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Calculatin of ρ meson decay width from the PACS-CS configurations

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We present our results of the ρ meson decay width estimated from the scattering phase shift for $I = 1$ two pion system.

Calculations are carried out with

$N_f = 2 + 1$ gauge configurations previously generated by the PACS-CS Collaboration

with the Iwasaki gauge action and nonperturbatively

$O(a)$ -improved Wilson fermion

at $m_\pi/m_\rho = 0.46$ on 32×64 ($La = 2.9 fm$).

The finite size method presented by Rummukainen and Gottlieb is employed to evaluated the scattering phase shift from energy eigenvalues.

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talk

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