

Monday, April, 8th

- 09:30 – 10:00 Welcome and registration
- 10:00 – 11:00 Introduction to mm and IR astronomy
Asunción Fuente, Centro de Astrobiología, CAB, CSIC/INTA
- 11:00 – 11:30 Coffee break
- 11:30 – 12:30 Single-dish observations at (sub-)mm wavelengths
Carsten Kramer, Institut de Radioastronomie Millimétrique, IRAM
- 12:30 – 13:30 Interferometry at (sub-)millimeter wavelengths: NOEMA, ALMA
Alvaro Sánchez-Monge, Institut de Ciències de l'Espai, ICE, CSIC/IEEC
- 13:30 – 15:30 Lunch
- 15:30 – 16:30 Deriving physical and chemical properties from mm observations
David Navarro-Almaida, Université Paris-Saclay, Université Paris Cité, CEA, CNRS
- 16:30 – 17:30 JWST observations: ice composition
Angèle Taillard, Centro de Astrobiología, CAB, CSIC/INTA

Tuesday, April, 9th

- 09:00 – 10:00 Dust astrophysics: extinction curve, Spectral energy distributions
Pablo Rivière Marichalar, Observatorio Astronómico Nacional, OAN-IGN
- 10:00 – 11:00 Imaging the dust: Herschel, NIKA2
Carsten Kramer, Institut de Radioastronomie Millimétrique, IRAM
- 11:00 – 11:30 Coffee break
- 11:30 – 12:30 Dust polarization and magnetic fields
Josep M. Girart, Institut de Ciències de l'Espai, ICE, CSIC/IEEC
- 12:30 – 13:30 Sample return missions in our understanding of the primordial chemistry preserved in undifferentiated asteroids and comets
Josep M. Trigo, Institut de Ciències de l'Espai, ICE, CSIC/IEEC
- 13:30 – 15:30 Lunch
- 15:30 – 16:30 Planetary atmospheres
Luisa M. Lara, Instituto de Astrofísica de Andalucía, CSIC
- 16:30 – 17:30 Students Presentations (I)

Wednesday, April, 10th

- 09:00 – 10:00 Star formation (I): Elemental abundances
Asunción Fuente, Centro de Astrobiología, CAB, CSIC/INTA
- 10:00 – 11:00 Star formation (II): Low mass protostars (Class 0/I)
Jaime Pineda, Centre for Astrochemical Studies, Max-Planck-Institute for Extraterrestrial Physics
- 11:00 – 11:30 Coffee break
- 11:30 – 12:30 Star formation (III): Massive star formation
Alvaro Sánchez-Monge, Institut de Ciències de l'Espai, ICE, CSIC/IEEC
- 12:30 – 13:30 Star formation (IV): Proto-planetary disks
Pablo Rivière Marichalar, Observatorio Astronómico Nacional, OAN-IGN
- 13:30 – 15:30 Lunch
- 15:30 – 16:30 Neural networks in astrochemistry
Andrés Asensio, Instituto de Astrofísica de Canarias, IAC, CSIC
- 16:30 – 17:30 Chemistry in numerical simulations
David Navarro Almaida, Université Paris-Saclay, Université Paris Cité, CEA, CNRS

Thursday, April, 11th

- 09:00 – 10:00 Chemical models
Angèle Taillard, Centro de Astrobiología, CAB, CSIC/INTA
- 10:00 – 11:00 Gas-phase chemistry: ab initio calculations
Octavio Roncero, Instituto de Física Fundamental, CSIC
- 11:00 – 11:30 Coffee break
- 11:30 – 12:30 Quantum chemistry on interstellar grains
Albert Rimola, Universitat Autònoma de Barcelona
- 12:30 – 13:30 Simulating interstellar ice in laboratory: UV and X-ray desorption rates
Guillermo Muñoz-Caro, Centro de Astrobiología, CAB, CSIC/INTA
- 13:30 – 15:30 Lunch
- 15:30 – 16:30 Simulating interstellar ice in laboratory: reactivity
Rafael Martín Doménech, Centro de Astrobiología, CAB, CSIC/INTA
- 16:30 – 17:30 Students presentations (II)

Friday, April, 12th

- 09:00 – 10:00 Numerical simulations: Molecular clouds, fragmentation, collapse
Ugo Lebreuilly, Université Paris-Saclay, Université Paris Cité, CEA, CNRS
- 10:00 – 11:00 Numerical simulations: Disk formation
Ugo Lebreuilly, Université Paris-Saclay, Université Paris Cité, CEA, CNRS
- 11:00 – 11:30 Coffee break
- 11:30 – 12:30 Models of planet formation
Diego Turrini, INAF – Osservatorio Astrofisico di Torino
- 12:30 – 13:30 Cometary chemistry
Maria Drozdovskaya, Physikalisch-Meteorologisches Observatorium Davos und Weltstrahlungszentrum (PMOD/WRC)
- 13:30 – 15:30 Lunch
- 15:30 – 16:30 Life on the dark side, implications for the concept of habitability
Ricardo Amils, Centro de Astrobiología, CAB, CSIC/INTA
- 16:30 – 17:30 Poster prize

Students presentations (7 min) (I) : Nashanty Brunken, Diego Cuenda Muñoz, Julian José Miranzo Pastor, Antoine Espagnet, Patricia Fernández Ruiz, Francisco José García Izquierdo, Pau Grèbol-Tomàs, Claudio Hernández-Vera

Students presentations (7 min) (II) : Seonjae Lee, Antonio Martínez-Henares, Carlos del Burgo Olivares, Wiebke Riedel, Marten Scheuck, Katerina Slavicinska, Alejandra Traspas Muiña, Ann Mary Wilson, Enyi Zhu