November 20 (Wed) **15:20-17:20**
Poster Session ***Poster size: A0 (board width 900 mm)***

Mathematics

1-1 **Toky Andriamanalina** (University of Potsdam)
Unknotting 3-periodic entanglements of filaments and nets

1-2 **Martha Dunham** (Independent Researcher)
Macro Scale Gyroid Applications

1-3 **Hou-Hsun Ho** (National Taiwan University)
Discrete Gyroid Structures: Defect-Driven Tiling and Analogies with Zeolite Frameworks

1-4 **Sonia Mahmoudi** (Tohoku University)
Construction and Classification of Hyperbolic Diagrams and their Triply Periodic Weavings & Polycatenanes via Mapping to the Gyroid

1-5 **Yukihiro Nishikawa** (Kyoto Institute of Technology)
Curvature Estimation based on Distance Conversion of a 3D image

Physics

2-1 **Greg Grason** (University of Massachusetts Amherst)
Design economy and assembly of size-programmable triply-periodic polyhedra from addressable nanotriangles

2-2 **Matthias Himmelmann** (University of Potsdam)
Exploring the Homogeneity of Disordered Minimal Surfaces

2-3 **Suman Kulkarni** (University of Pennsylvania)
On characterizing the topology and geometry of imperfect gyroids.

2-4 **Vira Raichenko** (University of Potsdam)
Cocoon Microstructures through the Lens of Topological Persistence

2-5 **Hideaki Tanaka** (Sango Co., Ltd.)
Programmable Self-Assembly of Nanoplates into Bicontinuous Nanostructures

2-6 **Kana Yamamoto** (Kindai University)
Hexagulation numbers: magic numbers on the gyroid surfaces

Chemistry

3-1 **Noriyoshi Arai** (Keio University)
Molecular understanding of mechanical properties of Archimedean tiling through star terpolymer thin film

3-2 **Yifei Cheng** (Fudan University)
Understand the Relative Stability of Single-Gyroid to Double-Gyroid in AB-type Block Copolymer

3-3 **Qingshu Dong** (Fudan University)
Hybrid Structures Formed by Asymmetric ABC-type Block Copolymers

3-4 **Takashi Honda** (Ochanomizu University)
Molecular Weight Dependence of Domain Spacing in the Double Gyroid Structure of ABC Triblock Copolymers

3-5 **Shuto Ito** (Biomatter Lab)
Polymer Membrane Tensegrity: Inverse Design of Polymer Films Morphing into Arbitrary 3D Surfaces with Digital Photopatterning Technique

3-6 **Shinichi Sakurai** (Kyoto Institute of Technology)
Changes in two-dimensional small-angle X-ray scattering pattern by uniaxial stretching of a double-gyroid block copolymer

3-7 **Qingliang Song** (Fudan University)
Hierarchical Self-assembly Behaviors of ABC-Type Bottlebrush Copolymers

3-8 **Jiro Suzuki** (High Energy Accelerator Research Organization (KEK))
Gyroid Interface from Symmetric ABCD Tetrablock Quarterpolymers by Monte Carlo Simulation

3-9 **Naoya Torikai** (Mie University)
Interfacial Segment Distribution of a Diblock Copolymer in a Polymer Thin Film

3-10 **Xintong You** (Fudan University)
Hierarchical gyroid structures in frustrated ABC triblock copolymers

3-11 **Xiangbing Zeng** (University of Sheffield)
Stage-wise Pre-assembly in Melt Prior to Liquid Crystals

Biology

4-1 **Chisaki Kitajima** (Kyushu University)
Structures made by termites and spiders

4-2 **Allan Millsteed** (Murdoch University)
Order and disorder of the microstructures of the Cidaris rugosa sea urchin stereom

4-3 **Ryosuke Ohnuki** (Tokyo University of Science)
Chirality of gyroid-type photonic crystals in the scale of Teinopalpus Imeperialis

Engineering

5-1 **Abdulaziz Alsenafi** (Kuwait University)
Non-Fourier Computations of Heat and Mass Transport in Nanoscale Solid-Fluid Interactions Using the Galerkin Finite Element Method

5-2 **Ziad Saghir** (Toronto Metropolitan University)
Heat enhancement using Gyroid Structure and metal foam for Different Porosity and Cooling fluids: Experimental and Numerical Approaches

5-3 **Kaixin Yan** (Beihang University)
Coupling Additive Manufacturing with Triply Periodic Minimal Surface Enable Next-Generation Aero-Engine Heat Exchangers

5-4 **Takumi Yano** (Kindai University)
Sound Insulation Properties of Gyroids at Normal Incidence