

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 Dienstag, dem **11 Juli, um 15:30 Uhr s.t.** spricht

Dr. Robert Tweedie

University of Edinburgh

zum Thema

Hadronic Physics from 2+1 flavour Domain Wall QCD from QCDOC

Abstract

A 14000 node QCDOC computer has been operational in Edinburgh for one and a half years. I present results from the ensembles generated on QCDOC using the domain wall fermion action and both the Iwasaki and DBW2 gauge actions. These lattices have volumes of $16^3 \times 32$ and $24^3 \times 64$ with a fifth dimension size of 8 or 16 and u and d masses as low as one quarter of the strange quark mass. I will present an overview of recent results from these lattices, in particular, I will discuss meson and baryon masses, quark masses and B_K .

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Web: <http://www-zeuthen.desy.de/~shindler/seminar/seminar.html>