Sunday, May 27, 2018

17:00 - 21:00	Registration
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18:30 BUFFET SUPPER / Informal get together

Monday, May 28, 2018

08:00	BREAKFAST	
09:00 – 09:15	Sergey Denisov Eli Barkai Tamás Kiss	Opening and welcome
09:15 – 10:00	lgor Jex	Perturbed quantum walks
10:00 - 10:45	Cécile Mailler	The monkey walk: a random walk with reinforced relocations
10:45 – 11:00	COFFEE BREAK	
11:00 – 11:45	Viv Kendon	Optimisation using continuous-time quantum walks
11:45 – 12:30	Ralf Metzler	Molecular search in gene regulation: facilitated diffusion and the next steps
12:30	Conference Photo (in f	ront of the Physikzentrum, main entrance)
12:40	LUNCH	

Monday, May 28, 2018

14:30 – 14:35	Reinhard F. Werner	Colloquium
14:35 – 15:30	Reinhard F. Werner	Walking the Quantum Way
15:30 – 16:00	Christopher Cedzich	Propagation of quantum walks in electric fields
16:00 – 16:30	COFFEE BREAK	
16:30 – 17:15	Francisco Alberto Grünbaum	Is thinkin about classical walks a help or a hindrance when dealing with quantum walks?
17:15 – 17:45	Luis Velázquez	Recurrence splitting rules for random and quantum walks
18:30	DINNER	

Tuesday, May 29, 2018

08:00	BREAKFAST	
09:00 – 09:45	Peng Xue	Observation of topological edge states in parity-time-symmetric quantum walks
09:45 – 10:30	Salvador Elias Venegas-Andraca	Quantum walk-based algorithms, entanglement and quantum annealing
10:30 - 11:00	COFFEE BREAK	
11:00 - 11:45	Peter Hänggi	Quantum-Thermodynamics: Aspects of quantum work and heat
11:45 – 12:30	Todd A. Brun	Effects of raph symmetry on quantum walks
12:30	LUNCH	
14:30 – 14:45	Sidney Redner	Colloquium
14:45 – 15:30	Sidney Redner	Finding targets the random way
15:30 – 16:00	Carlos Mejia-Monasterio	Search processes in confined geometries
16:00 – 16:15	COFFEE BREAK	
16:15 – 17:00	Sergey Flach	Nonlinear disordered discrete time quantum walks
17:00 – 17:45	Abhishek Dhar	First return problem of a quantum particle with quasi-Zeno dynamics
18:00	DINNER	
19:00 - 21:00	Poster session I	

Wednesday, May 30, 2018

08:00	BREAKFAST	
09:00 – 09:45	David Kessler	Introduction to first quantum detection problems
09:45 – 10:30	Vasily Zaburdaev	Planar Lévy-walk bridges: an approach to home-range search and foraging
10:30 - 11:00	COFFEE BREAK	
11:00 – 11:45	Elena Agliari	Search and diffusion of leucocytes on lab-on-chip
11:45 – 12:30	Lorenzo Marrucci	Photonic quantum walks in a single optical beam
12:30	LUNCH	
14:00 – 19:00	Excursion (leisurely hike in the vicinity)	
19:00	HERAEUS DINNER (cold & warm buffet, fr	ee beverages)

Thursday, May 31, 2018

08:00	BREAKFAST	
09:00 – 09:45	Stefan Boettcher	Exploring quantum walks and quantum search algorithms with the renormalization group
09:45 – 10:30	Mikhail Ivanchenko	Quantum jumps on Anderson attractors
10:30 - 10:45	COFFEE BREAK	
10:45 – 11:30	Yoav Lahini	Correlated quantum walks- from photons to ultra-cold atoms
11:30 – 12:00	Denis Grebenkov	Search for a small target in biological cells: the necessity to go beyond mean rates
12:00 – 12:30	Sidney Redner	The Dynamics of Stochastic Foraging
12:30	LUNCH	
13:50 – 14:30	Sonja Barkhofen	Time-Multiplexed Photonic Quantum Walks with a 4-dimensional Coin
14:30 – 15:15	Subinay Dasgupta	Some aspects of the first passage problem in quantum systems
15:15 – 16:00	János Asbóth	Recurrence time in iterated open quantum dynamics
16:00 – 16:15	COFFEE BREAK	
16:15 – 17:00	Gleb Oshanin	Power spectral density of a single trajectory : Quantifying an ensemble by its random elements
17:00 – 17:45	Shlomi Reuveni	First passage under restart
18:00	DINNER	
19:00 – 21:00	Poster session II	

Friday, June 1, 2018

08:00	BREAKFAST	
09:00 – 09:45	Olivier Bénichou	First- passage times of Markovian and non- Markovian random walks
09:45 – 10:30	Andrea Alberti	Discrete-time quantum walks with neutral atoms in optical lattices
10:30 - 11:00	COFFEE BREAK	
11:00 - 11:30	Felix Thiel	The spectral dimension controls the decay of the quantum first detection probability
11:30 – 11:45	Sergey Denisov Eli Barkai Tamás Kiss	Closing remarks and poster awards
12:00 – 13:30	LUNCH	

End of the seminar and FAREWELL COFFEE / Departure

Please note that there **will be** dinner at the Physikzentrum on Friday evening for participants leaving the next morning!