
Subject: Re: E/p vs p + energy and momentum
Posted by [Dmitry Khaneft](#) on Mon, 30 Jan 2012 16:17:26 GMT
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Gianluigi Boca wrote on Wed, 25 January 2012 13:14

dear Dmitry,

do you understand why the Emc energy plot (emc_raw_lab_3.3_0.0e.eps) has a dip at 3 GeV ? And do you understand that very peculiar momentum distribution (mom_lab_3.3_0.0e.eps) ?

Gianluigi

Dear Gianluigi,

sorry for the late answer.

This energy drop on the emc_raw_lab_3.3_0.0e.eps plots is explained by the transition from the barrel to forward endcap. Below you will find 3 plots for the backward/forward endcaps and for the barrel.

emc_raw_ba_lab_3.3_0.0e.eps - EMC barrel

emc_raw_bw_lab_3.3_0.0e.eps - EMC backward endcap

emc_raw_fw_lab_3.3_0.0e.eps - EMC forward endcap

As for momentum, I think it is a consequences of momentum distribution of initial electrons and positrons (see mom_neg_lab_3.3_0.0e.eps)

Dmitry

File Attachments

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- 1) [emc_raw_ba_lab_3.3_0.0e.eps](#), downloaded 339 times
 - 2) [emc_raw_bw_lab_3.3_0.0e.eps](#), downloaded 361 times
 - 3) [emc_raw_fw_lab_3.3_0.0e.eps](#), downloaded 338 times
 - 4) [mom_neg_lab_3.3_0.0e.eps](#), downloaded 330 times
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