



International

Scientific

Conference

Algebraic and Geometric Methods of Analysis

May 24-27, 2022, Odesa, Ukraine

## LIST OF TOPICS

- Algebraic methods in geometry
- Differential geometry in the large
- Geometry and topology of differentiable manifolds
- General and algebraic topology
- Dynamical systems and their applications
- Geometric and topological methods in natural sciences

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- Ministry of Education and Science of Ukraine
- Odesa National University of Technology, Ukraine
- Institute of Mathematics of the National Academy of Sciences of Ukraine
- Taras Shevchenko National University of Kyiv
- International Geometry Center
- Kyiv Mathematical Society

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Soroka Yu.

## Some questions about virtual Legendrian knots

**Vladimir Chernov**

(Dartmouth College, Hanover, USA)

*E-mail:* vladimir.chernov@dartmouth.edu

**Rustam Sadykov**

(Kansas State University)

*E-mail:* rstsdk@gmail.com

Virtual Legendrian knots were introduced by Cahn and Levi and jointly with Sadykov we proved the Kuperberg type theorem for them. We will discuss a few open questions about the virtual Legendrian knots including the versions of the Ding-Geiges Theorem, Arnolds 4 cusp conjecture and the applications of this to causality in spacetimes with the changing topology of the spacelike section in the spirit of our works with Nemirovski.

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