
Subject: Hypernuclei simulation status

Posted by [asanchez](#) on Wed, 01 Aug 2007 12:58:13 GMT

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hi, i'm still having problems to connect.

From my side,

i wanted to say that the tracking and identification of low kaons seems to be feasible for the tpc and the tof detector.

Unfortunately i can not extract the reconstructed information from the tpc because Sebastian is still working on.

I have extracted the momentum and the length of the trajectory by myself (helix parametrization, of course it is an ideal case).

But i will wait till the tpc is able to produce some information from the tracking, to study what is the expected resolution for the low kaon identification (tof).

Here attached i send you some momentum distributions in which kaons and the pions distributions (coming from antiXi- annihilation) are plotted. [thetPK.eps](#) (kaon p vs polar angle) and [thetPP.eps](#) (pion p vs polar angle)

The only requirement which has to be filled by them, is that both particles have to have a transversal momentum larger than 300 MeV in order to reach the tof detector + tpc region. The transversal momentum distribution of both particles are plotted also together. See [ptKP.eps](#)

I'm still working on the Secondary target (silicon strips) and on the HPGE cluster detector digitization.

I want also in the next weeks to finish the implementation of the Hypernuclei generator, and maybe to start to work on the reconstruction.

I will commit as soon as possible the tof detector.

OK, i hope that can be helpful.

cheers ALicia.

File Attachments

- 1) [thetPK.eps](#), downloaded 526 times
 - 2) [ptKP.eps](#), downloaded 499 times
 - 3) [thetPP.eps](#), downloaded 520 times
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