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First Results on Single Ionization of Helium by Extreme Ultraviolet Photons at Lanzhou

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The platform dedicated to studies of extreme ultraviolet (EUV) laser on atom/molecule has been established recently at the Institute of Modern Physics, CAS, Lanzhou. The platform consists of an EUV laser system and a reaction microscope. Testing experiment on single ionization of helium atom by EUV photon of about 37.5 eV was conducted. Photoelectron angular distributions are obtained and compared with theoretical calculations from TDSE method.

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