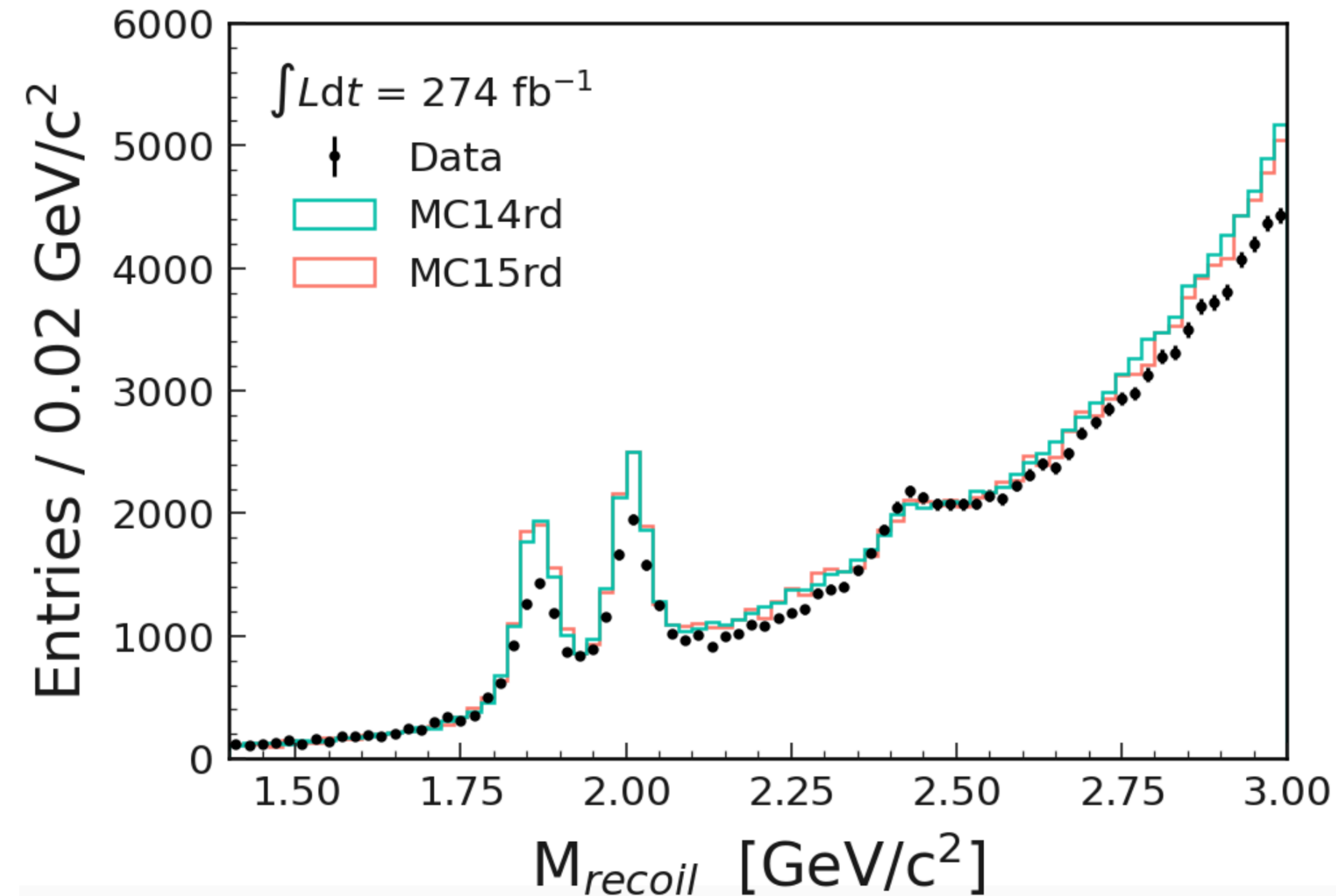
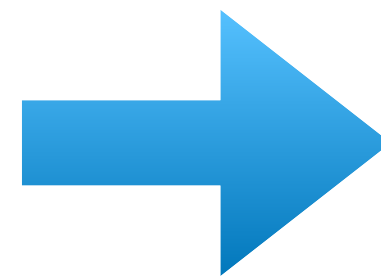
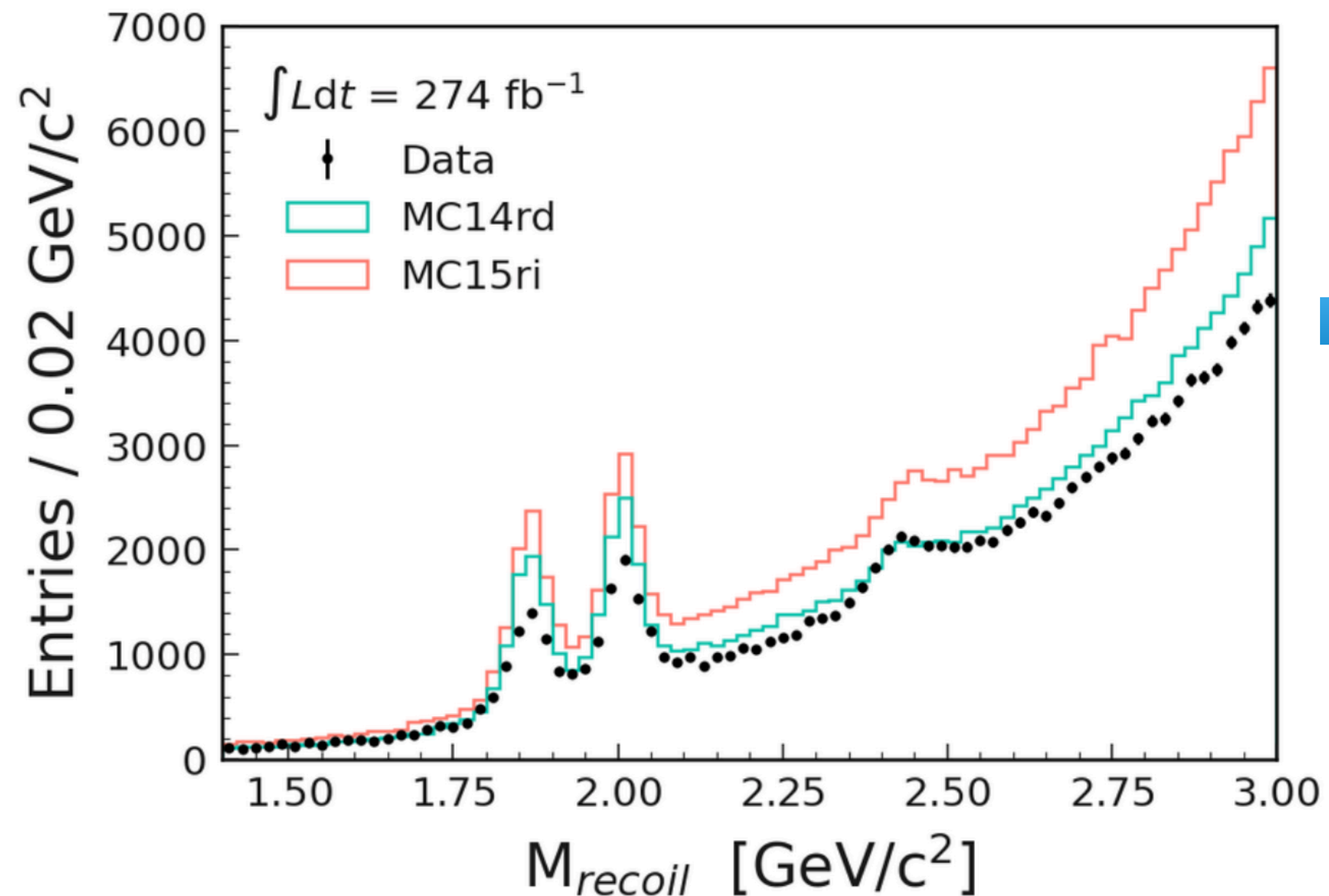


FEI performance: MC15

TS Analysis meeting

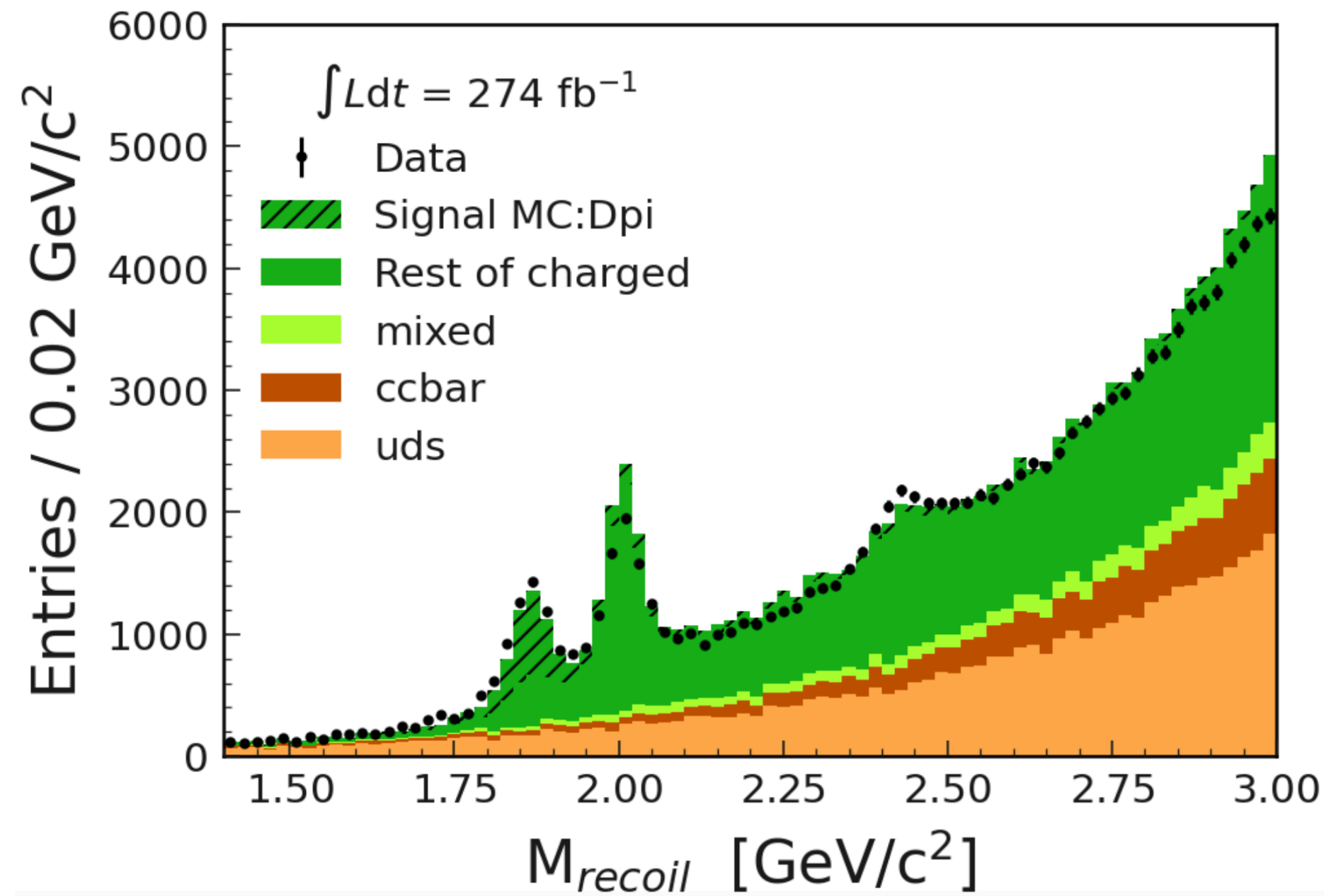
Niharika Rout, 28th Oct 2022

The long-standing issue



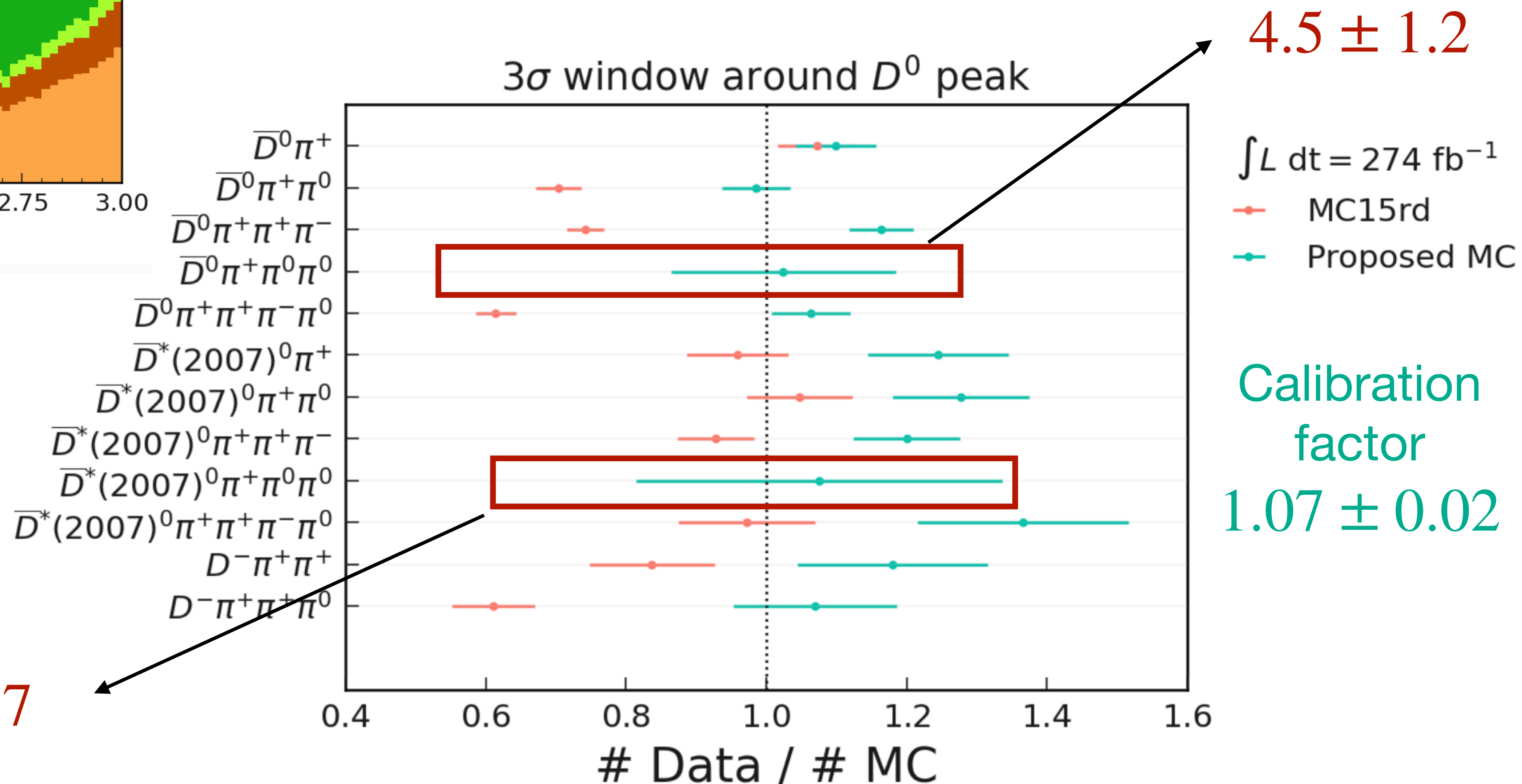
- MC14rd and MC15rd samples behave the same way
- The FEI training treats differently to MC15ri and MC15rd samples

The calibration factors

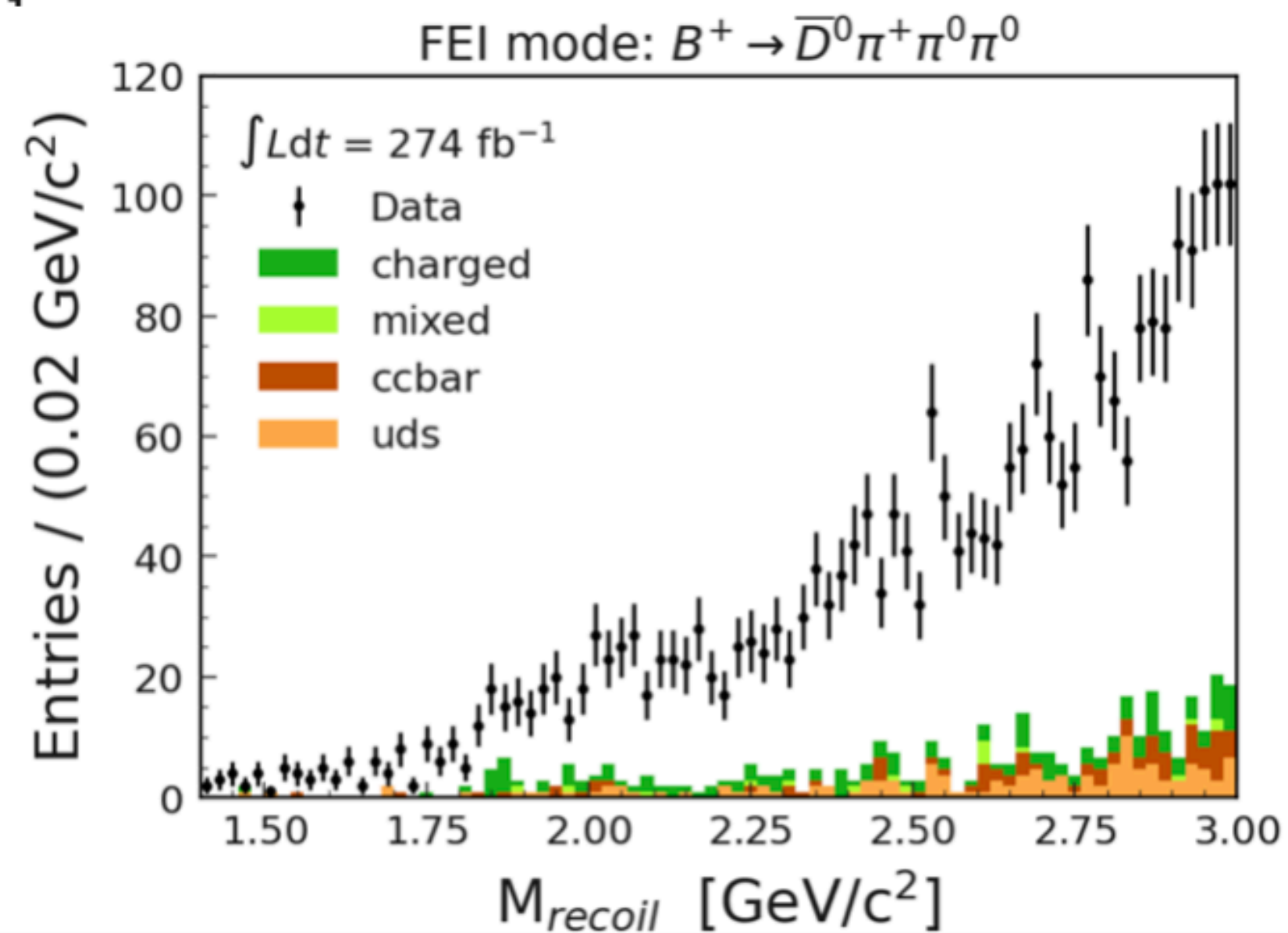
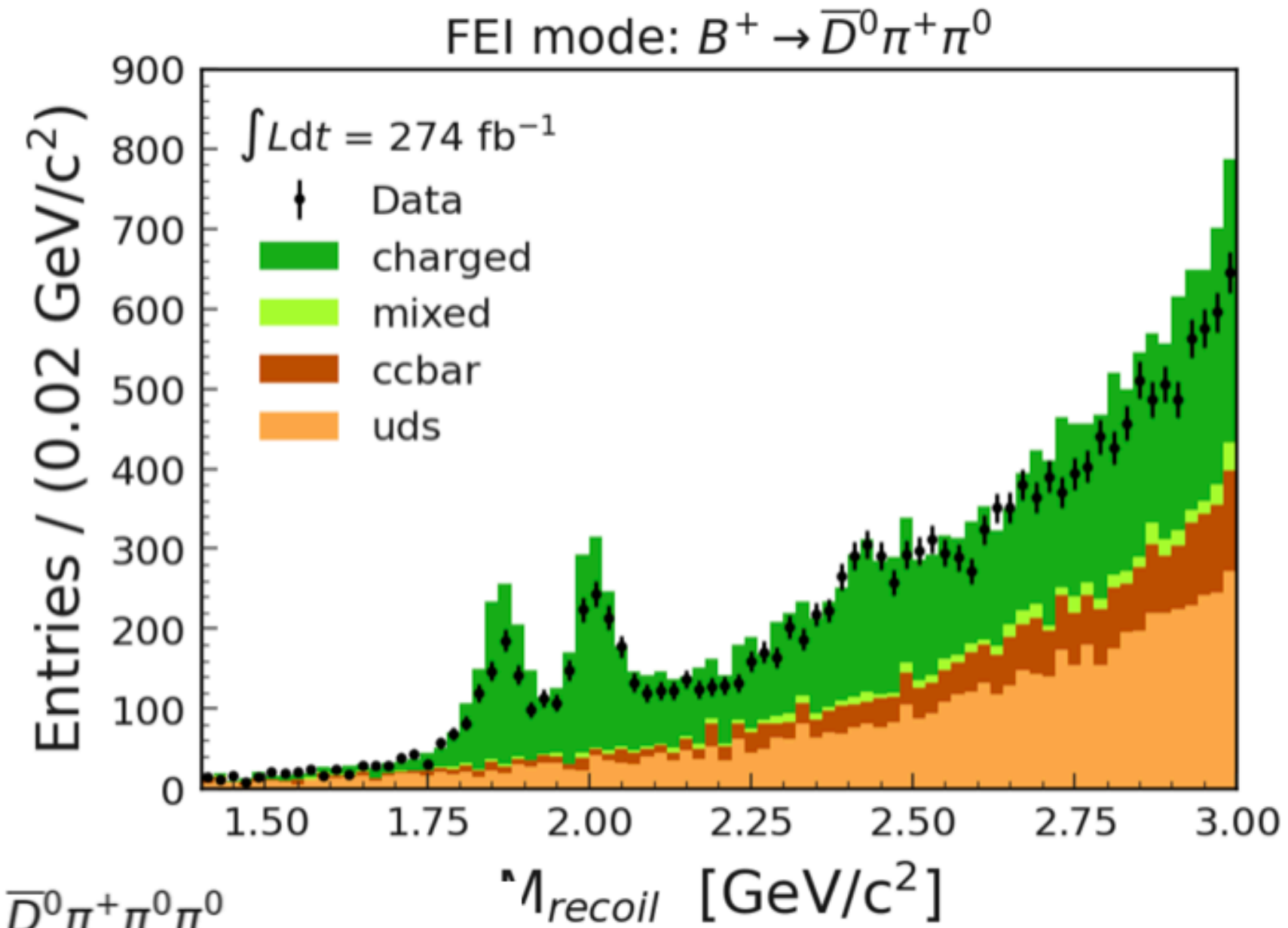
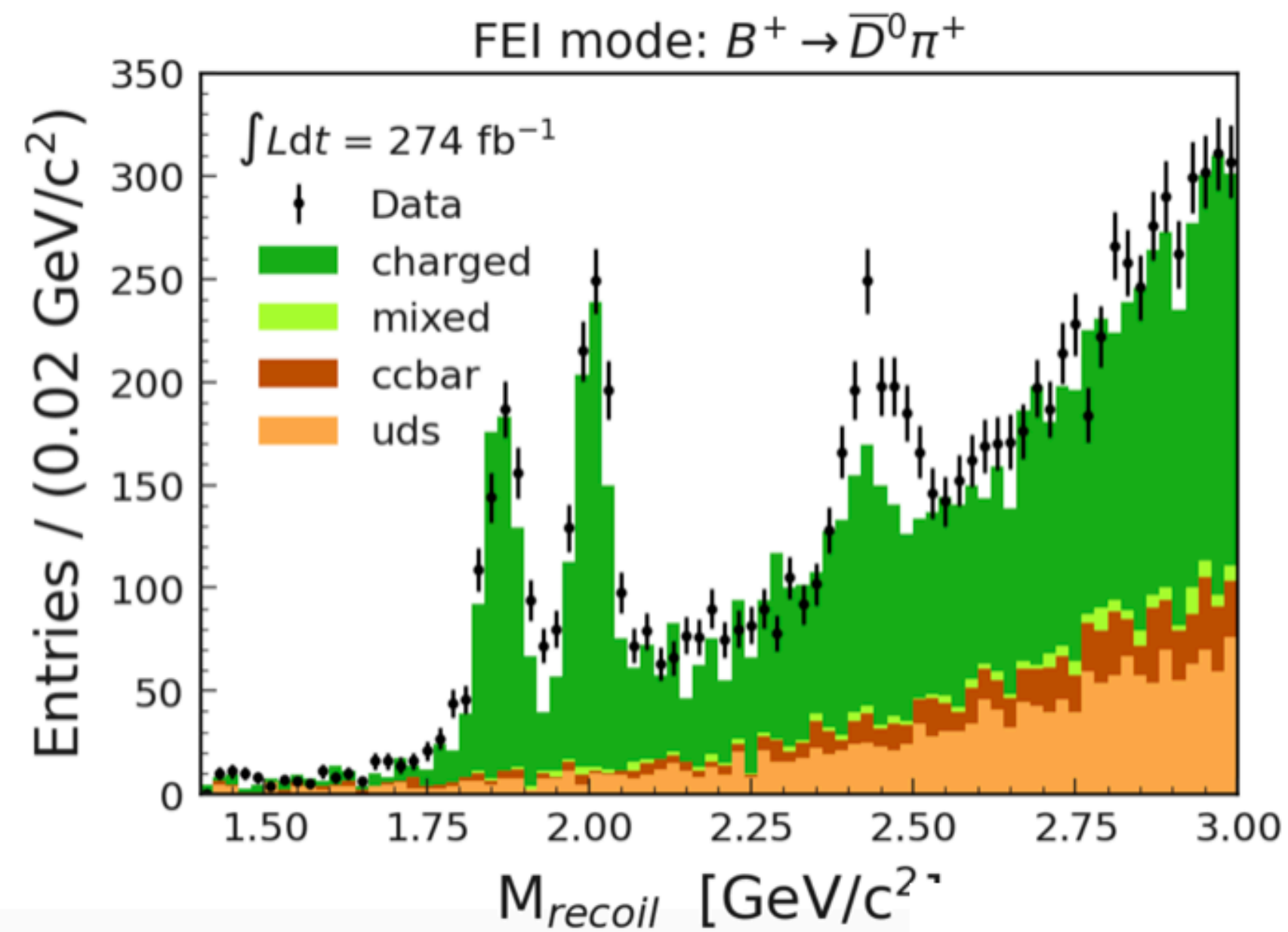


- Implemented the corrections to the decay table and generated $D\pi$ signal MC

- No events in MC15rd for two π^0 modes

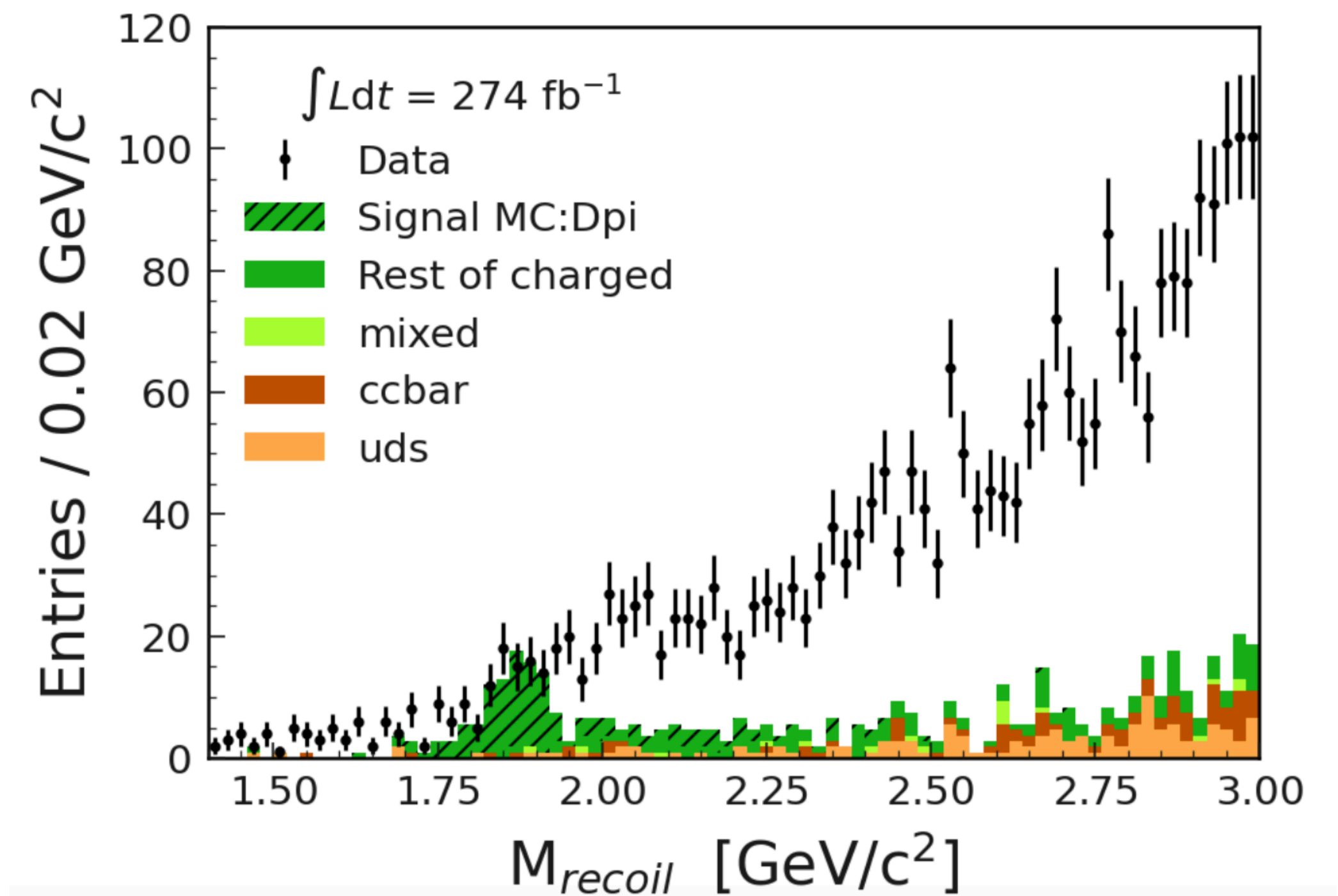
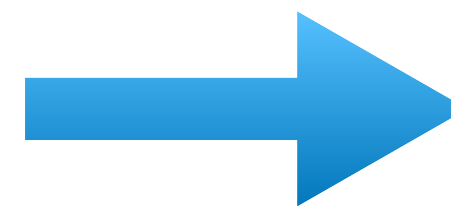
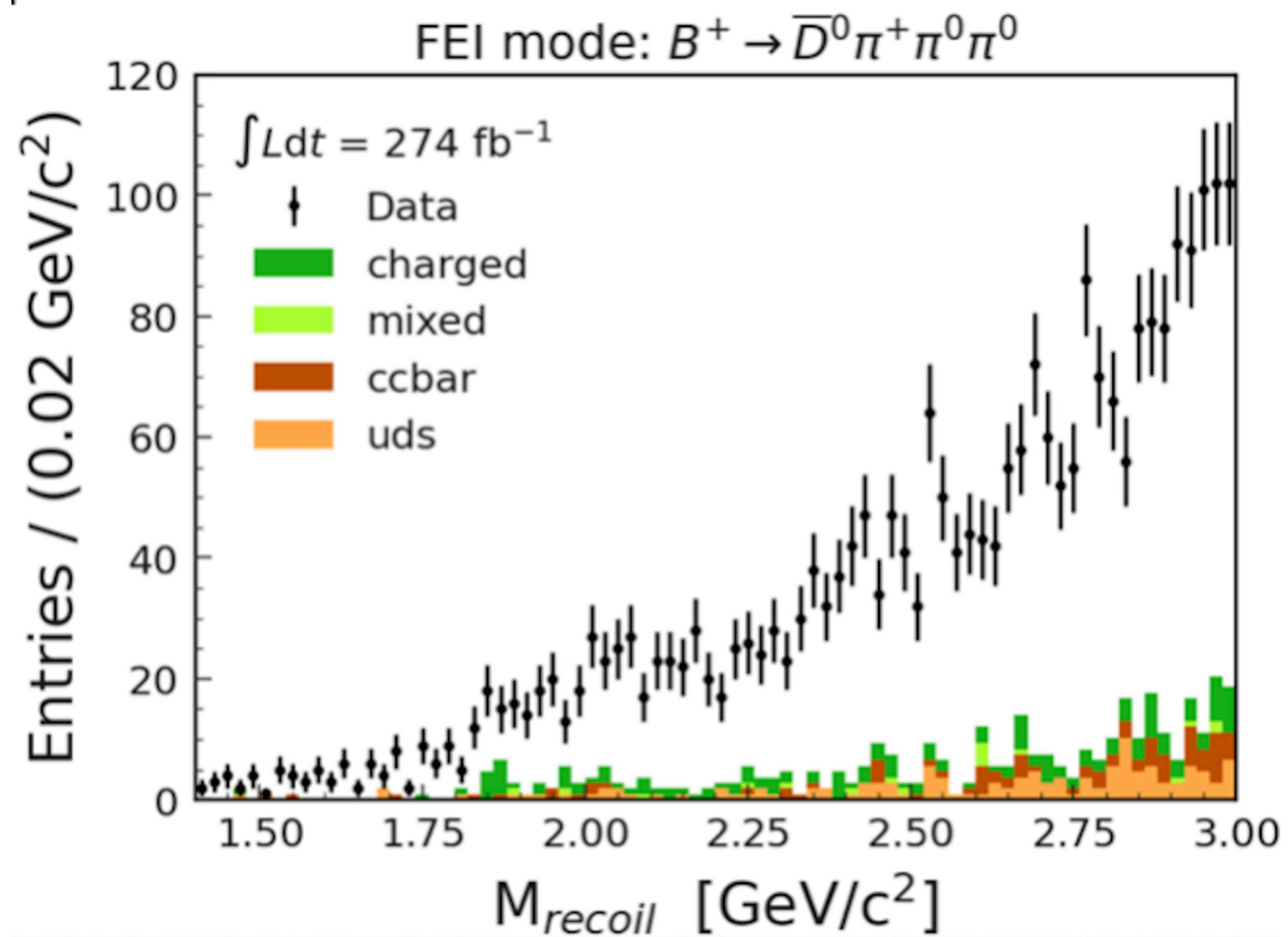


Investigation for two π^0 modes



- No events in MC15rd for two π^0 modes \rightarrow for all the components!
- Data is fine!

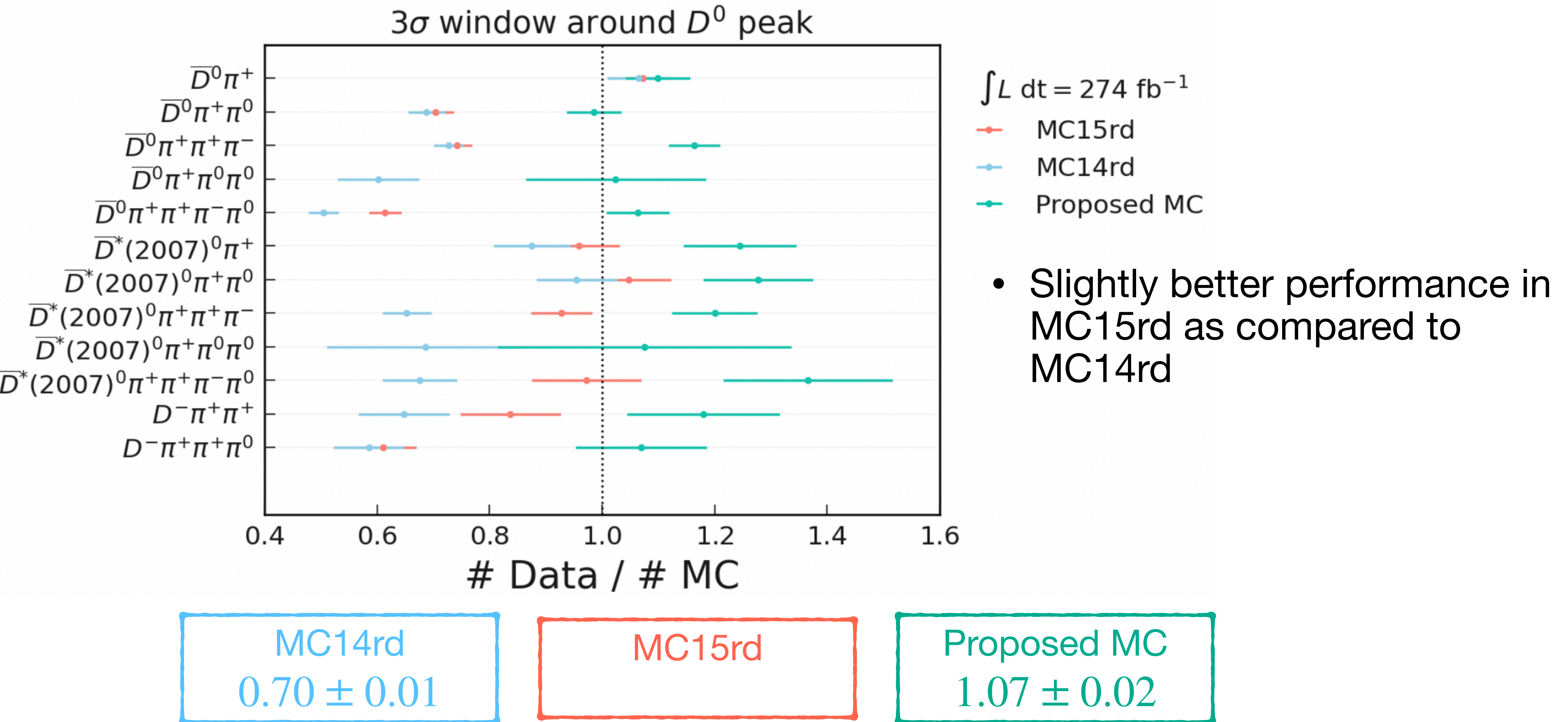
Investigation for two π^0 modes



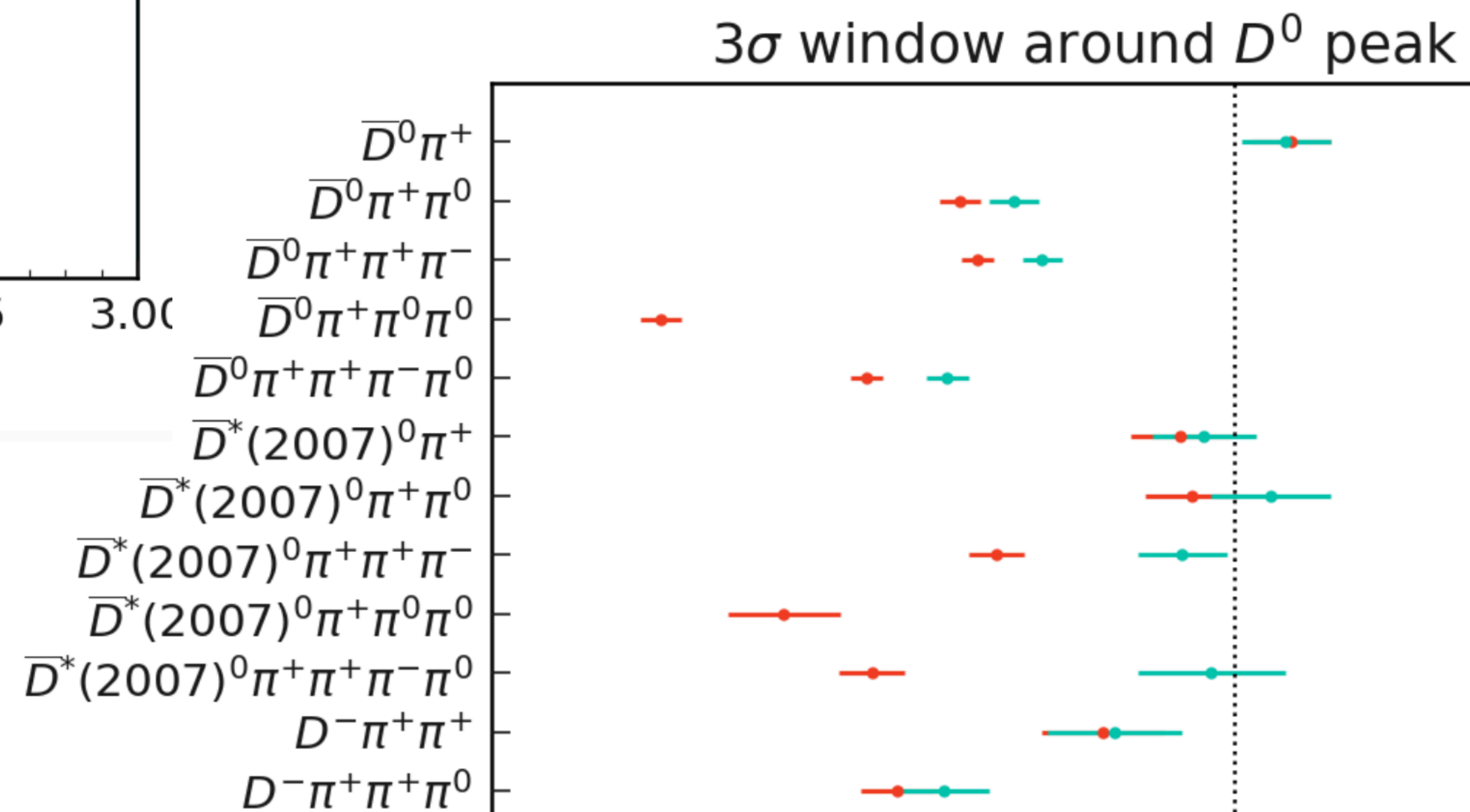
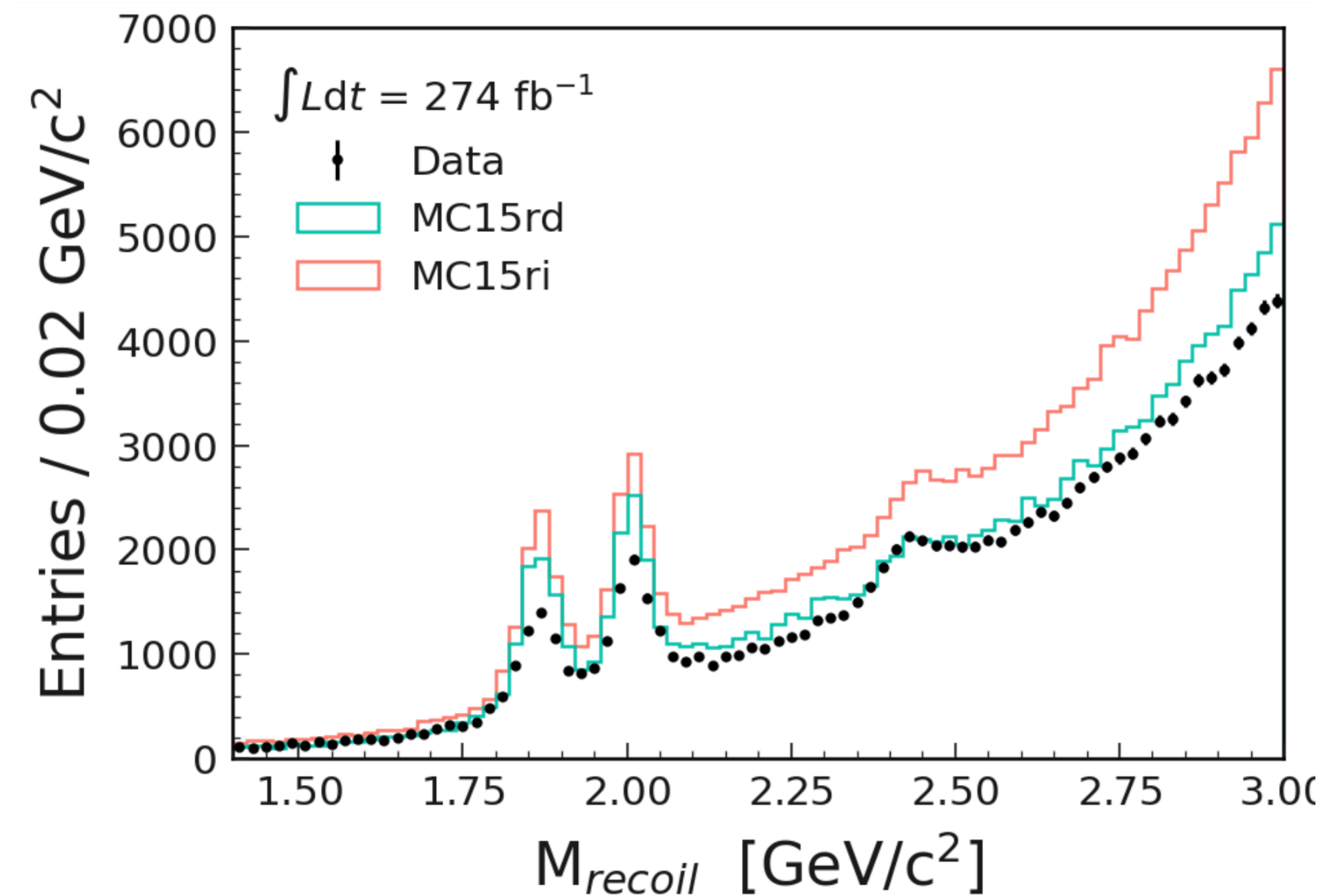
Need suggestions

- Generated with signal MC
- MC15ri tag is used
- Also checked with MC15rd tag: no difference

Some other checks



MC15ri vs MC15rd



Next steps

- Currently updating the note → In progress
- Systematics: best candidate selection, luminosity scale factor.....
- Any other sources?