
Subject: Re: NeuLAND tracking algorithm
Posted by [C. A. Douma](#) on Fri, 18 Mar 2016 08:57:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

Thank you. I understand. If I know the target position I can use the position of the hit to calculate the travel distance. Combining this with the TOF and the fact that the particle is a neutron gives me the energy.

My question about the bars is however different. The digitizer contains the fired bars of NeuLAND. Now in the case of multiple tracks within one event, I want to know which of these bars contributed to which track. Is there a way to obtain this? If not, then at which lines of code should I look to implement an additional leaf containing this information?

One other question: In the case of a $4n$ experiment and some background particles, we might end up with more than 4 distinct tracks. Then some of these tracks have to be VETOed so that we are left with 4 tracks for the neutrons. So is the tracker capable of reconstructing more than 4 distinct tracks? In this case, do I then just have to submit more energy cuts in the calibration .txt-file or do I have to make more advanced changes?

Christiaan.
