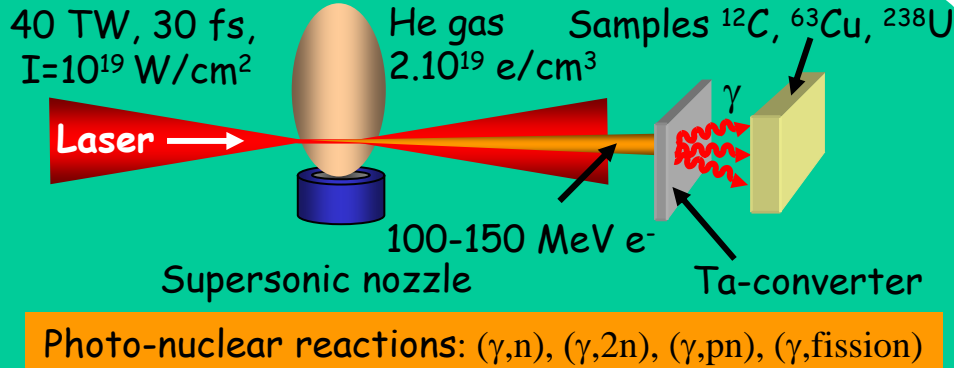


# Efficient Initiation of Photonuclear Reactions Using Quasi-Monoenergetic Electron Beams from Laser Wakefield

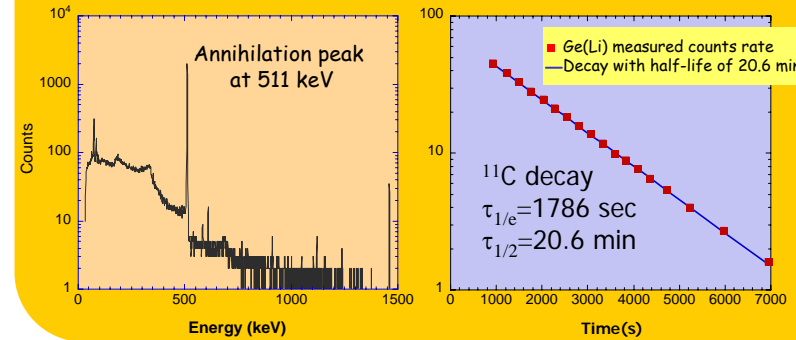
S. Reed<sup>1</sup>, C. R. Vane<sup>2</sup>, A. Maksimchuk<sup>1</sup>, V. Yanovsky<sup>1</sup>, V. Chvykov<sup>1</sup>,  
G. Kalintchenko<sup>1</sup>, D. Stracener<sup>2</sup>, J. R. Beene<sup>2</sup> and D. R. Schultz<sup>2</sup>

<sup>1</sup>FOCUS Center and Center for Ultrafast Optical Science, University of Michigan

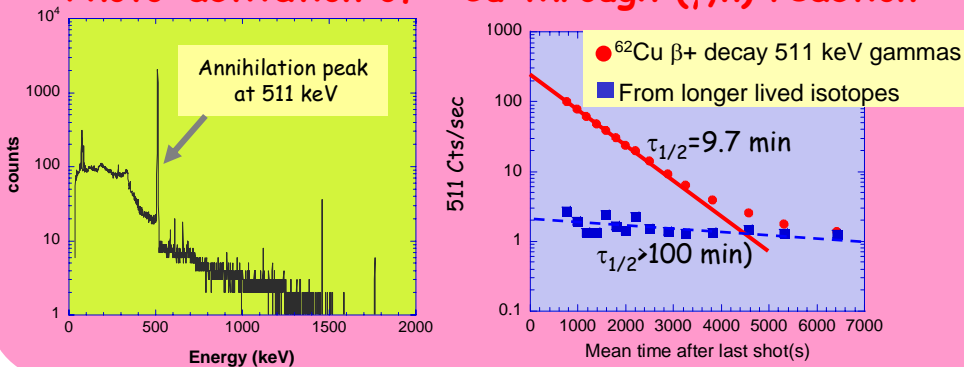
<sup>2</sup>Physics Division, Oak Ridge National Laboratory, Oak Ridge



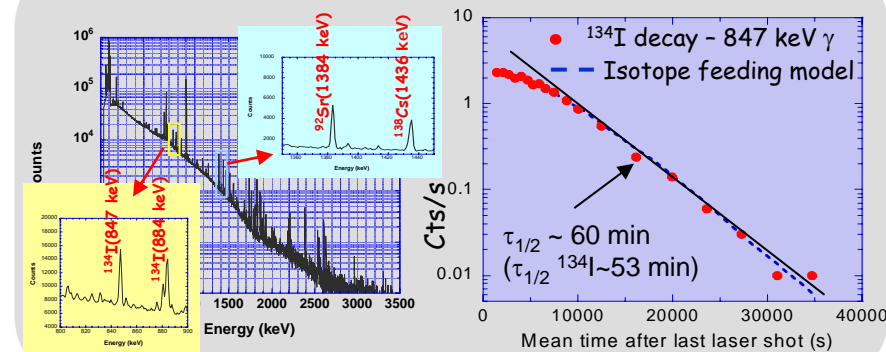
## Photo-activation of <sup>12</sup>C through $(\gamma,n)$ reaction



## Photo-activation of <sup>63</sup>Cu through $(\gamma,n)$ reaction



## Photofission of <sup>238</sup>U



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