

Workshop

EUROGRAD

INTERNATIONALES GRADUIERTENKOLLEG
BASEL - GRAZ - TÜBINGEN

Hadronen im Vakuum, in Kernen und Sternen

Blaubeuren

29.September – 2.Oktober 2009

Monday, September 29

12:30- ...	LUNCH
14:00 – 14:50	Ehrhardt Katharina (Tü) <i>Status of Experiments at COSY-TOF</i>
14:45 - 15:10	Choi Ki-Seok (Graz) <i>Meson photoproduction and N^* resonances</i>
15:10 - 15:40	COFFEE

- 15:40 - 16:05 Branz Tanja (Tü)
f₀ and a₀ as hadronic molecules
- 16:05 - 16:50 Khakimova Olena (Tü)
The ABC Effect in Double-Pionic Fusion
-- is a new Eigenstate in the Deuteron the Reason for it?
- 16:50 - 17:15 Biernat Elmar (Graz)
Electromagnetic Meson Form Factors within a Relativistic Coupled-Channel Approach
- 17:15 - 17:40 Grygorov Pavlo (Tü)
Mean free Path of Neutrinos in the Crust of Neutron Stars
- 18:30 - ... DINNER
- 20:00 Guest Talk:

Syksy Rasanen (U. Genf):

The effect of structure formation on the expansion of the universe
- Cosmological observations require dark energy (or modified gravity) when interpreted in the context of homogeneous and isotropic cosmological models. I will discuss how it may be possible to explain the observations without any new physics, using just ordinary matter and gravity, once the presence of non-linear structures is taken into account.

Tuesday, September 30

- 9:00 - 9:45 Eichmann Gernot (Graz)
Meson and Baryon Properties in the Green-function approach
- 9:45 - 10:10 Pheron Francis (Basel)
Coherent photoproduction on light nuclei
- 10:10 - 10:40 COFFEE

- 10:40 - 11:05 Werthmueller Dominik (Basel)
Eta photoproduction on the deuteron
- 11:05 - 11:30 Maghrbi Yasser (Basel)
Eta and double pions photoproduction on Li7
- 11:30 - 12:15 Bilgici Erek (Graz)
A New Method of Calculating the Running Coupling Constant
- 12:30 - ... LUNCH
- 14:00 - 15:30 VISIT and TOUR: Blautopf, Kloster
- 16:00 – 16:30 COFFEE
- 16:30 - 17:15 Chavez Selym Villalba (Graz)
On the connection between Hamiltonian and Lagrange formalism in Quantum Field Theory
- 17:15 - 17:40 Jörgler Martina (Graz)
On the Influence of the Infrared on the Chiral Transition Temperature
- 17:40 – 18:05 Huber Markus (Graz)
Infrared Behavior of Yang-Mills Green functions in the maximally Abelian gauge
- 18:30 - ... DINNER
- 20:00 Guest Talk:
Nicolas Thomas (U. Bern):
Mars @25cm/px

The Mars Reconnaissance Orbiter (MRO) has been in its primary science phase for nearly two years. The high resolution camera system, HiRISE, has returned several terabytes of data. The images have been acquired at scales of down to 25 cm/px. The presentation will describe the basic hardware elements of HiRISE and show some of the more exciting results from the experiment. In addition, Uni Bern is responsible for programming the HiRISE image acquisition for the period Sept 27 to Oct. 11. The sequences currently being prepared will be running on the spacecraft during the Blaubeuren workshop. We hope to show the first images programmed by Uni Bern shortly after they have been acquired at the beginning of this two week cycle.

Wednesday, October 1

- 9:00 – 9:45 Sailer Christof (Tü)
Direct Dark Matter searches
- 9:45 - 10:10 Kimmerle Marcel (Tü)
Analysis of Data from direct Dark Matter searches
- 10:10 - 10:40 COFFEE
- 10:40 - 11:05 Bauer Michael (Tü)
Simulation of Muon-Induced background
- 11:05- 11:50 Campagnari Davide (Tü)
Hamiltonian Approach to Yang-Mills-Theory in Coulomb Gauge
- 11:50 - 12:15 Lichtenegger Klaus(Graz)
Coulomb Gauge QCD at Zero and Finite Temperature
- 12:30 - ... LUNCH
- 15:15 - 16:00 Leder Markus (Tü)
Hamiltonian Flows of Yang-Mills-Theory in Coulomb Gauge
- 16:00 - 16:30 COFFEE
- 16:30 – 17:15 Kaeppli Roger (Basel)
Introduction to core-collapse supernova simulation
- 17:15 - 17:40 Frischknecht Urs (Basel)
s-Process in massive stars at low metallicities
- 17:40 - 18:05 Winteler Christian (Basel)
*Numerical Methods for extended reaction networks
in r-process calculations*
- 18:30 - ... DINNER
- Dozenten Meeting

Thursday, October 2

- 9:00 – 9:45 Limmer Markus (Graz)
Hadron Spectroscopy with Dynamical Improved Fermions
- 9:45 - 10:10 Yousef Mohamed Saleh (Tü)
Double Beta Decay with Realistic Forces in deformed Nuclei
- 10:10 - 10:40 COFFEE
- 10:40 - 11:05 Ritter Florian (Tü)
Data Acquisition of the Gerda Double Beta Decay Experiment
- 11:05- 11:30 Meierhofer Georg (Tü)
Prompt Gamma Activation Analysis on Ge76
- Final Conclusions
- 12:30 - ... LUNCH

-- The End --