ON INDISTINGUISHABILITY OF QUANTUM STATES

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Abstract: In this paper we shall study quantum ancillary statistics. For a given quantum measurement M we will define the indistinguishability relation of states in the following way: Two states are *indistinguishable* by M if they generate with M the same probability measure. For such a relation the equivalence classes will be described. At the end we will give some elementary examples of informationally complete measurements that arise from the theorems characterizing the indistinguishability relation.

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