

## Journal Club on Quantum Information Theory SS 2021

Institut für Theoretische Physik III (Quantum information)

Prof. Dr. D.Bruß

Thursday 10:30 - 11:30

ONLINE

Talk duration: 45 minutes

Organization: glaucia.murta@hhu.de

Date	Name	Title	Literature
April 29	Sascha Jansen	Entanglement Sharing in Real-Vector-Space Quantum Theory	<a href="https://arxiv.org/abs/1007.1479">https://arxiv.org/abs/1007.1479</a>
May 06	Johannes Moerland	Family of multipartite separability criteria based on a correlation tensor	<a href="https://journals.aps.org/prabstract/abstract/10.1103/PhysRevA.101.012341">https://journals.aps.org/prabstract/abstract/10.1103/PhysRevA.101.012341</a>
May 27	Giacomo Carrara	Macroscopically nonlocal quantum correlations	<a href="https://arxiv.org/abs/2104.03988">https://arxiv.org/abs/2104.03988</a>
June 10	Lucas Tendick	Quantum states as observables: Their variance and nonclassicality	<a href="https://journals.aps.org/prabstract/abstract/10.1103/PhysRevA.102.062211">https://journals.aps.org/prabstract/abstract/10.1103/PhysRevA.102.062211</a>
June 24	Christian Helle	Quantum Entanglement in the Triangle Network	<a href="https://arxiv.org/abs/2002.03970">https://arxiv.org/abs/2002.03970</a>
July 08	Nikolai Wyderka	Five open problems in theory of quantum information	<a href="https://arxiv.org/abs/2002.03233">https://arxiv.org/abs/2002.03233</a>
July 15	Jan Juettner	Searching for interstellar quantum communications	<a href="https://arxiv.org/abs/2104.06446">https://arxiv.org/abs/2104.06446</a>
July 22	Thomas Wagner	Fiber Bundle Codes: Breaking the $N^{1/2}\text{polylog}(N)$ Barrier for Quantum LDPC Codes	<a href="https://arxiv.org/abs/2009.03921">https://arxiv.org/abs/2009.03921</a>