

Department of Theoretical Physics

Special Free Meson Seminar

<i>Speaker</i>	:	Bastian Brandt (University of Mainz)
<i>Topic</i>	:	The $N_f = 2$ phase transition: Towards the chiral limit with reduced systematic effects
<i>Day, Date & Time</i>	:	Wednesday, November 23, 2011 at 2:30 p.m.
<i>Place</i>	:	Theoretical Physics Seminar Room (A304)

Abstract

I report on the status of our current study on the transition temperature and the order of deconfinement and chiral transition in the chiral limit of two-flavour QCD. To reduce possible systematic effects we utilise non-perturbatively $O(a)$ -improved Wilson fermions and work on lattices as large as 16×64^3 with pion masses down to 200 MeV. I also report on results, obtained with an extended Multi-Histogram method for beta-dependent fermion actions and discuss its stability.

(Nilmani Mathur)