Quantum Correlated Many-Body Systems

Research Area A

- Spin and lattice models
- Non-classical states of matter
- Out-of-equilibrium quantum systems

Topical Groups

- Designed quantum states for matter wave interferometry
- Designed composite systems for quantum control
- Designed many-body lattice systems

Research Area B

- Novel concepts for control and characterization of many-body systems
- Designed quantum states for frequency metrology
- Variation of constants CPT & LLI tests
- Quantum objects in gravity
- Entanglement-enhanced metrology

Quantum Metrology for Tests of Fundamental Physics