

# Second Annual Meeting of Young Bulgarian Mathematicians

June 13-14, 2022

Institute of Mathematics and Informatics,  
Bulgarian Academy of Sciences  
Acad. Georgi Bonchev Str., block 8  
1113 Sofia

June 13, 2022

09:00 – 10:00	Registration
10:00 – 10:15	Opening session
<b>Hall 256</b>	Chair: Ludmil Katzarkov, IMI-BAS
10:15 – 11:15	<b>Yuri Tschinkel</b> , Courant Institute, NYU and Simons Foundation Director, Mathematics and Physical Sciences <i>Equivariant Birational Geometry</i>
11:15 – 11:30	Coffee Break
<b>Hall 403</b>	Chair: Mladen Savov, Sofia University and IMI-BAS
11:30 – 12:30	<b>Nikola Kamburov</b> , Pontifica Universidad Catolica de Chile, Santiago, Chile <i>One-phase free boundaries subject to topological constraints</i>
12:30 – 13:30	<b>Iva Halacheva</b> , Northeastern University, Boston, USA <i>Geometric and categorical actions on crystals</i>
17:30 – 18:30	<b>A lecture by Yuri Tschinkel</b> , Hotel Intercontinental Sofia

## Building Scientific Institutes

a lecture by Yuri Tschinkel,

Hotel Intercontinental Sofia, Ballroom Hall, 4 Narodno Sabranie Square

Prof. Tschinkel will share his experience of how private capital helps fund research in various fields.

Yuri Tschinkel is an algebraic geometer who covers a broad spectra of subjects – from arithmetics to complex geometry. He was educated in Moscow State University and received his doctorate in mathematics from the Massachusetts Institute of Technology.

Tschinkel has obtained spectacular results in counting points over different fields and stable rationality. For his work he has been elected to Academia Europea and Leopoldina, the German National Academy of Sciences. He has been a speaker at the International Mathematical Congress 2006.

Yuri Tschinkel is a Director of Simons Foundation, Mathematics and Physical Sciences division. The Simons Foundation is a private foundation established in 1994 by Marilyn and Jim Simons. The foundation is one of the largest charitable organizations in the USA. It makes grants in four areas: Mathematics and Physical Sciences, Life Sciences, autism research (Simons Foundation Autism Research Initiative) and Outreach, Education and Engagement.

Bulgarian Academy of Sciences  
and  
International Center for  
Mathematical Sciences at the  
Institute of Mathematics and  
Informatics

Present

**PROF. YURI TSCHINKEL**  
Courant Institute of Mathematical Sciences,  
New York University

**JUNE 13, 2022**

**17:30**

**HOTEL  
INTERCONTINENTAL  
SOFIA,  
Ballroom Hall**

*Building  
Scientific  
Institutes*

Programme:

17:00 – 17:30 – Welcoming

17:30 – 18:30 – Lecture

18:30 – 20:00 – Cocktail

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Hall 403		Chair: Antoni Rangachev, IMI-BAS
10:00 – 11:00	<b>Kalina Mincheva</b> , Tulane University, New Orleans, Louisiana, USA <i>Tropical Geometry and the Commutative Algebra of Semirings</i>	
11:00 – 11:15		Coffee Break
11:15 – 12:15	<b>Marin Genov</b> , Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Bulgaria <i>Functions holomorphic over finite-dimensional commutative associative algebras</i>	
Hall 403		Chair: Alexander Petkov, Sofia University
14:00 – 15:00	<b>Yanitsa Pehova</b> , London School of Economics, London, UK <i>Substructures in graphs – an extremal perspective</i>	
15:00 – 15:15		Coffee Break
15:15 – 16:15	<b>Konstantin Delchev</b> , Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Bulgaria <i>Some recent results on two-distance codes</i>	
Hall 256		Moderators: Peter Boyvalenkov, IMI-BAS and Parvan Parvanov, Sofia University
16:30 – 17:30	<b>Round table</b> <i>Enhancing Research Capacity in Mathematical Sciences</i>	
17:30 – 19:00		Cocktail