
Subject: Re: Lambda Lambdabar simulations
Posted by [donghee](#) on Thu, 17 Apr 2014 12:56:08 GMT
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Dear Stefano,

I want to show you theta distribution for anti-proton and π^+ from the antilambda decay in the lab frame.

Each 2D plots show that $\theta_{\text{antiproton}}$ vs θ_{pion} in the lab frame for the case of generated and reconstructed.

I used LambdabarLambdaPol 1.64GeV model and a perfect detector, which covers from 0 to 160 degree with perfect resolution and efficiency.

In each panel, you can find the dependence of θ_{lab} distribution on the different $\cos(\theta)_{\text{CM}}$ region.

I think that Panel2(Right up) is quite important clue for the acceptance lost.

In lab frame, theta between 0 and 7 degree we could not reconstruct at all, due to V0 decay topology.

Best wishes,
Donghee

File Attachments

- 1) [setup_test_acceptance_cos_theta_superdetector_gen.png](#),
downloaded 425 times
 - 2) [setup_test_acceptance_cos_theta_superdetector_reco.png](#),
downloaded 390 times
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