Subject: Re: WirepointHitPolicy detplane implementation Posted by Lia Lavezzi on Mon, 16 Mar 2009 17:31:59 GMT View Forum Message <> Reply to Message

Hi,

basically the differences are:

1) the fact that in PndSttRecoHit we make a check on the distance of the poca from the wire:

```
Double_t distance;
distance =
TMath::Sqrt(fabs(((wire1-vpf).Mag2()*(wire2-wire1).Mag2()-pow((wire1-vpf).Dot(w$
// check vpf inside tube
if(distance>0.5) {
    cout << "vpf outside the firing tube" << endl;
    FitterException exc("distance vpf-wire > 0.5", __LINE__,_FILE__);
    throw exc;
}
```

while the PndDchRecoHit does not need it;

2) in PndSttRecoHit the origin of the detector plane is set in the center of the tube: TVector3 O = (wire1 + wire2) \* 0.5; while in PndDchRecoHit it is in the point of closest approach on the wire: TVector3 O = vwi;

Please Ola correct me if I missed something.

Ciao, Lia.

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