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An application of stochastic LapH method to Hadron interaction in lattice QCD

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The first principle calculation of hadron-hadron interaction is an important step toward the understanding of nuclear physics from QCD. The HAL QCD method is largely contributing to this purpose by making it possible to calculate nuclear potentials in lattice QCD. We now try to extend the HAL QCD method to systems such as $\pi - \pi$ and $\pi - N$, where pair creation and annihilation of quarks become possible, employing the stochastic LapH smearing. In this talk, we explain our methodology and report the current status on the application to two meson interactions.

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