

Particle Physics Division Fachverband Teilchenphysik (T)

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Overview of Invited Talks and Sessions

(Lecture halls ZHG010, ZHG011, ZHG104, ZHG105,
VG 0.110, VG 0.111, VG 1.101, VG 1.102, VG 1.103, VG 1.104, VG 1.105,
VG 2.101, VG 2.102, VG 2.103, VG 3.101, VG 3.102, VG 3.103, VG 3.104, VG 4.101, and VG 4.102)

Invited Overview Talks

T 42.1	Wed	11:00–11:30	ZHG011	Direct neutrino-mass measurements - current and next generations — •MAGNUS SCHLÖSSER
T 42.2	Wed	11:30–12:00	ZHG011	Mapping out the Higgs Boson: Highlights from the LHC Experiments — •ELISABETH SCHOPF
T 42.3	Wed	12:00–12:30	ZHG011	Computing at the LHC and its transformation towards the HL-LHC — •SEBASTIAN WOZNIEWSKI
T 43.1	Wed	13:45–14:15	ZHG011	Advances in Silicon Detectors — •MATTHIAS HAMER
T 43.2	Wed	14:15–14:45	ZHG011	Exploring the dark universe: the experimental quest for axions and ALPs — •JULIA K. VOGEL
T 43.3	Wed	14:45–15:15	ZHG011	Overview on coherent elastic neutrino nucleus scattering and successful first detections — •JANINA HAKENMÜLLER
T 43.4	Wed	15:15–15:45	ZHG011	Shifting paradigms in Gravitational-wave Astrophysics — •IMRE BARTOS
T 63.1	Thu	11:00–11:30	ZHG011	Neutrino properties from the laboratory and the cosmos — •THOMAS SCHWETZ-MANGOLD
T 63.2	Thu	11:30–12:00	ZHG011	Highlights from Standard Model physics at the LHC in the precision era — •DANIEL SAVOIU
T 63.3	Thu	12:00–12:30	ZHG011	Cosmological results from the Dark Energy Spectroscopic Instrument — •DANIEL GRUEN
T 105.1	Fri	11:00–11:30	ZHG011	Galactic Astrophysics with H.E.S.S. — •LARS MOHRMANN
T 105.2	Fri	11:30–12:00	ZHG011	Physics in the era of big data: AI in particle and astroparticle physics — •JONAS GLOMBITZA
T 105.3	Fri	12:00–12:30	ZHG011	What the LHC tells us about the top quark, the heaviest particle in nature — •MATTHIAS KOMM
T 105.4	Fri	12:30–13:00	ZHG011	The flavor intensity frontier: latest results from Belle II and LHCb — •DANIEL GREENWALD

Invited Topical Talks

T 20.1	Tue	13:45–14:15	ZHG011	An introduction to gas electron multipliers and their time to shine during the CMS phase 2 upgrade — •SHAWN ZALESKI
T 20.2	Tue	14:15–14:45	ZHG011	Searches for rare Higgs boson decays — •MARTINA LAURA OJEDA
T 20.3	Tue	14:45–15:15	ZHG011	Novel opportunities with the LHCb Software Trigger — •TITUS MOMBÄCHER
T 20.4	Tue	15:15–15:45	ZHG011	Dark sector searches with invisible and displaced signatures at Belle II — •GIACOMO DE PIETRO
T 21.1	Tue	13:45–14:15	ZHG010	The KM3NeT Ultra-High Energy Neutrino and its Possible Astrophysical Origins — •MASSIMILIANO LINCETTO

T 21.2	Tue	14:15–14:45	ZHG010	Multimessenger astronomy with ultra-high-energy cosmic rays and high-energy neutrinos — ●FOTEINI OIKONOMOU
T 21.3	Tue	14:45–15:15	ZHG010	Peering into the Cosmos from Deep Underground – Astroparticle Physics with Xenon Detectors — ●CHRISTIAN WITTEWEG
T 21.4	Tue	15:15–15:45	ZHG010	Feebly Interacting Particles in the Early Universe — ●MATHIAS BECKER
T 64.1	Thu	13:45–14:15	ZHG011	Performance of the ATLAS New Small Wheels — ●FABIAN VOGEL
T 64.2	Thu	14:15–14:45	ZHG011	Top quark and friends — ●JAN VAN DER LINDEN
T 64.3	Thu	14:45–15:15	ZHG011	Searching for New Physics in Soft Unclustered Energy Patterns — ●ALEXANDER LORY
T 64.4	Thu	15:15–15:45	ZHG011	Alignment and calibration at the LHCb experiment — ●BILJANA MITRESKA
T 65.1	Thu	13:45–14:15	ZHG010	Searching for Axions and other Light Bosons at DESY — ●JACOB EGGE
T 65.2	Thu	14:15–14:45	ZHG010	14 years of coordinated outreach for particle physics: methods, impact and prospects — ●SASKIA PLURA, UTA BILOW, MICHAEL KOBEL, ACHIM DENIG, HEIKE VORMSTEIN, MIRCO CHRISTMANN
T 65.3	Thu	14:45–15:15	ZHG010	The Emerging Population of Seyfert Galaxies as Neutrino Sources in IceCube — ●CHIARA BELLENGHI, TOMAS KONTRIMAS, ELENA MANAO
T 65.4	Thu	15:15–15:45	ZHG010	First detection of neutrinos in water-based liquid scintillator at AN-NIE — ●JOHANN MARTYN

Invited Talks of the joint Symposium SMuK Dissertation Prize 2025 (SYMD)

See SYMD for the full program of the symposium.

SYMD 1.1	Mon	14:15–14:45	ZHG011	Fluid-dynamic description of heavy-quark diffusion in the quark-gluon plasma — ●FEDERICA CAPELLINO
SYMD 1.2	Mon	14:45–15:15	ZHG011	Fast and faithful effective-one-body models for gravitational waves from generic compact binaries — ●ROSSELLA GAMBA
SYMD 1.3	Mon	15:15–15:45	ZHG011	Nuclear Structure Near Doubly Magic Nuclei — ●LUKAS NIES
SYMD 1.4	Mon	15:45–16:15	ZHG011	Optimisation strategies for proton acceleration from thin foils with petawatt ultrashort pulse lasers — ●TIM ZIEGLER

Invited Talks of the joint Awards Symposium (SYAS)

See SYAS for the full program of the symposium.

SYAS 1.1	Tue	11:05–11:35	ZHG011	Zum Verhältnis von Physikdidaktik und Physikunterricht — ●RITA WODZINSKI
SYAS 1.2	Tue	11:35–12:05	ZHG011	(Quanten-)Physik für alle mit dem PhotonLab — ●SILKE STÄHLER-SCHÖPF
SYAS 1.3	Tue	12:05–12:35	ZHG011	Searching for the fingerprints of new phenomena with top quarks — ●KATHARINA BEHR

Sessions

T 1.1–1.7	Mon	16:45–18:30	ZHG010	Searches/BSM I (HNL, ETmiss+X)
T 2.1–2.8	Mon	16:45–18:45	ZHG104	Higgs Physics I (HH and trilinear coupling)
T 3.1–3.7	Mon	16:45–18:30	ZHG105	Higgs Physics II (BSM Higgs)
T 4.1–4.6	Mon	16:45–18:15	VG 0.110	Detectors I (Scintillators)
T 5.1–5.6	Mon	16:45–18:15	VG 0.111	Silicon Detectors I (ATLAS + CMS)
T 6.1–6.6	Mon	16:45–18:15	VG 1.101	Silicon Detectors II (Belle II, Tristan)
T 7.1–7.5	Mon	16:45–18:00	VG 1.102	Detectors II (Gaseous Detectors)
T 8.1–8.6	Mon	16:45–18:15	VG 1.103	Top Physics I (tt+X)
T 9.1–9.6	Mon	16:45–18:15	VG 1.104	Flavour Physics I
T 10.1–10.7	Mon	16:45–18:30	VG 1.105	Neutrino Astronomy I
T 11.1–11.5	Mon	16:45–18:00	VG 2.101	Data, AI, Computing, Electronics I (Statistical Methods, Applications)
T 12.1–12.6	Mon	16:45–18:15	VG 2.102	Data, AI, Computing, Electronics II (Data Management, Workflow)
T 13.1–13.4	Mon	16:45–17:45	VG 2.103	Sustainability

T 14.1–14.5	Mon	16:45–18:00	VG 3.101	Methods in Astroparticle Physics I
T 15.1–15.6	Mon	16:45–18:15	VG 3.102	Cosmic Rays I
T 16.1–16.6	Mon	16:45–18:15	VG 3.103	Neutrino Physics I
T 17.1–17.6	Mon	16:45–18:15	VG 3.104	Neutrino Physics II
T 18.1–18.7	Mon	16:45–18:30	VG 4.101	Methods in Particle Physics I (Calo, Jets, Tagging)
T 19.1–19.8	Mon	16:45–18:45	VG 4.102	Search for Dark Matter I
T 20.1–20.4	Tue	13:45–15:45	ZHG011	Invited Topical Talks I
T 21.1–21.4	Tue	13:45–15:45	ZHG010	Invited Topical Talks II
T 22.1–22.1	Tue	12:35–13:45	ZHG011	Annual Meeting of Young Scientists in High Energy Physics
T 23.1–23.7	Tue	16:15–18:00	ZHG010	Searches/BSM II (Non-collider)
T 24.1–24.6	Tue	16:15–17:45	ZHG104	Higgs Physics III (boson final states)
T 25.1–25.6	Tue	16:15–17:45	ZHG105	Higgs Physics IV (BSM Higgs)
T 26.1–26.6	Tue	16:15–17:45	VG 0.110	Axions/ALPs I
T 27.1–27.8	Tue	16:15–18:15	VG 0.111	Silicon Detectors III (ATLAS + CMS production)
T 28.1–28.6	Tue	16:15–17:45	VG 1.101	Silicon Detectors IV (SiPMs, HG timing)
T 29.1–29.5	Tue	16:15–17:30	VG 1.102	Detectors III (Scintillators)
T 30.1–30.6	Tue	16:15–17:45	VG 1.103	Top Physics II (Properties)
T 31.1–31.8	Tue	16:15–18:15	VG 1.104	Flavour physics II
T 32.1–32.7	Tue	16:15–18:00	VG 1.105	Neutrino Astronomy II
T 33.1–33.6	Tue	16:15–17:45	VG 2.101	Data, AI, Computing, Electronics III (ML in Jet Tagging, Misc.)
T 34.1–34.8	Tue	16:15–18:15	VG 2.102	Data, AI, Computing, Electronics IV (DAQ, Detector Electronics)
T 35.1–35.6	Tue	16:15–17:45	VG 2.103	Electroweak Physics I (Weak Mixing Angle, Tau Production)
T 36.1–36.6	Tue	16:15–17:45	VG 3.101	Methods in Astroparticle Physics II
T 37.1–37.6	Tue	16:15–17:45	VG 3.102	Cosmic Rays II
T 38.1–38.7	Tue	16:15–18:00	VG 3.103	Neutrino Physics III
T 39.1–39.6	Tue	16:15–17:45	VG 3.104	Neutrino Physics IV
T 40.1–40.7	Tue	16:15–18:00	VG 4.101	Methods in Particle Physics II (Misc.)
T 41.1–41.7	Tue	16:15–18:00	VG 4.102	Search for Dark Matter II
T 42.1–42.3	Wed	11:00–12:30	ZHG011	Invited Overview Talks I
T 43.1–43.4	Wed	13:45–15:45	ZHG011	Invited Overview Talks II
T 44.1–44.8	Wed	16:15–18:15	ZHG010	Searches/BSM III (Long-lived, Misc.)
T 45.1–45.8	Wed	16:15–18:15	ZHG104	Higgs Physics V (HH and Trilinear Coupling)
T 46.1–46.8	Wed	16:15–18:15	ZHG105	Higgs Physics VI (top-Higgs Coupling)
T 47.1–47.8	Wed	16:15–18:15	VG 0.110	Axions/ALPs II
T 48.1–48.10	Wed	16:15–18:45	VG 0.111	Silicon Detectors V (R&D, Simulation)
T 49.1–49.6	Wed	16:15–17:45	VG 1.101	Detectors IV (Scintillators)
T 50.1–50.4	Wed	16:15–17:15	VG 1.102	Detectors V (Misc.)
T 51.1–51.8	Wed	16:15–18:15	VG 1.103	Top Physics III (Cross Sections, Entanglement)
T 52.1–52.8	Wed	16:15–18:15	VG 1.104	Flavour Physics III
T 53.1–53.8	Wed	16:15–18:15	VG 1.105	Neutrino Astronomy III
T 54.1–54.8	Wed	16:15–18:15	VG 2.101	Data, AI, Computing, Electronics V (Anomaly Detection, Event Selection)
T 55.1–55.9	Wed	16:15–18:30	VG 2.102	Data, AI, Computing, Electronics VI (DAQ and Trigger)
T 56.1–56.7	Wed	16:15–18:00	VG 2.103	Electroweak Physics II (Multi-boson Processes)
T 57.1–57.8	Wed	16:15–18:15	VG 3.101	Gamma Astronomy I
T 58.1–58.7	Wed	16:15–18:00	VG 3.102	Cosmic Rays III
T 59.1–59.9	Wed	16:15–18:30	VG 3.103	Neutrino Physics V
T 60.1–60.7	Wed	16:15–18:00	VG 3.104	Gravitational Waves
T 61.1–61.8	Wed	16:15–18:15	VG 4.101	Methods in Particle Physics III (Tracking)
T 62.1–62.9	Wed	16:15–18:30	VG 4.102	Search for Dark Matter III
T 63.1–63.3	Thu	11:00–12:30	ZHG011	Invited Overview Talks III
T 64.1–64.4	Thu	13:45–15:45	ZHG011	Invited Topical Talks III
T 65.1–65.4	Thu	13:45–15:45	ZHG010	Invited Topical Talks IV
T 66.1–66.7	Thu	16:15–18:00	ZHG010	Searches/BSM IV (BSM with Tops, LQs)
T 67.1–67.10	Thu	16:15–18:45	ZHG104	Higgs Physics VII (HH and Trilinear Coupling)
T 68.1–68.9	Thu	16:15–18:30	ZHG105	Higgs Physics VIII (CP)
T 69.1–69.8	Thu	16:15–18:15	VG 0.110	Strong Interaction / QCD
T 70.1–70.9	Thu	16:15–18:30	VG 0.111	Silicon Detectors VI (MAPS, Mighty Tracker)
T 71.1–71.8	Thu	16:15–18:15	VG 1.101	Detectors VI (Gaseous Detectors)

T 72.1–72.9	Thu	16:15–18:30	VG 1.102	Detectors VII (Calorimeters)
T 73.1–73.9	Thu	16:15–18:30	VG 1.103	Flavour Physics IV
T 74.1–74.8	Thu	16:15–18:15	VG 1.104	Flavour Physics V
T 75.1–75.9	Thu	16:15–18:30	VG 1.105	Neutrino Astronomy IV
T 76.1–76.10	Thu	16:15–18:45	VG 2.101	Data, AI, Computing, Electronics VII (Generative AI, MC Generators)
T 77.1–77.8	Thu	16:15–18:15	VG 2.102	Data, AI, Computing, Electronics VIII (Fast ML, Triggers)
T 78.1–78.8	Thu	16:15–18:15	VG 2.103	Gamma Astronomy II
T 79.1–79.8	Thu	16:15–18:15	VG 3.101	Methods in Astroparticle Physics III
T 80.1–80.7	Thu	16:15–18:00	VG 3.102	Cosmic Rays IV
T 81.1–81.8	Thu	16:15–18:15	VG 3.103	Neutrino Physics VI
T 82.1–82.8	Thu	16:15–18:15	VG 3.104	Neutrino Physics VII
T 83.1–83.10	Thu	16:15–18:45	VG 4.101	Methods in Particle Physics IV (Lepton Reconstruction)
T 84.1–84.10	Thu	16:15–18:45	VG 4.102	Search for Dark Matter IV
T 85	Thu	19:00–20:00	ZHG104	Members' Assembly
T 86.1–86.6	Fri	9:00–10:30	ZHG010	Searches/BSM V (Misc.)
T 87.1–87.5	Fri	9:00–10:15	ZHG104	Higgs physics IX (Charm and Tau Final States)
T 88.1–88.6	Fri	9:00–10:30	ZHG105	Miscellaneous
T 89.1–89.6	Fri	9:00–10:30	VG 0.110	Axions/ALPs III
T 90.1–90.6	Fri	9:00–10:30	VG 0.111	Silicon Detectors VII (ATLAS + CMS phase-2)
T 91.1–91.6	Fri	9:00–10:30	VG 1.101	Silicon Detectors VIII (MAPS, misc.)
T 92.1–92.6	Fri	9:00–10:30	VG 1.102	Detectors VIII (Gaseous Detectors)
T 93.1–93.4	Fri	9:00–10:00	VG 1.103	Top Physics IV (Misc.)
T 94.1–94.6	Fri	9:00–10:30	VG 1.104	Flavour Physics VI
T 95.1–95.5	Fri	9:00–10:15	VG 1.105	Outreach
T 96.1–96.6	Fri	9:00–10:30	VG 2.101	Detectors IX (Calorimeters)
T 97.1–97.6	Fri	9:00–10:30	VG 2.102	Data, AI, Computing, Electronics IX (AI-based Object Reconstruction)
T 98.1–98.6	Fri	9:00–10:30	VG 2.103	Electroweak Physics III (W/Z Production and Properties)
T 99.1–99.6	Fri	9:00–10:30	VG 3.101	Methods in Astroparticle Physics IV
T 100.1–100.5	Fri	9:00–10:15	VG 3.102	Cosmic Rays V
T 101.1–101.6	Fri	9:00–10:30	VG 3.103	Neutrino Physics VIII
T 102.1–102.6	Fri	9:00–10:30	VG 3.104	Neutrino Physics IX
T 103.1–103.6	Fri	9:00–10:30	VG 4.101	Methods in Particle Physics V (Event Reconstruction, PID)
T 104.1–104.6	Fri	9:00–10:30	VG 4.102	Search for Dark Matter V
T 105.1–105.4	Fri	11:00–13:00	ZHG011	Invited Overview Talks IV

Members' Assembly of the Particle Physics Division

Thursday 19:00–20:00 ZHG104