

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
UNIVERSITY OF SOUTHERN DENMARK, ODENSE

Mathematics seminar

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Measuring entanglement

Thursday 23 November 2017, 14:15-16:00
IMADA seminar room

Abstract

Entanglements are the strong correlations that arise in quantum mechanics. Today we think of them as resources that are being consumed in quantum computation and communication. The teleportation of one qubit from Alice to Bob, for instance, requires one pair of entangled qubits. Measuring the amount of entanglement is thus an essential skill, not least for benchmarking current experiments. The colloquium gives a crash course in this skill.

The talk may be seen as a teaser for the paper

<http://science.sciencemag.org/content/340/6137/1205> and the more recent developments in <https://arxiv.org/abs/1709.07851>

Host: David Kyed