



Contribution ID: 60

Type: **Oral**

Generic aspects of the resource theory of coherence

Friday, 2 October 2020 16:00 (7 minutes)

The class of incoherent operations induces a pre-order on the set of quantum pure states. We study the maximal success probability of incoherent conversion between pairs of n -dimensional random pure states chosen independently, and find an explicit formula for its large- n asymptotic distribution. Our analysis shows that the statistics of the maximal conversion probability can be determined by the behaviour of the extreme values.

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Session Classification: Contributed