Contribution ID: **109**   Type: **Oral presentation**

Validation of the Lüscher method on the lattice

Tuesday 27 July 2021 14:45 (15 minutes)

L\"{u} scher method for two-particle scattering is a critical tool for
connecting finite-volume spectrum to infinite-volume scattering phaseshifts.
We numerically validate the quantization conditions up to partial waves l=4.
Various setups used in practice are considered: cubic or elongated lattices, rest or moving frames, unequal or
equal masses, and integer or half-integer total angular momentum.

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Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions