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)

<u>Discrete Gyroid Structures: Defect-Driven Tiling and Analogies with Zeolite</u> <u>Frameworks</u>

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 Gregory Grason (University of Massachusetts Amherst)

<u>Design economy and assembly of size-programmable triply-periodic polyhedra from addressable nanotriangles</u>

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)

<u>Molecular understanding of mechanical properties of Archimedean tiling through star</u> <u>terpolymer thin film</u>

3-2 Yifei Cheng (Fudan University)

<u>Understand the Relative Stability of Single-Gyroid to Double-Gyroid in AB-type Block</u> Copolymer

3-3 Qingshu Dong (Fudan University)

Hybrid Structures Formed by Asymmetric ABC-type Block Copolymers

	Takashi Honda (Ochanomizu University)
	Molecular Weight Dependence of Domain Spacing in the Double Gyroid Structure of
	ABC Triblock Copolymers
	Shuto Ito (Biomatter Lab)
	Polymer Membrane Tensegrity: Inverse Design of Polymer Films Morphing into
	Arbitrary 3D Surfaces with Digital Photopatterning Technique
	Shinichi Sakurai (Kyoto Institute of Technology)
	Changes in two-dimensional small-angle X-ray scattering pattern by uniaxial stretch
	<u>of a double-gyroid block copolymer</u>
	Qingliang Song (Fudan University)
	<u>Hierarchical Self-assembly Behaviors of ABC-Type Bottlebrush Copolymers</u>
	Jiro Suzuki (High Energy Accelerator Research Organization (KEK))
	Gyroid Interface from Symmetric ABCD Tetrablock Quarterpolymers by Monte Carlo Simulation
	Naoya Torikai (Mie University)
	Interfacial Segment Distribution of a Diblock Copolymer in a Polymer Thin Film
	Xintong You (Fudan University)
	Hierarchical gyroid structures in frustrated ABC triblock copolymers
	Xiangbing Zeng (University of Sheffield)
	Stage-wise Pre-assembly in Melt Prior to Liquid Crystals
o,	gy
	Chisaki Kitajima (Kyushu University)
	Structures made by termites and spiders
	Allan Millsteed (Murdoch University)
	Order and disorder of the microstructures of the Cidaris rugosa sea urchin stereom
	Ryosuke Ohnuki (Tokyo University of Science)
	Chirality of gyroid-type photonic crystals in the scale of Teinopalpus Imeperialis
in	neering
	Abdulaziz Alsenafi (Kuwait University)
	Non-Fourier Computations of Heat and Mass Transport in Nanoscale Solid-Fluid
	Interactions Using the Galerkin Finite Element Method
	Ziad Saghir (Toronto Metropolitan University)
	Heat enhancement using Gyroid Structure and metal foam for Different Porosity and
	Cooling fluids: Experimental and Numerical Approaches
	Kaixin Yan (Beihang University)
	Coupling Additive Manufacturing with Triply Periodic Minimal Surface Enable Next-
	Generation Aero-Engine Heat Exchangers
	Takumi Yano (Kindai University)

Sound Insulation Properties of Gyroids at Normal Incidence