STA Workshop 2026

15-16 July
University College Cork, Cork, Ireland

Preliminary Programme

Wednesday, 15 July

9:00	Registration
9:15	Welcome
9:20 – 9:30	**David Rea** (University College Cork): *STA in UCC: Reminiscences of a Senior Collaborator*
9:30 – 10:10	**Daniel Alonso Ramírez** (Universidad de La Laguna): tba
10:10 – 10:50	**Steve Campbell** (University College Dublin): *Quantum control to probe non-equilibrium dynamics*
10:50 – 11:30	**Coffee break and Photo**
11:30 – 12:10	**Anthony Kiely** (University College Cork): *Universally Robust Quantum Control*
12:10 – 12:40	**Ankit Shrestha** (University of Luxembourg): *Shortcuts to Adiabaticity for non-Hermitian systems in Krylov Space*
12:40 – 14:30	**Lunch break**
14:30 – 15:00	**Mara Vizzuso** (Università degli Studi di Napoli Federico II): *Nonadiabatic Self-Healing of Trotter Errors in Digitized Counterdiabatic Dynamics*
15:00 – 15:30	**Artur Machado Lacerda** (Trinity College Dublin): *Shortcuts to adiabaticity for holonomic gates in cat qubits*
15:30 – 16:00	**James Urquhart** (University Sussex): *Benchmarking Microfabricated QCCD Junctions for Fast Transport*
16:00 – 16:30	**Coffee break**
16:30 – 16:50	**Conor Sexton** (University College Cork): tba
16:50 – 17:10	**Zhiyu Wang** (University College): *Quantum phase control of Liouvillian-skin-induced quantum Mpemba effect*
19:00	**Social evening in the Franciscan Well Brewpub with pizzas**

Thursday, 16 July

9:30 – 10:10 **Xiaoji Zhou** (Peking University): tba

10:10 – 10:50 **Jing Li** (University College Cork):
Quantum control of pistons: From Rabi-coupled Bose-Einstein condensates to Two-Ion device

10:50- 11:20 Coffee break

11:20 – 11:50 **Chris Whitty** (University of the Basque Country):
Smooth time-dependent control of dipolar Bose-Einstein condensates

11:50 – 12:20 **Ronan McElvogue** (University College Dublin):
Fast and robust quantum state transfer in a 2D multi-domain SSH model

12:20 – 12:50 **Ruijin Sun** (Northeast Normal University, University College Cork):
Enhanced shortcuts to adiabaticity in an interacting giant atom atomic waveguide system

12:50 – 14:30 Lunch break

14:30 – 15:10 **Andreas Ruschhaupt** (University College Cork):
Enhanced Shortcuts to Adiabaticity

15:10 – 15:50 **David Guéry-Odelin** (Université de Toulouse): tba (online talk)

15:50 – 16:00 Good-bye

16:00 - 16:30 Good-bye Coffee