

Dunkl operators, special functions and harmonic analysis

Paderborn University

August 8-12, 2016

Schedule (as of August 8)

Monday, August 8

8:30 – 9:30	Registration (room O1.224)	
9:30 – 9:50	Opening (Lecture room O1)	
9:50 – 10:40	Yuan Xu <i>Analysis on the unit sphere with Dunkl weight functions</i>	
10:40 – 11:10	Coffee/Tea	
11:10 – 12:00	Yuri Berest <i>Double affine Hecke algebras, character varieties of knots and the Jones polynomial</i>	
12:00 – 12:50	Monica Vazirani <i>A Schur-Weyl-like construction of $L(k^N)$ for the DAHA</i>	
12:50 – 14:20	Lunch	
14:20 – 15:10	Rupert Lasser <i>Character Spaces of Commutative Hypergroups</i>	
15:10 – 16:00	Erik Koelink <i>Matrix-valued orthogonal polynomials associated to quantum algebras</i>	
16:00 – 16:30	Coffee	
	O1.258	O2
16:30 – 17:00	Adam Nowak <i>On harmonic analysis operators in the Laguerre setting</i>	Maarten van Puijssen <i>Vector-valued orthogonal polynomials in several variables</i>
17:00 – 17:30	Luz Roncal <i>Hardy-type inequalities for fractional powers of the Dunkl-Hermite operator</i>	Kathy Driver <i>Inequalities for extreme zeros of classical orthogonal polynomials</i>
17:30 – 18:00	Tomasz Szarek <i>Harmonic analysis operators in a certain Dunkl setting</i>	Stefan Kahler <i>Characterizations and harmonic analysis of sieved orthogonal polynomials</i>
18:00 – 18:30	Radouan Daher <i>Characterization of $(\eta, \gamma, k, 2)$-Dini-Lipschitz functions in terms of their Helgason Fourier transform</i>	Anbhu Swaminathan <i>Orthogonal polynomials on the real line corresponding to a perturbed chain sequence</i>

Tuesday, August 9

9:00 – 9:50	Iain Gordon <i>Galois theory aspects of Calogero-Moser space as limits of Dunkl operators</i>	
9:50 – 10:40	Simon Ruijsenaars <i>A relativistic conical function and its offspring</i>	
10:40 – 11:10	Coffee/Tea	
11:10 – 12:00	Stephen Griffeth <i>Unitary representations of Cherednik algebras</i>	
12:00 – 12:50	Misha Feigin <i>On PBW subalgebras of rational Cherednik algebras</i>	
12:50 – 14:20	Lunch	
14.20 – 15:10	Léonard Gallardo <i>Some properties of Dunkl-subharmonic functions</i>	
15:10 – 16:00	Bechir Amri <i>Some facts about Dunkl's kernel of type A</i>	
16:00 – 16:30	Coffee	
	O1.258	O2
16:30 – 17:00	Chaabane Rejeb <i>Riesz type Potential Theory associated to root systems</i>	Nils Byrial Andersen <i>Generalized Dunkl Primitives, real Paley-Wiener theorems and Roe's theorem for the Dunkl transform on the real line</i>
17:00 – 17:30	Tomasz Luks <i>On the Green function and Hardy-Stein identities for the Dunkl Laplacian</i>	Salem Ben Saïd <i>A Paley-Wiener theorem about the spectral parameter and applications</i>
17:30 – 18:00	Michael Voit <i>On positive integral representations for Bessel functions</i> <i>(replaces talk by Hassine Kods)</i>	Sanjoy Pusti <i>Wiener Tauberian theorem for rank one semisimple Lie groups and for the hypergeometric transform</i>

Wednesday, August 10

9:00 – 9:50	Sundaram Thangavelu <i>Mixed norm estimates for the Cesaro means associated with Dunkl-Hermite expansions</i>
9:50 – 10:40	Bent Ørsted <i>Two-parameter deformations of the Hermite semigroup and Dunkl operators</i>
10:40 – 11:10	Coffee/Tea
11:10 – 12:00	Charles F. Dunkl <i>Hypergeometry, the Torus, and Representations of the Symmetric Groups</i>
12:00 – 12:50	Vincent Genest <i>The \mathbb{Z}_2^n Dirac-Dunkl operator and a higher rank Bannai-Ito algebra</i>
12:50 – 14:15	Lunch
14:15	Excursion to Schloß Corvey

Thursday, August 11

9:00 – 9:50	Siddhartha Sahi <i>Macdonald's conjectures for hypergeometric functions</i>	
9:50 – 10:40	Hiroshi Oda <i>Differential-difference operators as glues between representation theories</i>	
10:40 – 11:10	Coffee/Tea	
11:10 – 12:00	Jean-Philippe Anker <i>Random walks on affine buildings</i>	
12:00 – 12:50	Sergio Andraus <i>Relaxation dynamics in scaled Dunkl processes</i>	
12:50 – 14:20	Lunch	
14.20 – 15:10	Joachim Hilgert <i>Resonances and resonant states for (locally) symmetric spaces</i>	
15:10 – 16:00	Ruiming Zhang <i>Zeros of Ramanujan type entire functions</i>	
16:00 – 16:30	Coffee	
16:30 – 17:00	Mourad Ismail <i>Combinatorial and analytic properties of the n-dimensional Hermite polynomials</i>	
	O1.258	O2
17:00 – 17:30	Roy Oste <i>The symmetry algebra of the Dirac-Dunkl operator of type A_{N-1}</i>	Nobukazu Shimeno <i>Matrix-valued commuting differential operators and their joint eigenfunctions</i>
17:30 – 18:00	Wouter van de Vijver <i>A model for the higher rank Racah algebra</i>	Patrice Sawyer <i>An analogue to the Duistermaat-Kolk-Varadarajan estimate for the spherical functions associated with root systems of type A</i>
18:00 – 18:30	Tom Koornwinder <i>Addition type formulas associated with dual product formulas</i>	Mostafa Maslouhi <i>On the Dunkl intertwining operator</i>

Friday, August 12

9:00 – 9:50	Peter Forrester <i>Dunkl theory in the study of random matrices</i>
9:50 – 10:40	Jasper Stokman <i>Rank dependence of qKZ equations and dense loop models</i>
10:40 – 11:10	Coffee/Tea
11:10 – 12:00	Luc Vinet <i>The q-oscillator algebra and the Askey-Wilson polynomials</i>
12:00 – 12:50	Dennis Stanton <i>Finite fields and (q,t)-combinatorics</i>
12:50	Closing and Lunch