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Scattering length from BS wave function inside the interaction range

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We evaluate scattering lengths by use of a scattering amplitude
calculated with the Bethe-Salpeter wave function
inside the interaction range.
Scattering lengths of I=2 two pions are computed
by both conventional and our methods
with $m_\pi = 0.52 - 0.86$ GeV in the quenched lattice QCD.
The results are compared with each other to confirm consistency.
Furthermore, a half off-shell amplitude is calculated.

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