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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.

**Author:** Mr HELMES, Christopher (HISKP Universität Bonn)

**Co-authors:** Mr KOSTRZEWA, Bartosz (HISKP (Theory), Universitaet Bonn); Prof. URBACH, Carsten (University of Bonn); Mr JOST, Christian (University Bonn); Dr LIU, Liuming (University of Bonn); Mr WERNER, Markus (University Bonn)

**Presenter:** Mr HELMES, Christopher (HISKP Universität Bonn)

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