Status of Nudy

Harphool Kumawat Nuclear Physics Division, BARC



25/07/16

BARC

H. Kumawat, Group meeting, EP-SFT

Introduction: Evaluated Nuclear Data File



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Reconstruction: Hydrogen cross-section



Reconstruction: 016 cross-section



Reconstruction: Al27 cross-section



Reconstruction: U235 cross-sections



New Additions in Cross-sections

Neutron induced charge particle cross-section MT 103-107 (p, d, H3, He3, He4) Are created if cross-sections are given in 600-850

Angular and energy distributions of these particles were read along with the Neutron but to be separated

Doppler broadening is improved by introducing new points around peak as the peak broadens

Strategy to be followed

My strategy is to put first neutron, second charge particles and Third photons

1) cross-sections 2) angle 3) energy



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Status of photon production data

I have read photon cross-sections. Angle and energy is also done to some extent but it should be usable in the normalized format for continuous and discrete photons

I have run the program in my branch and created a merge request and people can start from here

That's all, folks!



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