The 38th International Symposium on Lattice Field Theory

LATTICE 21

JULY 26-30 2021, ZOOM/GATHER@MIT

Contribution ID: **308** Type: **Oral presentation**

Scattering from generalised lattice ϕ^4 theory

Tuesday 27 July 2021 06:15 (15 minutes)

We numerically investigate different techniques to extract scattering amplitudes from a Euclidean Lattice ϕ^4 theory with two fields having different masses. We present an exploratory study of a recently proposed method by Bruno and Hansen for extracting the scattering length from a four-point function (cf. arXiv:2012.11488) and a study of the two and three particle quantization condition.

Primary authors: GAROFALO, marco (University of Bonn); ROMERO-LÓPEZ, Fernando (Universitat de València); RUSETSKI, Akaki (Univerity of Bonn); URBACH, Carsten (University of Bonn)

Presenter: GAROFALO, marco (University of Bonn)

Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions