Subject: option of polarization for Lambda-Lambdabar model Posted by donghee on Wed, 16 Apr 2014 09:48:08 GMT View Forum Message <> Reply to Message

Hi,

I am using a model EvtLambdaLambdaBarPol in EvtGen/Private to generate artifitial polarization.

Decay pbarpSystem 1.0 anti-Lambda0 Lambda0 LambdaLambdaBarPol 1.64 0.5; Enddecay

In principle, we can give a polarization value for lambda and lambdabar with last of option, which is set to 0.5 in this example.

This way one can introduce the polarization vector n perp to scattering plane.

I could not see any changing of angular distribution in n direction, which is a quantized axis used in the measurement of hyperon polarization. When I set 0.5 and 0.0, angular distributions are same for both. That means that this option value is not correctly working for generating the polarization.

Does anyone know how can I introduce a polarization with this model? or most likely you can assume that the coordinate systems are not properly lorentz-boosted and thus I cannot see any slop due to that reason.

Best wishes, Donghee

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