

Abstract Submitted
for the APR20 Meeting of
The American Physical Society

The Lüscher method for scattering on the lattice¹ FRANK LEE,
ANDREI ALEXANDRU, George Washington Univ — The Lüscher method for elastic scattering is a critical tool for understanding hadron-hadron interactions from lattice QCD. We investigate the approximations made in its applications in a simple quantum mechanical model. The quantization condition is numerically examined by including higher partial waves. Various setups used in practice are considered: cubic and elongated lattices, moving frames, and systems with integer and half-integer spin.

¹Supported in part by U.S. Department of Energy grant DE-FG02-95ER40907

Frank Lee
George Washington Univ

Date submitted: 08 Jan 2020

Electronic form version 1.4