

Journal Club on Quantum Information Theory SS 2022

Institut für Theoretische Physik III

Prof. Dr. D.Bruß

Wednesdays 10:30 - 11:30

Talk duration: 45 minutes

Organizer: Giacomo Carrara (carrara@uni-duesseldorf.de)

Location: all talks are scheduled to take place in person, in seminar room 25.32.03.51. Hybrid presentation is also possible on request.

Date	Name	Title	Literature
20.04	Lucas Tendick	Nature's nonlocality must be boundlessly multipartite: an experimental demonstration under strict locality conditions	arXiv:2203.00889 [quant-ph]
27.04 or 04.05	Gláucia Murta	Device-Independent Quantum Key Distribution with Random Postselection	Phys. Rev. Lett. 128 , 110506 (2022)
11.05	Thomas Wagner	Using Quantum Metrological Bounds in Quantum Error Correction: A Simple Proof of the Approximate Eastin-Knill Theorem	Phys. Rev. Lett. 126 , 150505, (2021)
18.05	Maximilian Harth	Quantum Mechanics Without State Vectors	Phys. Rev. A 90 , 042102 (2014)
25.05	Julia Kunzelmann	Making Music Using Two Quantum Algorithms	arXiv:2201.01681 [quant-ph]
01.06	Nikolai Wyderka	Finite-Time Quantum Landauer Principle and Quantum Coherence	Phys. Rev. Lett. 128 , 010602 (2022)
15.06	Federico Grasselli	All quantum measurements are asymptotically equivalent	arXiv:2203.02593 [quant-ph]
22.06	Sascha Jansen	Bell Nonlocality Is Not Sufficient for the Security of Standard Device-Independent Quantum Key Distribution Protocols	Phys. Rev. Lett. 127 , 050503 (2021)
29.06	Giacomo Carrara	Detecting Heat Leaks with Trapped Ion Qubits	Phys. Rev. Lett. 128 , 110601 (2022)