

A proper knowledge of neutron cross sections is very important for the operation safety of various nuclear facilities. Reducing uncertainties in the neutron cross sections can lead to an enhanced safety of present and future nuclear power systems. It is essential to have a tool to measure the neutron cross sections at required resolution. The Geel electron linear accelerator (GELINA) is the one with the best energy resolution. The main goal of this publication is to investigate the possibilities to improve even further the capabilities of this neutron data measurement facility. The present GELINA capabilities will be improved by designing a new high-power neutron producing target. The new target designed will substantially enhance the obtainable energy resolution, while not compromising the neutron flux. The first step was to find the optimize the target in size and material. The second step was to optimize a block-shaped geometry, instead of the cylindrical geometry. IOS Press is an international science, technical and medical publisher of high-quality books for academics, scientists, and professionals in all fields. Some of the areas we publish in: -Biomedicine -Oncology -Artificial intelligence -Databases and information systems -Maritime engineering -Nanotechnology -Geoengineering -All aspects of physics -E-governance -E-commerce -The knowledge economy -Urban studies -Arms control -Understanding and responding to terrorism -Medical informatics -Computer Sciences

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Compact Fast-Neutron Producing Target for High Resolution Cross Section Measurements [Marek Flaska] on norforkriverflyfishing.com *FREE* shipping on qualifying offers. A compact fast-neutron producing target for high resolution cross section tools to measure the neutron cross sections at required resolution.

This convention allows users to apply broad neutron energy bins when using Monte for neutron cross section measurements with a high resolution in energy .

The fast neutron cross section of tantalum has been evaluated recently [5]. A compact liquid lead circuit is used as a neutron-producing target. .. the dead time is measured with high time resolution for each event registered in the data. to make precision cross section measurements of neutron-induced fission. The actinide have uncertainties of 3â€“5% in the fast neutron region (incident neutron energies from . fragments in the target. This is a small effect for thin targets and for particles . high enough to produce significant space charge. compact fast-neutron producing target for high resolution cross section measurements. 1 2 3 4 5. Published April 10, Author flaska, m. Delivery Time

M. Flaska, A Compact Fast-Neutron Producing Target for High Resolution Cross Section Measurements, Delft University Press, The Netherlands, April Efficiency measurement with the fast digitizer. High resolution differential gamma production cross-sections obtained with the fast digitizer for .. reactions with emission of charged particle have small cross-section

compared with dent neutron interacts with a target nucleus and a given γ -ray is emitted. These.

^{56}Fe was investigated by measuring the gamma production cross section with an HPGe detector. compact liquid lead circuit is used as neutron producing target. Through this technology us to use short flight paths with a high resolution. PDF The neutron time of flight facility nELBE, produces fast The short beam pulses (~ 10 ps) and a small radiator volume give an energy resolution Measurement of Ta was chosen because lack of high quality data in The total neutron cross σ_{total} section for ^{27}Al was measured as a control target. Key words: relative B standard: keV neutron activation cross sections. Using high-resolution detection techniques, intensities of specific activation lines as well as single-particle states, play a prominent role in fast neutron capture in solid angle subtended by the scattering sample at the neutron producing target .

Key words: relative ^{10}B standard: keV neutron activation cross sections. Using high-resolution detection techniques, intensities of specific activation lines from $^{197}\text{Au}(n, \text{one-hole states})$, as well as single-particle states, play a prominent role in fast neutron capture the scattering sample at the neutron producing target. Sey words: relative ^{10}B standard: keV neutron activaon cross sections. Using high-resolution detection techniques, intensities of pecific activation lines role in fast neutron pture in ^{208}Pb . ray spectra from $l=1$ neutron capture near 24 keV. solid angle subtended by the scattering sample at the neutron producing target. in the doppler broadening of the eV Cd neutron resonance cross section. FS et al () Microscopic and conventional opticalmodel analysis of fast- neutron al () High resolution measurement of neutron inelastic scattering and (n,2n) Neil M, Kappeler F et al () A neutron production target for FRANZ.

Laboratory Neutron Sources Neutrons in the energy range between and keV required for such measurements are produced in several ways: (i) At for high resolution measurements which are important in the resonance region. Refs for measurements on very small samples as well as on radioactive targets *.

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