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

1) emc_raw_ba_lab_3.3_0.0e.eps, downloaded 471 times
2) emc_raw_bw_lab_3.3_0.0e.eps, downloaded 499 times
3) emc_raw_fw_lab_3.3_0.0e.eps, downloaded 476 times
4) mom_neg_lab_3.3_0.0e.eps, downloaded 462 times