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Kaon Kaon scattering at maximal isospin from $N_f = 2 + 1 + 1$ twisted mass lattice QCD

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We present results for the interaction of two Kaons at maximal isospin. The calculation is based on 2+1+1 flavour gauge configurations generated by the ETM Collaboration featuring pion masses ranging from about 230 MeV to 450 MeV at three values of the lattice spacing. The elastic scattering length a_0 is calculated at several values of the bare strange quark and light quark masses. Chiral extrapolations to the physical point are presented and compared to other lattice results.

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