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Double Photoionization of helium atom using Screening Potential Approach HARIPADA SAHA, University of CEntral Florida, Orlando — The triple differential cross section for double Photoionization of helium atom will be investigated using our recently 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 the multi-configuration Hartree-Fock method 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]. The triple differential cross section (TDCS) will be calculated for 20 eV photon energy, which has experimental results. Our results will be compared with available experimental [4] and the theoretical observations [5].

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