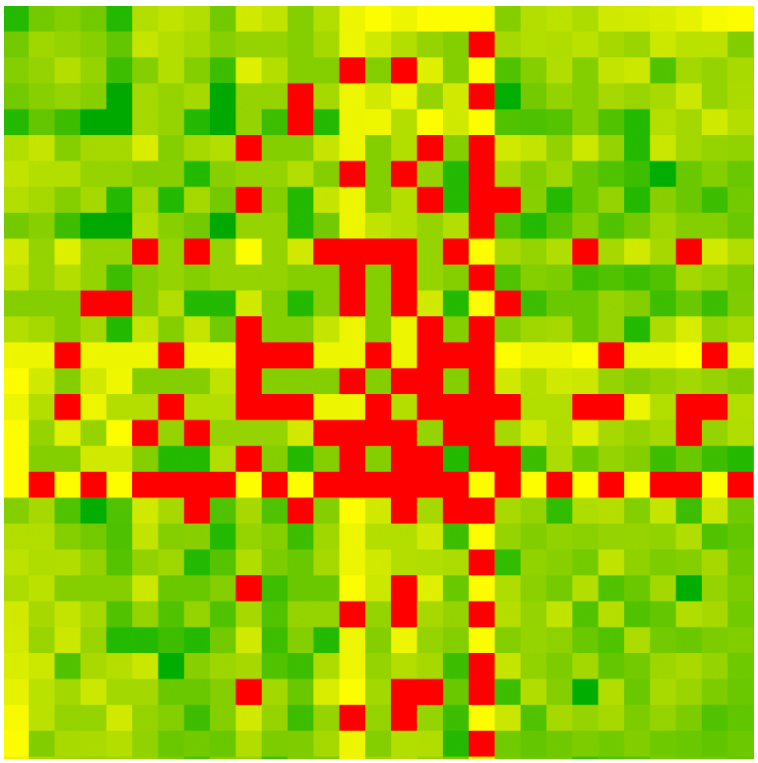
Quantum Optics and Statistics

Symposium organized by

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

in honor of the 60th 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 – 15h40	Ugo Marzolino : *Relation between quantum metrology and quantum computation*
15h45 – 16h20	coffee break & group photo
16h20 – 16h50	Angerika Knothe : *Two-dimensional materials for quantum technologies*
16h55 – 17h25	Hler Kristjansson : *Higher-order computation and indefinite causal order in quantum physics*
17h30 – 18h00	Tobias Binninger : *Active and stable catalysts for water electrolysis: the case of Iridium dioxide*

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 Megtrends – Wie ZEISS die Digitalisierung vorantreibt*
12h20 – 12h50	Thomas Wellens : TBA