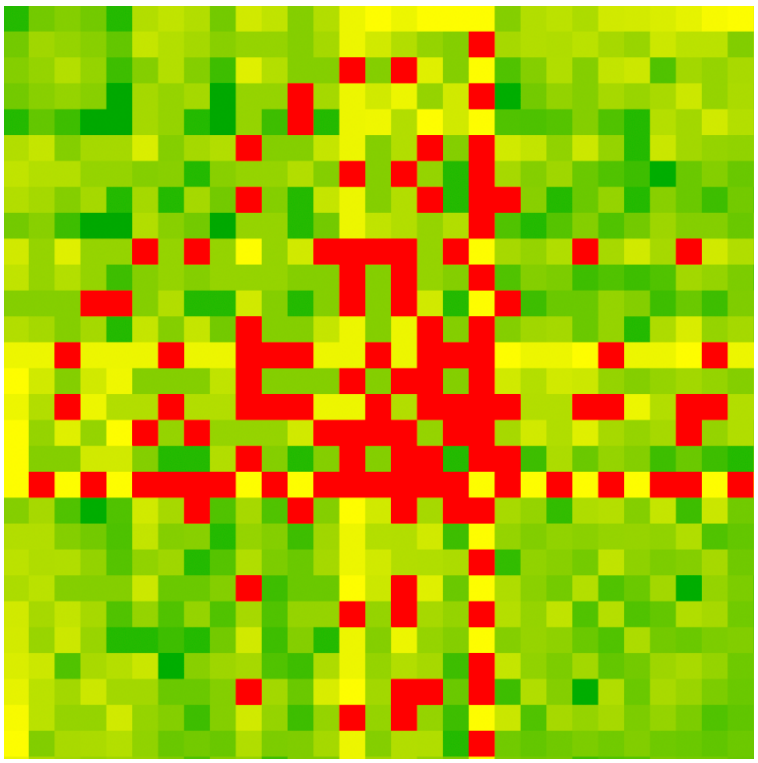
Quantum Optics and Statistics

Symposium organized by

Gabriel Dufour (University of Freiburg, Germany)
Peter Schlagheck (University of Liege, Belgium)
Sandro Wimberger (University of Parma, Italy)

in honor of a round birthday of Andreas Buchleitner.

University of Freiburg, December 6th and 7th, 2024.



Programme

Friday, December 6th **KG I, HS 1221**

9h00 – 9h15	opening
9h15 – 9h45	Klaus Hornberger : *Probing macroscopic quantum superpositions with nanoparticles*
9h50 – 10h20	Giacomo Sorelli : *Resolving point sources at the quantum limit*
10h25 – 11h00	coffee break
11h00 – 11h30	Mattia Walschaers : *Quantum information processing with light: From boson sampling to mode-intrinsic entanglement*
11h35 – 12h05	Frank Schlawin : *Entangled photon spectroscopy – (almost) 10 years later*
12h10 – 14h00	lunch break

Friday, December 6th **KG I, HS 1221**

14h00 – 14h30	Alberto Rodriguez : *Many-body quantum chaos and dynamical ergodicity for interacting bosons*
14h35 – 15h05	Lukas Pausch : *Dissipative phase transition: from qubits to qudits*
15h10 – 15h45	coffee break & group photo
15h45 – 16h15	Angelika Knothe : *Two-dimensional materials for quantum technologies*
16h20 – 16h50	Hler Kristjansson : *Higher-order computation and indefinite causal order in quantum physics*
16h55 – 17h25	Tobias Binninger : *Active and stable catalysts for water electrolysis: the case of Iridium dioxide*
17h30 – 18h30	reception

Saturday, December 7th **Großer Hörsaal**

9h30 – 10h00	Malte Christopher Tichy : *Scaling-aware rating of count forecasts – a tale of attempted interdisciplinarity*
10h05 – 10h35	Tobias Geiger : *Climate Change and its impacts to society*
10h40 – 11h10	coffee break
11h10 – 11h40	Alexey Ponomarev : *Cutting-edge optics technology for the next generation of lithographic machines*
11h45 – 12h15	Tobias Brünner : *Mikrochips für Megatrends – Wie ZEISS die Digitalisierung vorantreibt*
12h20 – 12h50	Thomas Wellens : *Discrete adiabatic quantum optimization*