

Time (PDT)	Wednesday August 2, 2023
6:00 AM	Welcome & Daily Overview
6:30 AM	Joao Seco: The Impact of Oxygen dynamics in cells and how it influences radiation response
7:30 AM	Alexander Pryanichnikov: Innovative Developments in Spot Scanning Proton Therapy and Motion Management
8:00 AM	Coffee & Snacks
8:30 AM	Arghya Chattaraj: Calculation of DNA-damage probability of therapeutic helium and carbon Ion beams
9:00 AM	Victor Merza: A short introduction to experimental nanodosimetry in the 2020s Irina Kempf: Determination of effective drift voltage in a new nanodosimetric prototype
9:30 AM	Marcin Pietrzak: Geant4-DNA simulation of the Jet Counter nanodosemeter in experiments with alpha particles and carbon ions
10:00 AM	Bruce Faddegon: ID formalism Naoki Dominguez Kondo: 1) Nanoscopic calculation of the frequency distribution of clusters $f(\nu)$ with track structure simulation
10:30 AM	Naoki Dominguez Kondo: 2) Calculation of frequency ICSD database with TOPAS-nBio and its use to calculate the voxel-averaged frequency ICSD with TOPAS Ramon Ortiz: 1) Macroscopic calculation ID parameters I_p and cluster dose g with condensed history Monte Carlo 2) Determination of preferred I_p from cell survival data from HIT SOBP measurements and Bevalac Bragg curve measurements with protons through argon
11:00 AM	Simona Facchiano: Towards Treatment Planning with Ionization Detail
11:30 AM	João Canhoto: Comparison of Sampling and Clustering Algorithms for Nanodosimetry using Geant4-DNA
12:00 PM	Lunch Break
12:30 PM	
1:00 PM	Beata Brzozowska: Analysis of DNA damage in cells after mixed radiation exposure
1:30 PM	Adrianna Tatas: Monte Carlo methods for dose homogeneity simulations in cell nuclei exposed to alpha particles under different setup conditions
2:00 PM	Beata Pszczółkowska: Studies on exosomes and DNA damage in prostate cancer cells exposed to different ionizing radiation qualities
2:30 PM	Ha Nguyen: A computational study of Alternating Electric Field (AEF) therapy
3:00 PM	Andrew Best: NTCP and Proton Range Uncertainty: A Systematic Study
3:30 PM	Lawrence O: Detection of the 3D Position and Motion Status of the Moving Heart based on 2D Projections
4:00 PM	Coffee & Snacks
4:30 PM	Free Time
5:00 PM	
5:30 PM	
8:00 PM	