SAMC : single arm MC for acceptance cuts study

Goal:

- Run the SAMC with the same kin setting with experiment E08014
- Use cross section model XEMC to do weight on MC data
- (Weigth factor is the radiated cross section)
- compare MC to data
- Find the range MC and data match each other fine
- then decide the fine range for acceptance cuts on target variables.

SAMC running:

1. Generator:

SAMC will generator uniform distributions for :

Es: beam energy follow gaus distribution and smear by E resoluton

th_tg_gen: out plan_angle

ph_tg_gen: in plan_angle

dp_gen: relative momentum

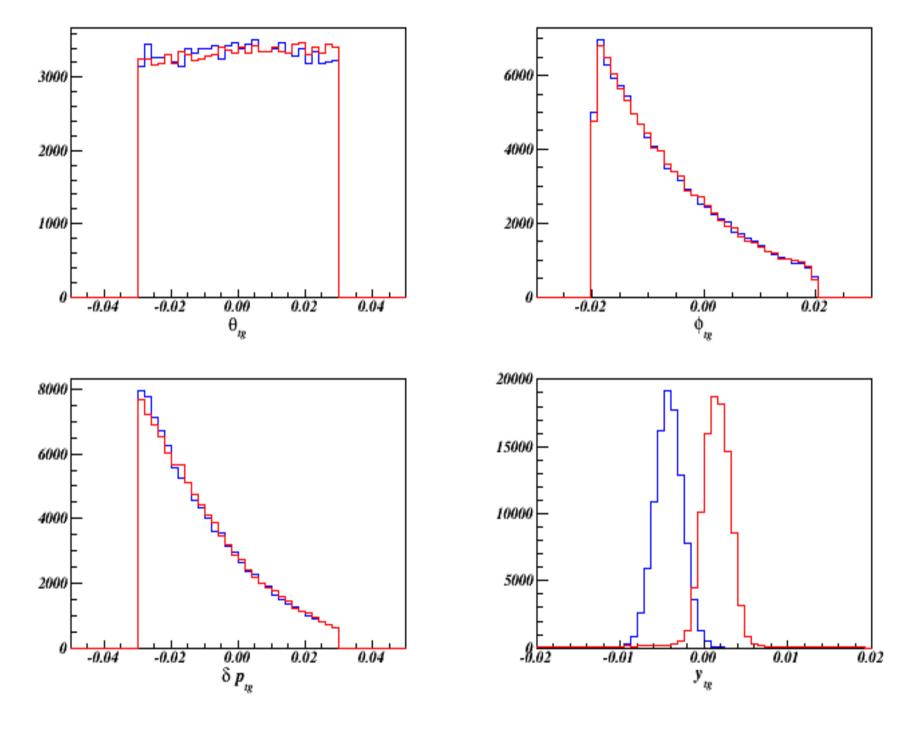
2. Forward transportation function (FTF)

After events generated FTF will transport them to FP and add smearing of VDC.

3. Backward transportation function(BTF)

This will rescontructed the event to target

First check with C12:



First test for D2

