



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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- 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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Solutions to Mumford's second problem on theta functions

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In his book Tata Lectures on Theta Mumford asks whether there is a systematic way to derive relations between theta functions of rational characteristics and their derivatives. We solve this problem using the residue theorem. (Joint work with Julia Bernatska)

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