

**Bogolyubov Institute for Theoretical Physics
of the National Academy of Sciences of Ukraine**

*APS Satellite Symposium & Workshop
"Applied Problems of Theoretical
and Computational Biophysics"*

PROGRAM

March 17

(Room 322 and online)

- 13.30 **Sergiy Perepelytsya** «Counterions in DNA-nanomaterials» (*Bogolyubov Institute for Theoretical Physics of the National Academy of Sciences of Ukraine*)
- 13.42 **Francesca Mocci** «Molecular dynamics insights into the stabilization of nucleic acid quadruplexes» (*University of Cagliari, Cagliari, Italy*)
- 13.54 **Anna Shestopalova** «Drug repurposing: molecular modelling» (*O. Ya. Usikov Institute for Radiophysics and Electronics, NASU, Kharkiv, Ukraine*)
- 14.06 **Taras Patsahan** «Computer simulation of cell sorting on dynamic microstructured surfaces» (*Yukhnovskii Institute for Condensed Matter Physics, Lviv, Ukraine*)
- 14.18 **Andrij Baumketner** «Modeling aggregation of proteins on computers» (*Yukhnovskii Institute for Condensed Matter Physics, Lviv, Ukraine*)
- 14.30 **Aleksei Aksimentiev** «DNA electromotors» (*University of Illinois at Urbana-Champaign, Urbana-Champaign, USA*)
- 14.42 **Larissa Brizhik** «Soliton mediated long-range electron transport in Donor–Biopolymer–Acceptor systems» (*Bogolyubov Institute for Theoretical Physics of the National Academy of Sciences of Ukraine*)
- 14.54 **Galyna Dovbeshko** «Spectroscopic markers of biological molecules and cells» (*Institute of Physics, NASU, Kyiv, Ukraine*)
- 15.06 **Victor Karachevtsev** «Photoluminescent MoS₂ quantum dots surrounded by nucleotides» (*B.Verkin Institute for Low Temperature Physics and Engineering, NASU, Kharkiv, Ukraine*)
- 15.18 **Khrystyna Gnatenko** «Quantum programming for the study of complex systems, and possible applications in biophysics» (*Ivan Franko National University of Lviv*)
- 15.30 **Eugene Kryachko** «On measuring localization and delocalization patterns in molecules» (*Bogolyubov Institute for Theoretical Physics of the National Academy of Sciences of Ukraine*)