

Status Report

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18 Oct. 2019

mPMT-Japan meeting

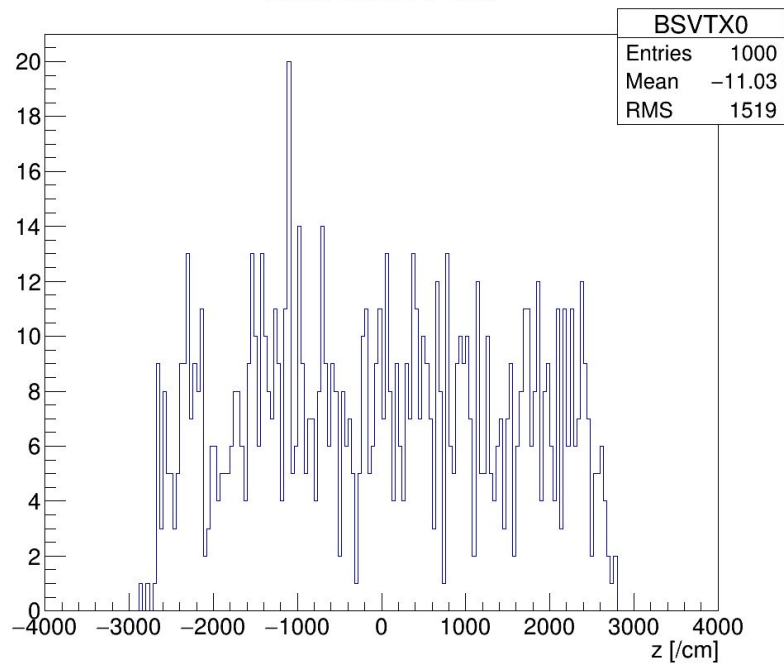
Simulation condition (remind)

- Generated electron events by WCSim
- Detector: Hyper-K with 20" PMTs and mPMTs
 - Photo coverage: 20inch PMT = 20 %, mPMT = 10 %
- Particle gun:
 - Particle generator: gps
 - (10,000 events) of 10 MeV e-
 - Uniform in detector
 -
- Reconstruction: Benjamin-san's code
 - Not Bonsai

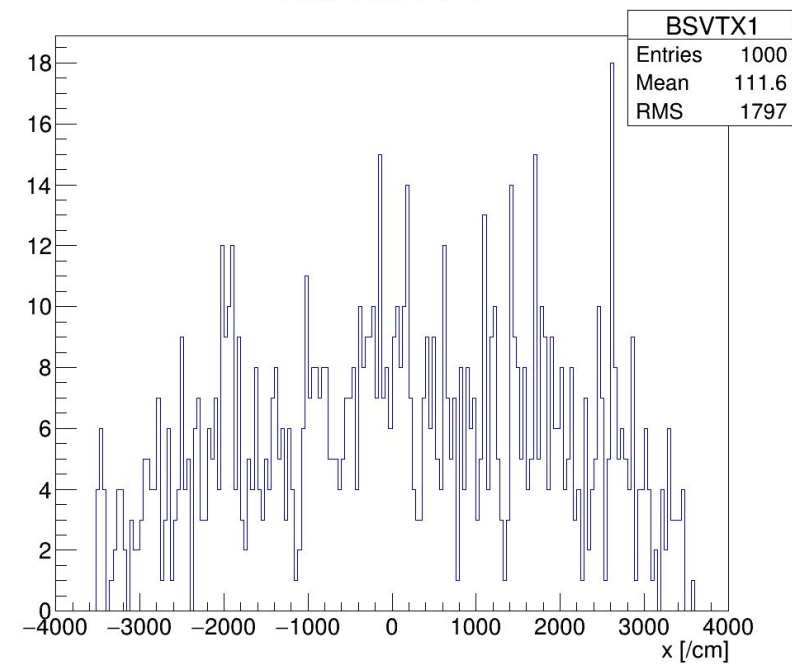
New

- Drawn plots for events reconstructed by Benjamin-san
 - 1,000 events
 - I will show these plots.

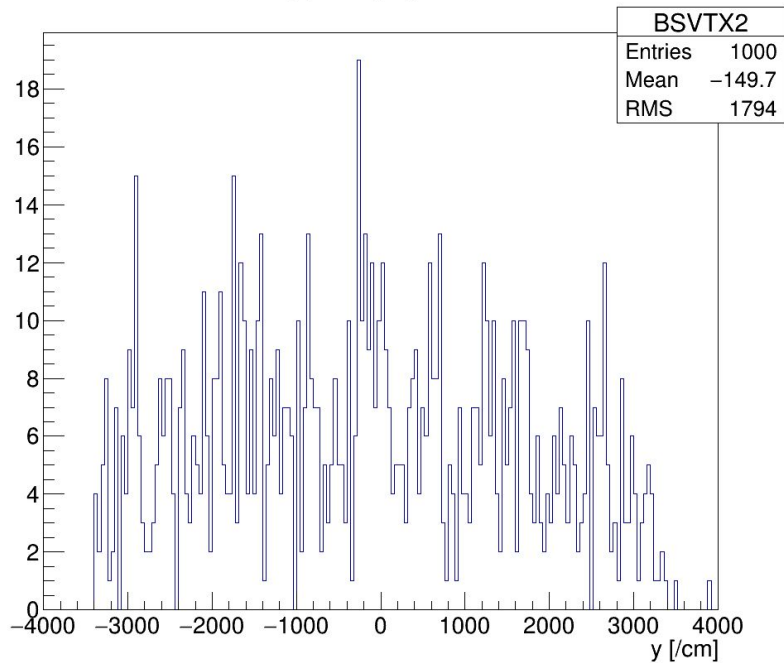
Rec. Event VTX0



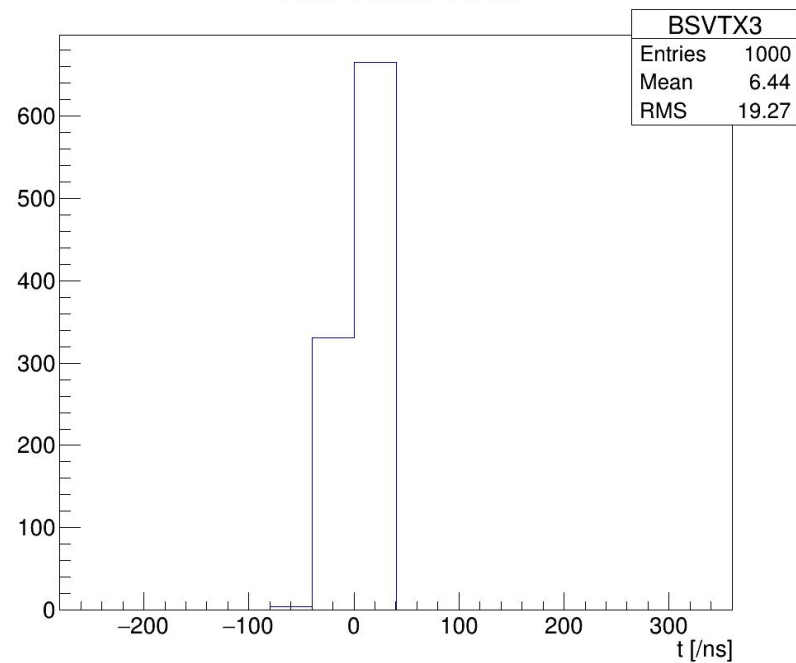
Rec. Event VTX1



Rec. Event VTX2

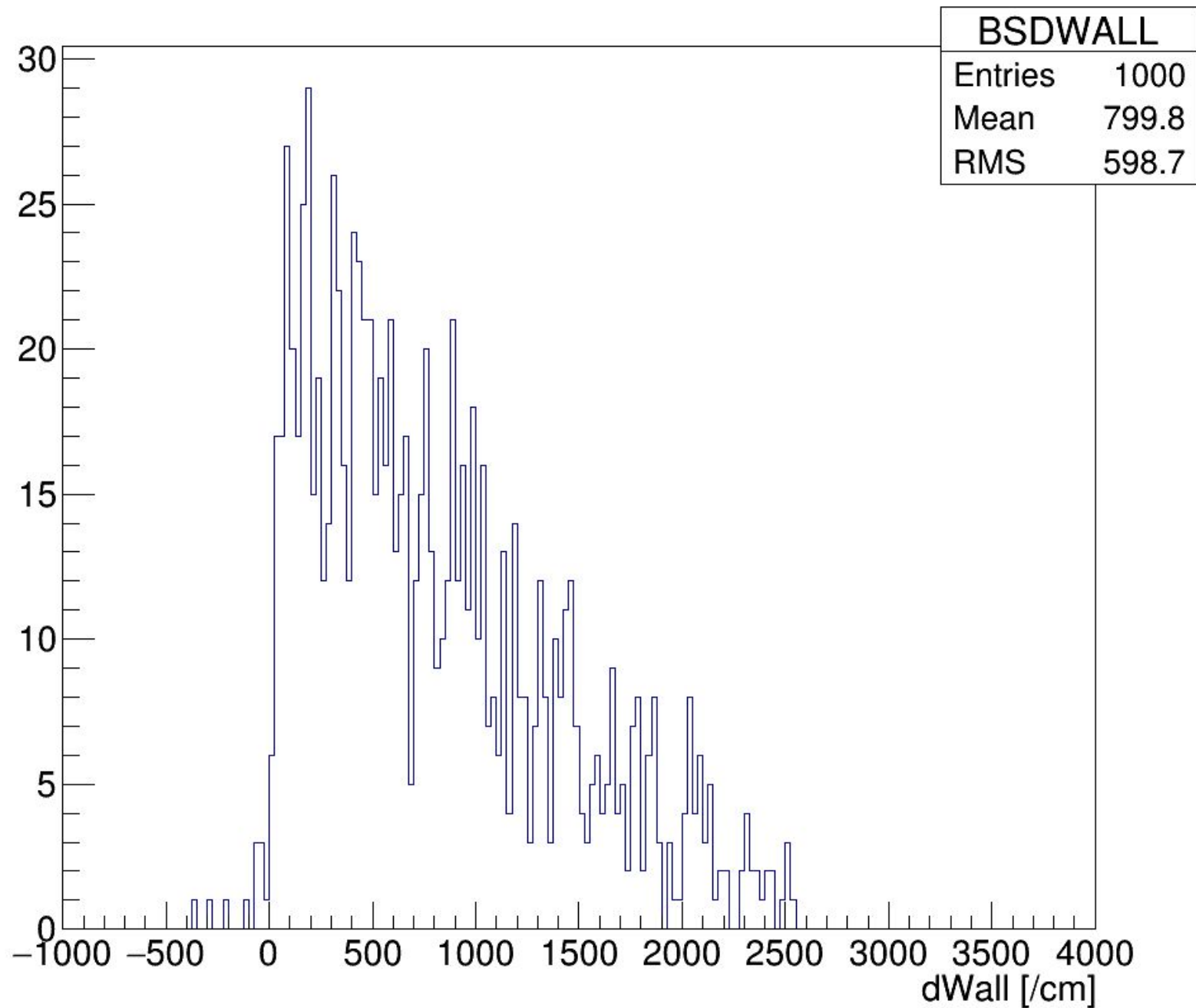


Rec. Event VTX3



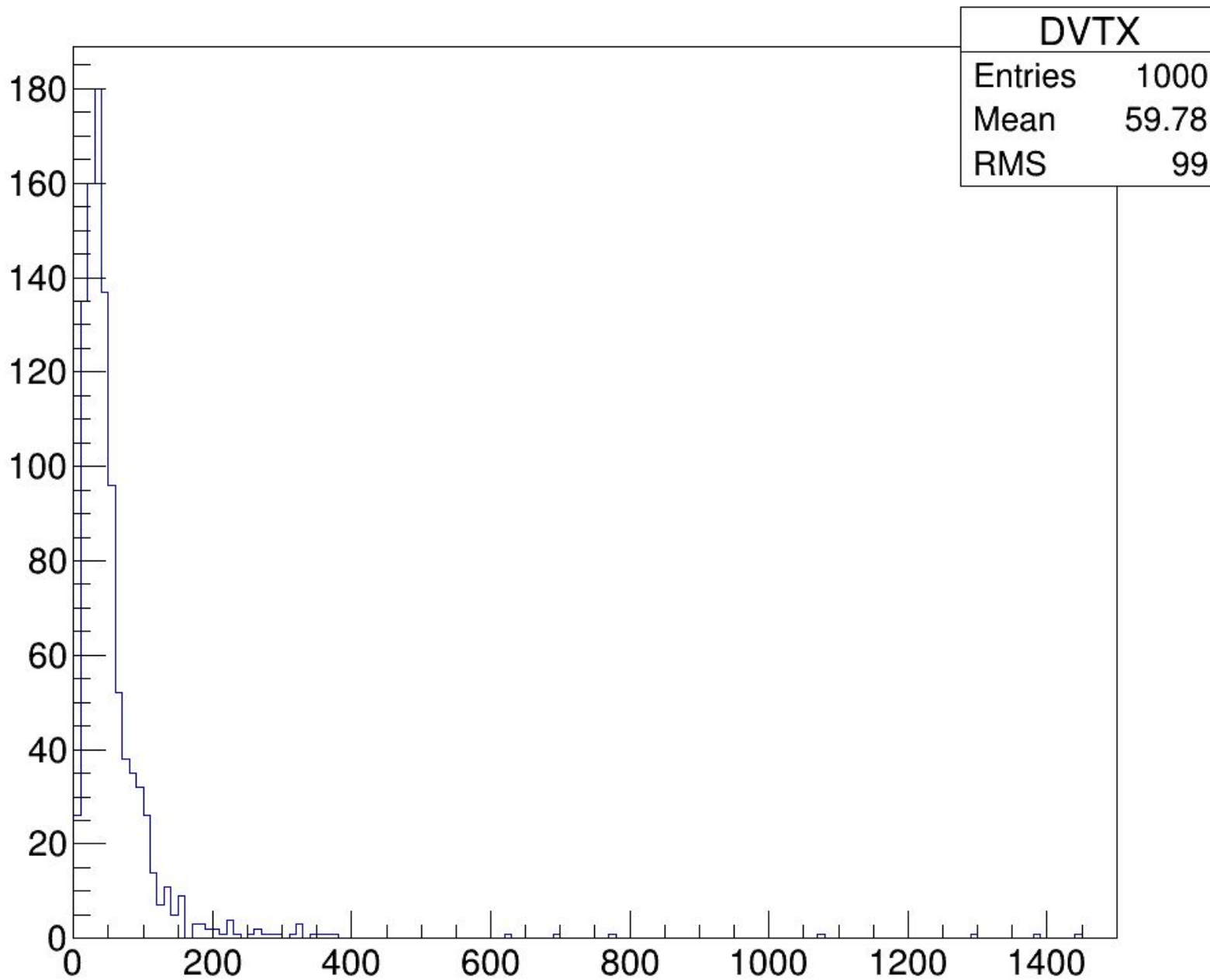
Rec. Event dWall

5

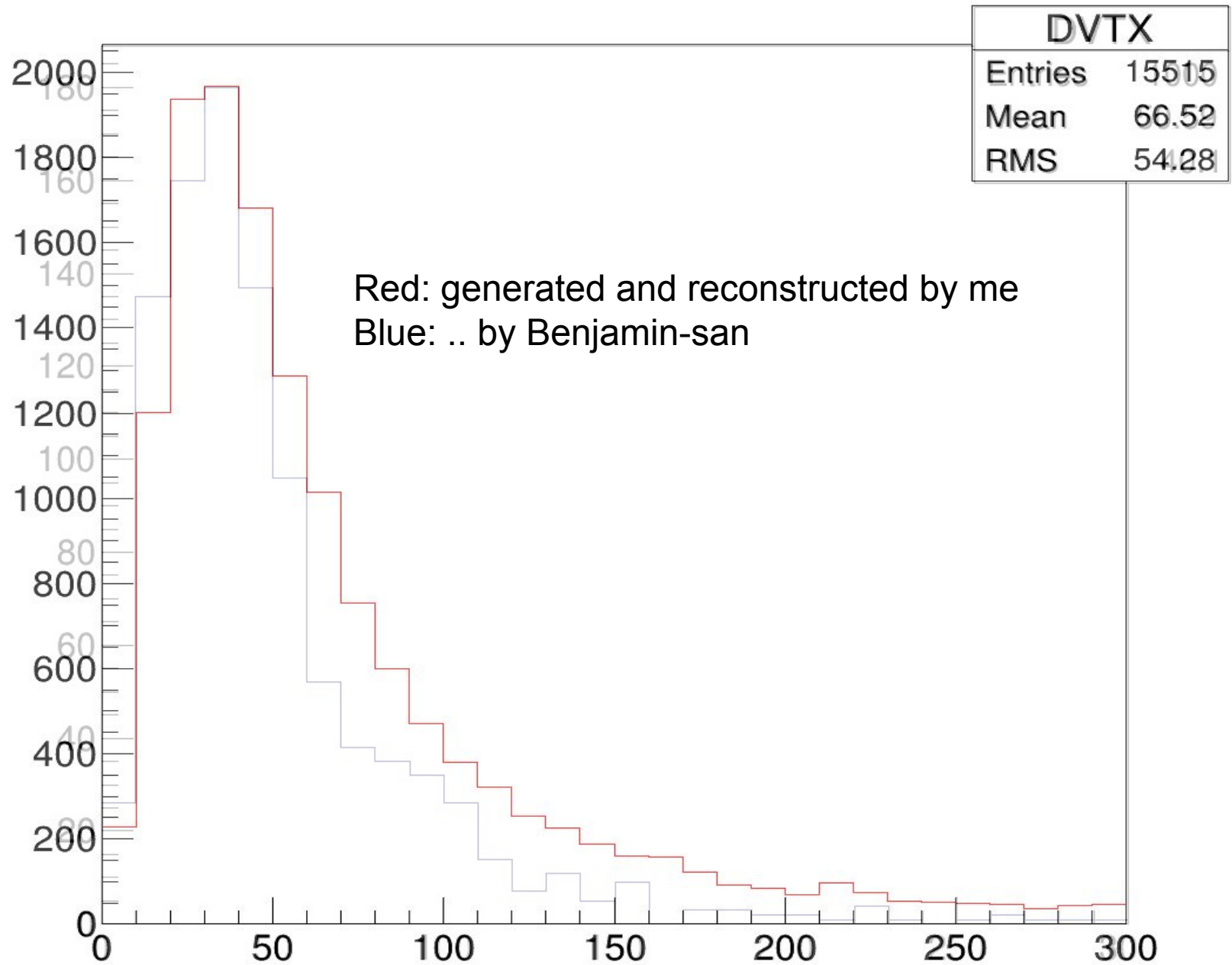


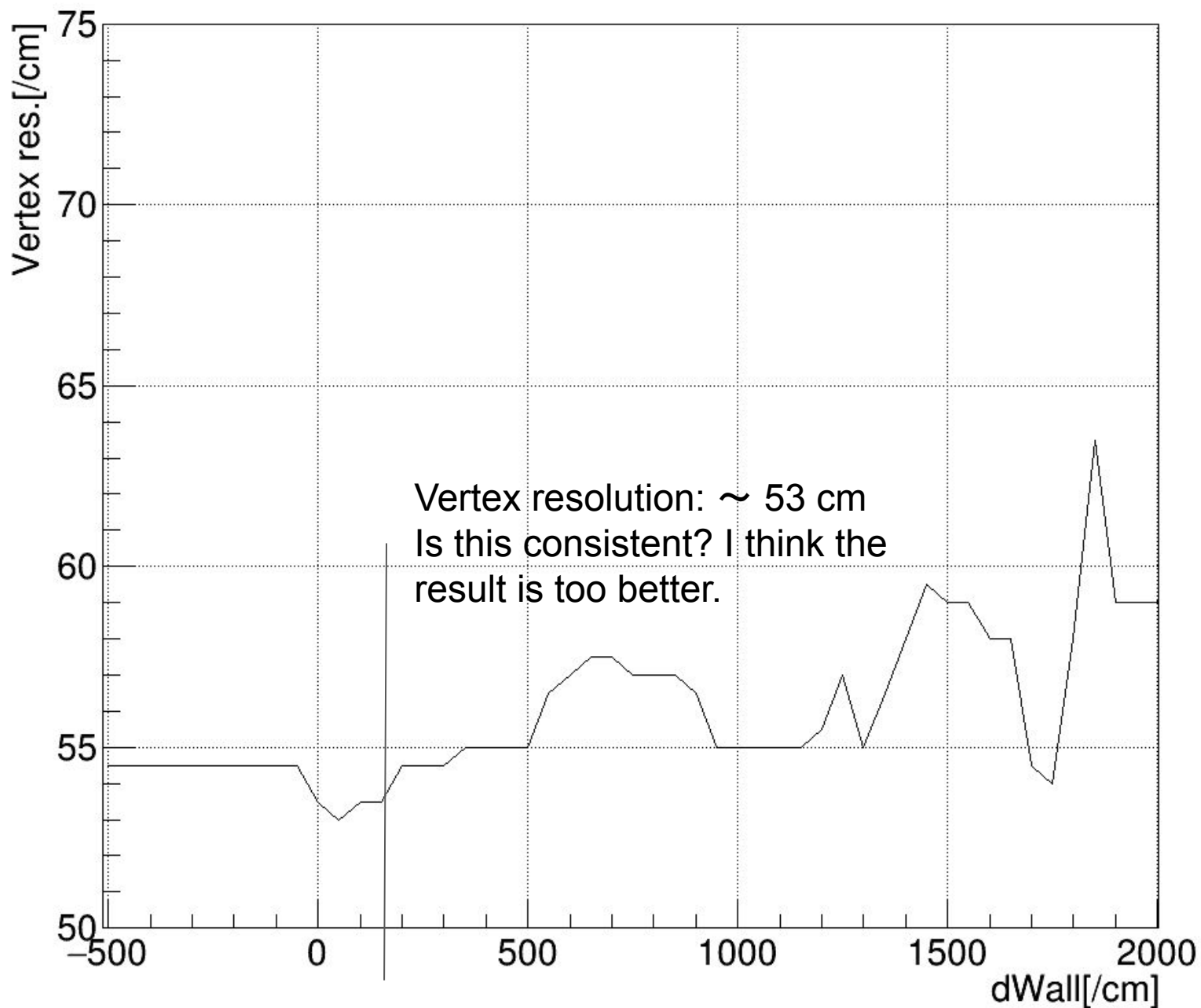
Distance from mc to rec.

6



Distance from mc to rec.





Other

- Re-installing WCSim to fix segmentation fault now
 - I hope memory issue will be fixed after re-installing WCSim