

Subject: Re: [Fwd: Re: twist_general : jb's thesis -- with pmuxi systematics]
From: Peter Gumplinger <gum@triumf.ca>
Date: Mon, 31 Aug 2009 12:46:21 -0700
To: James Bueno <jbueno@triumf.ca>

Hi James,

Thanks for the email. I have now read your chapter on Simulation. My comments:

- (*) the version of Geant is 3.21 (not 3.2.1)
- (*) you should close the bracket (see section 3.4)
- (*) I would write 0.639 and 0.48 instead of 63.9%/48% - it makes it more immediate clear that you are multiplying by something <1
- (*) ...(the muons were multiple scattered by **the entrance window** and the gas within the TECs....)
- (*) I do not really understand the rational of the argument in the paragraph "....meaning we could not be sure that the small amount of extra material was justified...."
- (*),where the field is 2.0T and uniform so that P_{μ} should **in effect** be unchanged (or something like that because without a qualifier it's a bit difficult to understand your logic argument).
- (*) In reality: "The default GEANT3 program does **not even** simulate muon decays assuming the standard model (V-A) interaction for $P_{\text{muxi}}=1$. It simply simulates a three body decay phase space into a positron and two massless particles.

Cheers, Peter