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Production of neutrons and spallation products by high-energy particle beams

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This review summarises data up to 2008 on energy and angular distributions of neutrons produced from thick targets of various materials bombarded by protons, deuterons, He and heavier ions having wide energy range from MeV to GeV. Total neutron yields are also presented. Production cross section data for spallation by proton to Ar ion are also summarized in this talk, as well as excitation functions, mass-yield distributions, and induced activities. Some data are also presented for photo-neutron production.

Primary author: Prof. NAKAMURA, Takashi (Shimizu Corporation)

Presenter: Prof. NAKAMURA, Takashi (Shimizu Corporation)

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