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Lattice studies of hadron physics with disconnected quark loops

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Disconnected diagrams give crucial contributions to the physics of flavor singlet hadrons and to scalar form factors of non-singlet hadrons. Lattice calculation of the disconnected diagrams is not straightforward because naively it requires huge number of fermion matrix inversions. In this talk, we present recent progress with improved simulation methods particularly focusing on the flavor-singlet meson spectrum and nucleon strange quark content.

Primary author: KANEKO, Takashi (KEK)

Presenter: KANEKO, Takashi (KEK)

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