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Subject: DPG Group Talk

Posted by [Sebastian Neubert](#) on Wed, 30 Jan 2008 08:52:02 GMT

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Dear colleagues!

I will give the talk at the German Physical Society Meeting (10th-14th March) about PandaROOT. This meeting is an important chance to present our effort to the community! Since this is a group-talk I would like to ask you for contributions.

Here is a list of topics where I would be glad for some contributions:

CbmRoot architecture (Mohammad)  
PandaROOT collaborators and management issues (Johan)  
Event Generators (???)  
Subdetector Simulations (All experts)  
Global Tracking (Sebastian)  
PID (???)  
RHO (???)

Please think about what you could contribute (one plot could be enough!) and please TELL ME until the end of this week!

We have to fill in the (???) - Soeren can you point me to the responsables, please?

Best Regards, Sebastian.

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Subject: Re: DPG Group Talk

Posted by [Mohammad Al-Turany](#) on Wed, 30 Jan 2008 08:59:57 GMT

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Hi,

Here are some slides which I made last month for Fair monthly! by the way it is FairRoot now and not CbmRoot any more.

Mohammad

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#### File Attachments

1) [fairroot.ppt](#), downloaded 395 times

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Subject: Re: DPG Group Talk

Posted by [Stefano Spataro](#) on Wed, 30 Jan 2008 11:48:24 GMT

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In wiki you can find the presentation I had at CHEP last summer. Maybe you can grab some of

those plots or sketches.

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Subject: Re: DPG Group Talk  
Posted by [Sebastian Neubert](#) on Thu, 14 Feb 2008 17:18:26 GMT  
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Dear colleagues,

I still need more input for the DPG group talk.  
So far I have been promised/delivered plots from the people in this thread and in addition from the MVD group.

Here are further responsibilities:

Event generators: Stefano;  
PID: Annalisa Cecchi, DRC, Johan (EMC)  
RHO: Klaus Goetzen

Could you please just send me some plots that you think describe the status of your work?

Please note that I have to finish this talk by the end of next week!!! Since after that I will be traveling. Please give me the material as soon as possible! I can only plan the talk if I know what is available.

Best Regards, Sebastian.

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Subject: Re: DPG Group Talk  
Posted by [Stefano Spataro](#) on Fri, 15 Feb 2008 09:18:28 GMT  
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In the presentation I have linked some post before you can find a slide for the event generators, as well as slides for the reconstruction of a neutral channel ( $h_c$ ) for emc, as well as some plots for various PID (such as rings in the DRC).

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Subject: Re: DPG Group Talk  
Posted by [Sebastian Neubert](#) on Tue, 19 Feb 2008 17:19:03 GMT  
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Hi!

Thanks for the material so far - we are getting there

I urgently need some information on:

- \* STT
- \* Forward Trackers
- \* TOF
- \* HyperNuclear setup

Please post me some plots, otherwise I will have to omit your detector system.

Cheers! Sebastian.

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Subject: Re: DPG Group Talk  
Posted by [asanchez](#) on Tue, 19 Feb 2008 17:38:14 GMT  
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Hi Sebastian

for the hypernuclei project production of  $(p \text{ pbar} \rightarrow \Xi^- \Xi^+)$   
 $\Xi^- \rightarrow \text{proton} \rightarrow \text{double hypernuclei}$

i can send some plots concerning the set up

Germanium cluster placed at backward angles  
are devoted to measure the excited energy levels of hypernuclei

A small silicon tracker( similar to Mvd) to track the charged particles products from weak decay(hyper)  
and tof barrel will be devoted to trigger the kaons coming from  
the anti $\Xi$  annihilation in the primary target.

i send an ideal mass reconstruction with the tof barrel +SciFiber as start detector.

cheers alicia.

#### File Attachments

- 1) [pionvskaonToftime.eps](#), downloaded 377 times
  - 2) [toftpchypGe.eps](#), downloaded 406 times
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Subject: Re: DPG Group Talk  
Posted by [Sebastian Neubert](#) on Tue, 19 Feb 2008 17:53:37 GMT  
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Hey Stefano!

Can you produce a phase-space plot of the 7gamma channel, so that one can see where the different regions of the ECAL contribute!

Thanx! Sebastian.

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Subject: Re: DPG Group Talk  
Posted by [Stefano Spataro](#) on Tue, 19 Feb 2008 18:31:03 GMT  
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What do you need exactly? Theta vs phi is enough? MonteCarlo or filtered by the EMC acceptance?

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Subject: Re: DPG Group Talk  
Posted by [Sebastian Neubert](#) on Wed, 20 Feb 2008 09:16:20 GMT  
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Hi!

E vs Theta. Raw MC and with EMC acceptance would be great!  
BTW. For the EMC I think we need a bit more substantial information than what is in your talk. Do you have something like a shower-profile. And something about how the clustering is done. So far I only have the pictures of the hits in the calorimeter.

Cheers! Sebastian.

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Subject: Re: DPG Group Talk  
Posted by [Sebastian Neubert](#) on Thu, 21 Feb 2008 12:58:49 GMT  
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Hi Alicia!

Do you have a phase space plots of the particles you simulated for the Xi-Channel?

Furthermore: How is the start detector implemented at the moment? Is it in the simulation already?

Cheers! Sebastian.

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Subject: Re: DPG Group Talk  
Posted by [asanchez](#) on Thu, 21 Feb 2008 14:01:09 GMT  
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Hi Sebastian,

the start detector(tof start) consists of two planes of scintillator fibers(~ 2000 fibers). they are surrounding the region of the secondary target( radius of ca 8 cm).

The time resolution requirement for a good mass separation(pion from kaons) is about 500ps in combination with the tof barrel(scintillator)detector with a time rsol of 80 ps.

i send you the plot for the detector acceptance

for the Xi minis in the secondary target(small si tracker)  
for us is specially important those with a total momentum lower than 0.5 GeV/c( those with a higher propability to be stopped and to form the hypernuclei)

plots are attached to this purpose.  
best regrads  
alicia.

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#### File Attachments

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- 1) [XiminStpRateppt.eps](#), downloaded 399 times
  - 2) [XiminStpRateptheta.eps](#), downloaded 381 times
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Subject: Re: DPG Group Talk  
Posted by [asanchez](#) on Thu, 21 Feb 2008 14:16:27 GMT  
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Oh excuse me,  
yes the start detector  
is already in the simulation.It is inside the tof directory,actually scintfibers and tob barrel have been implemented  
together in the same geo file.

you can plot hyp and tof together and  
you will have a look into this setup. Unfortunately  
in the figure i have sent to you, the fibers are not very well visible. you only see the blue circle around the secondary target.  
Ok i hope that can help.

cheers alicia.

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Subject: Re: DPG Group Talk  
Posted by [Sebastian Neubert](#) on Thu, 21 Feb 2008 16:17:23 GMT  
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Hi Alicia!

Actually what I meant were the plots of p(K) vs. Theta(K) and p(pi) vs theta(pi) for your decays.

And could you please use a nice palette.

In ROOT simply do: gStyle->SetPalette(1)

Thanks!  
Sebastian.

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Subject: Re: DPG Group Talk  
Posted by [asanchez](#) on Thu, 21 Feb 2008 16:59:57 GMT  
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Hi Sebastian,  
here you are i hope it is fine.  
thank you for your hint. Now it looks like nicer.  
Anyway these kaons and pions are not coming from the decay but from the  $\Xi^+$  annihilation.

best regrads  
Alicia.

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#### File Attachments

1) [KaonPionDist.eps](#), downloaded 448 times

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