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| Time (PDT) | Tuesday, August 01, 2023 |
| 6:00 AM | Welcome & Daily Overview |
| 6:30 AM | Fahed Alsanea: Managing uncertainties in proton therapy |
| 7:30 AM | Gilmer Valdes: AI applications in radiation oncology: outcome prediction and adaptive therapy |
| 8:00 AM | Coffee & Snacks |
| 8:30 AM | Carlos Granja: Detection and characterization of fast and thermal neutrons in proton and ion radiotherapy secondary fields |
| 9:00 AM | Cristina Oancea: Conventional and FLASH proton and electron beams characterization based on secondary and scattered particles: beam structure, DR, FLUX, LET |
| 9:30 AM | Paulina Stasica: Single proton LET characterization with the Timepix detector and artificial intelligence for advanced proton therapy treatment planning |
| 10:00 AM | Jan Gajewski: Single proton LET spectra scoring in Monte Carlo codes for applications in proton radiotherapy |
| 10:30 AM | Antoni Rucinski: 1) Investigations of 3D-printed and commercial plastic scintillators for dosimetry applications 2) Designing a flexible treatment plan optimization tool for proton therapy based on Python environment and GPU acceleration |
| 11:00 AM | Niklas Wahl: Beyond nominal dose calculation and optimization – v3 of the open-source treatment planning toolkit matRad |
| 11:30 AM | Jennifer Hardt: Range Guided Treatment Planning Using Mixed Carbon-Helium Beams |
| 12:00 PM | Lunch Break |
| 12:30 PM | |
| 1:00 PM | Nils Krahl: Development of Gate 10- a new python based Geant4 application for simulations in medical physics and medical imaging |
| 1:30 PM | Michael Moyers: A multi-stage Approach for Optimizing Light Ion Beam Portal Sets |
| 2:00 PM | Hanh Nguyen: Deep Reinforcement Learning based Automatic Treatment Planning for Gamma Knife Radiosurgery |
| 2:30 PM | Mohan Saxena: Characterization of a Positive Ion VOC Detector for Cancer Detection: (Introduction to VOC Cancer Diagnosis by Kristiana Rood) |
| 3:00 PM | Eli Haynal: Signal Analysis Program for VOC Detection - Work in progress |
| 3:30 PM | Coffee & Snacks |
| 4:00 PM | Free Time |
| 4:30 PM | |
| 5:00 PM | Proton Center Tour |
| 8:00 PM | Redlands Bowl |