

# SHMS HGC and NGC vs Momentum

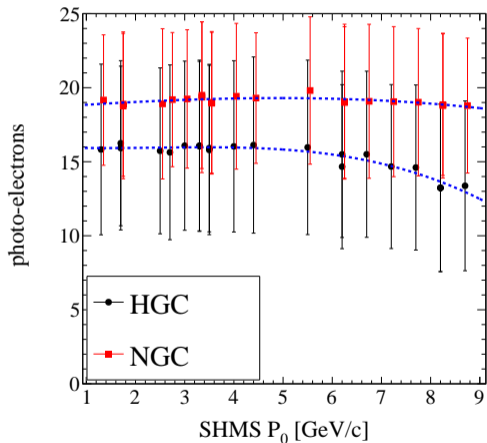
Whitney Armstrong  
Sylvester Joosten

Argonne National Laboratory

August 15, 2018

# SHMS Cherenkovs

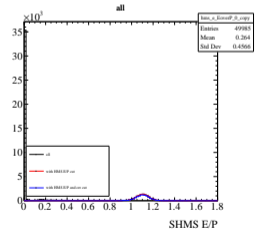
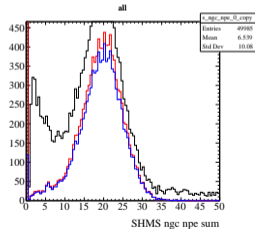
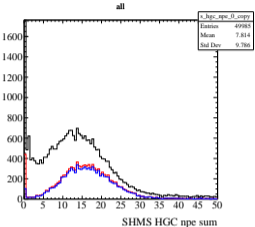
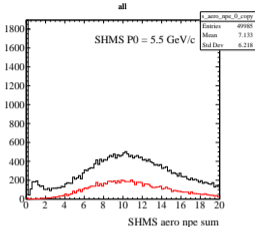
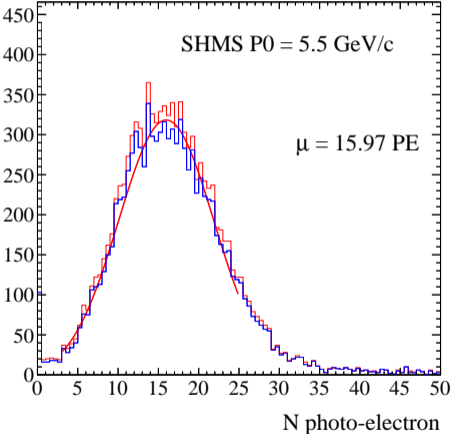
HGC and NGC number of photo-electrons vs central momentum setting



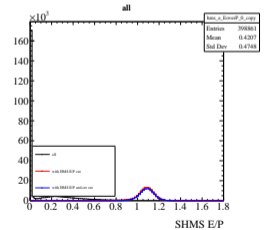
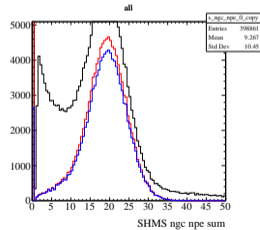
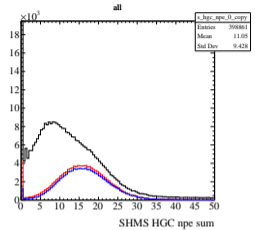
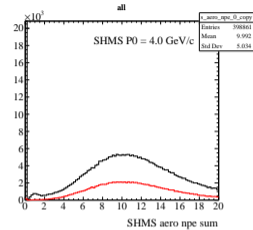
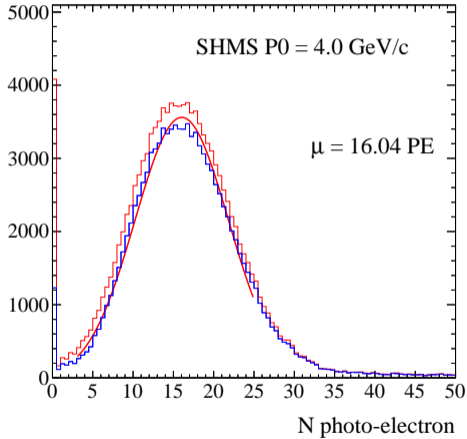
## HGC

- $C_4F_8O$  at 1 atm as of 1/29/2018
  - <https://logbooks.jlab.org/entry/3497377>
  - Pressure was held fixed (no log entries otherwise)
- 
- SHMS singles run only
  - Earliest run taken on 1/31/2018
  - Error bars  $\rightarrow \sigma$  from Gaussian fit.
- 
- Is the HGC magnetic shield sufficient for the earth's field?
  - Would additional shielding (inside) increase the overall photo-electron yields?

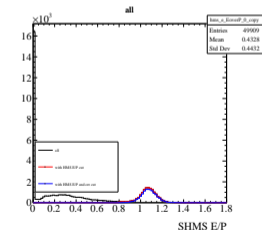
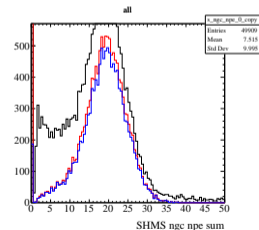
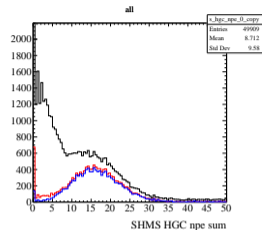
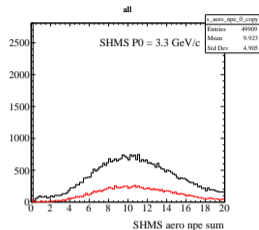
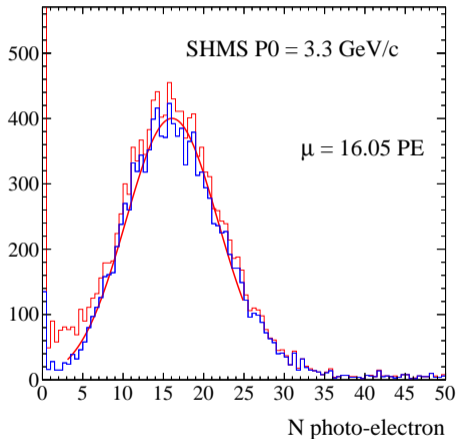
Heavy Gas Cherenkov



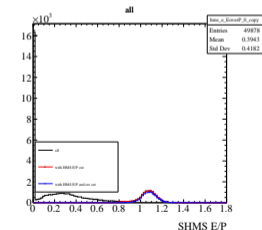
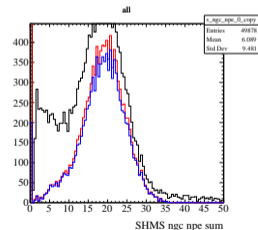
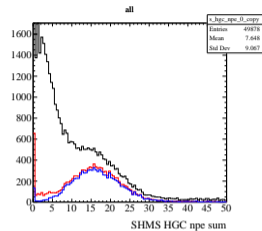
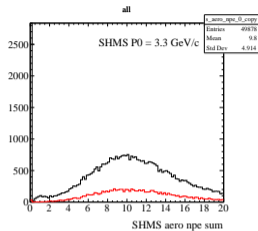
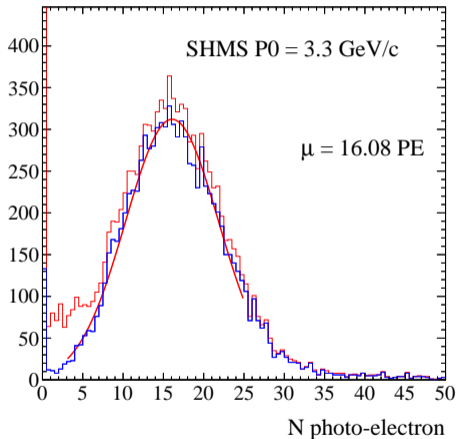
## Heavy Gas Cherenkov



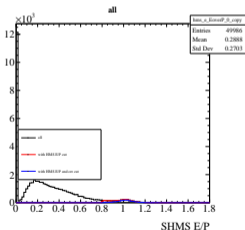
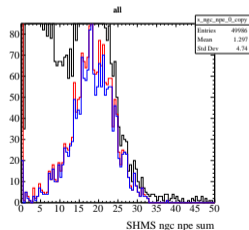
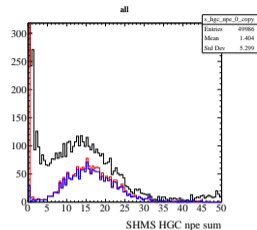
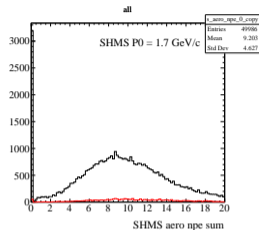
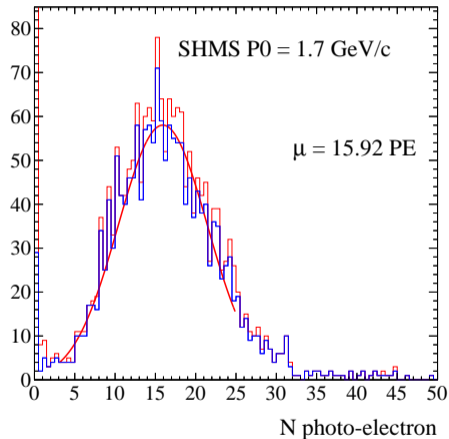
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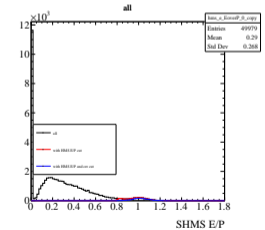
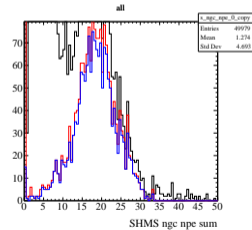
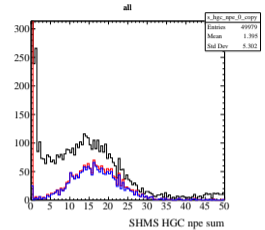
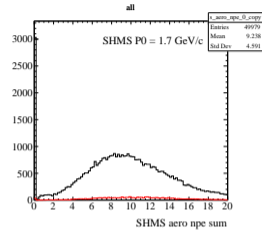
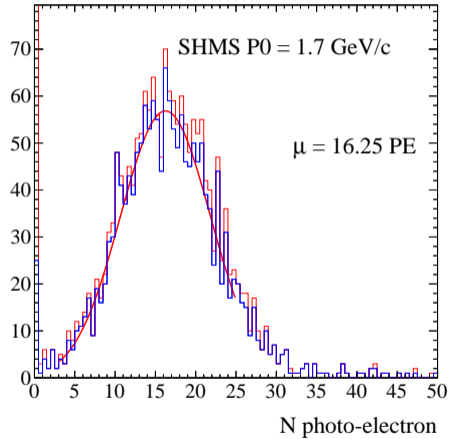
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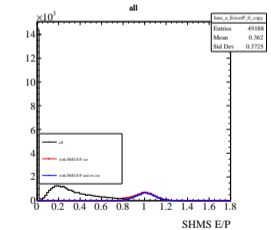
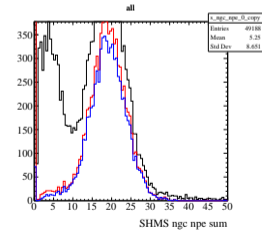
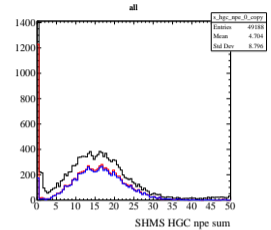
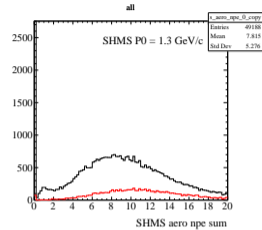
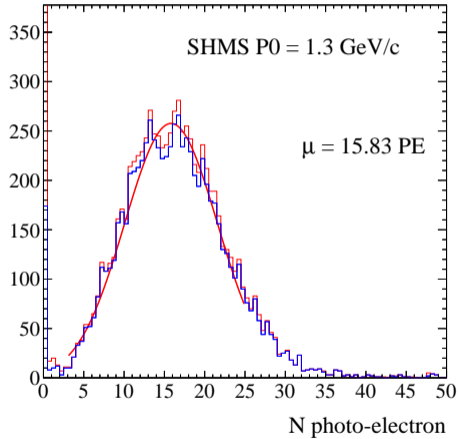


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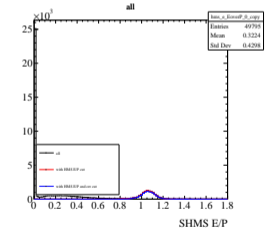
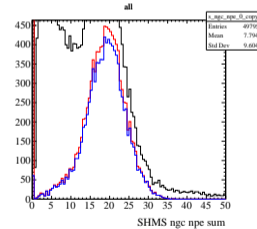
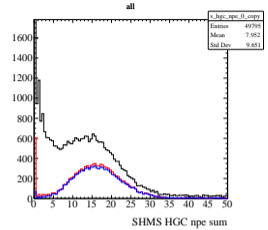
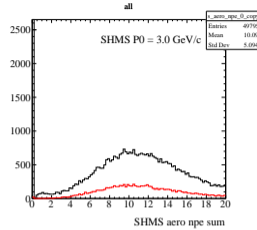
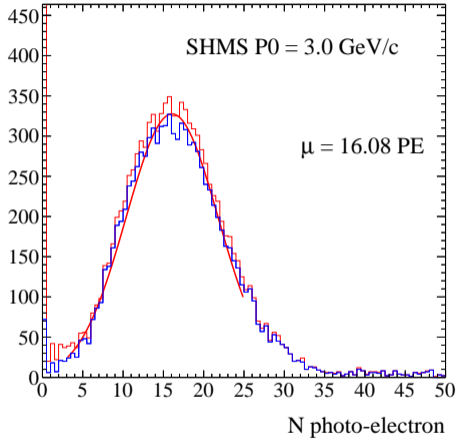




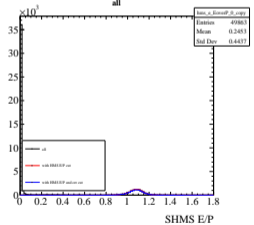
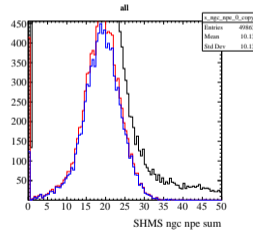
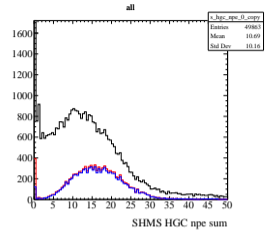
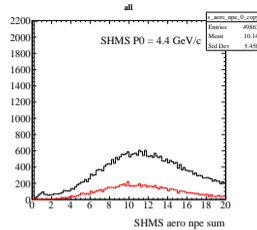
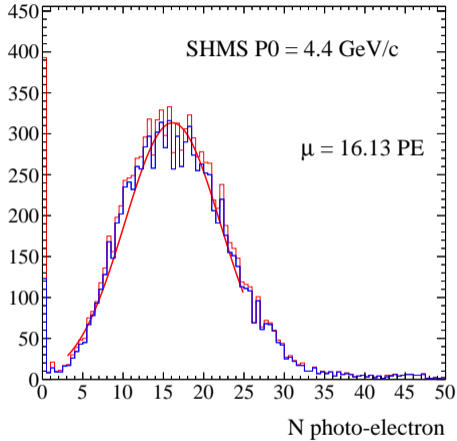
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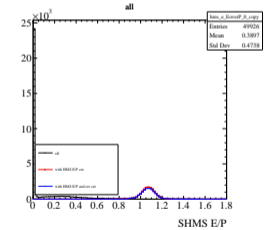
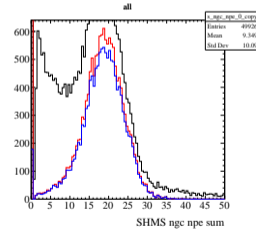
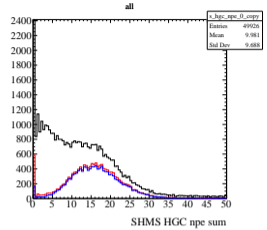
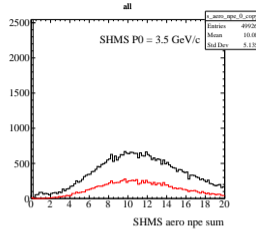
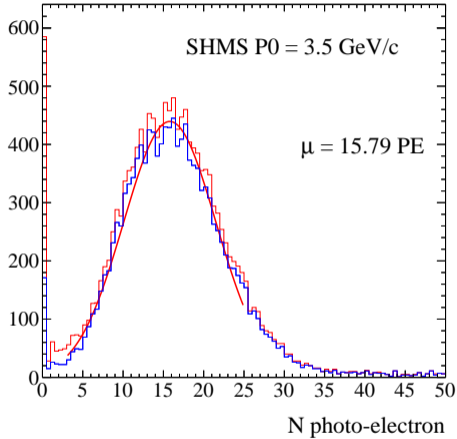
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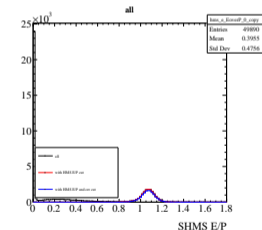
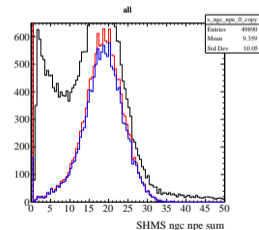
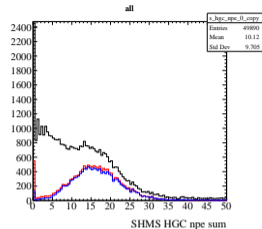
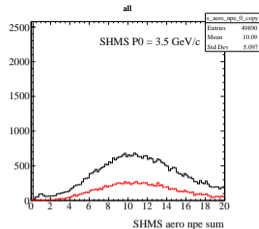
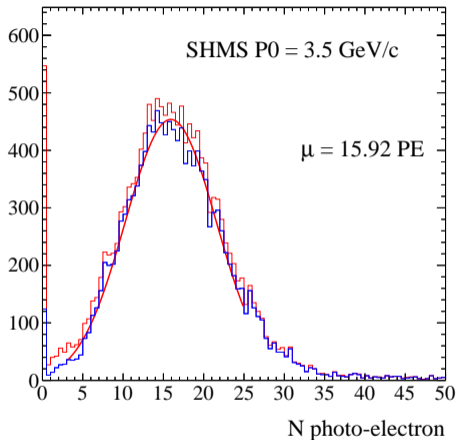
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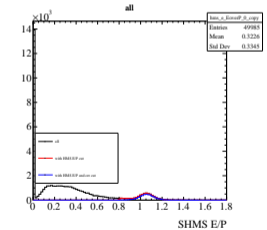
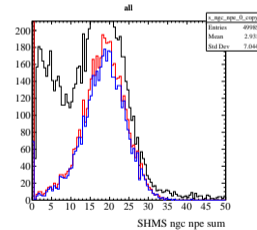
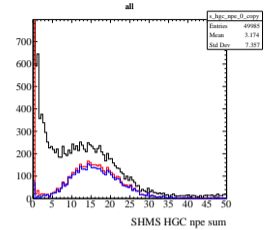
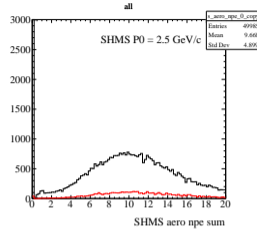
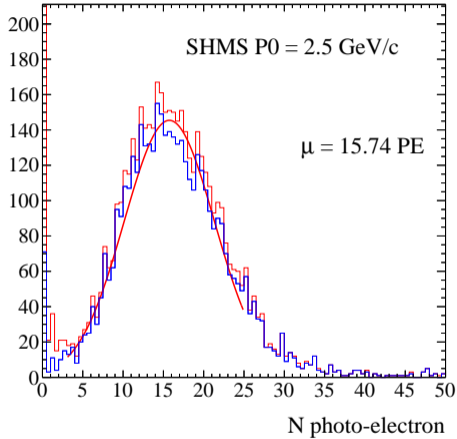
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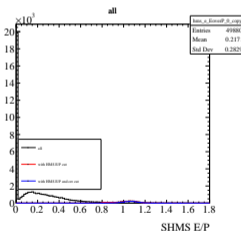
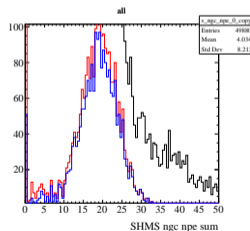
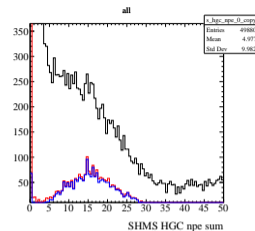
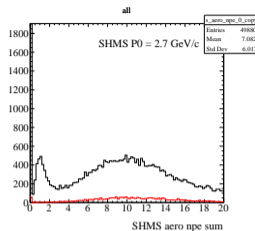
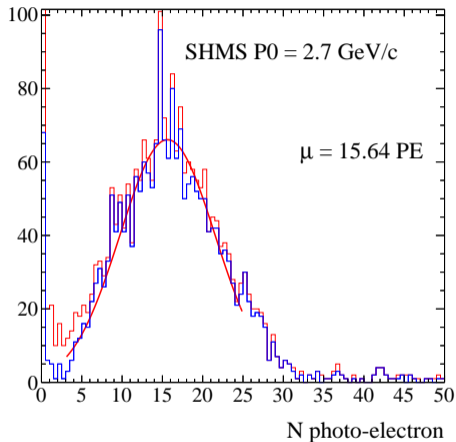
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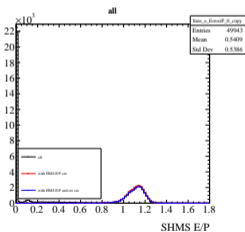
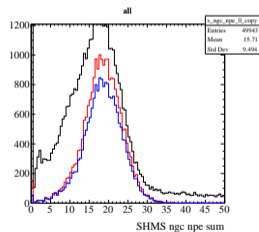
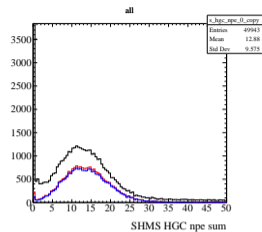
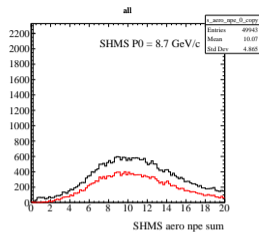
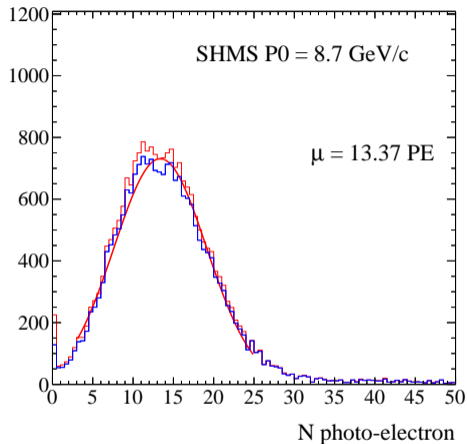
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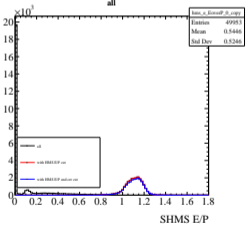
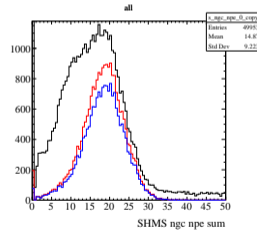
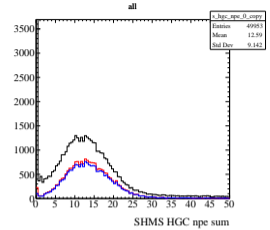
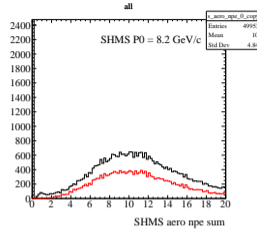
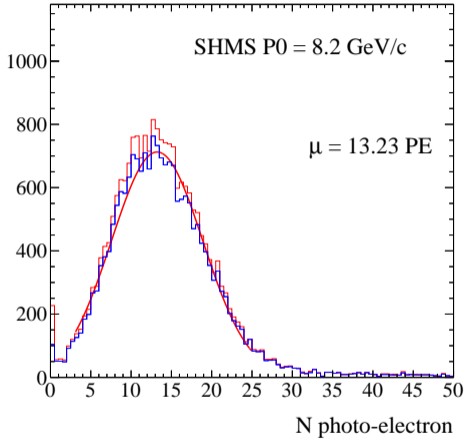


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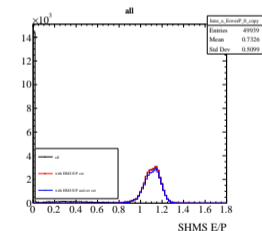
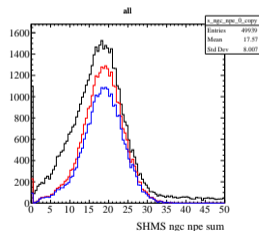
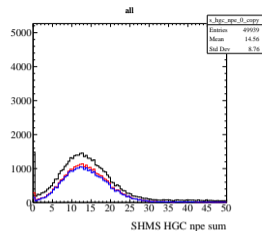
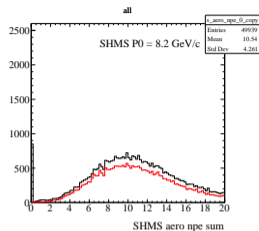
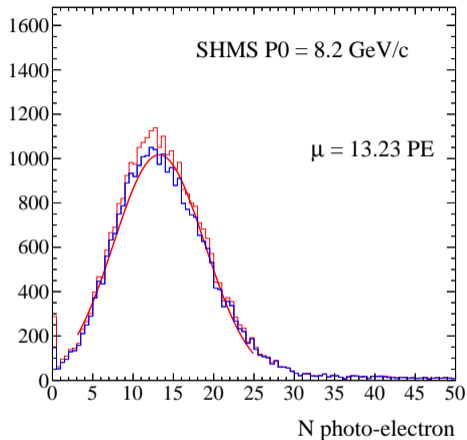




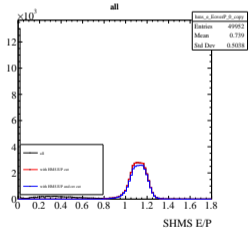
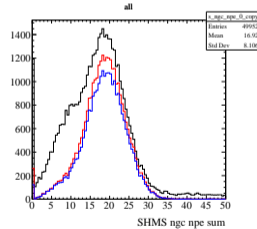
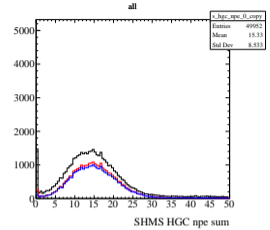
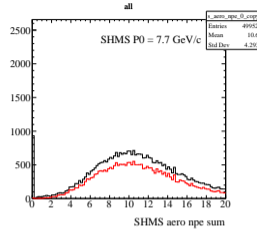
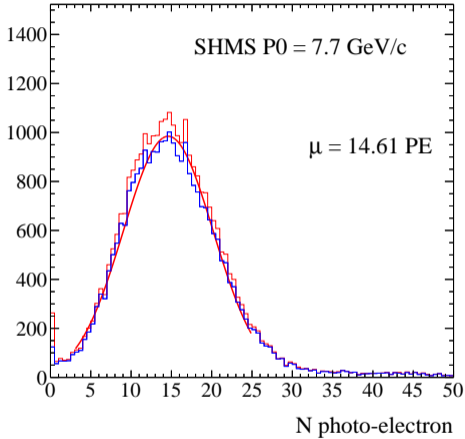
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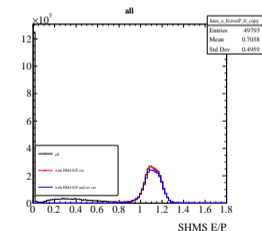
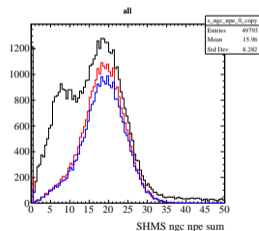
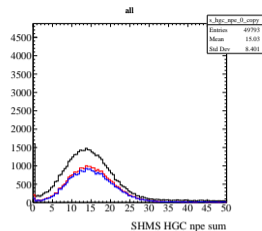
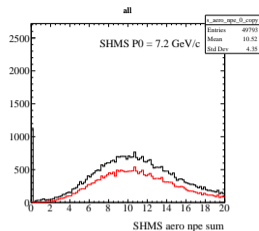
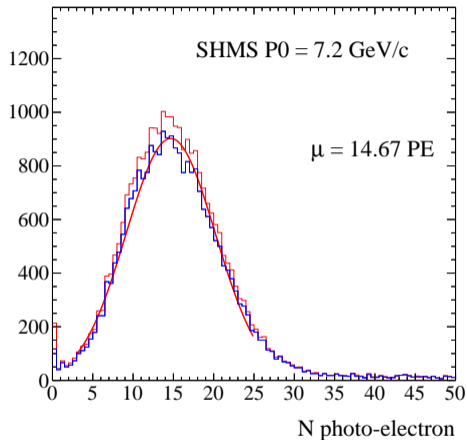
## Heavy Gas Cherenkov



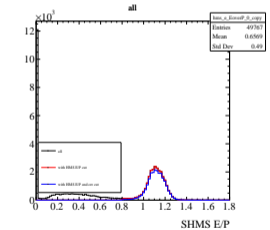
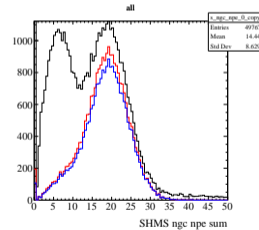
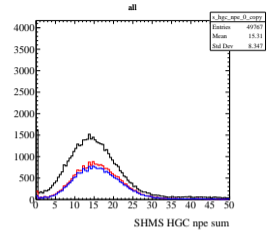
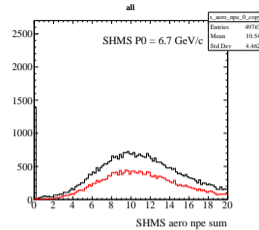
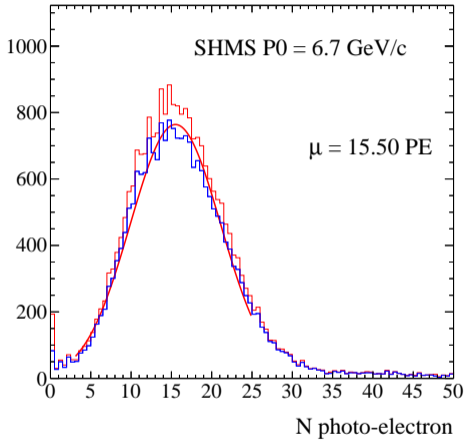
# Heavy Gas Cherenkov



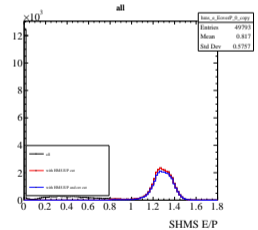
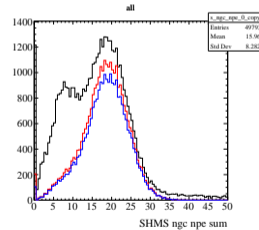
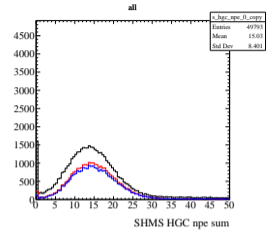
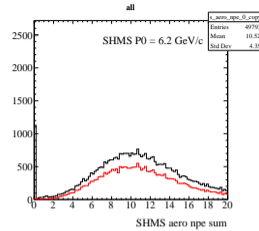
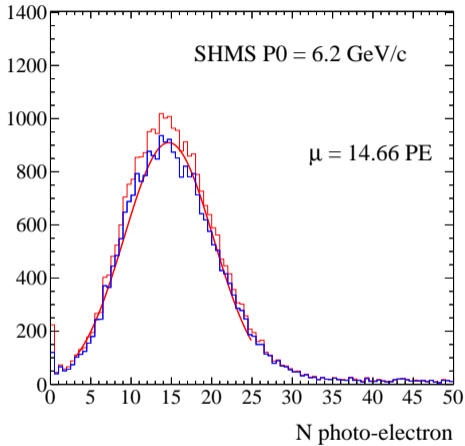
## Heavy Gas Cherenkov



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