Meson spectroscopy from lattice QCD

Michael Peardon^(a),

^(a) School of Mathematics, Trinity College Dublin, Ireland

A review of recent developments in the techniques used for investigating meson excitation spectra from lattice QCD is presented, focussing on new results coming from the application of these methods. Results for the spectrum of isovector and isoscalar mesons as well as charmonium states will be discussed. The difficulties encountered in determining the widths of resonances from the Euclidean lattice will be described, along with a progress report on new calculations relevant to these quantities.

E-mail:

mjp@maths.tcd.ie