



MTA PÉCSI AKADÉMIAI BIZOTTSÁG



4th Work Meeting on Quantum Optics & Information

6-7 May 2016

Regional Centre of the Hungarian Academy of Sciences at Pecs

Friday, 6 May 2016

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| 1 | 9:00 | 9:30 | Diósi Lajos (Budapest, Information erasure in closed systems:
Nature may operate twirling) |
| 2 | 9:30 | 10:00 | Bernád Zsolt (Darmstadt, The Trotter product formula and its applications) |
| 3 | 10:00 | 10:30 | Jaroslav Novotny (Prague, Jaynes' entropy principle for quantum Markov processes) |
| | 10:30 | 11:00 | <i>Coffee break</i> |
| 4 | 11:00 | 11:30 | Földi Péter (Szeged, A quantum optical model for high harmonic generation) |
| 5 | 11:30 | 12:00 | Kálmán Orsolya (Budapest, Detecting the current noise spectrum of a nanowire with ultracold atoms) |
| 6 | 13:30 | 14:00 | Varró Sándor (Budapest, Regular phase operator of the photon as a Haar-integral on the Blaschke group) |
| 7 | 14:00 | 14:30 | Mauricio Torres (Darmstadt, Qubit entanglement in cavity QED scenarios) |
| 8 | 14:30 | 14:45 | Thorsten Haase (Darmstadt, Laser cooling in a parabolic trap) |
| | 14:45 | 15:15 | <i>Coffee break</i> |
| 9 | 15:15 | 15:45 | Shantanav Chakraborty (Lisbon, Spatial search by quantum walk is optimal for almost all graphs) |
| 10 | 15:45 | 16:15 | Martin Stefanak (Prague, Persistence of unvisited sites in quantum walks on a line) |
| 11 | 16:15 | 16:45 | Gilyén András (Amsterdam, The Local Hamiltonian Problem and its connection to the Lovász Local Lemma) |
| 12 | 16:45 | 17:15 | Libor Caha (Bratislava, Very entangled spin chains) |

Saturday, 7 May 2016

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| 13 | 10:00 | 10:30 | Nils Trautmann (Darmstadt, Quantum simulation of the Casimir effect) |
| 14 | 10:30 | 11:00 | Kónya Gábor (Budapest, Scattering of ultracold atoms through a Dirac delta potential) |
| | 11:00 | 11:30 | <i>Coffee break</i> |
| 15 | 11:30 | 12:00 | Alexander Sauer (Darmstadt, Bell inequalities for imperfect measurements) |
| 16 | 12:00 | 12:30 | Zimborás Zoltán (Berlin, Negativity of fermionic Gaussian states and fermionic Wigner functions) |
| 17 | 12:30 | 13:00 | Koniorczyk Mátyás (Pécs, Receiver operation characteristics of quantum state discrimination) |