

RECOIL

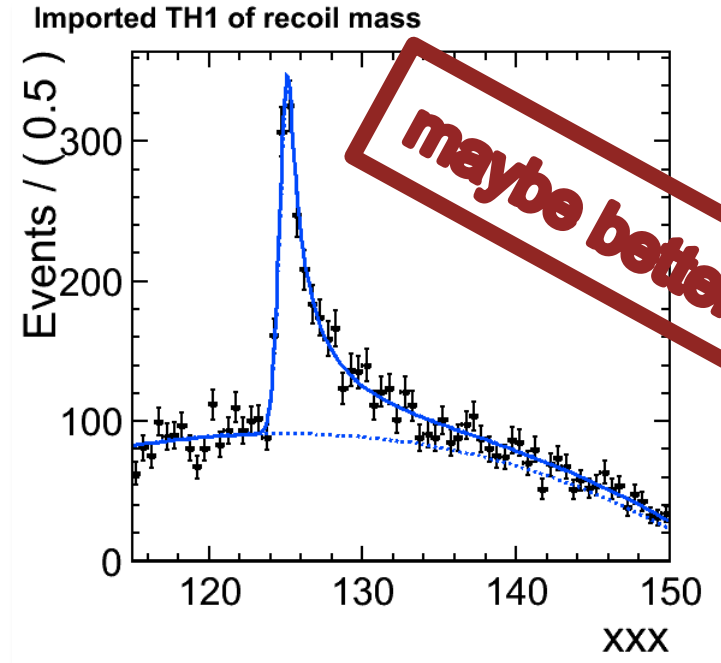
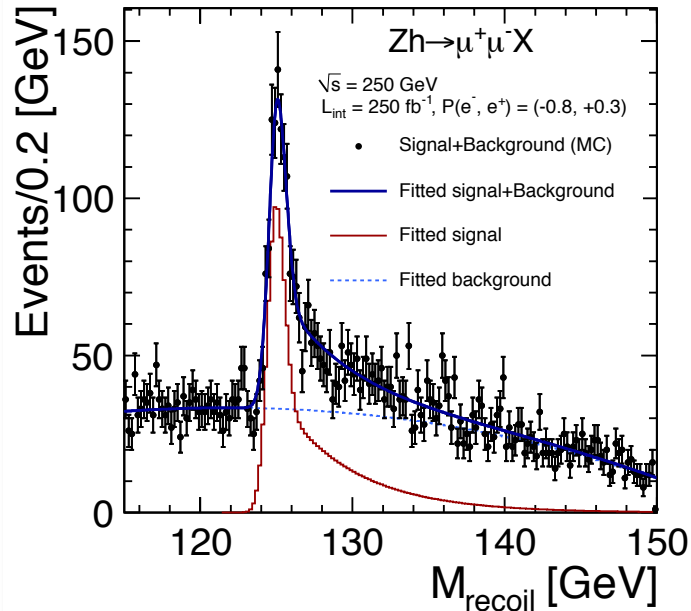
MASS @250

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FITTING METHOD

I'm trying to optimize fitting method for recoil mass distribution.

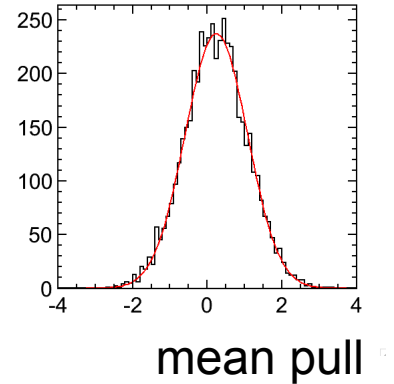


	Previous method	Current method
function	GPET	Crystal Ball
# of bins	175 (Events / 0.2)	70 (Events / 0.5)
cross section	by height value of GPET	by signal yields

PROBLEMS AND PLAN

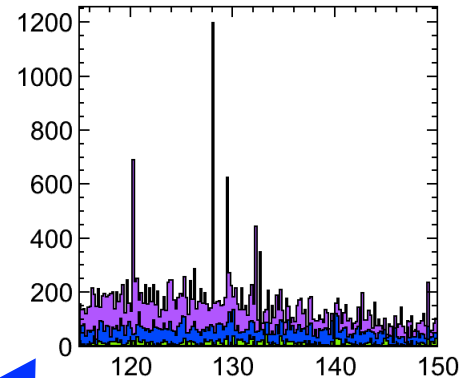
- **Problem**

- Pull distribution of “mean” of CBS seems to be slightly shifted (~ 0.3)?



- **Plan**

- If possible, BG will be fixed its shape parameters by sideband.
- Now, I'm trying to fix them by the distribution in following region.
 $M_{dl} \in (60, 75), (105, 120)$
- I must compare these two distribution.
- Next, I will fit eeX channel distribution also.



decide BG shape by sideband

