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Subject: Re: WirepointHitPolicy detplane implementation  
Posted by [Lia Lavezzi](#) on Mon, 16 Mar 2009 18:09:37 GMT  
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In principle yes, but with a warning: originally we used the poca on wire too, because we put `_hitCoord[7][0] = 0.0` (no z information), as the dch does now; later when we inserted the z coordinate, it has been necessary to move the origin to a fixed point along the tube (the center for example) in order to be able to set the z coordinate in the detector frame:  
`currenthit->GetZ() - z_of_the_origin = currenthit->GetZ() - currenthit->GetZcen()`.

If you leave the origin in the poca on wire when you fill the coordinates you don't know yet where the origin is and so you cannot fill the z correctly ("z\_of\_the\_origin" is unknown)... ok, maybe the H matrix could be used, but in that case you need to have the poca on wire info inside it... it was more simple to change the origin.

So from the stt side, I would keep this origin of the plane (or as well one of the two extremities of the wire).

I don't know if this is ok for the dch too...

Lia.

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