
Subject: Re: Experimental verification of the Geant4 physics list for S438

Posted by [Dmytro Kresan](#) on Mon, 16 Jan 2017 12:09:50 GMT

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Dear Christiaan,

the reason why I mentioned the meeting we had and my only advice currently (since I am not involved in simulations, in particular with Geant4), is that one should not use R3B Physics List in the form it is written now. We will not be able to understand what is going on inside and how to fix it.

I would use one (or even several, most suitable for neutrons) of the existing Reference physics lists, and in order to achieve better quantitative agreement, I would tune the lower cuts. Those have a visible effect on hit multiplicity distributions.

What concerns looking at different particles separately, here I am very skeptic. This you do not have in the data anyhow.

Best regards,
Dima
