

Quantum Correlated
Many-Body Systems



Quantum Metrology for
Tests of
Fundamental Physics

Spin and lattice models

Non-classical states
of matter

Out-of-equilibrium
quantum systems

Novel concepts for
control and
characterization of
many-body systems

Research Area A

Designed quantum
states for matter
wave interferometry

Designed quantum
states for frequency
metrology

Designed composite
systems for
quantum control

Designed many-body
lattice systems

Topical Groups

Variation of constants

CPT & LLI tests

Quantum objects
in gravity

Entanglement-
enhanced metrology

Research Area B