

## Scientific Program

07.07.

11 - 12,00: **Natalia Zorii**, *How the 2- capacity of a space condenser can be written in terms of the Newton energies? A solution to F. W. Gehring's problem.*

14,00 - 15,00: **Sione Ma'u, Dan Burns, Norm Levenberg and Szilard Revesz**, *Pluripotential theory and a multivariate Bernstein inequality.*

15,15 - 16,15: **Szilard Revesz, Dan Burns, Norm Levenberg and Sione Ma'u**, *Applications: The inscribed ellipse method, and the complex equilibrium measure.*

16,30 - 17,30: **Nagi Bela**: *Potential theory and polynomial inequalities.*

08.07.

9,00 - 10,00: **Hans - Peter Blatt**, *Divergence of rational approximants of non-analytic functions.*

10,15 - 11,15: **Sione Ma'u, Dan Burns, Norm Levenberg and Szilard Revesz**, *Foliations for the extremal functions.*

11,30 - 12,15: **David Benko**, *The support of the equilibrium measure.*

14,00 - 14,45: **Balint Farkas**, *Transfinite diameter, Chebyshev constant and energy on locally compact spaces.*

15,00 - 16,00: **Natalia Zorii**, *Extremal problems for potentials with external fields. Applications to the energy of capacities of condensers.*

16,15 - 17: **Alexander Goncharov**, *Extension property of Cantor-type sets.*

09.07.

9,00 - 10,00: **Vladimir Georgiev and Atanas Stefanov**, *Rough solutions for the Maxwell-Schrödinger system.*

10,00 - 11,00: **Wieslaw Plesniak**, *Jackson Inequality in  $R^N$ .*

11,15 - 12,15: **Peter R. Popivanov**, *On the tangential oblique derivative problem*

14,00 - 14,45: **Georgi Venkov**, *Recognition of the Coulomb potential via "Approximation to the identity".*

15,00 - 16: **Wolfgang Wendland, G. C. Hsiao, G. Of and O. Steinbach**, *Efficient Boundary Element Method in Solid Mechanics.*

16,15 - 17,00: **Tanja Bergkvist**, *On asymptotics of eigenpolynomials.*

10.07.

9,00 - 10,00: **Nikolay Kutev, Velichka Milousheva**, *Solvability of Nonlinear Elliptic Systems Generating Minimal Foliated Semi-Symmetric hypersurfaces.*

10,15 - 11,30: **Alexey Bogoliubskiy**, *Lorentz Counterexample for rational approximants of algebraic sets.*

11,35 - 12,15: **R. K. Kovacheva**, *Ostrowski gaps in Fourier series, zeros and overconvergence.*

11.07.

10-10,45: **Stancho Dimiev**, *Elliptic equations on almost complex manifolds.*

11,00 - 11,30: **Krasimir Krastev**, *Remark on the double-complex Laplacian.*

11,45 - 12: **Branimir Kiradjiev and Peter Stoev**, *Double-complex solutions of the PDEquation  $\Delta_n u = 0$ .*

14 - 14,30: **Lilia Apostolova, Stancho Dimiev**, *Double complex Laplace operator.*

14,45 - 15,15: **Okoro Chinedu**, *The role of Hermite polynomials in asymptotic analysis.*

15 - 15,30: **Davies Oliwasegun Oshola**, *Approximation of orthogonal polynomials in terms of Hermite polynomials.*

15,45 - 16,15: **Maria Mitreva**, *Representation of meromorphic functions with (and) estimates of their growth*

**Registration:** *Saturday, July 7, 8,30 - 10, 055 Hall*

**Opening:** *July 7, 10 - 11, 055 Hall*

**Social events:**

*Monday, July 9, 18,00: banquet for participants and accompanying persons.*

*Tuesday, July 10, 14,00: guided tour of Sofia.*