



Contribution ID: 144

Type: **Parallel**

The Development of Hamiltonian Finite Volume Method of Two Body System within Partial Wave Mixing in Rest System

Saturday, 17 August 2019 17:10 (20 minutes)

Hamiltonian effective field theory has been used for explaining Lattice data. We develop it within partial waves mixing in the rest frame. The dimension of the Hamiltonian can be highly reduced with the partial wave cut-off and rotation symmetry. We apply this method to extract the Pion-Pion s-, d- and f-wave phase shifts within Isospin=2 case.

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Session Classification: Session 5: Analysis tools

Track Classification: Session 5: Analysis tools