8th Warsaw School of Statistical Physics
Poster titles and authors

1. **Inertia-induced mechanism for giant enhancement of transport generated by active fluctuations**

   Karol Białas and J. Spiechowicz

2. **Unsteady flow effects in cilia-mediated transport**

   Rafał Błaszkiewicz, Margot Young, Albane Théry, Talia Becker Calazans, Arnold J.T.M. Mathijssen and Maciej Lisicki

3. **Elastic Adaptation of Streamer Biofilms to Reversible Flow Patterns**

   Michał Czerepaniak, Piotr Szymczak and Maciej Lisicki

4. **Sediment pattern formed by random walks**

   Olivier Devauchelle, M. Chaigne, E. Lajeunesse and P. Popović

5. **Dynamics of quantum droplets in circular potential**

   Jan Gers and M. Pylak

6. **Classification of algebraic tangles**

   Bartosz Ambroży Greń, Joanna Ida Sułkowska and Boštjan Gabrovšek

7. **Modelling ecological corridors in Poland**

   Bartosz Ambroży Greń, Ewa Siedlarczyk, Borys Jurgiel, Kamila Plis, Tomasz Borowik and Michał Żmihorski

8. **Monte Carlo-Based Simulation of Cellular Behavior and Oncogenesis**

   Mateusz Jakielaszek, Beata Brzozowska and Krzysztof Wojciech Fornalski

9. **Ballistic macroscopic fluctuation theory via mapping to point particles**

   Jitendra Kethepalli, Andrew Urilyon, Tridib Sadhu and Jacopo De Nardis

10. **Formation of Rhythmic Band Structures in Agates**

    Jan Kossacki and P. Szymczak

11. **Hybrid Sampling Method for BEC Fluctuations**

    Maciej B. Kruk, P. Kulik, K. Pawłowski, P. Deuar and K. Rzażewski

12. **Investigating the Leverage Effect on the Polish Stock Market Using Principal Regression Analysis**

    Magdalena Latała and T. Gubiec

13. **Hydrodynamics of nearly integrable systems**

    Maciej Łebek and Miłosz Panfil

14. **Cauliflower shapes of bacterial clusters in the off-lattice Eden model**

    Szymon Kaczmarczyk, Filip Koza, Damian Śnieżek and Maciej Matyka

15. **How to (numerically) calculate tortuosity in porous media?**

    Maciej Matyka, Damian Śnieżek, Sahrish Naqvi, Dawid Strzelczyk and Krzysztof Graczyk

16. **Stokes flow with odd viscosity around a single sphere**

    Laura Meissner

17. **Studying the diffusion coefficients of *E. coli* colonies**

    Franciszek Myck, J. Słomka and M. Lisicki

18. **Effective mass of soft spheres, classical and quantum (and no equivalence)**

    Krzysztof Myśliwy, Piotr Wysocki and K. Jachymski

19. **Critical Casimir Levitation of Colloid Above a Bull's-Eye Pattern**

    Piotr Nowakowski, N. Farahmad Bafi, G. Volpe, S. Kondrat and S. Dietrich

20. **Cellular Potts Model Simulation of VEGF-Mediated Angiogenesis**

    Tomasz Pniewski and P. Szymczak

21. **Effective action and superfluid density of the Γ-subsystem of the Ising superconductor**

    Artem F. Posadskii and A. G. Semenov

22. **Behavior of light-activated Janus particles in binary mixtures near a planar wall and in confinement**

    M. Przerwa, A. Maciołek and T. Araki

23. **Nonlinear Flow in Porous Media Under Pressure: Insights from Espresso Extraction**

    Maria Puciata-Mroczynska, F. Myck, R. Waszkiewicz, Ł. Białas, M. Dzikowski, P. Szymczak and M. Lisicki

24. **Public opinion dynamics in the active voter model**

    S. Rakowski, O. Devauchelle, P. Nowakowski and P. Szymczak

25. **Influence of rock structure on the morphology of wormholes**

    Rishabh P. Sharma, Max P. Cooper and Piotr Szymczak

26. **Diffusion of axisymmetric non-spherical particles in complex fluid**

    Władysław Sokołowski, Robert Hołyst and Karol Makuch

27. **The shape of ideal volcanoes**

    Aleksander Syrewicz and P. Szymczak

28. **How geophysical simulations can help in underground carbon storage?**

    Tomasz Szawełło and P. Szymczak

29. **Deposition dynamics in asymmetric coffee rings**

    Michalina Szpak and Maciej Lisicki

30. **Electrophoretic mobility in odd viscous liquids in the Smoluchowski limit**

    Reiner van Buel and J. C. Everts

31. **Topological phase transition from cyclic to tree structures in evolving transport networks**

    Victoria Vasileuskaya and P. Szymczak

32. **From frustrated to integrable: exact and numerical results for q-deformed Majumdar Ghosh model in magnetic field**

    Jędrzej Wardyn and M. Panfil

33. **Mechanisms Behind Abrupt Morphological Changes in Mineral Dendrites**

    Dawid Woś, Piotr Szymczak and Zhaoliang Hou

34. **Endothelial Network Morphogenesis on Microparticle Arrays: A Combined Imaging and Modeling Approach**

    Antoni Wrzos, Katarzyna Rojek, Piotr Szymczak and Jan Guzowski

35. **Thick elastic sheets and complex tissue shape: theory and modeling**

    Wan Yee Yau and Carl D. Modes

36. **The interplay of physics and geometry in the morphogenesis of the jellyfish canal network**

    Stanisław Żukowski, Stéphane Douady, Piotr Szymczak and Annemiek J. M. Cornelissen