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Subject: Energyloss in thin silicon detectors

Posted by [Prometeusz Jasinski](#) on Tue, 29 Oct 2013 14:10:26 GMT

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Hi,

my bachelor student is studying the radiation damage on our luminosity detector sensors. When looking on the total energy loss per track and event in the distributions... I simply do not understand them. Other distributions I have seen in this forum do not seem to show those strange peaks. Are we cutting the edge with 50 $\mu$ m thick sensors at Geant4 and high particle energies (MIP) ?

Please have a look to the pages 2-6.

Regards

Promme

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#### File Attachments

1) [Analysis,Plab15GeV.pdf](#), downloaded 325 times

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