Summer School, Department of Physics, University College Cork

Shortcuts to Adiabaticity 2016 in Cork (UCC)

Topics: Quantum control with shortcuts to adiabaticity and related topics

Dates: Monday 25th and Tuesday 26th July 2016

Location: University College Cork, Kane Building (Main Campus), Talks: G18 (Monday)/G19 (Tuesday); Coffee/Poster: G20 (both days)

20:00

Timetable:		
	Monday, 25 th July	Tuesday, 26 th July
Location:	Lecture Hall: G18	Lecture Hall: G19
9:00	Registration	
9:30-10:30	Andreas Ruschhaupt "Fundamentals of Shortcuts to Adiabaticity"	Andreas Ruschhaupt "Shortcuts to Adiabaticity for finite-level systems"
10:30-11:00	Tea/Coffee Break (G20)	Tea/Coffee Break (G20)
11:00-12:00	Andrea Alberti "Atom transport in optical lattices, and its application in discrete-time quantum walks" (1/2)	Thomas Busch "Quantum gases in different correlation regimes" (1/2)
12:00-14:00	Lunch Break	Lunch Break
14:00-15:00	J. Gonzalo Muga "Shortcuts to Adiabaticity for trapped ions"	J. Gonzalo Muga "Open questions and challenges for Shortcuts to Adiabaticity"
15:00-15:30	Tea/Coffee Break (G20)	Tea/Coffee Break (G20)
15:30-16:30	Andrea Alberti "Atom transport in optical lattices, and its application in discrete-time quantum walks" (2/2)	Thomas Busch "Quantum gases in different correlation regimes" (2/2)
16:30	Steve Campbell "The cost of achieving finite time adiabatic dynamics"	Stefano Moroni "Entangled Photons Diodes"
16:50	Brian O'Sullivan "Quaternions, Spinors and	

Social event for students