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Simulation Studies of X-Ray Conversion Targets for Radiotherapy Linacs SARAH DEUTSCH, Univ of Alabama - Tuscaloosa, CLIC COLLABORATION — Recent advances in electron linac technology made in the context of linear collider studies have the potential to make a significant impact also on radio-therapy linacs. In order to develop an optimized implementation of linear collider technology, a deeper understanding of the important radio-therapy systems is necessary. One aspect in particular requiring additional study is the conversion target. This project comprises simulation studies of X-ray conversion targets at low energies using the simulation tools Geant4 and TOPAS with the objective of identifying important processes and issues for the longer term goal of making broader multi-system optimizations of a traditional radio-therapy linac.

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