

CP-01-03

A cold-atom quantum computer

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Abstract

I will present the Cold-Atom Quantum Computer project being run within the Moonshot Goal 6 program "Fault-tolerant quantum computers". I will introduce the vision on how our R&D efforts are organized to push the performance of cold-atom-based platform. I will then describe the large-scale effort to realize a quantum computer prototype established collaborations accross Japan and abroad, as well as more specific research lines pushing along promising and exciting directions.