

Abstract Submitted
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Multiple scattering in laser assisted free-free scattering experiments¹ B.A. DEHARAK, M. R. MCGILL, S. KIM, Illinois Wesleyan Univ., C. M. WEAVER, B. N. KIM, N.L.S. MARTIN, Univ. of Kentucky — We present the results of a series of Monte Carlo simulations of the laser assisted free-free experiments reported by Wallbank and Holmes¹. Our simulations make use of the cross sections calculated by Fursa and Bray², and the Kroll-Watson approximation³ to account for the effect of the laser field on the scattering process. The target density for these simulations is based on the experimental conditions reported by Wallbank and Holmes⁴. We find that our results are in reasonable agreement with the experimental data.

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3. N. M. Kroll and K. M. Watson, Phys. Rev. A 8, 804 (1973).
4. B. Wallbank and J. K. Holmes, Can. J. Phys. 79, 1237 (2001).

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