Subject: Positions.config
Posted by miree on Mon, 23 Feb 2015 12:09:41 GMT
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The positions used in the analysis were obtained by measurements that we did right before the experiments. They should correspond to the distances in the LISE files.

There are two sets of distances: S2 distances and S4 distances. Each set of distances may have another reference point:
For the 2012 campaign, we took the FRS dipole entrance windows as reference points.
For the 2014 campaign, we took the S2 and S4 focal points as reference points.

These distances appear in parameter files of many different processors. In order to avoid duplication of parameters, it is possible to import a single file "Positions.config" into the parameter files of processors, and refer to the positions therein.
Positions in 2012 and 2014 were different (not only different reference points). I attached the two files.

For particle tracking, only differences are relevant. Therefore it doesn't matter what reference point is used.
An exception is the Doppler correction processor. It needs the "zout" Parameter given with reference to the center of the AGATA detectors, i.e. the difference between the LYCCA ToF stop position and the Target position.

File Attachments

1) Positions2012.config, downloaded 634 times
2) Positions2014.config, downloaded 622 times

Subject: Re: Positions.config
Posted by SMilne on Thu, 26 Feb 2015 12:03:40 GMT
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Hi Michael,

Thanks for posting this, so I was checking both my LISE files and my current positions file and came across some slight discrepancies.

Since I am performing some Lycca ToF/beta calibrations, it is important I have these distances correct in the LISE files, I assume the ones you've attached for the 2014 campaign are the ones I should be using anyways.

In summary of the discrepancies: (MyPositions:Positions2014:LISE)
ToF start -> Target DSSD 1357:1361:1326
-> Target 1415:1419:1384
-> ToF Stop 5012:5016:4981

I guess I can simply modify the drift distances or something in LISE to match the 2014 distances.

Thanks,
Scott

File Attachments

1) Positions.config, downloaded 448 times
2) PreSPEC-AGATA-Ref2014_46Ti_Marc_Final_Achro.lpp, downloaded 454 times

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Subject: Re: Positions.config
Posted by miree on Thu, 26 Feb 2015 13:37:16 GMT
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Hi Scott,

yes, modify the LISE distances to match the positions in the analysis.

(I guess the LYCCA distances in LISE were not updated during the beam time, because they are not relevant for FRS tuning)

Michael
