

Gemeinsame Veranstaltung von
Humboldt-Universität zu Berlin, Institut für Physik
(Theorie der Elementarteilchen / Computerorientierte Theoretische Physik)
DESY, Zeuthen

SEMINAR
Feldtheorie auf dem Gitter und
Phänomenologie der Elementarteilchen

Am Montag, dem **30. November 2009**, um **16:00 Uhr s.t.** spricht

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zum Thema

Excited hadrons in $n_f = 2$ QCD

Abstract

The chirally improved fermion action allows us to obtain results for pion masses down to 320 MeV on comparatively small lattices with physical extent of 2.4 fm. We use differently smeared quarks sources to build sets of several interpolators. The variational method then leads to excellent ground state masses for most mesons and baryons. It also gives information on the composition of the hadrons. I will present simulation, analysis method and results, in particular masses of hadron ground states and excited states.

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