Quantum Physics

Guessing Quantum Ensemble Using Laplace Principle

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For a mixed quantum state with density matrix \$\rho\$ there are infinitely many ensembles of pure quantum states, which average to \$\rho\$. Starting from Laplace principle of insufficient reason (not to give \emph {a priori} preference to any particular state), we derive a `natural' distribution of pure states averaging to \$\rho\$, which is `more spread' than all the others.

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