

Harmonic analysis, complex analysis, spectral theory and all that

August 1–5, 2016, Będlewo, Poland

Monday, August 1, 2016

ROOM C

9:00–9:50 N. Nikolski, S. Petermichl, S. Treil *Opening lecture*

10:00–10:50 K. Astala *Invertibility of Beltrami operators, Burkholder functional and Chord-arc curves*

10:50–11:20 *coffee*

11:20–11:50 A. Eremenko *A remarkable (anti)-holomorphic dynamical system*

12:00–12:30 S. Kisliakov *Some observations concerning the corona theorem*

12:40–13:10 S. Pott *Matrix weights: On the way to the linear bound*

13:30 *lunch*

15:30–16:00 ROOM A O. Dragičević *Convexity of power functions and applications to functional calculus*

ROOM C P. F. X. Müller *Compensated compactness, interpolatory estimates, Riesz transforms and wavelet projections*

16:10–16:40 ROOM A S. Król *Application of weighted inequalities to extrapolation of the maximal regularity of the abstract Cauchy problems*

ROOM C A. Kamont *Directional wavelet projections and interpolatory estimates for the Riesz transforms revisited*

16:40–17:10 *coffee*

17:10–17:40 ROOM A J. Rozendaal *Operator-valued (L^p, L^q) -Fourier multipliers*

ROOM C A. Pushnitski *An inverse spectral problem for self-adjoint positive Hankel operators*

17:50–18:20 ROOM A A. Kałamajska *Hardy-type inequalities derived from degenerated p -harmonic problems*

ROOM C R. Bessonov *Krein strings via truncated Toeplitz operators*

19:00 *dinner*

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Tuesday, August 2, 2016

ROOM C

9:00–9:50 G. David *Boundary regularity for minimal sets of dimension 2*

10:00–10:50 E. Malinnikova *Ratios of harmonic functions*

10:50–11:20 *coffee*

11:20–11:50 V. Vasyunin *Recent results in Bellman function technique*

12:00–12:30 M. Wojciechowski *Isomorphism of spaces of BV-functions on simply connected planar domains*

12:40–13:10 J. Onninen *Monotone Sobolev Mappings of planar domains*

13:30 *lunch*

15:30–16:00 ROOM A A. Nishry *Gaussian Complex Zeros: Large fluctuations and conditional distribution*

ROOM C R. Hurri-Syrjanen *Aspects of local-to-global results*

16:10–16:40 ROOM A A. Glücksam *Translation invariant probability measures on the space of entire functions*

ROOM C B. Wróbel *A characterization of spherical multipliers on homogeneous trees*

16:40–17:10 *coffee*

17:10–17:40 ROOM A B. Trojan *Maximal estimates for discrete operators of Radon-types*

ROOM C V. Kovač *Bellman functions and L^p estimates for paraproducts*

17:50–18:20 ROOM A B. Eichinger *Szegő–Widom asymptotics of Chebyshev polynomials on circular arcs*

ROOM C M. Strzelecki *The L^p -norms of the Beurling–Ahlfors transform on radial functions*

18:30–18:50 ROOM A N. Boros *Matrix weights, Littlewood Paley inequalities and the Riesz transform*

ROOM C P. Durcik *Quantitative estimates for the simplex Hilbert transform*

19:00 *dinner*

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Wednesday, August 3, 2016

ROOM C

9:00–9:50 X. Tolsa *The Riesz transform, quantitative rectifiability, and a two-phase problem for harmonic measure*

10:00–10:50 M. Christ *A sharpened Riesz–Sobolev inequality*

10:50–11:20 *coffee*

11:20–11:50 T. Hytönen *A tale of two theorems (T1 and A2)*

12:00–12:30 B. Jaye *Necessary and sufficient conditions for the boundedness of Calderón–Zygmund operators in terms of non-oscillatory quantities*

12:40–13:10 P. Yuditskii *Sum rules and Killip–Simon problem*

13:10 *lunch*

14:00–19:00 *excursion to Poznań / hiking excursion*

19:00 *special dinner*

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Thursday, August 4, 2016

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9:00–9:50 Ch. Thiele *Quantitative norm convergence for two commuting transformations*

10:00–10:50 K. Seip *From Gál's theorem to extreme values of the Riemann zeta function*

10:50–11:20 *coffee*

11:20–11:50 M. Shishikura *Quasiconformal deformation and cross-ratios*

12:00–12:30 A. Zdunik *Real analyticity for random dynamics of transcendental functions*

12:40–13:10 M. Benedicks *Mathematical problems in density functional theory and unique continuation*

13:30 *lunch*

15:30–16:00 ROOM A K. Dyakonov *Locally inner functions and their derivatives*

ROOM C T. Adamowicz *Prime ends and quasiconformal mappings*

16:10–16:40 ROOM A A. Kiro *Taylor coefficients of Beurling classes of smooth functions and operators moment summation methods*

ROOM C L. D'Onofrio *Note on Lusin (N) condition and the distributional determinant*

16:40–17:10 *coffee*

17:10–17:40 ROOM A P. Nayar *Brunn–Minkowski inequality for log-concave measures*

ROOM C A. Austin *Logarithmic potentials and quasiconformal flows on the Heisenberg group*

17:50–18:20 ROOM A N. Pattakos *On existence of global solutions of the 1-dimensional cubic NLS for initial data in the modulation space $M_{p,q}$*

ROOM C B. Langowski *Sobolev and potential spaces related to Jacobi expansions*

18:30–19:00 ROOM A H. Hedenmalm *Bloch functions and notions of asymptotic variance*

ROOM C K. Ciosmak *Differentiable functions on modules and the equation $\text{grad}(w) = M \text{grad}(v)$*

19:00 *dinner*

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Friday, August 5, 2016

ROOM C

9:00–9:30 A. Volberg *A_2 -conjecture in non-homogeneous setting*

9:40–10:10 A. Logunov *Nodal sets of Laplace Eigenfunctions: pursuing the conjectures by Yau and Nadirashvili*

10:20–10:50 A. Osękowski *Inequalities for Beurling–Ahlfors operator and related Fourier multipliers*

10:50–11:20 *coffee*

11:20–11:50 C. Pérez *Extensions of the weak type $(1, 1)$ property of classical operators: some conjectures by E. Sawyer*

12:00–12:30 ROOM A V. Eiderman *Maximum principle for the s -Riesz transform*

ROOM C P. Ohrysko *Non-separability of the Gelfand space of measure algebras*

12:40–13:10 ROOM A S. Zimmerman *Sobolev extensions of Lipschitz mappings into metric spaces*

ROOM C A. Seddik *Moore–Penrose inverse and operator inequalities*

13:10 *lunch*

14:00 *bus to Poznań railway station (arriving 15:15) and Poznań airport (arriving 16:00)*