

Celebrating the Choi-Jamiołkowski Isomorphism



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Online Event

March 1-2, 2023

(Endorsed by the National Center for Quantum
Informatics (KCIK), Gdańsk)



Contribution ID: 3

Type: **not specified**

The Heisenberg groups and the dimensions of Hilbert spaces

Wednesday, 1 March 2023 18:25 (30 minutes)

Finite Heisenberg groups have a certain universal status. In every finite dimensional Hilbert space there is at least one Heisenberg group that acts irreducibly in this dimension, and in no other. I will describe some dimension dependent structures that arise in this way, and some connections between seemingly different dimensions that arise from them.

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