



ONLINE WORKSHOP Celebrating the Choi-Jamiołkowski Isomorphism

1-2 March 2023

PROGRAMME

Wednesday, 1 March (CET: GMT+2)

Session Chair: Karol Życzkowski

15.00-15.10

Karol Życzkowski (Kraków)
Opening Address

15.10-15.40

Guest of Honour
Andrzej Jamiołkowski (Toruń)

15.45-16.15

Giulio Chiribella (Hong Kong)
Higher-order quantum processes and quantum causal structures

16.20-16.50

Saverio Pascazio (Bari)
The Choi-Jamiołkowski Isomorphism: when Maths meets Physics

16.55-17.15

COFFEE BREAK

Session Chair: Dariusz Chruściński

17.15-17.45

Erling Størmer (Oslo)
Generalizations of the Choi matrix

17.50-18.20

Fabio Benatti (Trieste)
A few puzzles in open quantum dynamics

18.25-18.55

Ingemar Bengtsson (Stockholm)
The Heisenberg groups and the dimensions of Hilbert spaces

Thursday, 2 March (CET: GMT+2)

Session Chair: Francesco Petruccione

15.00-15.30

Ángela Capel Cuevas (Tübingen)
A generic quantum Wielandt's inequality

15.35-16.05

Emily Adlam (London)
The Operational Choi-Jamiołkowski Isomorphism

16.10-16.40

Alexander Müller-Hermes (Oslo)
Non-decomposable positive maps from tensor products

16.45-17.00

COFFEE BREAK

Session Chair: Vinayak Jagadish

17.00-17.30

Sabrina Maniscalco (Helsinki)
Emergent entanglement structures and self-similarity in quantum spin chains

17.35-18.05

Vern Paulsen (Waterloo)
Positive Maps and Entanglement in Real Hilbert Spaces

18.10-18.40

Guest of Honor
Prof. Man-Duen Choi (Toronto)

18.45-19.00

Francesco Petruccione (Stellenbosch)
Closing Remarks