling the Anharmonicity of Polycyclic Aromatic Hydrocarbons

28	G. Tarczay	On the correlation of the abundances of HNCO and NH <sub>2</sub> CHO: Dehydrogenation of formamide by H atoms at low temperatures
29	G. Perotti*	A history of ice and gas: the case of Serpens SVS 4
30	I. Cooke*	Diffusion and Desorption Kinetics in the Apolar Ice Phase
31	X. Yu*	Propagating Atomic Uncertainties to Infer Coronal Plasma Properties
32	M. Martin-Drumel	Laboratory rotational spectroscopy of interstellar isomers
33	E. Micelotta	The importance of being stable: new results about the survival of PAHs and hydrocarbon nanoparticles in extreme astrophysical environments.
34	S. Ioppolo	Selective mid-IR and THz Free-Electron Laser irradiation of water ice probed by FTIR spectroscopy
35	R. Urso*	Ion irradiation of astrophysical relevant frozen mixtures and characterization of organic refractory residues
36	J. Tomassi*	Examining the chemistry Ophiuchi Diffuse Region using a rate sensitivity analysis
37	S. Panchagnula*	Photofragmentation of coronene cations
38	K. Chuang*	H <sub>2</sub> photochemistry in interstellar ices: the formation of HCO in UV irradiated CO:H <sub>2</sub> ice mixtures
39	S. Foschino*	Learning mid-IR emission spectra of polycyclic aromatic hydrocarbon populations from observations.
40	B. Hays*	A new chirped pulse microwave spectrometer dedicated to the measurement of reaction product branching ratios for astrochemistry
41	S. Thompson	Amorphous Mg-Fe silicates via sol-gel: method, structure, spectroscopy and thermal evolution
42	E. Sciamma-O'Brien	The Titan Haze Simulation Experiment: Investigating Titan's Low-temperature Atmospheric Chemistry in a Pulsed Plasma Jet Expansion
43	E. Niemczura	Heavy element abundance in the spectrum of the primary component in an extremely rare eclipsing binary HD66051
44	J. Fillion	Water ice photodesorption by VUV photons and X-rays investigated with synchrotron radiation
45	J. Roser	PAH Clusters as Interstellar Very Small Grains
46	C. Materese	Laboratory Studies of the Radiolytic Destruction of Nucleobases in Icy Environments
47	R. Martin-Domenech*	Formation of NH <sub>2</sub> CHO and CH <sub>3</sub> CHO upon UV processing of interstellar ice analogs
48	W. Rocha*	Decomposition of infrared ice features using genetic modelling algorithms
49	M. Rachid*	Galactic and Extragalactic ices with JWST
50	J. He*	Laboratory investigation of the formation of methoxymethanol in the CO-rich layer of the ice mantle
51	S. Zeegers*	Modelling the properties of interstellar dust using the Si K-edge
52	A. Ricca	Zigzag and armchair PAH subpopulations as probes of the local radiation environment
53	M. Bulak*	A quantitative approach to measuring VUV-triggered processes in icy (solid-state) COMs
54	P. Rimmer*	Prebiotic chemistry under a simulated young sun

55	I. Endo*	Quenched Nitrogen-included Carbonaceous Composite (QNCC): a powerful candidate of the carriers of the UIR bands in classical novae
56	F. Salama	Laboratory Astrophysics Studies with the COSmIC Facility at NASA Ames
57	S. Bejaoui*	Electronic Spectroscopy of PAHs and PAH derivatives in Supersonic Jet. Astrophysical Implications
58	D. Gupta*	Vacuum Ultraviolet photoabsorption of molecules with astrochemical and astrobiological relevance: Benzonitrile and Hydroxylamine
59	R. Garrod	Microscopic simulations of laboratory and interstellar ice structure and chemistry
60	H. Velázquez Navarro*	Fragmentation of neutral PAHs upon UV irradiation
61	R. James*	Does the initial mixing ratio of an interstellar ice analogue affect the formation of products when it is processed with electrons?
62	J. Mariñoso Guiu*	How to correctly model IR spectra of nanoclusters of astronomical interest
63	P. Ghesquiere*	Collision of centimeter-size water ice particles: impact of the surface roughness.
64	A. Heays*	Gas-phase UV cross sections of radicals
65	F. Simonsen*	H <sub>2</sub> Catalysis Through Superhydrogenation of Interstellar Polycyclic Aromatic Hydrocarbons
66	C. Rab*	The chemistry of episodic accretion
67	A. Dawes	Laboratory spectroscopy: from macroscopic molecular films to microscopic icy grains
68	J. Franz	Investigation of rotational state-changing collisions of CCN <sup>-</sup> ions with helium
69	C. Rab*	The gas structure of the HD 163296 planet-forming disk - Gas gaps or not?
70	E. Vchkova Bebekovska*	The latest spectral analysis on asteroids at NAO Rozhen
71	G. Apostolovska	Asteroid collisions as origin of debris discs - asteroid shape reconstruction from BNAO Rozhen photometry
72	A. Hojaev	Census and Modeling of Molecular and Gas-Dust Clouds in Galaxies
73	J. Grumer*	A final-state resolved merged-beam experiment of mutual neutralization of Li <sup>+</sup> and D <sup>-</sup> at stellar photospheric temperatures at DESIREE
74	C. Shingledecker*	Radiation Chemistry in Astrochemical Models: From the Lab to the ISM
75	T. Suhasaria*	H atom irradiation of formamide ice at 12 K
76	G. Pantazidis*	Deuteration of C <sub>60</sub> on a Highly Oriented Pyrolytic Graphite surface
77	B. Jiang	Are SiO molecules the seed of silicate dust around evolved stars?
78	A. Miyazaki*	Surface diffusion of OH radical on amorphous solid water
79	J. Li	The origins of two distinct halo populations revealed from the nucleosynthesis of barium
80	C. Walsh	Complex organic molecules tracing the comet-building zone in protoplanetary disks
81	L. Gavilan Marin*	Low-temperature condensation of polyaromatic carbon grains from PAHs

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82	D. Paardekooper*	Plume profile studies of Nanosecond laser-induced desorption of water ice - amorphous versus crystalline -
83	D. Gupta*	Kinetics of the reaction between the CN radical and methanol at low temperatures using the CRESU technique
84	N. Todorovic	Natural transportation routes in the Solar System

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