PROBABILITY INSTEAD OF SPIN-1/2 DENSITY MATRIX AND QUANTUM SUPREMATISM WITH MALEVICH'S SQUARES AS THE QUBIT-STATE DESCRIPTION

Giovedì 25 maggio alle 15,30 presso l'aula B di Via Archirafi, 36 del DiFC

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Abstract

The quantum tomography approach to qudit states, where the fair probability distribution is used as an alternative of the wave function and the density matrix, is presented. For qubit states, the geometric representation with a triangle-and-square map of the Bloch sphere onto a plane is suggested. The new uncertainty relation for spin-1/2 states is found.