



## Probability Seminar

**Title:** Majorization relation and geometry of quantum states

**Speaker:** Fabio Deelan Cunden (UCD)

**Date:** Wed 13th November 2019 at 2:00PM

**Location:** Seminar Room SCN 1.25

**Abstract:** The majorization relation plays a significant role in mathematics and science. I will give some background and then discuss an open problem in entanglement theory concerning the probability that two random vectors are comparable in the sense of majorization. I will explain recent progresses on this problem based on connections with persistence probabilities of non-Markovian processes and extreme eigenvalues of random matrices. Based on joint work with Paolo Facchi, Giuseppe Florio and Giovanni Gramegna.

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