

Keywords

- Disorder
- Quantum glasses
- Many-body localisation (MBL)
- Non-equilibrium dynamics

Current work

- Flow equation methods for disordered, interacting quantum systems
- Quench dynamics in isolated quantum glasses
- Non-equilibrium dynamics of the Sachdev-Ye-Kitaev model

Steven Thomson
Postdoc with Marco Schiró
Condensed Matter Theory

Previous work

- Phase reconstruction near ferromagnetic quantum critical points (helical glass)
- Disorder in ultracold atomic gases: replica symmetry breaking in the Bose glass, measuring the Edwards-Anderson order parameter using quantum gas microscopes
- Disordered dimerised quantum magnets: importance of RSB, new Mott glass phase

