Hadron Spectrum and Quark Masses

Monday 2:10 - 3:50 Hartmut Wittig

Joly Lecture Theatre

Ting-Wai Chiu Hadron Masses in Lattice QCD with Exact Chiral Symmetry Craig McNeile Matrix elements and baryon spectroscopy from unquenched

lattice QCD with improved staggered guarks

Maxwell Lecture Theatre

Claudio Rebbi Light hadron spectroscopy in quenched QCD with overlap quarks

on a large lattice

Lattice QCD with N_f=2 light Wilson fermions: the phase **Urs Wenger**

structure and scaling

Scaling test of the P4-improved staggered fermion action Michael Cheng

Monday 4:20 - 6:20 (i) TBA

Joly Lecture Theatre Oliver Baer Determining the low energy parameters of Wilson Chiral

Perturbation Theory

Staggered Lattice Artifacts in 3-Flavor Heavy Baryon Chiral Jon Bailey

Perturbation Theory

Derek Leinweber Power Counting Regime of Chiral Extrapolation and Beyond Chiral and Continuum Extrapolation of Partially-Quenched Hadron Chris Allton

Masses

Shinji Takeda Wilson chiral perturbation theory for 2+1 flavors

Abdou Abdel-Rehim Maximal twist and the spectrum of quenched twisted mass lattice

QCD

Monday 4:20 - 6:20 (ii) John Negele

Pietro Faccioli Studying diquark correlations in the nucleon by means of lattice

QCD simulations

Biagio Lucini Searching for diquarks in hadrons Konstantinos Orginos Diquark properties from lattice QCD

Andreas Schaefer Moments of Generalized Tensor Parton Distributions

Wolfram Schroers Hadron structure with light dynamical quarks: generalized parton

distributions

Tomomi Ishikawa Light hadron spectrum and quark masses in 2+1 flavor QCD

Tuesday 4:00 - 6:00 Christof Gattringer

Johan Bijnens Two Loop Partially Quenched and Finite Volume Chiral

Perturbation Theory Results

Christoph Haefeli The pion mass in finite volume to two loops

Kiyoshi Sasaki Excited Baryon Spectroscopy from Lattice QCD: Finite Size

Effect and Hyperfine Mass Splitting

Joly Lecture Theatre

Shoichi Sasaki Bound state spectrum in the finite volume

Merritt Cook Hybrid Exotic Meson Decay Width

Dirk Pleiter Meson decay constants from N_f=2 clover fermions

Wednesday 9:00 - 10:40 Steven Gottlieb

Joly Lecture Theatre

Anisotropic lattice QCD study of pentaguark baryons in spin 3/2 Takumi Doi

channel

Tung-Han Hsieh Mass Spectra of Pentaquarks -- Overlap Fermion versus Wilson

Fermion

Tamas G. Kovacs Pentaquark search with spatially non-trivial operators

Ben Lasscock Spin-3/2 Pentaguark Resonance Signature

Nilmani Mathur A study of tetraquark mesonium on the lattice with overlap fermion Wednesday 10:55 - 11:55 Steven Gottlieb

Joly Lecture Theatre

Joly Lecture Theatre

Joly Lecture Theatre

Maxwell Lecture Theatre

The Quark Structure of Pentaquarks John Negele

Hideo Suganuma Lattice QCD Evidence for Exotic Tetraquark Resonance Toru Takahashi Search for the S=+1 pentaguarks in guenched lattice QCD

Thursday 2:10 - 3:50 Roberto Frezzotti

Federico Farchioni Analysis of unquenched twisted-mass data with Wilson and

DBW2 action

Vittorio Lubicz Role of the Clover operator in lattice QCD at maximal twist close

to the chiral limit

Ines Wetzorke Dynamical Wilson twisted mass fermions: a scaling analysis Christian Hagen Baryon spectroscopy with spatially improved quark sources

Adam Lichtl An Exploration of Extended Baryon Operators

Thursday 4:20 - 6:20 (i) Norman Christ

Quark masses from quenched overlap fermions Martin Gürtler

Roger Horsley A determination of the strange guark mass for unquenched clover

fermions using the AWI

Cecilia Tarantino Non-perturbatively Renormalized Light Quark Masses with Two

Dynamical Fermions

Light meson and strange quark masses in 2+1 flavour Domain Robert Tweedie

Wall QCD from QCDOC

Valentina Porretti Operator product expansion and quark condensate from LQCD in

coordinate space

Double poles in Lattice QCD with mixed actions Maarten Golterman

Thursday 4:20 - 6:20 (ii) Keh-fei Liu

Eric Gregory Pseudoscalar Singlet Physics with Staggered Fermions

> Isovector and Isoscalar Scalar Mesons with All-to-all Propagators Effects of partial quenching and staggered fermions on the scalar

correlator

Mehmet Oktay Charmonium Spectrum with all-to-all propagators

H. Rudolf Fiebig Interaction studies of a heavy-light meson-baryon system

Balint Toth A comprehensive search for the Theta^+ pentaquark on the lattice

(II)

Friday 2:10 - 3:50 TBA

Alan O Cais

Sasa Prelovsek

Christopher Aubin Lowest Order Hadronic Contribution to the Muon q-2

Yusuke Namekawa Electromagnetic mass difference on the lattice

Antonios Tsapalis The N to Delta transition form factors with light dynamical fermions Norikazu Yamada

Electromagnetic properties of hadrons with the two flavor

Joly Lecture Theatre

Joly Lecture Theatre

dynamical domain wall fermions

Subhasish Basak Analysis of N^{^*} spectra using improved interpolating field operators

Friday 4:20 - 6:20 Tom Blum

Koichi Hashimoto The static quark potential in 2+1 flavour Domain Wall QCD from

QCDOC

Meifeng Lin Probing the chiral limit of m pi and f pi in 2+1 flavor QCD with

domain wall fermions from QCDOC

Robert Mawhinney Gauge Action Effects on 3 Flavor QCD with Domain Wall

Fermions

Shiqemi Ohta Heavy-light mesons with domain wall fermions

Tommy Burch Excited meson spectroscopy with chirally improved fermions Chris Maynard Baryons in 2+1 flavour Domain Wall QCD from QCDOC

Posters

Constantia Alexandrou Examining whether the volume dependence of spectral weights

can distinguish between a resonance and a scattering state

Ronald Babich Light baryon spectroscopy and diquark correlations in quenched

QCD with overlap quarks on a large lattice

Update on pi, K physics Claude Bernard

Dieter Hierl The Exotic Baryon Theta^+(1540) on the Lattice

Alan Irving Scalar glueball and meson spectroscopy in unquenched lattice

QCD with improved staggered quarks

Taku Izubuchi Study of Flavour singlet meson in two-flavour Domain Wall QCD

Exotic Spectroscopy on Dynamical Anisotropic Lattices Jimmy Juge Giannis Koutsou Density-density correlators using all to all propagators Randy Lewis The hadron spectrum from twisted mass QCD with a strange

Frank Lee Magnetic polarizability of hadrons in the background field method Jenny Pickavance

Twisted mass fermions: neutral pion masses from disconnected

contributions

Motoo Sekiguchi I=1/2 Scalar and Axial Vector Mesons

Yukinari Sumino OPE Analysis of QCD Potential and Determination of

Lambda Msbar

Asymptotic Scaling and Monte Carlo Data Aurora Trivini

Naova Ukita Scaling test of dynamical Wilson twisted mass fermions with

DBW2 gauge action

Automated Methods in Chiral Perturbation Theory on the Lattice Georg von Hippel

Walter Wilcox Disconnected Loops with Twisted Mass Lattice QCD

Anthony Williams Light-Quark FLIC Fermion Simulations of the 1^-+ Exotic Meson