Subject: [SOLVED] Beam Smearing Posted by Michael Kunkel on Thu, 12 Apr 2012 17:43:32 GMT View Forum Message <> Reply to Message

I simulated 1 giga eta dalitz events using a smeared photon beam. The smearing was a brem 1/E function. The commands look as

double ebeam\_min = 1.1725; double ebeam\_max = 5.44575; PBeamSmearing \*beam\_smear = new PBeamSmearing("beam\_smear", "Beam smearing");

TF1\* beam\_smear\_fn = new TF1("beam\_smear\_fn", "-3.82136e-03 + 7.24636e-02/x", ebeam\_min, ebeam\_max);

beam\_smear->SetReaction("g + p"); beam\_smear->SetMomentumFunction(beam\_smear\_fn); makeDistributionManager()->Add(beam\_smear);

PReaction my\_reaction("\_P1 = 2.2","g","p","p eta [dilepton [e+ e-] g]","eta\_dalitz",1,0,0,0); The code compiles and runs correctly, however I see the following message "Warning in <PBeamSmearing::Init>: No smearing model found". Is this normal?

The reason I inquire about this is that after I create the PLUTO generated events, I run them through the JLab Monte-Carlo package, which is a GEANT based physics package. Afterward The reconstructed beam profile appears nothing like the actual data, nor does the leptons momenta spectrum. This is my first step in solving this.

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