

6th International Conference on New Frontiers in Physics (ICNFP2017)

Wednesday 23 August 2017

Workshop on Quantum Foundations and Quantum Information - Room 2 (14:45 - 16:00)

-Conveners: Yakir Aharonov

time	[id] title	presenter
14:45	[1443] Opening words	
15:00	[1058] Ubiquitous non-local entanglement with Majorana bound states	Dr ROMITO, Alessandro
15:30	[1132] Quantum Dynamical Simulation by Quantum Walk	SHIKANO, Yutaka

Workshop on Quantum Foundations and Quantum Information - Room 2 (16:30 - 18:30)

-Conveners: Yakir Aharonov

time	[id] title	presenter
16:30	[1242] Pure state post-selection is universal	DIOSI, Lajos
17:00	[941] Wave function collapse and gravity	Prof. BASSI, Angelo
17:30	[1177] Matter waves exposed to the external world: Decoherence, gravity, complementarity and time irreversibility	Prof. FOLMAN, Ron
18:00	[1143] Testing the superposition principle with individual trapped atoms	Dr ALBERTI, Andrea

Thursday 24 August 2017

Workshop on Quantum Foundations and Quantum Information: 24 August 2017: Dedicated to Yakir Aharonov's 85th Birthday - Room 2 (09:00 - 10:30)

-Conveners: Eliahu Cohen; Avshalom Elitzur; Yakir Aharonov

time	[id] title	presenter
09:00	[967] One quantum shutter can close two slits simultaneously	Prof. OKAMOTO, Ryo
09:30	[1486] Novel manifestations of quantum oblivion	Prof. ELITZUR, Avshalom
10:00	[1172] Locality and nonlocality in the interaction-free measurement	Dr ROHRLICH, Daniel

Workshop on Quantum Foundations and Quantum Information: 24 August 2017: Dedicated to Yakir Aharonov's 85th Birthday - Room 2 (11:00 - 13:00)

-Conveners: Yakir Aharonov; Avshalom Elitzur; Eliahu Cohen

time	[id] title	presenter
11:00	[1487] The fascinating properties of weak values	AHARONOV, Yakir
11:45	[1481] Faster than Fourier (pre)visited: vorticulture, noise, fractals...	Prof. BERRY, Michael
12:30	[1501] The controversy about the past of a quantum particle	VAIDMAN, Lev

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-Conveners: Eliahu Cohen; Avshalom Elitzur; Yakir Aharonov

time	[id] title	presenter
15:00	[1193] Experimental realization of a shortcut to adiabaticity by synthetic Aharonov-Bohm effect in a qutrit	Dr PARAOANU, Sorin
15:30	[971] Statistical superdegeneracy and quantum foundations	Dr SHEEHAN, Daniel

Workshop on Quantum Foundations and Quantum Information: 24 August 2017: Dedicated to Yakir Aharonov's 85th Birthday - Room 2 (16:30 - 18:25)

-Conveners: Avshalom Elitzur; Eliahu Cohen; Yakir Aharonov

time	[id] title	presenter
17:00	[1122] Logical Information Theory: New Foundations for Classical and Quantum Information Theory	Dr ELLERMAN, David
17:30	[1225] Fundamental mechanism of the quantum computational speedup	Dr CASTAGNOLI, Giuseppe

Friday 25 August 2017

Workshop on Quantum Foundations and Quantum Information - Room 2 (08:30 - 10:30)

-Conveners: Yakir Aharonov

time	[id] title	presenter
09:00	[1227] Quantum Uncertainty Relations and Related	Prof. FEI, Shao-Ming
09:30	[1199] Quantum Mechanics is Two-Thirds Local Realistic	Dr COHEN, Eli

Workshop on Quantum Foundations and Quantum Information - Room 2 (11:00 - 13:30)

-Conveners: Yakir Aharonov

time	[id] title	presenter
11:00	[974] Counter-intuitive phenomena in quantum mechanics emerging in matter-wave optical experiments	HASEGAWA, Yuji
11:30	[1103] Weak Measurements: from Measuring Non-Commuting Observables and Testing Quantum Contextuality to Protective Measurements	Dr PIACENTINI, Fabrizio
12:00	[1043] Ultrafast Optical Homodyne - Measuring the Fundamental Variables of Quantum Optics 10^5 Times Faster	Prof. PE'ER, Avi
12:30	[1133] Quantum Cryptography with Structured Photons	Prof. KARIMI, Ebrahim