

ECM34



Monday, August 26, 2024 - Friday, August 30, 2024

Padova

Scientific Program

MS01 - Nucleic acids - protein interactions

MS02 - Hot structures

MS3 - Serial crystallography and dynamics/room temperature

MS4 - AI, software developments and Machine learning applied to MX and CryoEM

MS5 - Infectious and Neglected diseases

MS6 - Structural studies in Enzymology

MS7 - MX and cryo-EM membrane Protein structures

MS8 - Nucleation and crystal growth/Chaperones and crysallization

MS9 - Large assemblies - using X-rays, cryo-EM and Tomography

MS10 - Structural-based drug discovery

MS11 - New trends in quantum crystallography

MS12 - Correlation between quantum crystallography and crystal dynamics

MS13 - Molecular structure and chemical bonding in the view of quantum crystallography

MS14 - Aperiodic order and complex superstructures

MS15 - ED small waves, big ponds – Biomolecules and macromolecules

MS16 - Method development and instrumentation in the world of electron diffraction

MS17 - Minerals and inorganic materials: state of art and new perspectives

MS18 - Crystal-chemistry of minerals in the Universe: genesis, phase stability, and planetological implications

MS19 - Advanced and new techniques to study inorganic crystal structures

MS20 - When can ED challenges XRD in small molecule crystallography?

MS21 - Electron diffraction joining forces with quantum crystallography towards materials science applications

MS22 - AI and Automation in data collection and processing

Ms23 - Future of light sources and XFEL

MS24 - Advances in Powder Diffraction Instrumentation

MS25 - In situ and Operando diffraction

MS26 - Chirality: Meeting point of crystallography, chemistry and topology

MS27 - High Pressure Crystallography: Exploring Structure and Method Development at Extreme Conditions

MS28 - Structural characterization of Energy Harvesting and Conversion Materials

MS29 - Structural characterization in Functional materials

MS30 - Porous functional materials

MS31 - Noncovalent interactions in structure design

MS32 - Advanced materials design with (co)crystal engineering: synthesis, crystal growth, structure and function

MS33 - Correlate molecular structure with materials properties

MS34 - Applications of 3D-PDF

MS35 - Methods for diffuse scattering analysis from powder and single-crystals

MS36 - Crystallography and cultural heritage

MS37 - How to address questions, doubts and struggles of a young crystallographer

MS38 - Things we no longer need to know – or do we?

MS39 - Common mistakes and problems in using black boxes

MS40 - Techniques to discover polymorphism: mechanochemistry, crystal growth and others

MS41 - Approaches and tools for learning crystallography efficiently and avoiding misconceptions

MS42 - Structural characterization in functional materials - Part II

MS43 - What I gained from Erice

MS44 - Inclusion

MS Plenary

MS Keynote

Crystallography in School