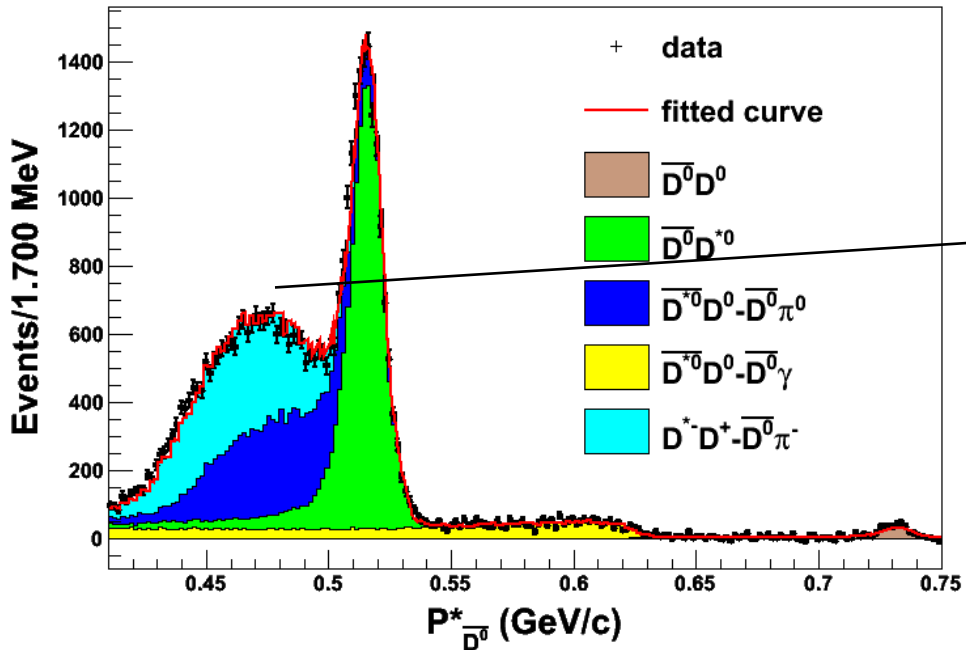


# Weekly report

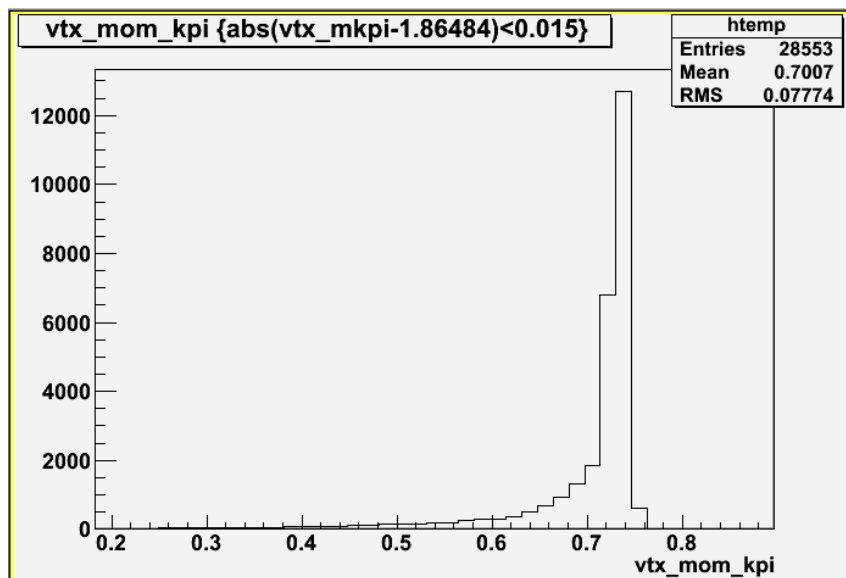
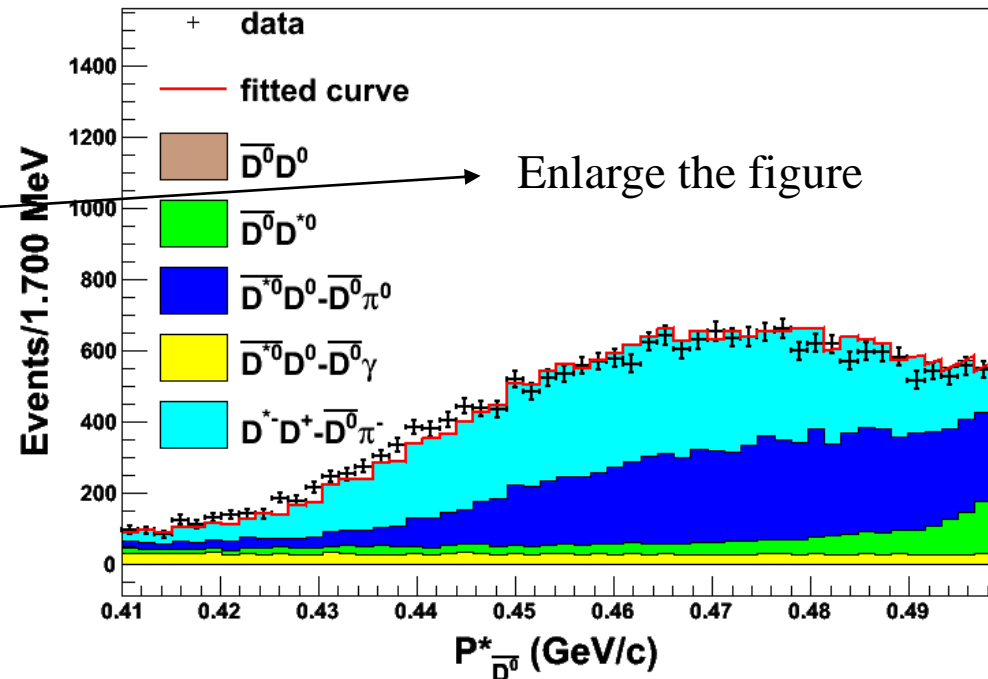
Su Yumo  
2017.4.14

## The problem of momentum spectrum fit at 4010MeV data

- One possible reason is there are some background processes, such as  $D^0\bar{D}^0\gamma$ ,  $D^0\bar{D}^0\pi^0$  and  $D^{*0}\bar{D}^0\gamma$ .
- One possible reason is there are some difference between left sideband and right sideband in momentum spectrum shape.
- One possible reason is that MC momentum shape has some problems , cause the MC momentum shape depends on cross section line shape. I can not get correct cross section line shape at first.
- I study if MC momentum shape has some problems last week.



$\chi^2/NDF=1.619$



We can find that fit status is better than before

Previous fit status:  $\chi^2/NDF = 2.12$

Momentum spectra in MC at 4010MeV for  $e^+e^- \rightarrow \bar{D}^0 D^0 \rightarrow k^+ \pi^- D^0$

# Progress of the second iteration

Having generated some exclusive MC samples