

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

Silvia Masciocchi
GSI Helmholtzzentrum für Schwerionenforschung GmbH
Planckstr. 1
64291 Darmstadt
s.masciocchi@gsi.de

Overview of Invited Talks and Sessions

(Lecture halls H-HS X, H-HS XIII, H-HS XVI, J-HS A-H, J-HS K-M; Poster Zelt and Grotte)

Plenary Talks

PV I	Mon	9:15–10:00	H-Aula/HS I/HS X	Highlights from the LHC — ●GREGOR HERTEN
PV II	Mon	10:00–10:45	H-Aula/HS I/HS X	Superheavy Element Research at GSI — ●MICHAEL BOCK
PV IV	Tue	9:00– 9:45	H-Aula/HS I/HS X	The Making of High-Precision Gravitational Waves — ●ALESSANDRA BUONANNO
PV V	Tue	9:45–10:30	H-Aula/HS I/HS X	Local measurements of quantum fields — ●CHRISTOPHER FEWSTER
PV IX	Wed	8:30–10:00	H-Aula/HS I/HS X	Physik und Bildung — ●HARALD LESCH
PV XII	Thu	9:00– 9:45	H-Aula/HS I/HS X	Physics-Informed AI for Image Reconstruction in PET — ●ANDREW READER
PV XIII	Thu	9:45–10:30	H-Aula/HS I/HS X	Geophysics in Elysium Planitia - First Year Results from the InSight Mars Mission — ●MATTHIAS GROTT, BRUCE BANERDT, SUZANNE SMREKAR, TILMAN SPOHN, PHILIPPE LOGNONNE, CHRISTOPHER RUSSEL, CATHERINE JOHNSON, DON BANFIELD, JUSTIN MAKI, MATT GOLOMBEK, DOMENIKO GIRARDINI, WILLIAM PIKE, ANNA MITTELHOLZ, YANAN YU, ATTILIO RIVOLDINI

Prize Talk of the Laureate of the Robert Wichard Pohl Prize 2020

HK 1.1	Mon	11:15–11:45	H-HS X	50 Years of Online Optical Spectroscopy and Mass Spectrometry — ●H.-JÜRGEN KLUGE
--------	-----	-------------	--------	---

Invited Talks

HK 1.2	Mon	11:45–12:15	H-HS X	Precision laser spectroscopy studies on exotic tin isotopes. — ●LISS VAZQUEZ RODRIGUEZ
HK 1.3	Mon	12:15–12:45	H-HS X	Pushing the frontiers in mass measurements of short-lived exotic nuclei — ●TIMO DICKEL
HK 11.1	Tue	11:00–11:30	H-HS X	Experimental Nuclear Astrophysics Underground: The LUNA and LUNA-MV experiments — ●ROSANNA DEPALO
HK 11.2	Tue	11:30–12:00	H-HS X	Ten years after: Highlights from ALICE and future perspectives — ●HARALD APPELSHÄUSER
HK 11.3	Tue	12:00–12:30	H-HS X	Constraining the nuclear equation of state from nuclear forces and neutron star observations — ●SVENJA GREIF
HK 32.1	Wed	16:30–17:00	H-HS X	Detectors for Measuring Space Radiation — ●ROBERT F. WIMMER-SCHWEINGRUBER, AND THE KIEL EXTRATERRESTRIAL PHYSICS TEAM
HK 32.2	Wed	17:00–17:30	H-HS X	Modern Timing Detectors in HEP — ●JÖRN LANGE
HK 32.3	Wed	17:30–18:00	H-HS X	Experimental time resolution limits of modern SiPMs and TOF-PET detectors — ●STEFAN GUNDAKER
HK 32.4	Wed	18:00–18:30	H-HS X	260 megavoxel camera with continuous readout - the upgraded ALICE TPC — ●LAURA FABBETTI

HK 41.1	Thu	11:00–11:30	H-HS X	Highlights from the COMPASS Experiment and the COMPASS++/AMBER Proposal — ●BORIS GRUBE
HK 41.2	Thu	11:30–12:00	H-HS X	The charm of exotic bound states of the strong interaction — ●FRANK NERLING
HK 41.3	Thu	12:00–12:30	H-HS X	Characterizing baryon dominated matter with HADES measurements — ●SZYMON HARABASZ
HK 54.1	Fri	9:00– 9:30	H-HS X	The Compressed Baryonic Matter experiment at FAIR — ●ALBERICA TOIA
HK 54.2	Fri	9:30–10:00	H-HS X	Short-Range-Correlations in neutron-rich nuclei — ●MEYTA DUER
HK 54.3	Fri	10:00–10:30	H-HS X	Das Physikprogramm des MESA-Beschleunigers — ●HARALD MERKEL
HK 66.1	Fri	14:30–15:00	H-HS X	Baryon Spectroscopy with the CBELSA/TAPS experiment at ELSA — ●ANNIKA THIEL
HK 66.2	Fri	15:00–15:30	H-HS X	The BGOOD experiment at ELSA - exotic structures in the light quark sector? — ●THOMAS JUDE
HK 66.3	Fri	15:30–16:00	H-HS X	Double parton scattering and double parton distributions — ●PETER PLÖSSL

Invited talks of the joint symposium SYMD: Dissertation Prize 2020

See SYMD for the full program of the symposium.

SYMD 1.1	Mon	14:30–15:00	H-Aula/HS I/HS X	N-Particle Scattering and Asymptotic Completeness in Wedge-Local Quantum Field Theories — ●MAXIMILIAN DUELL
SYMD 1.2	Mon	15:00–15:30	H-Aula/HS I/HS X	First observation of double electron capture in Xe-124 with the dark matter detector XENON1T — ●ALEXANDER FIEGUTH
SYMD 1.3	Mon	15:30–16:00	H-Aula/HS I/HS X	Anisotropic Transport of Galactic Cosmic Rays based on Stochastic Differential Equations — ●LUKAS MERTEN

Invited talks of the joint symposium SYDM: Dark Matter Symposium

See SYDM for the full program of the symposium.

SYDM 1.1	Wed	10:30–11:15	H-Aula	Producing the missing matter of the Universe on Earth — ●ALEXANDER GROHSJEAN
SYDM 1.2	Wed	11:15–12:00	H-Aula	Searching for physics beyond the Standard Model in nuclei — ●MARTIN HOFERICHTER
SYDM 1.3	Wed	12:00–12:45	H-Aula	Detecting on Earth the missing matter of the Universe — ●FEDERICA PETRICCA

Public Evening Talk

PV VIII	Tue	18:30–19:30	H-Aula/HS I/HS X	Lise Meitner Lecture: Quantum-based Materials Modeling and Artificial Intelligence for Tackling Societal Challenges — ●CLAUDIA DRAXL
PV XI	Wed	20:00–21:00	H-Aula/HS I/HS X	Wie entstand unser Sonnensystem? — ●HARALD LESCH
PV XV	Thu	20:00–21:00	H-Aula/HS I/HS X	Max von Laue Lecture: What physicists can do to improve international security? — ●STEVE FETTER

Lunch Talks

PV III	Mon	13:30–14:00	H-HS IX	Als Physikerin im Wissenschaftsverlag — ●MAIKE PFALZ
PV VI	Tue	13:00–13:30	H-HS IX	Als PhysikerIn zum BSI – Mit Sicherheit — ●VIVIEN THIEL, ●PATRICK GRETE
PV X	Wed	13:00–13:30	H-HS IV	Vom Laborbuch zur Akte: Als Physiker im Forschungsministerium — ●PETER SCHROTH
PV XIV	Thu	13:00–13:30	H-HS IX	Wie kommt der Satellit in die Rakete? Wissenschaft ganz weit oben — ●ANKE PAGELS-KERP

Sessions

HK 1.1–1.3	Mon	11:15–12:45	H-HS X	Invited Talks I
HK 2.1–2.4	Mon	16:30–17:45	J-HS A	Hadron Structure and Spectroscopy I
HK 3.1–3.3	Mon	16:30–17:30	J-HS M	Hadron Structure and Spectroscopy II
HK 4.1–4.5	Mon	16:30–18:00	J-HS F	Heavy-Ion Collisions and QCD Phases I
HK 5.1–5.5	Mon	16:30–18:00	J-HS G	Heavy-Ion Collisions and QCD Phases II
HK 6.1–6.5	Mon	16:30–18:00	J-HS E	Structure and Dynamics of Nuclei I
HK 7.1–7.5	Mon	16:30–18:00	J-HS H	Structure and Dynamics of Nuclei II
HK 8.1–8.4	Mon	16:30–17:45	J-HS B	Fundamental Symmetries I
HK 9.1–9.6	Mon	16:30–18:00	J-HS C	Instrumentation I
HK 10.1–10.6	Mon	16:30–18:00	J-HS D	Instrumentation II
HK 11.1–11.3	Tue	11:00–12:30	H-HS X	Invited Talks II
HK 12.1–12.5	Tue	17:00–18:20	H-HS VI	Outreach methods I (joint session T/HK)
HK 13.1–13.4	Tue	17:00–18:15	J-HS A	Hadron Structure and Spectroscopy III
HK 14.1–14.5	Tue	17:00–18:30	J-HS M	Hadron Structure and Spectroscopy IV
HK 15.1–15.5	Tue	17:00–18:30	J-HS F	Heavy-Ion Collisions and QCD Phases III
HK 16.1–16.4	Tue	17:00–18:15	J-HS G	Heavy-Ion Collisions and QCD Phases IV
HK 17.1–17.7	Tue	17:00–19:00	J-HS E	Structure and Dynamics of Nuclei III
HK 18.1–18.7	Tue	17:00–19:00	J-HS H	Structure and Dynamics of Nuclei IV
HK 19.1–19.4	Tue	17:00–18:30	J-HS B	Fundamental Symmetries II
HK 20.1–20.6	Tue	17:00–18:30	J-HS C	Instrumentation III
HK 21.1–21.5	Tue	17:00–18:30	J-HS D	Instrumentation IV
HK 22.1–22.7	Wed	14:00–16:00	J-HS A	Hadron Structure and Spectroscopy V
HK 23.1–23.5	Wed	14:00–15:45	J-HS M	Hadron Structure and Spectroscopy VI
HK 24.1–24.7	Wed	14:00–16:00	J-HS F	Heavy-Ion Collisions and QCD Phases V
HK 25.1–25.8	Wed	14:00–16:00	J-HS G	Heavy-Ion Collisions and QCD Phases VI
HK 26.1–26.7	Wed	14:00–16:00	J-HS E	Structure and Dynamics of Nuclei V
HK 27.1–27.7	Wed	14:00–16:00	J-HS H	Structure and Dynamics of Nuclei VI
HK 28.1–28.6	Wed	14:00–15:45	J-HS B	Astroparticle Physics I
HK 29.1–29.7	Wed	14:00–16:00	J-HS C	Instrumentation V
HK 30.1–30.7	Wed	14:00–16:00	J-HS D	Instrumentation VI
HK 31.1–31.9	Wed	16:30–18:45	H-HS VI	Outreach methods II (joint session T/HK)
HK 32.1–32.4	Wed	16:30–18:30	H-HS X	Combined detector session (joint session HK/T/ST/EP)
HK 33.1–33.7	Wed	16:30–18:30	J-HS A	Hadron Structure and Spectroscopy VII
HK 34.1–34.7	Wed	16:30–18:30	J-HS F	Heavy-Ion Collisions and QCD Phases VII
HK 35.1–35.7	Wed	16:30–18:30	J-HS G	Heavy-Ion Collisions and QCD Phases VIII
HK 36.1–36.8	Wed	16:30–18:45	J-HS H	Heavy-Ion Collisions and QCD Phases IX
HK 37.1–37.7	Wed	16:30–18:30	J-HS E	Structure and Dynamics of Nuclei VII
HK 38.1–38.9	Wed	16:30–19:00	J-HS C	Instrumentation VII
HK 39.1–39.5	Wed	16:30–19:00	J-HS D	Instrumentation VIII
HK 40.1–40.9	Wed	16:30–19:15	J-HS K	Instrumentation IX
HK 41.1–41.3	Thu	11:00–12:30	H-HS X	Invited Talks III
HK 42.1–42.5	Thu	14:00–15:45	J-HS A	Hadron Structure and Spectroscopy VIII
HK 43.1–43.6	Thu	14:00–15:45	J-HS F	Heavy-Ion Collisions and QCD Phases X
HK 44.1–44.6	Thu	14:00–15:45	J-HS G	Heavy-Ion Collisions and QCD Phases XI
HK 45.1–45.7	Thu	14:00–16:00	J-HS E	Structure and Dynamics of Nuclei VIII
HK 46.1–46.7	Thu	14:00–16:00	J-HS H	Structure and Dynamics of Nuclei IX
HK 47.1–47.6	Thu	14:00–15:45	J-HS B	Nuclear Astrophysics I
HK 48.1–48.5	Thu	14:00–16:00	J-HS C	Instrumentation X
HK 49.1–49.5	Thu	14:00–16:00	J-HS D	Instrumentation XI
HK 50.1–50.6	Thu	14:00–15:45	J-HS K	Instrumentation XII
HK 51.1–51.37	Thu	16:30–18:30	Zelt	Poster (a)
HK 52.1–52.18	Thu	16:30–18:30	Grotte	Poster (b)
HK 53	Thu	19:00–20:00	H-HS X	Annual General Meeting of the Hadron and Nuclear Physics Division
HK 54.1–54.3	Fri	9:00–10:30	H-HS X	Invited Talks IV
HK 55.1–55.5	Fri	11:00–12:30	J-HS A	Hadron Structure and Spectroscopy IX
HK 56.1–56.7	Fri	11:00–13:00	J-HS F	Heavy-Ion Collisions and QCD Phases XII
HK 57.1–57.4	Fri	11:00–12:15	J-HS G	Heavy-Ion Collisions and QCD Phases XIII
HK 58.1–58.6	Fri	11:00–12:45	J-HS B	Nuclear Astrophysics II
HK 59.1–59.7	Fri	11:00–13:00	J-HS E	Structure and Dynamics of Nuclei X

HK 60.1–60.6	Fri	11:00–13:00	J-HS H	Structure and Dynamics of Nuclei XI
HK 61.1–61.5	Fri	11:00–12:30	J-HS L	Astroparticle Physics II
HK 62.1–62.8	Fri	11:00–13:00	H-HS XIII	Combined Instrumentation Session: Silicon Strip Detectors (joint session HK/T)
HK 63.1–63.8	Fri	11:00–13:00	H-HS XV	Combined Instrumentation Session: Semiconductor Detectors (joint session HK/T)
HK 64.1–64.8	Fri	11:00–13:00	J-HS C	Combined Instrumentation Session: Gaseous Detectors (joint session HK/T)
HK 65.1–65.7	Fri	11:00–12:45	J-HS K	Combined Instrumentation Session: Silicon Pixel Detectors (joint session HK/T)
HK 66.1–66.3	Fri	14:30–16:00	H-HS X	Invited Talks V

Annual General Meeting of the Hadron and Nuclear Physics Division

Thursday 18:00–19:00 H-HS X