

Abstract Submitted  
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**Double Photoionization of Neon atoms using screening potential approach** HARI P. SAHA, University of Central Florida, Orlando, FL32816 — We will report the results of triple differential cross section for double photoionization of rare-gas atom, neon using our extended MCHF method [ 1]. It is well known that electron correlation effects in both the initial and the final states are very important. To incorporate these effects we will use both Hartree-Fock and multi-configuration Hartree-Fock methods to account for electron correlation in the initial state. The electron correlation in the final state will be taken into account using the angle-dependent screening potential approximation [2,3]. Our results will be compared with available experimental observations and accurate theoretical calculations . [1] Hari P. Saha, J. Phys. B 47, 175005 (2014). [2] M.R.H. Rudge, Rev. Mod. Phys. 40, 564 (1968). [3] C.Pan and A.F Starace, Phys. Rev. Lett. 67, 185 (1991); Phys. Rev. A45, 4588 (1992).

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