



Symmetry 2025 - The 5th International Conference on Symmetry

List of Posters

Day 2- Saturday, 17 May 2025 | 17:30-18:30



Session	Name	Title
Physics	TAKAHIRO TANAKA	Large gauge transformation in cosmological perturbation theory
Physics	Jesus Nain Camacho Hernandez	Estimating the Effective Permittivity and Effective Thermal Conductivity of Materials with Rotationally Symmetric Inclusions
Physics	Hong-Fang Gong	QCD topology and axion properties in an isotropic hot and dense medium
Physics	Shupeng Wang	Constraints on high-density equation of state from compact object observations
Physics	Haiming Xu	Full electrical manipulation of perpendicular magnetization in [111]-orientated Pt/Co heterostructure enabled by anisotropic epitaxial strain
Physics	Constantinos Challoumis	Desmos Gravitational Laws
Mathematics	Jiahui Yu	He's Frequency Formulation for free vibration of a Tapered beam
Mathematics	Ioannis Michos	Combinatorial comparison of trace monoids via their dependence graph symmetries
Mathematics	Lorentz Jäntschi	More details on two solutions with ordered sequences for binomial confidence intervals
Mathematics	Shi-Fang Yuan	On solutions of a kind of quaternion tensor equation
Mathematics	Constantinos Challoumis	Trisection of the angle
Chemistry	Tianlyu Xu	Response of the Mechanical and Chiral Character of Ethane to Ultra-Fast Laser Pulses
Chemistry	Huang Yue Ming	Simple Primary Amino Amide Organocatalyst for Asymmetric Hetero Diels–Alder Reaction of Isatins with Enones
Chemistry	Jiawen Kong	Ultra-fast laser pulses as a probe of electron dynamics: A next generation QTAIM perspective
Chemistry	Jingqin Tu	Chirality reversal with the carrier-envelope phase: A next generation QTAIM interpretation
Chemistry	Lizhi Tang	Pump and Probe Laser Pulses for Ultra-Fast Phenomena in Superconducting Im-3m H3S
Chemistry	Lizhi Tang	A Geometric Berry Phase Angle Induced in Im-3m H3S at 200 GPa by Ultra-Fast Laser Pulses
Chemistry	Tianlyu Xu	Tools for Overcoming Reliance on Energy-Based Measures in Chemistry: a Tutorial Review
Engineering	Ozgur Karakilinc	Investigation of Self-Collimation Properties in Nonlinear, Low-Symmetry Photonic Crystal Structures
Computer Science	Vasilios Raptis	Symmetric Trees, Lexicographic Ordering, Scale Invariance, and Universal Formulas for Quantum Circuits

Computer Science	Jiayi Liu	ASTSA: an Adaptive Synergistic Tree Seed Algorithm for Complex Optimization Problems
Computer Science	Lingna Li	An Enhanced TSA-PNN (Tree Seed Algorithm–Probabilistic Neural Network) Model for the Identification of Medical Insurance Fraud
Computer Science	Lingna Li	Multi-threshold CT Image Segmentation and Lung Cancer Detection Based on a Novel Alpaca Optimization Algorithm
Computer Science	Shunnain Luo	A Visual Chain of Thought System Based on the Concept of Symmetry: Solving the Dilemma of Complex Reasoning in Large Language Models