## Sunday, July 29

<table>
<thead>
<tr>
<th>Time</th>
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| 2:05 – 3:00 PM| 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| 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| Developing a Low Cost Plasma Accelerator for Flash Radiotherapy Studies  
Reza Alibazi Behbahani, Ph.D. (Radiation Oncology Post Doctoral Fellow) |

**Chapter History Poster**  
Rebecca Marsh, Ph.D. (Radiology Faculty)

## Monday, July 30

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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| 1:15 – 1:45 PM| 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| Med Phys Slam National Competition  
Warren Campbell, Ph.D., winner of the Rocky Mountain Chapter competition (Physics Resident) |

## Tuesday, July 31

<table>
<thead>
<tr>
<th>Time</th>
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| 9:30 – 10:00 AM| Improving Patient Safety by Reducing Unnecessary Potential Collisions between Linac & Patient  
Christina Breeze (Radiation Oncology Physics Intern) |
| 10:00 – 10:30 AM| Development of High Aspect Ratio Two-Dimensional Antiscatter Grids for CBCT  
Timur Alexeev, Ph.D. (Radiation Oncology Postdoctoral Fellow) |
| 1:45 – 3:45 PM| 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| Machine Learning on Quality Control of Chest CT Chest Exams: Scan Length Optimization  
Donglai Huo, Ph.D. (Radiology Faculty) |

## Wednesday, August 1

<table>
<thead>
<tr>
<th>Time</th>
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| 7:30 – 9:30 AM| Characterizing Spatial Lung Function for Esophageal Cancer Patients  
Al Pinder-Arabpour (Radiation Oncology Postdoctoral Fellow) |
| 7:30 – 9:30 AM| 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| Progress Towards a Simple Pulse Line Ion Accelerator  
Quentin Diot, Ph.D. (Radiation Oncology Faculty) |
| 1:45 – 3:45 PM| Quantifying the Amount of Allowable Motion for Safe Delivery of SBRT  
Joy Ding, Ph.D. (Radiation Oncology Postdoctoral Fellow) |