



dEdx: Data vs MC

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dEdx: Discrepancy Data/MC





In 38X (and previous paper), there was no discrepancy of that kind → Tracker simulation group has been warned

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A quick workaround is simply to

- Rescale the absolute strip energy loss by 11% (this will fix the estimators),
 - It was checked that this is well fixing the problem (by construction)
- Recompute the dEdx discriminator pdf from recent MC.
 - I am still cross-checking that data and MC discriminator distributions match after the fix. Hope to get final plot by today.

In the two cases, these fixes are going to increase our signal efficiency, since the MC dEdx is lower than in the data. So the discrimination power between background (from data) and signal (from MC) will be increased.

The scale uncertainty related to the dEdx will then need to be reevaluated by Seth and Yuichi.