

# Quantum mechanics and discontinuous motion of particles

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## Abstract

We discuss a new realistic interpretation of quantum mechanics based on discontinuous motion of particles. The historical and logical basis of discontinuous motion of particles is given. It proves that if there exists only one kind of physical reality---particles, then the realistic motion of particles described by quantum mechanics should be discontinuous motion. We further denote that protective measurement may provide a direct method to confirm the existence of discontinuous motion of particles.

**Keywords:** interpretation of quantum mechanics,particles,discontinuous motion,dynamical collapse,discrete space-time

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