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Subject: Re: How does the IsElastic-function in the NeutronTracker2D work?

Posted by [Dmytro Kresan](#) on Mon, 12 Sep 2016 12:27:37 GMT

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Quote:Can you explain to me how the IsElastic-function in the NeutronTracker works?

Imagine a neutron did elastic scattering first, and after certain path next interaction. After elastic scattering we have a cluster created by the knocked-out proton, and an arbitrary cluster from second interaction. The goal of this IsElastic function is to eliminate the second cluster, in order that it is not considered as a candidate for first interaction of an incident neutron. By combining start position and angle of one cluster and start position of another, we can decide (based on kinematics), that both were created by the products of the same neutron.

Quote:In particular I am interested in how this function can be modified to also test for particles that do not come in straight.

The best is to ask Michael Heil, he is the author of this code. But I can hardly imagine such a restriction in the function.

Best regards,  
Dima

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