

Journal Club on Quantum
Information Theory
(WS 2023)

Institute for Theoretical Physics III, D. Bruß

Tuesdays, 10:30h – 12:30h
Seminar room 25.32.03.51

Schedule				
Date	Presenter	Topic	Arxiv Reference	Journal Reference
24.10.23	Chandan Datta	Trading Causal Order for Locality	2202.00440	10.1103/PhysRevLett. 131.120201
31.10.23	Anton Trushechkin	Quantum information in space and time	2302.05638v1 & 2208.03696v2	10.1016/j.aop.2023. 169239 & NYP
07.11.23	Justus Neumann	Geometrical aspects of entanglement	quant-ph/0605079	10.1103/PhysRevA. 74.012313
14.11.23	Simon Hermes	Quantum correlations with no causal order	1105.4464	10.1038/ncomms2076
21.11.23	Julia Kunzelmann	Belief propagation as a partial decoder	2306.17142v2	Not Yet Published (NYP)
28.11.23	N/A	N/A	N/A	N/A
05.12.23	Giacomo Carrara	Quantum Key Distribution over 658 km Fiber with Distributed Vibration Sensing	2110.11671	10.1103/PhysRevLett. 128.180502
12.12.23	Gláucia Murta	Logical possibilities for physics after MIP*=RE	2307.02920v1	Not Yet Published
19.12.23	Ghi Coulter-de Wit	Detecting multipartite entanglement via complete orthogonal basis	2310.06431	Not Yet Published
9.1.24	Nikolai Wyderka	An Uncertainty Principle for the Curvelet Transform, and the Infeasibility of Quantum Algorithms for Finding Short Lattice Vectors	2310.03735	Not Yet Published
16.1.24	Kamill Naczynski	Suppressing quantum errors by scaling a surface code	2207.06431v2	Not Yet Published
23.1.24	Monika	Quantum computation over continuous variables	2107.02151 & quant-ph/9810082v2	10.1103/PhysRevLett. 82.1784 & NYP
30.1.24	Raphael Brinster	The black hole information puzzle and the quantum de Finetti theorem	2110.14653	Not Yet Published