Subject: Re: URGENT: geane - coordinate system Posted by Andrea Fontana on Thu, 27 Sep 2007 13:46:48 GMT View Forum Message <> Reply to Message

Hi Sebastian,

the reason why the geane system is with beam along x axis is, as far as I know, historical and we had adopted this convention to properly call geane. We can perhaps think of a different approach, but in all our tests it did not seem necessary so far. Regarding CbmTrackParP, I think the comment is not correct: all the calculations in SD are internally done with the convention (q/p,v',w',v,w). See for instance the calculation

of the covariance matrix in SD, where we write:

```
fDQp = TMath::Sqrt(fabs(fCovMatrix[0]));
fDTV = TMath::Sqrt(fabs(fCovMatrix[5]));
fDTW = TMath::Sqrt(fabs(fCovMatrix[9]));
fDV = TMath::Sqrt(fabs(fCovMatrix[12]));
fDW = TMath::Sqrt(fabs(fCovMatrix[14]));
```

See also our report for the SD definition. Hope this helps.

Ciao, Andrea

Page 1 of 1 ---- Generated from GSI Forum