Time (PDT)	Wednesday July 31, 2024 (Experimental Dosimetric Techniques, Treatment Verification, Superiorization in TP, Other)
7:30 AM	Welcome & Daily Overview
8:00 AM	George Dedes: **Deep-learning tools for dose calculation and prompt-gamma emission in proton therapy**
8:30 AM	Victor Merza: **Simulation of a Thick-Gaseous Electron Multiplier (THGEM)-based Nanodosimeter**
9:00 AM	Wei Liu: **LET-Based Proton Planning – From Development to Clinical Implementation**
10:00 AM	Coffee & Snacks
10:30 AM	Elisabetta Gargioni: **Use of (very) small, but (very) powerful beams for radiotherapy research – current projects at the UKE**
11:00 AM	Marie Wegner: **Use of additive manufacturing in the development of phantoms for clinical and pre-clinical dosimetry at the UKE - current projects**
11:30 AM	Julia Bauer & Habiba Sallem (shared): **Brain injuries after proton therapy – risk modelling and mitigation in clinical practise"**
12:00 PM	Lunch Break
1:00 PM	Maxim Kuznetsov: **Optimization of external beam radiotherapy: insights from mechanistic mathematical modeling**
1:30 PM	Antoni Rucinski: **Overview of the Medical Physics R&D Activities at Krakow Proton Therapy Center**
2:00 PM	Keith Schubert (presenter) & Marcia Hernandez: **Recent updates on Dose Superiorization for Ionization Detail**
2:30 PM	Ha Ngyuyen: **Effect of kV and MV parameters on MV scatter on the Varian on-board imager**
3:00 PM	Magdalena Węgrzyn: **Plasmid Strand Break Assay for Evaluation of FLASH Radiation Chemistry – Reference Experiments**
3:30 PM	Michael Moyers: **Use of DEXCT for Portal Design and Monte Carlo Based Simulations**
4:00 PM	Coffee & Snacks
5:00 PM	Free Time