
Subject: Re: Bug in GenfitTrack2PndTrack
Posted by [Lia Lavezzi](#) on Thu, 03 Sep 2009 11:11:26 GMT
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Hi,

I just uploaded some last changes. The SPU is no more obtained via getSPU, but it is calculated by hand in the first and last point of the track. Previously, using getSPU, the same SPU value was used in the two cases and this was the main reason why the first point was ok, while the second one not.

There is still a problem, however, with the last point: the signs of the momentum components are correct, but there is a very small difference in their value before and after the conversion.

Consider this case as an example:

first hit before conversion: (-0.279309,0.949132,-0.098875)

first hit after conversion: (-0.279309,0.949132,-0.098875)

last hit before conversion: (-0.428044,0.887351,-0.098413)

last hit after conversion: (-0.427660,0.892086,-0.100010)

You can see that for the first hit everything is ok, while for the last the small difference is still there (though the signs are correct).

I am still studying the problem.

Stefano, can you please make your tests on theta and phi with this last change to see if there is an improvement with respect to the last results?

Thanks, ciao,
Lia.