

Spring meeting of the DPG Division Hadronic and Nuclear Physics (HK) and EPS European Nuclear Physics Conference 2009

Reiner Krücken
Physik Department E12
Technische Universität München
James Franck Str.
85748 Garching
Germany
Reiner.Kruecken@ph.tum.de

Olaf Scholten
KVI
University of Groningen
Zernikelaan 25
NL 9747 AA Groningen
The Netherlands
scholten@kvi.nl

Ulrich Wiedner
Institut f. Experimentalphysik I
Gebäude NB 2 / 131
Ruhr-Universität Bochum
44780 Bochum
Germany
wiedner@ep1.rub.de

Overview of Plenary and Parallel Sessions

Invited Plenary Talks

| | | | | |
|---------|----|-------------|----------|---|
| HK 22.1 | Tu | 11:00–11:45 | Audi-Max | LHC Experiments and Physics — ●PETER JENNI |
| HK 22.2 | Tu | 11:45–12:30 | Audi-Max | Cosmic Matter in the FAIR Laboratory — ●HORST STOECKER |
| HK 44.1 | We | 11:00–11:45 | Audi-Max | Symmetries and phase transitions in nuclei — ●FRANCESCO IACHELLO |
| HK 44.2 | We | 11:45–12:30 | Audi-Max | ALICE at the dawn of LHC — ●KAI SCHWEDA |

Invited Talks

| | | | | |
|---------|----|-------------|----------|---|
| HK 1.1 | Mo | 10:00–10:30 | Audi-Max | Detection of dark matter : status and prospects — ●GILLES GERBIER |
| HK 2.1 | Mo | 11:00–11:30 | Audi-Max | Overview on Physics with radioactive ion beams (exchanged with HK 78.1) — ●ZSOLT PODOLYAK |
| HK 2.2 | Mo | 11:30–12:00 | Audi-Max | The structure of the nucleon from DIS experiments — ●FRANCO BRADAMANTE |
| HK 2.3 | Mo | 12:00–12:30 | Audi-Max | Moments of Exotic Nuclei — ●GERDA NEYENS |
| HK 2.4 | Mo | 12:30–13:00 | Audi-Max | Non-exponential electron capture decay of hydrogen-like ions — ●YURI LITVINOV |
| HK 21.1 | Tu | 9:00– 9:30 | Audi-Max | Lattice QCD in Hadron Physics — ●ANDREAS SCHÄFER |
| HK 21.2 | Tu | 9:30–10:00 | Audi-Max | Nuclear Astrophysics with Radioactive Beams — ●PHILIP WOODS |
| HK 21.3 | Tu | 10:00–10:30 | Audi-Max | Nuclear force studies in few-nucleon systems — ●JOHAN MESSCHEN-DORP |
| HK 22.3 | Tu | 12:30–13:00 | Audi-Max | SPIRAL2 at GANIL: Next Generation of ISOL facility for intense secondary radioactive ion beams — ●SYDNEY GALES |
| HK 43.1 | We | 9:00– 9:30 | Audi-Max | Determination of V_{ud} from mirror transitions and the role of atom and ion traps — ●OSCAR NAVILIAT-CUNCIC |
| HK 43.2 | We | 9:30–10:00 | Audi-Max | Light Meson Experiments — ●TORD JOHANSSON |
| HK 43.3 | We | 10:00–10:30 | Audi-Max | Nuclear Astrophysics at the Gran Sasso underground laboratory — ●HEIDE COSTANTINI |
| HK 44.3 | We | 12:30–13:00 | Audi-Max | NuPECC: A New Long Range Plan for Nuclear Physics in Europe — ●GUENTHER ROSNER |
| HK 65.1 | Th | 9:00– 9:30 | Audi-Max | Hypernuclear Physics — ●TULLIO BRESSANI |
| HK 65.2 | Th | 9:30–10:00 | Audi-Max | Neutrino Mass and Oscillations — ●CHRISTIAN WEINHEIMER |
| HK 65.3 | Th | 10:00–10:30 | Audi-Max | The QCD phase diagram from lattice simulations — ●OWE PHILIPSEN |
| HK 66.1 | Th | 11:00–11:30 | Audi-Max | Precision experiments with cold and ultracold neutrons — ●KLAUS KIRCH |
| HK 66.2 | Th | 11:30–12:00 | Audi-Max | Spectroscopy with Belle, BaBar, BES, PANDA. — ●DIEGO BETTONI |
| HK 66.3 | Th | 12:00–12:30 | Audi-Max | Density Functionals in Nuclear Structure Physics — ●DARIO VRETE-NAR |
| HK 66.4 | Th | 12:30–13:00 | Audi-Max | Two-proton radioactivity as a tool of nuclear structure — ●BERTRAM BLANK |
| HK 78.1 | Fr | 9:00– 9:30 | Audi-Max | The Strongly Coupled Quark Gluon Plasma Produced at RHIC (exchanged with HK 2.1) — ●AXEL DREES |

HK 78.2 Fr 9:30–10:00 Audi-Max **Field Theory in Hadron Physics** — ●MARC VANDERHAEGHEN

Invited Group Reports

HK 3.1 Mo 14:00–14:30 H-ZO 10 **Exploring hot and dense QCD matter with heavy-flavour probes at RHIC** — ●ANDRE MISCHKE

HK 4.1 Mo 14:00–14:30 H-ZO 20 **Recent Kaon Photoproduction Results from CLAS** — ●DAVID IRELAND

HK 4.2 Mo 14:30–15:00 H-ZO 20 **Baryon Structure and Spectroscopy at ELSA** — ●REINHARD BECK

HK 5.1 Mo 14:00–14:30 H-ZO 30 **The spin structure of the nucleon** — ●MAURO ANSELMINO

HK 5.2 Mo 14:30–15:00 H-ZO 30 **Recent results from the COMPASS experiment at CERN** — ●FABIENNE KUNNE

HK 6.1 Mo 14:00–14:30 H-ZO 40 **Shell Structure in Neutron-Rich Nuclei around $Z=20$** — ●BOGDAN FORNAL

HK 6.2 Mo 14:30–15:00 H-ZO 40 **Recent results on knockout reactions at relativistic energies in the psd shell** — ●DOLORES CORTINA-GIL

HK 7.1 Mo 14:00–14:30 H-ZO 50 **Applications of in-medium chiral dynamics** — ●PAOLO FINELLI, NORBERT KAISER, DARIO VRETENAR, WOLFRAM WEISE

HK 8.1 Mo 14:00–14:30 H-ZO 70 **Chasing theta-13 with the Double Chooz experiment** — ●THIERRY LASSERRE

HK 11.1 Mo 14:00–14:30 H-ZO 100 **Theory of three- and four-body scattering** — ●ARNOLDAS DELTUVA

HK 12.1 Mo 16:30–17:00 H-ZO 10 **Recent lattice results on the QCD phase diagram** — ●SANDOR KATZ

HK 14.1 Mo 16:30–17:00 H-ZO 30 **Hadron physics from lattice QCD** — ●CHRISTINE DAVIES

HK 15.3 Mo 17:00–17:30 H-ZO 40 **The structure of moderately neutron-rich nuclei studied with the CLARA-PRISMA setup and perspectives for the AGATA Demonstrator coupled to PRISMA.** — ●ANDRES GADEA

HK 15.4 Mo 17:30–18:00 H-ZO 40 **Coulomb excitation and Transfer Experiments at REX-ISOLDE*** — ●THORSTEN KRÖLL

HK 16.1 Mo 16:30–17:00 H-ZO 60 **Nuclear Structure Studies of the Heaviest Elements** — ●PAUL GREENLEES

HK 16.8 Mo 18:30–19:00 H-ZO 60 **New ideas on the formation of heavy and superheavy neutron rich nuclei** — ●VALERY ZAGREBAEV, WALTER GREINER

HK 17.1 Mo 16:30–17:00 H-ZO 70 **Measuring the highest-energy particles in the universe** — ●HEINO FALCKE

HK 20.1 Mo 16:30–17:00 H-ZO 50 **Energy Initiatives of the European Physical Society** — ●FRIEDRICH WAGNER

HK 20.2 Mo 17:00–17:45 H-ZO 50 **European energy options** — ●SVEN KULLANDER

HK 20.3 Mo 17:45–18:30 H-ZO 50 **Technology for Society's Energy and Climate Needs - Economic Analysis of Policy Options** — ●GUNNAR ESKELAND

HK 20.4 Mo 18:30–19:00 H-ZO 50 **Nuclear Energy of the Future** — ●ADRIEN BIDAUD, S. DAVID, O. MÉPLAN

HK 23.1 Tu 14:00–14:30 H-ZO 10 **Leptons and heavy mesons - signals from high density/ high temperature matter?** — ●JOERG AICHELIN, POL-BERNARD GOSSIAUX

HK 24.1 Tu 14:00–14:30 H-ZO 20 **The PANDA experiment at FAIR** — ●PAOLA GIANOTTI

HK 26.1 Tu 14:00–14:30 H-ZO 40 **Mass measurements at JYFLTRAP** — ●ARI JOKINEN

HK 27.7 Tu 15:30–16:00 H-ZO 50 **Modern Beyond Mean Field Theories** — ●J. LUIS EGIDO, TOMÁS R. RODRÍGUEZ

HK 28.1 Tu 14:00–14:30 H-ZO 60 **Proton and alpha induced reactions relevant for the astrophysical p-process** — ●GYÖRGY GYÜRKY

HK 33.2 Tu 17:00–17:30 H-ZO 10 **Collective Phenomena in Heavy Ion Collisions** — ●MIHAI PETROVICI

HK 34.1 Tu 16:30–17:00 H-ZO 20 **Chiral Perturbation Theory and Mesons** — ●JOHAN BIJNENS

HK 37.1 Tu 16:30–17:00 H-ZO 50 **Two-proton radioactivity and nuclear structure** — ●MAREK PFÜTZNER

HK 38.1 Tu 16:30–17:00 H-ZO 60 **Photon-induced experiments for nuclear astrophysics*** — ●KERSTIN SONNABEND

HK 38.2 Tu 17:00–17:30 H-ZO 60 **Nuclear physics aspects of the nucleosynthetic p process: where do we stand ?** — ●S. V. HARISSOPULOS

HK 39.1 Tu 16:30–17:00 H-ZO 70 **Nuclear physics aspects of double beta decay** — ●JOUNI SUHONEN

HK 46.1 We 14:00–14:30 H-ZO 20 **Overview of the MAMI facility in Mainz** — ●ACHIM DENIG

HK 51.1 We 14:00–14:30 H-ZO 70 **Antihydrogen** — ●JOCHEN WALZ

| | | | | |
|---------|----|-------------|----------|---|
| HK 54.1 | We | 14:00–14:30 | H-ZO 100 | Beta decay measurements of importance for reactor heat calculations — ●ALEJANDRO ALGORA |
| HK 55.2 | We | 17:00–17:30 | H-ZO 10 | Hadronic matter at finite baryon densities - what do we know about it? — ●YVONNE LEIFELS |
| HK 56.1 | We | 16:30–17:00 | H-ZO 20 | Recent results from the WASA-at-COSY experiment — ●ANDRZEJ KUPSC |
| HK 58.1 | We | 16:30–17:00 | H-ZO 40 | Aspects of gamma spectroscopy in reactions induced by light ions — ●NICOLAE MARIUS MARGINEAN |
| HK 60.1 | We | 16:30–17:00 | H-ZO 60 | The r-process nucleosynthesis: a long-standing mystery in astrophysics — ●STEPHANE GORIELY |
| HK 69.1 | Th | 16:30–17:00 | H-ZO 20 | Probing resonance matter with virtual photons — ●TETYANA GALATYUK |
| HK 70.1 | Th | 16:30–17:00 | H-ZO 30 | Superscaling analyses, lepton scattering and nucleon momentum distributions in nuclei — ●ANTON ANTONOV |
| HK 70.2 | Th | 17:00–17:30 | H-ZO 30 | Overview of recent HERMES results — ●CHARLOTTE VAN HULSE |
| HK 71.1 | Th | 16:30–17:00 | H-ZO 40 | The GDR strength function in exotic nuclei measured with gamma decay — ●ANGELA BRACCO |
| HK 77.1 | Th | 16:30–17:00 | H-ZO 100 | Modern ion-beam techniques for material science and for preserving cultural heritage — ●MILKO JAKSIC |

Fachsitzenungen

| | | | | |
|---------------|----|-------------|----------|---|
| HK 1.1–1.1 | Mo | 9:00–10:30 | Audi-Max | Plenary I |
| HK 2.1–2.4 | Mo | 11:00–13:00 | Audi-Max | Plenary II |
| HK 3.1–3.6 | Mo | 14:00–16:00 | H-ZO 10 | Heavy Ion Collisions and QCD phases |
| HK 4.1–4.6 | Mo | 14:00–16:00 | H-ZO 20 | Hadron Structure and Spectroscopy I |
| HK 5.1–5.6 | Mo | 14:00–16:00 | H-ZO 30 | Hadron Structure and Spectroscopy II |
| HK 6.1–6.6 | Mo | 14:00–16:00 | H-ZO 40 | Nuclear Structure and Dynamics I |
| HK 7.1–7.7 | Mo | 14:00–16:00 | H-ZO 50 | Nuclear Structure and Dynamics II |
| HK 8.1–8.6 | Mo | 14:00–16:00 | H-ZO 70 | Astroparticle Physics |
| HK 9.1–9.7 | Mo | 14:00–16:00 | H-ZO 80 | Accelerators and Instrumentation I |
| HK 10.1–10.7 | Mo | 14:00–16:00 | H-ZO 90 | Accelerators and Instrumentation II |
| HK 11.1–11.7 | Mo | 14:00–16:00 | H-ZO 100 | Few-body physics |
| HK 12.1–12.8 | Mo | 16:30–19:00 | H-ZO 10 | Heavy Ion Collisions and QCD phases |
| HK 13.1–13.10 | Mo | 16:30–19:00 | H-ZO 20 | Hadron Structure and Spectroscopy I |
| HK 14.1–14.8 | Mo | 16:30–19:00 | H-ZO 30 | Hadron Structure and Spectroscopy II |
| HK 15.1–15.8 | Mo | 16:30–19:00 | H-ZO 40 | Nuclear Structure and Dynamics I |
| HK 16.1–16.8 | Mo | 16:30–19:00 | H-ZO 60 | Nuclear Structure and Dynamics II |
| HK 17.1–17.7 | Mo | 16:30–19:00 | H-ZO 70 | Astroparticle Physics |
| HK 18.1–18.10 | Mo | 16:30–19:00 | H-ZO 80 | Accelerators and Instrumentation I |
| HK 19.1–19.8 | Mo | 16:30–19:00 | H-ZO 90 | Accelerators and Instrumentation II |
| HK 20.1–20.4 | Mo | 16:30–19:00 | H-ZO 50 | Energy for the future |
| HK 21.1–21.3 | Tu | 9:00–10:30 | Audi-Max | Plenary III |
| HK 22.1–22.3 | Tu | 11:00–13:00 | Audi-Max | Plenary IV |
| HK 23.1–23.6 | Tu | 14:00–16:00 | H-ZO 10 | Heavy Ion Collisions and QCD phases |
| HK 24.1–24.6 | Tu | 14:00–16:00 | H-ZO 20 | Hadron Structure and Spectroscopy I |
| HK 25.1–25.8 | Tu | 14:00–16:00 | H-ZO 30 | Hadron Structure and Spectroscopy II |
| HK 26.1–26.6 | Tu | 14:00–16:00 | H-ZO 40 | Nuclear Structure and Dynamics I |
| HK 27.1–27.7 | Tu | 14:00–16:00 | H-ZO 50 | Nuclear Structure and Dynamics II |
| HK 28.1–28.6 | Tu | 14:00–16:00 | H-ZO 60 | Nuclear Astrophysics |
| HK 29.1–29.7 | Tu | 14:00–16:00 | H-ZO 70 | Astroparticle Physics |
| HK 30.1–30.7 | Tu | 14:00–16:00 | H-ZO 80 | Accelerators and Instrumentation I |
| HK 31.1–31.7 | Tu | 14:00–16:00 | H-ZO 90 | Accelerators and Instrumentation II |
| HK 32.1–32.6 | Tu | 14:00–15:45 | H-ZO 100 | Few-body physics |
| HK 33.1–33.8 | Tu | 16:30–19:00 | H-ZO 10 | Heavy Ion Collisions and QCD phases |
| HK 34.1–34.9 | Tu | 16:30–19:00 | H-ZO 20 | Hadron Structure and Spectroscopy I |
| HK 35.1–35.8 | Tu | 16:30–19:00 | H-ZO 30 | Hadron Structure and Spectroscopy II |
| HK 36.1–36.10 | Tu | 16:30–19:00 | H-ZO 40 | Nuclear Structure and Dynamics I |
| HK 37.1–37.8 | Tu | 16:30–19:00 | H-ZO 50 | Nuclear Structure and Dynamics II |
| HK 38.1–38.7 | Tu | 16:30–18:45 | H-ZO 60 | Nuclear Astrophysics |

| | | | | |
|----------------|----|-------------|----------|---|
| HK 39.1–39.7 | Tu | 16:30–18:30 | H-ZO 70 | Astroparticle Physics |
| HK 40.1–40.9 | Tu | 16:30–19:00 | H-ZO 80 | Accelerators and Instrumentation I |
| HK 41.1–41.9 | Tu | 16:30–19:00 | H-ZO 90 | Accelerators and Instrumentation II |
| HK 42.1–42.6 | Tu | 16:30–18:15 | H-ZO 100 | Few-body physics |
| HK 43.1–43.3 | We | 9:00–10:30 | Audi-Max | Plenary V |
| HK 44.1–44.3 | We | 11:00–13:00 | Audi-Max | Plenary VI |
| HK 45.1–45.7 | We | 14:00–16:00 | H-ZO 10 | Heavy Ion Collisions and QCD phases |
| HK 46.1–46.7 | We | 14:00–16:00 | H-ZO 20 | Hadron Structure and Spectroscopy I |
| HK 47.1–47.7 | We | 14:00–16:00 | H-ZO 30 | Hadron Structure and Spectroscopy II |
| HK 48.1–48.8 | We | 14:00–16:00 | H-ZO 40 | Nuclear Structure and Dynamics I |
| HK 49.1–49.7 | We | 14:00–16:00 | H-ZO 50 | Nuclear Structure and Dynamics II |
| HK 50.1–50.7 | We | 14:00–16:00 | H-ZO 60 | Nuclear Astrophysics |
| HK 51.1–51.7 | We | 14:00–16:00 | H-ZO 70 | Fundamental Symmetries |
| HK 52.1–52.7 | We | 14:00–16:00 | H-ZO 80 | Accelerators and Instrumentation I |
| HK 53.1–53.8 | We | 14:00–16:00 | H-ZO 90 | Accelerators and Instrumentation II |
| HK 54.1–54.6 | We | 14:00–16:00 | H-ZO 100 | Nuclear Physics Applications |
| HK 55.1–55.8 | We | 16:30–19:00 | H-ZO 10 | Heavy Ion Collisions and QCD phases |
| HK 56.1–56.9 | We | 16:30–19:00 | H-ZO 20 | Hadron Structure and Spectroscopy I |
| HK 57.1–57.10 | We | 16:30–19:00 | H-ZO 30 | Hadron Structure and Spectroscopy II |
| HK 58.1–58.9 | We | 16:30–19:00 | H-ZO 40 | Nuclear Structure and Dynamics I |
| HK 59.1–59.9 | We | 16:30–19:00 | H-ZO 50 | Nuclear Structure and Dynamics II |
| HK 60.1–60.7 | We | 16:30–18:45 | H-ZO 60 | Nuclear Astrophysics |
| HK 61.1–61.8 | We | 16:30–18:45 | H-ZO 70 | Fundamental Symmetries |
| HK 62.1–62.8 | We | 16:30–19:00 | H-ZO 80 | Accelerators and Instrumentation I |
| HK 63.1–63.8 | We | 16:30–19:00 | H-ZO 90 | Accelerators and Instrumentation II |
| HK 64.1–64.5 | We | 16:30–18:15 | H-ZO 100 | Nuclear Physics Applications |
| HK 65.1–65.3 | Th | 9:00–10:30 | Audi-Max | Plenary VII |
| HK 66.1–66.4 | Th | 11:00–13:00 | Audi-Max | Plenary VIII |
| HK 67.1–67.112 | Th | 14:00–16:00 | Audi-Max | Poster Session |
| HK 68.1–68.9 | Th | 16:30–19:00 | H-ZO 10 | Heavy Ion Collisions and QCD phases |
| HK 69.1–69.8 | Th | 16:30–19:00 | H-ZO 20 | Hadron Structure and Spectroscopy I |
| HK 70.1–70.8 | Th | 16:30–19:00 | H-ZO 30 | Hadron Structure and Spectroscopy II |
| HK 71.1–71.7 | Th | 16:30–19:00 | H-ZO 40 | Nuclear Structure and Dynamics I |
| HK 72.1–72.9 | Th | 16:30–19:00 | H-ZO 50 | Nuclear Structure and Dynamics II |
| HK 73.1–73.5 | Th | 16:30–18:00 | H-ZO 60 | Nuclear Astrophysics |
| HK 74.1–74.7 | Th | 16:30–18:30 | H-ZO 70 | Fundamental Symmetries |
| HK 75.1–75.9 | Th | 16:30–19:00 | H-ZO 80 | Accelerators and Instrumentation I |
| HK 76.1–76.8 | Th | 16:30–19:00 | H-ZO 90 | Accelerators and Instrumentation II |
| HK 77.1–77.5 | Th | 16:30–18:00 | H-ZO 100 | Nuclear Physics Applications |
| HK 78.1–78.2 | Fr | 9:00–10:30 | Audi-Max | Plenary IX |
| HK 79.1–79.5 | Fr | 11:00–12:45 | H-ZO 10 | Heavy Ion Collisions and QCD phases |
| HK 80.1–80.7 | Fr | 11:00–12:45 | H-ZO 20 | Hadron Structure and Spectroscopy I |
| HK 81.1–81.7 | Fr | 11:00–12:45 | H-ZO 30 | Hadron Structure and Spectroscopy II |
| HK 82.1–82.6 | Fr | 11:00–12:45 | H-ZO 40 | Nuclear Structure and Dynamics I |
| HK 83.1–83.5 | Fr | 11:00–12:45 | H-ZO 50 | Nuclear Structure and Dynamics II |
| HK 84.1–84.7 | Fr | 11:00–12:45 | H-ZO 80 | Accelerators and Instrumentation I |
| HK 85.1–85.7 | Fr | 11:00–12:45 | H-ZO 90 | Accelerators and Instrumentation II |

Public evening lecture

Tuesday, March 17, 2009 19:00 Audimax

Applications of Nuclear Physics

PROF. DR. WALTER KUTSCHERA — Institut für Isotopenforschung und Kernphysik, Universität Wien

Mitgliederversammlung DPG Fachverband Hadronen und Kerne

Mittwoch 19:00–21:00 Raum HZ-O 80

- Bericht des KHuK Vorsitzenden

- Bericht zu Verbundforschung und DFG Fachkollegien
- Bericht des Fachverbandsvorsitzenden
- Tagungsplanung
- Promotionspreis
- Verschiedenes