

Low Energy Neutron Interactions in Geant4

Jacek M. Holeczek

Institute of Physics, University of Silesia, Katowice, Poland

[Adam Konefal's results also presented.]

[Talk based on the Geant4 Physics Reference Manual.]

Low Energy Neutron Physics

Tao Zoeng, Meng Ngai



Low Energy Neutron Physics:

Low-Energy Neutron Physics Isaï Isidorovich Gurevich, 1968 *Low-energy Neutron Physics* Isaj I. Gurevič, Lev Vasil'evich Tarasov, 1968 **Low Energy Neutrons and their Interaction with Nuclei and Matter 1**, 2000-08-28 There is no other particle than the neutron which has attracted so much interest both in fundamental physics and for applications Because no larger compilation of neutron data has appeared since more than 10 years it seemed necessary in particular for applications to publish an up to date collection of such data The present compilation provides data for neutrons with energies lower than 20 MeV with the emphasis on energies below the keV range There is such an abundance of experimental data that it had to be distributed over three volumes The fundamental properties of the neutron the cross sections for various neutron reactions and some overall parameters of resonances are reproduced in the present subvolumes I 16A Part 1 and Part 2 while Volume I 16B which has already been published is completely dedicated to the data of neutron resonance parameters

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New Developments in Low-Energy Physics Research Tao Zoeng, Meng Ngai, 2012-12-20 In this book the authors present current research in the study of low energy physics Topics discussed in this compilation include nano structured reflectors for slow neutrons the low energy Yang Mills Gravitational Gauge Theory and its application to astrophysics and cosmology quantum hall fluids in the presence of topological defects analytic formulas for small systems of electrons at odd denominator filling factors of the lowest Landau level application of sapphire in low energy neutron physics and a low energy phenomenological theory of Yang Mills formulation of gravitation

Elementary Particles, Nuclei and Atoms T. S. Belanova, A. I. Blokhin, A. V. Ignatyuk, W. Martienssen, 2000

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