

Precision Spectroscopy in Light Isovector, Isoscalar and Hybrid Mesons

Presenter: Alan O Cais (Trinity College Dublin)

A. O Cais, M.J. Peardon, S.M. Ryan, R. Morrin, J. Skullerud, M.B. Oktay

Abstract: Efficient determination of the spectrum of light isovector, isoscalar and hybrid mesons using a practical all-to-all propagator method is discussed. The costs and benefits from the explicit inclusion of low-lying eigenmodes of the lattice quark propagator are investigated. Recent results on dynamical anisotropic lattices are presented.