

Hadronic and Nuclear Physics Division Fachverband Physik der Hadronen und Kerne (HK)

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Overview of Invited Talks and Sessions

(Lecture rooms: K/HS1, K/HS2, M/HS1, M/HS2, M/HS4, P/H1, P/H2, T/HS1, T/HS2, T/SR14, T/SR19, and T/SR25;
Poster: C/Foyer)

Plenary Talks

PV I	Mon	9:35–10:20	PV-Rooms	Fifty years of revolutions in atomic physics and quantum optics — ●SERGE HAROCHE
PV II	Tue	9:00– 9:45	PV-Rooms	Exploring the QCD Phase Diagram at the LHC — ●JOHANNA STACHEL
PV III	Tue	9:45–10:30	PV-Rooms	Precision Electroweak Physics — ●WILLIAM MARCIANO
PV IV	Tue	20:00–21:00	Neue Aula	Klimawandel: Zu spät für 2°C? — ●THOMAS STOCKER
PV V	Wed	9:00– 9:45	PV-Rooms	Science at the Timescale of the Electron: The Quantum Nonlinear Optics of High Harmonic Generation — ●MARGARET M. MURNANE
PV VI	Wed	9:50–10:35	PV-Rooms	A Bose-Fermi Double Superfluid Mixture — ●CHRISTOPHE SALOMON
PV VII	Wed	20:00–21:00	C/gHS	Astronomie: Exegese kosmischen Lichts — ●HANS-WALTER RIX
PV VIII	Thu	9:00– 9:45	PV-Rooms	Plutonium in the Environment: Can we Predict its Subsurface Behavior? — ●ANNIE KERSTING
PV IX	Thu	9:45–10:30	PV-Rooms	Atom Trap, Krypton-81, and Global Groundwater — ●ZHENG-TIAN LU
PV X	Thu	20:00–21:00	C/gHS	Nanoskopie mit fokussiertem Licht — ●STEFAN W. HELL
PV XI	Fri	9:00– 9:45	PV-Rooms	The Oceans in a Warming World: How are the oceans changing and what role do they play in climate change? — ●JOHN MARSHALL
PV XII	Fri	9:45–10:30	PV-Rooms	Quantum Measurements — ●BERGE ENGLERT

Invited Talks

HK 1.1	Mon	11:30–12:00	T/HS1	Der Doppeltgammazerfall des $11/2^-$ Isomers in ^{137}Ba — ●CHRISTOPHER WALZ, TOM AUMANN, VLADIMIR PONOMAREV, NORBERT PIETRALLA, RONAN LEFOL, HEIKO SCHEIT
HK 1.2	Mon	12:00–12:30	T/HS1	Advances in nuclear matter based on chiral effective field theory* — ●ARIANNA CARBONE
HK 1.3	Mon	12:30–13:00	T/HS1	Exploring the transverse structure of the nucleon at COMPASS — ●RAINER JOOSTEN
HK 20.1	Tue	11:00–11:40	T/HS1	Cold nuclear matter effects studied in p-Pb collisions at the LHC — ●ALBERICA TOIA
HK 20.2	Tue	11:40–12:20	T/HS1	Messungen mit den schwersten Kernen und weitere interessante neue Resultate — ●KIRILL LAPIDUS
HK 20.3	Tue	12:20–13:00	T/HS1	Pygmy Dipole Resonances - Status and Perspectives — ●VERA DERYA
HK 39.1	Wed	11:00–11:40	T/HS1	Precision Tests of CPT Invariance with Single Trapped Antiprotons — ●STEFAN ULMER
HK 39.2	Wed	11:40–12:20	T/HS1	Recent results on the proton: Two photon exchange and the radius puzzle — ●JAN BERNAUER

HK 39.3	Wed	12:20–13:00	T/HS1	Precision Experiments with Slowed-down and Thermalized Projectile and Fission Fragments — ●WOLFGANG PLASS
HK 49.1	Thu	11:00–11:40	T/HS1	Strong Interactions and the Unitary Limit — ●HANS-WERNER HAMMER
HK 49.2	Thu	11:40–12:20	T/HS1	Solare Neutrinospetrokopie in BOREXINO — ●MICHAEL WURM
HK 49.3	Thu	12:20–13:00	T/HS1	Precision mass measurements of rare isotopes in nuclear physics — ●JENS DILLING
HK 68.1	Fri	11:00–11:40	T/HS1	The GBAR antimatter gravity experiment — ●PATRICE PEREZ
HK 68.2	Fri	11:40–12:20	T/HS1	Jet Physics with ALICE at the LHC — ●OLIVER BUSCH
HK 68.3	Fri	12:20–13:00	T/HS1	Penning-trap mass spectrometry for neutrino physics — ●SERGEY ELISEEV, KLAUS BLAUM, MICHAEL BLOCK, CHRISTINE BÖHM, ANDREAS DÖRR, CHRISTIAN DROESE, PAVEL FILIANIN, MIKHAIL GONCHAROV, ENRIQUE MINAYA RAMIREZ, DMITRIY NESTERENKO, YURI NOVIKOV, ALEXANDER RISCHKA, LUTZ SCHWEIKHARD

Invited talks of the joint symposium SYEP

See SYEP for the full program of the symposium.

SYEP 1.1	Mon	11:30–12:00	C/gHS	Few-body physics with ultracold atoms: What we learned from cesium — ●RUDOLF GRIMM
SYEP 1.2	Mon	12:00–12:30	C/gHS	Universality in halo nuclei — ●DANIEL PHILLIPS
SYEP 2.1	Mon	14:30–15:00	C/gHS	Efimov Physics from Quantum Field Theory — ●ERIC BRAATEN
SYEP 2.2	Mon	15:00–15:30	C/gHS	Efimov physics with multiple spin substates — ●CHRIS H GREENE

Invited talks of the joint symposium SYDM

See SYDM for the full program of the symposium.

SYDM 1.1	Tue	11:00–11:40	C/gHS	Searching for New Physics Effects in the Muon g-Factor — ●B. LEE ROBERTS
SYDM 1.2	Tue	11:40–12:20	C/gHS	Dedicated storage ring EDM methods — ●YANNIS SEMERTZIDIS
SYDM 2.1	Tue	14:30–15:10	C/gHS	The experimental search for the neutron electric dipole moment — ●KLAUS KIRCH
SYDM 2.2	Tue	15:10–15:50	C/gHS	The muon g-2: where we are, what does it tell us? — ●FRIEDRICH JEGERLEHNER

Invited talks of the joint symposium SYEM

See SYEM for the full program of the symposium.

SYEM 1.1	Wed	11:00–11:30	C/gHS	Generation of Structure under Extreme Conditions: Ultracold Atoms meet Heavy-Ion Collisions — ●JENS BRAUN
SYEM 1.2	Wed	11:30–12:00	C/gHS	Strongly Interacting Fermi Gases of Atoms and Molecules — ●MARTIN ZWIERLEIN
SYEM 1.3	Wed	12:00–12:30	C/gHS	Towards ultracold RbSr ground-state molecules — ●FLORIAN SCHRECK
SYEM 1.4	Wed	12:30–13:00	C/gHS	Multiflavor phenomena and synthetic gauge fields in strongly interacting quantum gases — ●WALTER HOFSTETTER

Sessions

HK 1.1–1.3	Mon	11:30–13:00	T/HS1	Invited Talks 1
HK 2.1–2.6	Mon	14:30–16:15	M/HS1	Instrumentation 1
HK 3.1–3.7	Mon	14:30–16:30	M/HS2	Instrumentation 2
HK 4.1–4.8	Mon	14:30–16:30	M/HS4	Instrumentation 3
HK 5.1–5.7	Mon	14:30–16:30	T/HS1	Heavy Ion Collisions and QCD Phases 1
HK 6.1–6.7	Mon	14:30–16:30	T/HS2	Structure and Dynamics of Nuclei 1

HK 7.1–7.7	Mon	14:30–16:30	T/SR14	Structure and Dynamics of Nuclei 2
HK 8.1–8.6	Mon	14:30–16:15	T/SR19	Hadron Structure and Spectroscopy 1
HK 9.1–9.6	Mon	14:30–16:30	T/SR25	Hadron Structure and Spectroscopy 2
HK 10.1–10.6	Mon	17:00–19:00	K/HS1	Precision Tests of the Standard Model 1
HK 11.1–11.6	Mon	17:00–18:45	K/HS2	Nuclear Astrophysics 1
HK 12.1–12.6	Mon	17:00–18:45	M/HS1	Instrumentation 4
HK 13.1–13.7	Mon	17:00–19:00	M/HS2	Instrumentation 5
HK 14.1–14.7	Mon	17:00–19:00	M/HS4	Instrumentation 6
HK 15.1–15.7	Mon	17:00–19:00	T/HS1	Heavy Ion Collisions and QCD Phases 2
HK 16.1–16.8	Mon	17:00–19:00	T/HS2	Structure and Dynamics of Nuclei 3
HK 17.1–17.6	Mon	17:00–18:45	T/SR14	Structure and Dynamics of Nuclei 4
HK 18.1–18.6	Mon	17:00–18:45	T/SR19	Hadron Structure and Spectroscopy 3
HK 19.1–19.6	Mon	17:00–19:00	T/SR25	Hadron Structure and Spectroscopy 4
HK 20.1–20.3	Tue	11:00–13:00	T/HS1	Invited Talks 2
HK 21.1–21.7	Tue	14:30–16:30	M/HS1	Instrumentation 7
HK 22.1–22.8	Tue	14:30–16:30	M/HS2	Instrumentation 8
HK 23.1–23.7	Tue	14:30–16:30	M/HS4	Instrumentation 9
HK 24.1–24.5	Tue	14:30–16:15	T/HS1	Heavy Ion Collisions and QCD Phases 3
HK 25.1–25.6	Tue	14:30–16:15	T/HS2	Structure and Dynamics of Nuclei 5
HK 26.1–26.7	Tue	14:30–16:30	T/SR14	Structure and Dynamics of Nuclei 6
HK 27.1–27.7	Tue	14:30–16:30	T/SR19	Hadron Structure and Spectroscopy 5
HK 28.1–28.7	Tue	14:30–16:30	T/SR25	Hadron Structure and Spectroscopy 6
HK 29.1–29.6	Tue	17:00–18:45	K/HS2	Nuclear Astrophysics 2
HK 30.1–30.5	Tue	17:00–18:30	M/HS1	Instrumentation 10
HK 31.1–31.8	Tue	17:00–19:00	M/HS2	Instrumentation 11
HK 32.1–32.8	Tue	17:00–19:00	M/HS4	Instrumentation 12
HK 33.1–33.6	Tue	17:00–19:00	P/H2	Astroparticle Physics 1
HK 34.1–34.7	Tue	17:00–19:00	T/HS1	Heavy Ion Collisions and QCD Phases 4
HK 35.1–35.5	Tue	17:00–18:30	T/SR14	Structure and Dynamics of Nuclei 7
HK 36.1–36.6	Tue	17:00–19:00	T/HS2	Structure and Dynamics of Nuclei 8
HK 37.1–37.7	Tue	17:00–19:00	T/SR19	Hadron Structure and Spectroscopy 7
HK 38.1–38.6	Tue	17:00–19:00	T/SR25	Hadron Structure and Spectroscopy 8
HK 39.1–39.3	Wed	11:00–13:00	T/HS1	Invited Talks 3
HK 40.1–40.6	Wed	14:30–16:15	T/SR19	Hadron Structure and Spectroscopy 9
HK 41.1–41.7	Wed	14:30–16:30	M/HS1	Instrumentation 13
HK 42.1–42.8	Wed	14:30–16:30	M/HS2	Instrumentation 14
HK 43.1–43.7	Wed	14:30–16:30	M/HS4	Astroparticle Physics 2
HK 44.1–44.7	Wed	14:30–16:30	T/HS1	Heavy Ion Collisions and QCD Phases 5
HK 45.1–45.6	Wed	14:30–16:30	T/HS2	Structure and Dynamics of Nuclei 9
HK 46.1–46.7	Wed	14:30–16:15	T/SR14	Structure and Dynamics of Nuclei 10
HK 47.1–47.8	Wed	14:30–16:30	T/SR25	Hadron Structure and Spectroscopy 10
HK 48.1–48.68	Wed	17:00–19:00	C/Foyer	Poster
HK 49.1–49.3	Thu	11:00–13:00	T/HS1	Invited Talks 4
HK 50.1–50.7	Thu	14:30–16:30	M/HS1	Instrumentation 15
HK 51.1–51.7	Thu	14:30–16:30	M/HS2	Instrumentation 16
HK 52.1–52.6	Thu	14:30–16:15	M/HS4	Nuclear Astrophysics 3
HK 53.1–53.7	Thu	14:30–16:30	T/HS1	Heavy Ion Collisions and QCD Phases 6
HK 54.1–54.7	Thu	14:30–16:30	T/SR14	Heavy Ion Collisions and QCD Phases 7
HK 55.1–55.6	Thu	14:30–16:15	T/SR19	Structure and Dynamics of Nuclei 11
HK 56.1–56.7	Thu	14:30–16:30	T/SR25	Hadron Structure and Spectroscopy 11
HK 57.1–57.5	Thu	17:00–18:45	K/HS1	Astroparticle Physics 3
HK 58.1–58.7	Thu	17:00–18:45	K/HS2	Nuclear Astrophysics 4
HK 59.1–59.7	Thu	17:00–19:00	M/HS1	Instrumentation 17
HK 60.1–60.5	Thu	17:00–18:45	M/HS2	Instrumentation 18
HK 61.1–61.6	Thu	17:00–19:00	M/HS4	Astroparticle Physics 4
HK 62.1–62.7	Thu	17:00–19:00	P/H1	Nuclear Astrophysics 5
HK 63.1–63.6	Thu	17:00–18:45	P/H2	Structure and Dynamics of Nuclei 12
HK 64.1–64.4	Thu	17:00–18:45	T/HS1	Heavy Ion Collisions and QCD Phases 8
HK 65.1–65.8	Thu	17:00–19:00	T/SR14	Heavy Ion Collisions and QCD Phases 9
HK 66.1–66.7	Thu	17:00–18:45	T/SR19	Structure and Dynamics of Nuclei 13
HK 67.1–67.7	Thu	17:00–19:00	T/SR25	Hadron Structure and Spectroscopy 12

HK 68.1–68.3	Fri	11:00–13:00	T/HS1	Invited Talks 5
HK 69.1–69.7	Fri	14:30–16:30	M/HS1	Instrumentation 19
HK 70.1–70.7	Fri	14:30–16:30	M/HS2	Instrumentation 20
HK 71.1–71.5	Fri	14:30–16:15	M/HS4	Astroparticle Physics 5
HK 72.1–72.7	Fri	14:30–16:30	P/H1	Precision Tests of the Standard Model 2
HK 73.1–73.6	Fri	14:30–16:30	T/HS2	Heavy Ion Collisions and QCD Phases 10
HK 74.1–74.6	Fri	14:30–16:15	T/SR14	Heavy Ion Collisions and QCD Phases 11
HK 75.1–75.7	Fri	14:30–16:30	T/SR25	Heavy Ion Collisions and QCD Phases 12

Annual General Meeting of the Hadronic and Nuclear Physics Division

Donnerstag 19:00 K/HS2