

**International Research and Training Group
School on Physics of Rare Probes
Heidelberg, 7-11.05.2012**

Physikalisches Institut (PI) Uni-Hd, Im Neuenheimerfeld 226, Conference room 1-3, groundfloor

Monday, 07.05.2010 (PI)

14:15 [Welcome](#) (N.Herrmann)

Session : Rare signals - from heavy-ions to neutrinos

14:30 [Strangeness in elementary and heavy ion collisions measured with HADES](#) (L. Fabbietti)

15:30 [CBM - heavy-ion physics at the high-rate frontier](#) (V. Friese)

16:30 **Coffee**

17:00 [Search for rare phenomena with the ICARUS detector](#) (J. Kisiel)

17:45 **Reception**

Tuesday, 08.05.2010 (PI)

Session : Rare Decays - Theory and Experiment

9:00 [The physics of rare decays - an introduction](#) (A. Schöning)

10:00 **Continued**

11:00 **Coffee**

11:30 [The Mu3e experiment - how to design an experiment searching for \$10E-16\$](#) (N. Berger)

12:30 **Lunch**

Session : Rare signals - yesterday, today, tomorrow

14:30 [Vector bosons and heavy-ion collisions in the CMS detector](#) (C. Mironov)

15:30 [SLHC - How and Why ?](#) (H.-Ch. Schultz-Coulon)

16:30 **Coffee**

17:15 **Particle Physics Colloquium : A New Pixel Detector for the CMS Experiment**
(U.Husemann)

Wednesday, 09.05.2012 (PI)

Session : Precision measurements with rare probes and rare decays

9:00 [The FOPI experiment - rare signals in HI collisions at low energies](#) (K. Wisniewski)

10:00 [Vector mesons decays @ low energies](#) (T. Galatyuk)

11:00 **Coffee**

11:30 [Hunting new physics with old particles - precision kaon physics with NA48/62](#) (R. Wanke)

12:30 **Lunch**

Social Activity

Thursday, 10.05.2012

Session : Rare signals - from atoms to quarks

9:00 [Trapped antihydrogen - a new frontier in fundamental physics](#) (N. Madsen)

10:00 [Charm and beauty physics with ALICE at the LHC](#) (S. Masciocchi)

11:00 **Coffee**

11:30 [Quarkonium production in nucleus-nucleus collisions in the LHC era](#) (A. Andronic)

13:00 **Lunch**

Free time

Friday, 11.05.2012 (PI)

9:00 [Study of rare decays at LHCb](#) (S. Hansmann-Menzemer)

10:00 - PhD Workshop

„Rare probes - relevance and implications for my work“

10:00 Christian Linn, [CP violation in B_s mixing](#)

10:20 Kyrre Skjerdal, [Rare probes in Ultra-peripheral collisions](#)

10:40 Daniel Lohner, [Anisotropy of direct photon production in Pb-Pb collisions at 2.76 TeV](#)

11:00 Per-Ivar Lonne, [Searching for AntiHyperTritons with the ALICE-HLT](#)

11:20 Attiq Ur Rehman, [The ALICE TPC Data Acquisition System - Implementation and Optimization](#)

11:40 coffee break

12:10 Johannes Stiller, [Full Reconstruction of B Mesons with the ALICE ITS Upgrade](#)

12:30 Patrick Eckert, [Silicon Photomultipliers in high precision detectors](#)

12:50 Christian Faerber, [Development of a new Readout Board for the LHCb Outer Tracker](#)