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Pi-Pi Scattering with $N_f=2+1+1$ Twisted Mass Fermions

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Pi-Pi scattering is investigated for the first time for $N_f=2+1+1$ dynamical quark flavours using Wilson twisted mass fermions. Lüscher's finite size method is used to relate energy shifts in finite volume to scattering quantities like the scattering length in the $I=2$ channel. The computation is performed at several pion masses and lattice spacings utilising the stochastic LapH method, which is applied to spatial lattice volumes as large as 48^3 .

Primary author: Dr KNIPPSCHILD, Bastian (HISKP, University Bonn)

Presenter: Dr KNIPPSCHILD, Bastian (HISKP, University Bonn)

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