

# On projecting TPC tracks on PXL real geometry

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# Does TpcRS introduce any systematics?

- I simply looked at (rcTpcHit-mcTpcHit) for those hits which are associated with a track ( $n_{\text{Common}} > 10$ ).
- We currently use id association.
- I ran my code over some UU  $K^-$  embedding production which I found on disk (request # 20142801).
- For a more accurate study I would need to look at the difference of rcTrack and mcTrack projections to some, say PXL.
- The plots below give an initial idea.
- The peaks in x and y are likely due to the finite pad size.
- I will follow up on this later.

