

# Quantum Corona II

## Quantum Correlations of Nature II

Siegen, 02.10.2023 – 05.10.2023

Conference venue: [D308 Emmy Noether Campus – Walter-Flex Str. 3, 57072 Siegen](#)

### Monday 02.10.2023

9:00 – 9:50	<b>Armin Tavakoli</b> Entanglement and steering with imprecise measurements
9:50 – 10:15	<b>Gabriele Cobucci</b> Detection of high-dimensional genuine multipartite entanglement
10:15 – 10:45	Coffee break
10:45 – 11:35	<b>Giuseppe Vitagliano</b> Recent advancements in entanglement detection with spin-squeezing methods
11:35 – 12:00	<b>Satoya Imai</b> Collective randomized measurements in quantum information processing
12:00 – 12:25	<b>Shuheng Liu</b> Characterizing entanglement dimensionality from the covariance matrix
12:25 – 14:00	Lunch break
14:00 – 14:50	<b>Xiongfeng Ma</b> Limitation on entanglement detection
14:50 – 15:15	<b>Robin Krebs</b> High Schmidt number distillation within the PPT set
15:15 – 15:45	Coffee break
15:45 – 16:35	<b>Xiao-Long Su</b> The experimental advances in Gaussian quantum steering
16:35 – 17:00	<b>Lucas Tendick</b> Distributed quantum incompatibility
19:00	Conference dinner (details will be provided)

### Tuesday 03.10.2023

9:00 – 9:50	<b>Robert Raussendorf</b> Is negativity in quasiprobability functions necessary for universal quantum computation with magic states?
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9:50 – 10:15	<b>Tristan Kraft</b> Classification of phases of matrix product states under symmetric circuits with measurement feedback
10:15 – 10:45	Coffee break
10:45 – 11:35	<b>Yu Xiang</b> Quantum steering and its applications in quantum information
11:35 – 12:00	<b>Prabhav Jain</b> Information causality as a tool for bounding the set of quantum correlations
12:00 – 12:25	<b>Nikolai Wyderka</b> Refuting spectral compatibility of quantum marginals
12:25 – 14:00	Lunch break
14:00 – 14:50	<b>Shaoming Fei</b> Quantum correlations and uncertainty
14:50 – 15:15	<b>Konrad Szymański</b> Improving localizable entanglement in graph states through error-detecting measurements
15:15 – 15:45	Coffee break
15:45 – 16:35	<b>Ramona Wolf</b> Commuting operations factorize
16:35 – 17:00	<b>Martin Plávala</b> Tsirelson Inequalities: Detecting cheating and quantumness in one fell swoop

## Wednesday 04.10.2023

9:00 – 9:50	<b>Manuel Gessner</b> Entanglement and steering in quantum metrology
9:50 – 10:15	<b>Szilárd Szalay</b> Alternatives of entanglement depth
10:15 – 10:40	<b>Lina Vandr�</b> A Graphical Formalism for Entanglement Purification
10:40 – 11:10	Coffee break
11:10 – 12:00	<b>Jin-Shi Xu</b> Experimental observation of shareability and non-Markovian evolution of Einstein-Podolsky-Rosen steering
12:00 – 12:25	<b>Yien Liang</b> Pathological behavior of point estimators with minimum bias (in quantum tomography, etc.)
12:25 – 12:50	<b>Carlos de Gois</b> User-friendly confidence regions for quantum state tomography
12:50 – 14:00	Lunch break
afternoon	Hiking tour (details will be provided)

## Thursday 05.10.2023

Discussions at the [Emmy-Noether-Campus](#)

Brewery tour starting around 6 pm (details will be provided)