

22NRM07 GuideRadPROS

Harmonisation, update and implementation of standards related to radiation protection dosimeters for photon radiation

September 30th - October 1st 2024

2 days online training

to set-up photon reference radiation fields and to calibrate photon dosimeters according to ISO 4037 standard and prepare for new radiation protection quantities

TRAINING COMMITTEE

IST: João Alves, Ana Fernandes

VINS: Nikola Kržanović

PTB: Hayo Zutz, Steffen Ketelhut

EEAE: Argiro Boziari



Timetable

September 30th

09:00 - 09:20: **Requirements of ISO 4037:2019 and ISO 29661**, Oliver Hupe, PTB
09:30 - 09:50: **Setting up X-ray and gamma reference fields - Monitor chambers**, Argiro Boziari, EEAE
10:00 - 10:20: **High voltages dividers**, Hayo Zutz, PTB
10:30 - 10:50: **Spectrometry: Introduction, experimental setup and response matrix determination**, Liviu-Cristian Mihailescu, SCK CEN
11:00 - 11:20: **Spectrometry: Spectra unfolding, tube voltage determination, calculation of conversion coefficients and uncertainty budget**, Joonas Tikkanen, STUK
11:30 - 12:30: **Break**
12:30 - 14:30: **Discussion**

October 1st

09:00 - 09:20: **Half Value Layer measurements**, Steffen Ketelhut, PTB
09:30 - 09:50: **Field homogeneity measurements**, Hayo Zutz, PTB
10:00 - 10:20: **Performing calibrations, type testing**, Ana Fernandes IST - Nikola Krzanovic, VINS
10:30 - 10:50: **Evaluations of measurement uncertainty**, Milos Zivanovic, VINS
11:00 - 11:20: **The new ICRU Report 95 quantities and their impact**, Oliver Hupe, PTB
11:30 - 12:30: **Break**
12:30 - 14:30: **Discussion**

Each lecture will be followed by a 10-minute discussion on whether the topic has been fully covered