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Contradiction of the DENSITY **MATRIX** notion in quantum mechanics

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It is shown that description of a nonpolarized neutron beam by density matrix is contradictory. Density matrix is invariant with respect to choice of quantization axis, while experimental devices can discriminate between different quantization axes.

Comments: 6 pages, no figures, slightly edited **General Physics (physics.gen-ph)** Subjects: Cite as: arXiv:1204.1030 [physics.gen-ph]

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