

Radiation and Medical Physics Division Fachverband Strahlen- und Medizinphysik (ST)

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Overview of Invited Talks and Sessions

(Lecture hall ST-H4; Poster P)

Plenary Talk of ST

See plenary section for details.

PV I Mon 11:40–12:25 Audimax **Making uncertainty certain?: Proton therapy, range and in-vivo verification.** — •TONY LOMAX

Invited Talks

ST 4.1 Tue 14:00–14:40 ST-H4 **Present status and future challenges of magnetic resonance-guided radiotherapy** — •CHRISTIAN P. KARGER

ST 10.1 Thu 16:15–16:55 ST-H4 **Artificial intelligence in PET image reconstruction and quantitative analysis** — •ZHAOHENG XIE

Invited Talks of the joint symposium SMuK Dissertation Prize 2022 (SYMD)

See SYMD for the full program of the symposium.

SYMD 1.1 Mon 14:00–14:25 Audimax **Timeless Quantum Mechanics and the Early Universe** — •LEONARDO CHATAIGNER

SYMD 1.2 Mon 14:25–14:50 Audimax **First tritium β -decay spectrum recorded with Cyclotron Radiation Emission Spectroscopy (CRES)** — •CHRISTINE CLAESSENS

SYMD 1.3 Mon 14:50–15:15 Audimax **Watching the top quark mass run - for the first time!** — •MATTEO M. DEFRANCHIS, KATERINA LIPKA, SVEN-OLAF MOCH

SYMD 1.4 Mon 15:15–15:40 Audimax **Towards beam-quality-preserving plasma accelerators: On the precision tuning of the wakefield** — •SARAH SCHRÖDER

Prize Talks of the joint Awards Symposium (SYAW)

See SYAW for the full program of the symposium.

SYAW 1.1 Wed 14:10–14:40 Audimax **Wie überprüft man die Ziele der Lehramtsausbildung Physik?** — •HORST SCHECKER

SYAW 1.2 Wed 14:40–15:10 Audimax **Astronomy at Highest Angular Resolution - Adaptive Optics, Interferometry and Black Holes** — •FRANK EISENHAEUER

SYAW 1.3 Wed 15:10–15:40 Audimax **Turbulence in one dimension** — •ALEXANDER M. POLYAKOV

Sessions

ST 1.1–1.6 Mon 14:00–15:30 ST-H4 **Radiation therapy I**

ST 2.1–2.4 Mon 16:15–17:30 P **Poster Session**

ST 3.1–3.5 Tue 11:00–12:15 ST-H4 **Artificial Intelligence in Medicine**

ST 4.1–4.5 Tue 14:00–15:40 ST-H4 **Radiation monitoring and dosimetry I**

ST 5	Tue	16:15–17:30	ST-MV	Annual General Meeting
ST 6.1–6.5	Wed	11:00–12:15	ST-H4	Detectors and Applications I
ST 7.1–7.5	Wed	16:15–17:30	ST-H4	Radiation monitoring and dosimetry II
ST 8.1–8.4	Thu	11:00–12:00	ST-H4	Radiation therapy II
ST 9.1–9.6	Thu	14:00–15:30	ST-H4	Detectors and Applications II
ST 10.1–10.1	Thu	16:15–16:55	ST-H4	Total-Body PET
ST 11	Thu	16:55–17:10	ST-H4	Prize Ceremony and Closing Session

Annual General Meeting of the Radiation and Medical Physics Division

Tuesday 16:15–17:30 ST-H4

Networking and Coffee Breaks

Everybody is kindly invited to join the meeting area during the coffee breaks. Continue the discussion with the speakers of the previous session, meet your colleagues and get to know new people. Please feel free to bring a cup of coffee and enjoy the networking!