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Subject: Re: Geane interface in PandaRoot

Posted by [Andrea Fontana](#) on Mon, 25 Jun 2007 07:15:13 GMT

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Hello Sebastian,

thank you for waiting, I hope it will not take long: this week Alberto, Pablo and myself will work almost full time on this and I made some progress in the weekend already! I will keep you up to date when there are news.

Regarding the virtual detector planes there was a long and very useful discussion among Mohammad, Christian and myself two VRVS meetings ago (I seem to remember you were not present that day): anyway, as I understand it, to use virtual plane with the extrapolate to the point of closest approach everything can be done in the SC. In fact we extrapolate to a given length (and this is in the SC, i.e. with errors projected in the plane orthogonal to the track) and the virtual plane is by definition orthogonal to the track. So the conclusion to this was that the first interpretation (change from SC to SD) as written in your note is perhaps not necessary. I have to try it to become sure about this, but I think it might be correct: to be safe we have also recoded in double precision the Tr.... routines in case we need them one day.

Concerning the precision issue, I agree with Christian: this might be a problem, but this depends on the material budget and it is difficult to predict it now. I am in touch with some people in CMS that are studying this effect with the native GEANE and they will let me know if there are problems. But we can postpone this if it will become an issue...

Talk to you soon...

Ciao,  
Andrea