

UCD School of Mathematics and Statistics

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Scoil na Matamaitice agus na Staitisticí UCD

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Analysis Seminar

Rupert Levene

will speak on

State conversion using von Neumann algebras

Tue 9th October 2018 at 4:00PM

Location: Seminar Room SCN 1.25

Nielsen's theorem gives a simple characterisation of the pairs of pure finite-dimensional quantum states for which one may be converted to the other using 'local operations and classical communication'. We will give a mathematical introduction to this important result from quantum information theory, along with a new generalisation to an infinite-dimensional von Neumann algebraic context.

This is based on joint work with Jason Crann, David Kribs and Ivan Todorov.

This talk is part of the **Analysis** series. For more, see https://maths.ucd.ie/seminars