

Flip mode emittance analysis update

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MICE Analysis Meeting

MC digging

- had a look at some old MC productions for some of the 6-140 flip mode analysis (LiH and No absorber)
- focus on the energy loss at the tracker stations -> material densities
- **Noted:** tracker fiber density defined in the geometry, but can also be set in the MC configuration files via the **SciFiParams_Density** variable
- Does this variable override / change the value defined in the geometry or does it only inform the Kalman propagator? Need to check

Momentum evolution - No absorber

Densities of the fibers shown here are defined by the SciFiParams_Density variable.

DIFFERENCE between data reco and MC reco in my analysis: 1.06 vs 2.0

This could explain the higher than expected momentum loss at stations

Old MC with SciFiParams_Density = 1.06 shows similar loss to what I see in data

