

ANALYSIS, GEOMETRY AND TOPOLOGY DEPARTMENT

ANNUAL SCIENTIFIC SESSION 2024

December 5, 2024, IMI – Room 478

12:00 Opening (N. Nikolov)

Chair: V. Milousheva

12:05 Oleg Mushkarov, Nikolai Nikolov – A little Picard theorem for matrices

12:20 Johann Davidov – On a natural map between twistor spaces

12:35 Nikolai Nikolov – Regularity of the signed distance to the boundary of a domain
in \mathbb{R}^n

12:50 S. J. Dilworth, D. Kutzarova, Svetozar Stankov – Metric embeddings of Laakso
graphs into Banach spaces

13:05 Break

Chair: N. Nikolov

14:00 Virginia Kiryakova, Jordanka Paneva-Konovska – On a class of not well known,
but important special I-functions.

14:15 Sevdjan Hakkaev – On a dispersive system

14:30 Velichka Milousheva – Quasi-minimal surfaces in pseudo-Euclidean 4-spaces

14:45 Peter Petrov – PSL_2 -tropical geometry

15:00 Stefan Ivanov – Heterotic supersymmetry, Strominger system and equations of
motion

