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SEMINAR NOTICE

TITLE: *A STUDY OF ^{99}MO WITH THE (t, p) REACTION*

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LOCATION: *Hall A26, 2-nd floor, Faculty of Sciences building, Str. Dr. Ion Rațiu 7-9.*

DATE: *Wednesday, March 10, 2010, 11:00.*

Abstract

The $^{97}\text{Mo}(t, p)^{99}\text{Mo}$ reaction has been studied with the triton beam energy of 12 MeV obtained from tandem Van de Graaff accelerator at the Atomic Weapon Research Establishment, Aldermaston. Proton spectra were obtained at 12 different angles from 5° to 87.5° at an interval of 7.5° and were detected in nuclear emulsion plates. Angular distributions for transitions to 46 levels in the energy range from 0.000 to 2.054 MeV have been measured. Absolute differential cross sections for the levels have been measured. The experimental angular distributions are compared with the distorted-wave Born approximation calculations (DWBA) to determine L and J^π values. The present results are compared with the previous experimental results.