

Tuesday 8/7/2025

8h30 -10h15	Registration & Coffee	
10h15-10h25	Opening session	Chairman : S. Cordier
10h25-11h15	Invited talk: Stephanie Dehnen Multimetallic Clusters: Atomically Precise Nanoobjects with Uncommon Properties	
11h15-11h40	Thomas Fässler Intermetalloid Clusters in Neat Solids and in Solution	
11h40-12h05	Tatsuya Higaki An Icosahedral [Fe ₅₅] Paired with an Octahedral [Fe ₆]	
12h05-12h30	Stefano Zacchini Molecular Alloy Carbonyl Nanoclusters	
12h30-14h	Lunch & poster session	
14h00-14h50	Keynote Lecture: Jean-Yves Saillard Electronic structure of atom precise Ag-rich and Cu-rich superatoms and supermolecules	Chairman : R. Gautier
14h50-15h15	Franck Wagner Bonding architecture of delocalized bonding in clusters and intermetallic compounds from DR analysis	
15h15-15h40	Yao Aimin Exploring New Properties of Molybdenum Cluster Chalcogenides via First-Principles Calculations	
15h40-16h05	Helene Gerard Modelling growth and dissolution of metallic copper cluster in the framework of nanoparticles chemistry	
16h05-16h45	Coffee break & poster session	
16h45-17h10	Kaplan Kirakci Polymer-Based Delivery Strategy for Mo ₆ Clusters Radio/Photosensitizers	Chairwoman: M. Feliz
17h10-17h35	Marian Amela-Cortes Nanocomposite based on metal atom cluster for light-driven applications	
17h35-18h00	Tomas Pribyl Molybdenum Cluster Nanoparticles for Radiodynamic Cancer Cell Therapy	
18h00-18h25	Eric Fuster-Navarro Antibacterial Resins with Photoactive Octahedral Molybdenum Iodide Clusters	
18h25-21h30	Poster session - Welcome drink and local specialties	

Wednesday 9/7/2025

8h30-9h20	Invited talk: Nanfeng Zeng Surface Coordination Chemistry of Metal Nanomaterials	Chairman : X. Roy
9h20-9h45	Kuan-Guan Liu Rearrangement of Surface Coordination Structures of Silver Nanoclusters and Its Influence on the Luminescent Properties of Nanoclusters	
9h45-10h10	Lisa Szczepura Reactivity of terminal ligands coordinated to octahedral M ₆ cluster cores	
10h10-10h35	Rosa Llusar Activation of H-H and H-Si Bonds Using Molybdenum Sulfide Cluster Catalysts	
10h35-11h15	Coffee Break & poster session	
11h15-11h40	Kamil Lang Photocatalytic Potential of Octahedral Molybdenum Clusters: From Design to Application	Chairman : H.-J Meyer
11h40-12h05	Kurt Kpoton Clusters-polyoxometallates eco-compatible tandems for the production of hydrogen: from molecular assemblies to the device	
12h05-12h30	Jun Zhou Atomically precise palladium clusters and nanoparticles as catalysts for hydrogen production and hydrogenation reactions using organocobalt complexes	
12h30-14h	Lunch & poster session	
14h00-14h25	Biswarup Pathak Nanocluster Catalysis: Breaking Conventions Through Machine Learning and Artificial Intelligence	Chairwoman: M. Amela-Cortes
14h25-14h50	Krishna Haldar Unraveling the Role of Orbital Interaction in the Electrochemical HER of the Trimetallic AgAuCu Nanobowl Catalyst	
14h50-15h15	Marta Feliz Graphene Decorated with Mo ₃ S ₇ Clusters for Gas Sensing	
15h15-15h40	Jaroslav Zelenka Enigmatic formation of hydrogen peroxide from molecular hydrogen by human metalloenzymes	
15h40-16h05	Jhon Sebastian Hernandez Niño Visible-Light-Driven Degradation of Phenolic Compounds by Mo ₆ I ₁₂ /g-C ₃ N ₄ Systems	
16h05-16h45	Coffee break	
16h45-17h10	Sen Tapasi Probing the fluorecence intermittency of single metal nanoclusters	Chairwoman: L. Szczepura
17h10-17h35	Yann Molard Emissive hybrid organic-inorganic nanocomposites integrating octahedral M ₆ nanoclusters	
17h35-18h00	Rajarshi Sinha Roy Generation of Orbital Magnetism by Light in Atomically Precise Metal Clusters	
18h00-18h25	Adele Renaud Octahedral Metal Cluster-based Building Blocks: Towards the Engineering of New Ambipolar Photoelectrodes for Solar Energy Conversion	

Thursday 10/7/2025

8h30-9h20	Keynote Lecture: Xavier Roy Next Level Supratomic Materials	Chairman : N. Zheng
9h20-9h45	Takashi Yoshimura Tuning Redox Potentials of Hexarhenium Complexes	
9h45-10h10	Clement Falaise A Journey into Super-Reduction of Wells-Dawson polyoxotungstate: Electron Storage in Metal–Metal Bonds	
10h10-10h35	Chen-Wei Liu Reactivities of Copper Hydride Clusters with Terminal Alkynes: En Route to 2-Electron Supratom	
10h35-11h15	Coffee Break	
11h15-11h40	Stephane Cordier Exploring the Structure–Property Relationships in Transition Metal Clusters (Nb ₆ , Ta ₆ , Mo ₆) for Energy Applications	Chairman: T. Fässler
11h40-12h05	Martin Köckerling Nb ₆ /Ta ₆ Metal Atom Cluster Materials: Facile Large Quantity Preparation and New Materials.	
12h05-12h30	Hao Yuan Record-high hyperpolarizabilities in atomically precise single metal-doped silver nanoclusters	
12h30-14h	Lunch	
14h00-14h50	Invited talk: Torsten Hegmann The role of shape and solute-solvent compatibility on the efficacy of chirality transfer from nanomaterials to liquid crystals	Chairman: Y. Molard
14h50-15h15	Jeanne Rebours Sustainable circularly polarized emission from cluster-embedded bent-core liquid crystals systems for advanced optoelectronic applications	
15h15-15h40	Hans-Christian Weissker Optical Properties of Gold Clusters Following Surface-Modification by Hydrogen Exposure	
15h40-16h05	Marianne Prévôt Shaping Light: Bent-Core Liquid Crystals and Clustomesogens for High-Performance Circularly Polarized Devices	
16h05-18h00	Visit of Rennes / free time	
18h00-19h30	Reception at Rennes City Hall	
19h30-22h00	Colloquium banquet at "La Taverne"	

Friday 11/7/2025

8h40-9h20	Special Keynote lecture: Roland Fischer Living Libraries of Intermetallic Superatoms	Chairwoman: R. Llusar
9h20-9h45	Jürgen Meyer Niobium Oxyiodide Cluster Compounds from Heterogeneous Solid-State Reactions by means of Non-Conventional Reduction	
9h45-10h10	Manfred Scheer Polypnictogen ligand complexes as building blocks for supramolecular aggregations	
10h10-10h35	Arnaud Tillet Supramolecular self-assembly of nanotubes based on inorganic nano-ions and organic macrocycles	
10h35-11h15	Coffee Break	
11h15-11h40	Jianyu Wei Theoretical Analysis of Bonding and Electronic Structure of Heteroatom Doped Coinage Metal Superatomic Nanoclusters	Chairwoman: H. Gerard
11h40-12h05	Regis Gautier Thermoelectric Molybdenum Sulfides: A Theoretical Study	
12h05-12h15	Concluding	