



Sunday, July 29

- 2:05 – 3:00 PM**
Room 202
CBCT-Based Dose Calculations with a Two-Dimensional Anti-Scatter Grid Prototype: The Effect of Scatter Suppression on Dose-Calculation Accuracy
Brian Miller, Ph.D. (Physics Resident, now Radiation Oncology Faculty)
- 5:05 – 6:00 PM**
Room 202
Measuring Marker Motion and Tumor Position During Treatment with Coded-Aperture Compton Imaging
Bernard "Tripp" Jones, Ph.D., (Radiation Oncology Faculty)
- 5:05 – 6:00 PM**
Davidson Ballroom A
Developing a Low Cost Plasma Accelerator for Flash Radiotherapy Studies
Reza Alibazi Behbahani, Ph.D. (Radiation Oncology Post Doctoral Fellow)
- Chapter History
Poster
Rocky Mountain Chapter History Poster
Rebecca Marsh, Ph.D. (Radiology Faculty)

Monday, July 30

- 1:15 – 1:45 PM**
Exhibit Hall Forum 1
Chest X-Ray Quality Assurance Using Convolutional Networks: Identification of Clipped Images
Rafe McBeth, Ph.D. (Alternate Radiation Safety Officer, now Physics Resident at UT Southwestern)
- 1:45 – 3:45 PM**
Karl Dean Ballroom C
Med Phys Slam National Competition
Warren Campbell, Ph.D., winner of the Rocky Mountain Chapter competition (Physics Resident)

Tuesday, July 31

- 9:30 – 10:00 AM**
Exhibit Hall Forum 7
Improving Patient Safety by Reducing Unnecessary Potential Collisions between Linac & Patient
Christina Breeze (Radiation Oncology Physics Intern)
- 10:00 – 10:30 AM**
Exhibit Hall Forum 5
Development of High Aspect Ratio Two-Dimensional Antiscatter Grids for CBCT
Timur Alexeev, Ph.D. (Radiation Oncology Postdoctoral Fellow)
- 1:45 – 3:45 PM**
Karl Dean Ballroom C
Development and Evaluation of a Total Variation Minimization Based Method for Suppressing Ring Artifacts in CBCT Images
Timur Alexeev, Ph.D. (Radiation Oncology Postdoctoral Fellow)
- 4:30 – 6:00 PM**
Room 202
Machine Learning on Quality Control of Chest CT Chest Exams: Scan Length Optimization
Donglai Huo, Ph.D. (Radiology Faculty)

Wednesday, August 1

- 7:30 – 9:30 AM**
Karl Dean Ballroom C
Characterizing Spatial Lung Function for Esophageal Cancer Patients
Al Pinder-Arabpour (Radiation Oncology Postdoctoral Fellow)
- 7:30 – 9:30 AM**
Karl Dean Ballroom C
Longitudinal Assessment of 4DCT-Derived Ventilation Change Following Radiation Therapy
Taylor Patton (Physics Resident, presenting work from University of Wisconsin)
- 1:45 – 3:45 PM**
Davidson Ballroom A
Progress Towards a Simple Pulse Line Ion Accelerator
Quentin Diot, Ph.D. (Radiation Oncology Faculty)
- 1:45 – 3:45 PM**
Karl Dean Ballroom B
Quantifying the Amount of Allowable Motion for Safe Delivery of SBRT
Joy Ding, Ph.D. (Radiation Oncology Postdoctoral Fellow)