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Subject: Re: elastic neutron scattering in Geant3

Posted by [Mohammad Al-Turany](#) on Thu, 21 Jan 2010 21:20:09 GMT

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Hi,

How can you get very large energy losses and at the same time you wrote:

but when I look at only events where DESTEP is > 0 I only get protons out

So maybe something is wrong in the way you register your hits!

When using GCALOR the energy cut-off for neutrons CUTNEU has to be set to a reasonable value (you can go down to  $10E-14$  GeV), GEANT will complain but you can ignore the warning. Also the time cut-off has to be set to a value, which allows to track the very slow energetic neutrons till they are captured or fall below the energy cut-off.

What kind of detector you are simulating? and Why with native FORTRAN?

Mohammad

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