

Recent advances in semiconductor qubits

Japan standard time (UTC+9)

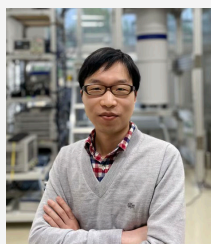
Tuesday, 9 March 2021, 13:00 – 18:00

13:00- Opening

13:10-13:40

Kenta Takeda (RIKEN)

"Manipulation of three-spin states in a silicon triple quantum dot"



13:40-14:10

William Coish (McGill)

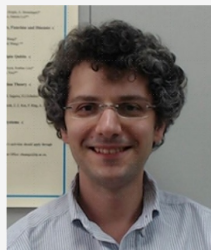
"First-principles hyperfine and spin-electric coupling for electron-spin and hole-spin qubits"



14:10-14:40

Stephano Chesi (CSRC)

"Superradiant-like dynamics of nuclear spins by non-adiabatic electron shuttling"



14:40-15:10

Takafumi Fujita (Osaka)

"Accelerated electric-dipole spin resonance in a quantum dot array"



15:10-15:30 Break

15:30-16:00

Peter Stano (RIKEN)

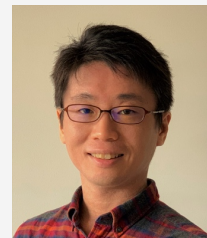
"Optimal frequency estimation and its application to quantum dots"



16:00-16:30

Jun Yoneda (Tokyo Tech)

"Single electron spin tunneling in silicon quantum dots"



16:30-17:00

Pasquale Scarlino (EPFL)

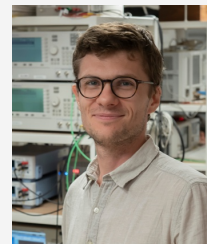
"Hybrid cQED with semiconductor QDs and high impedance superconducting resonators"



17:00-17:30

Matthew Delbecq (LPENS)

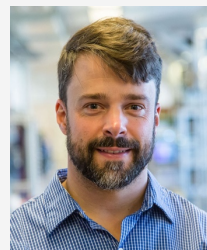
"Hyperfine coupling of ultra-clean carbon nanotube spin qubits in cQED architecture"



17:30-18:00

Ferdinand Kuemmeth (NBI)

"Navigating high-dimensional gate-voltage spaces of multi-dot spin qubits"



https://cems.riken.jp/topicalmeeting/009_spinqubits/