# Status Report: Efficiency Correction

Steffen Maurus

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Excellence Cluster Universe

# Introduction

Pre-Analysis Cuts:

- TriggerPT3
- Start Detector
- Vertex
- BadHit (TOF $< 0$, TOF $> 80$)

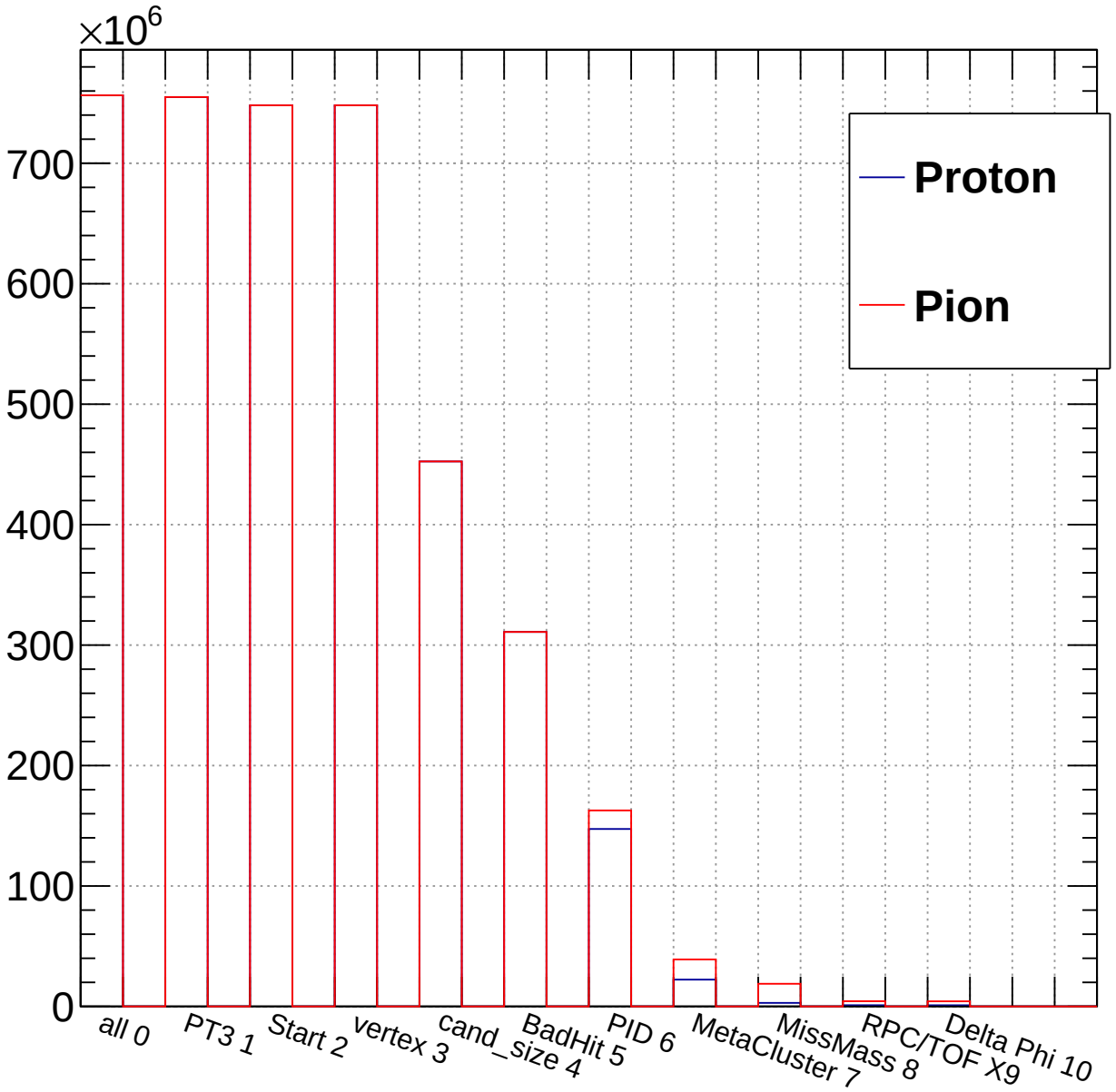
Expected:

- kIsUsed $== 1$ & isOffVertex $== 0$
- matching PID
- metacluster $>= 2$
- matching missing mass
- matching $\Phi$ in meta (candidate)

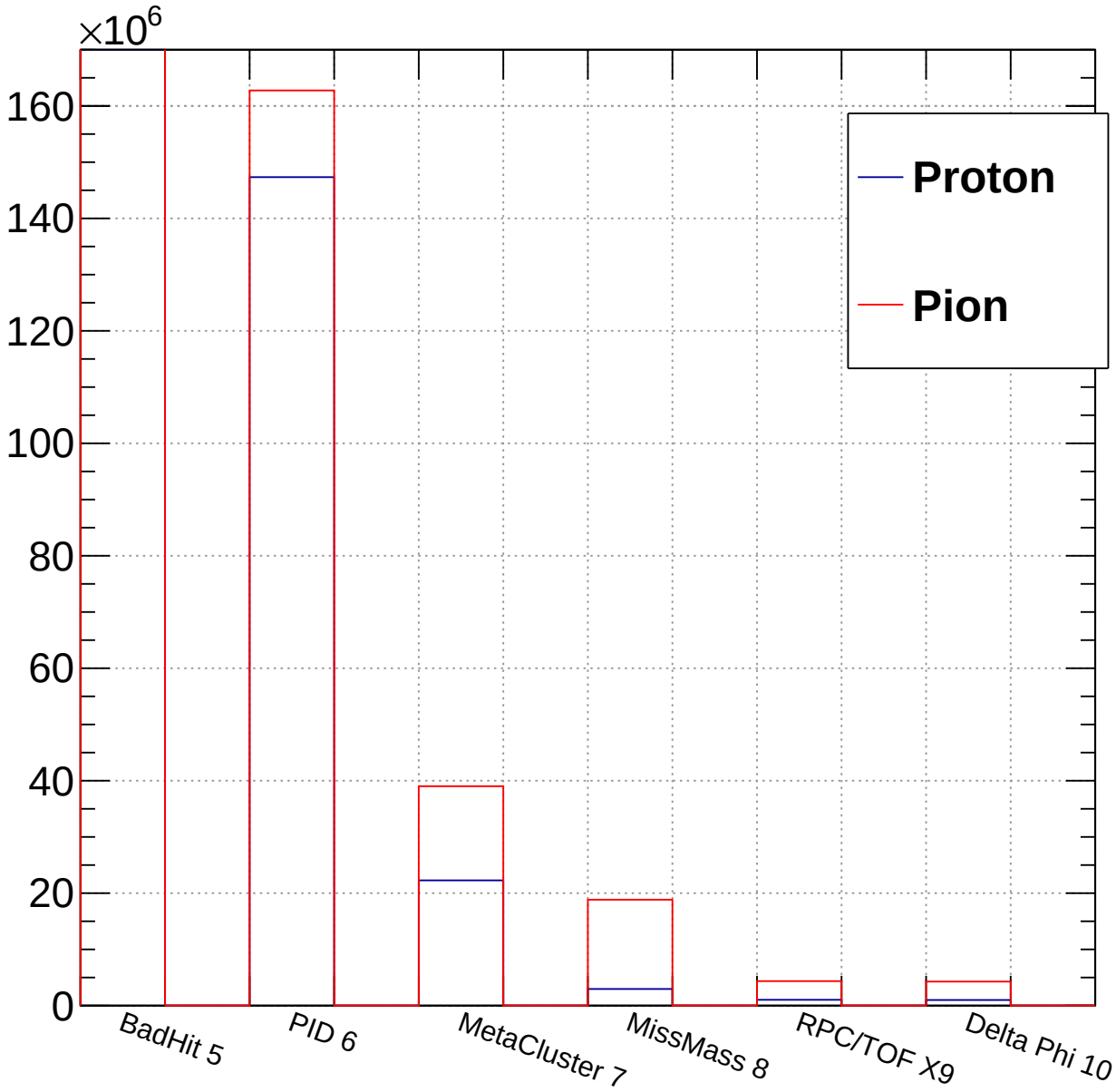
Measured:

- best matching $\Phi$
- no kIsUsed!, ...

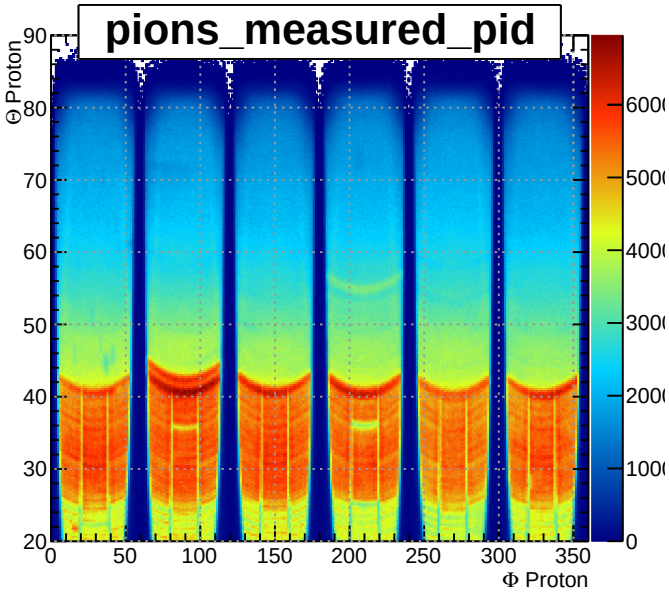
# Stages Proton/Pion

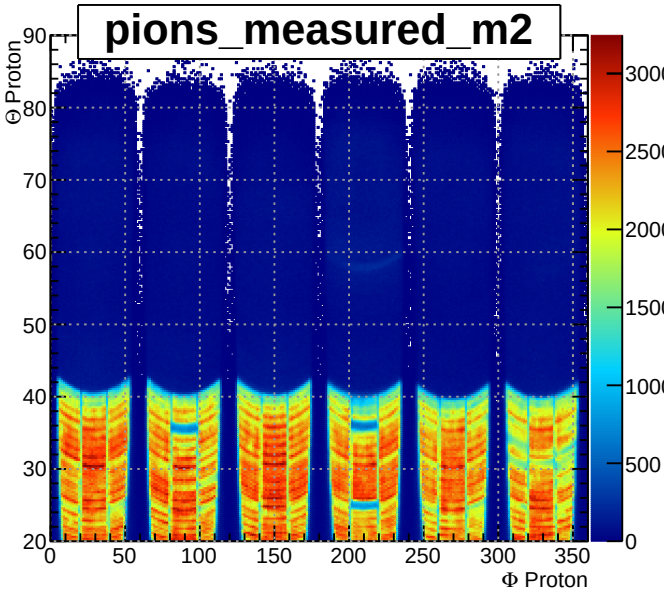


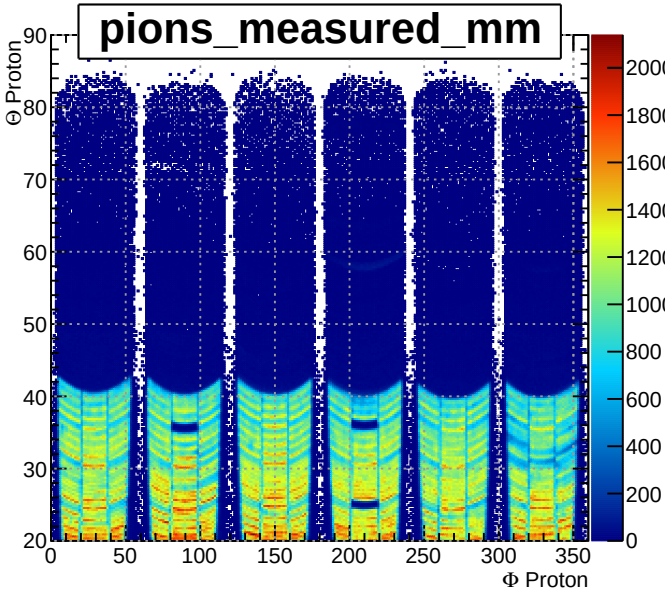
# Stages Zoom Proton/Pion

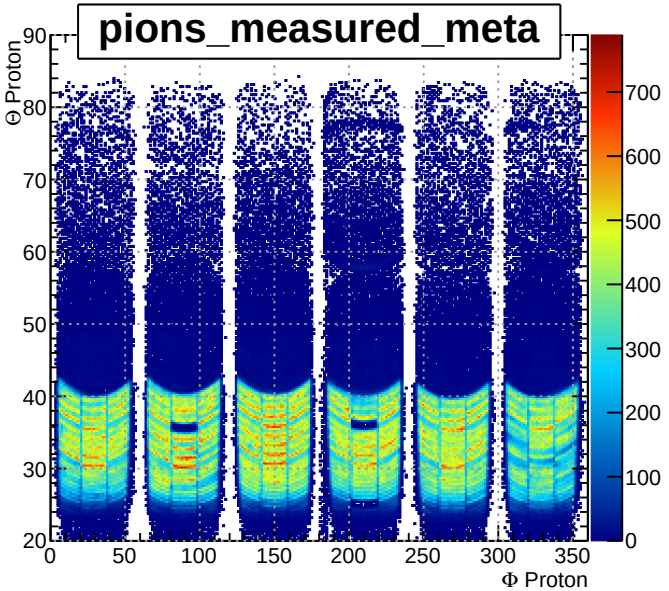


# Stages Pion Measured

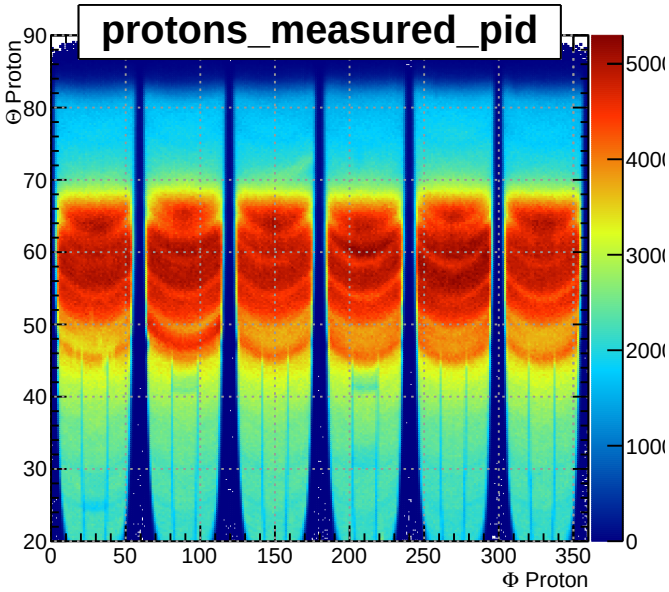


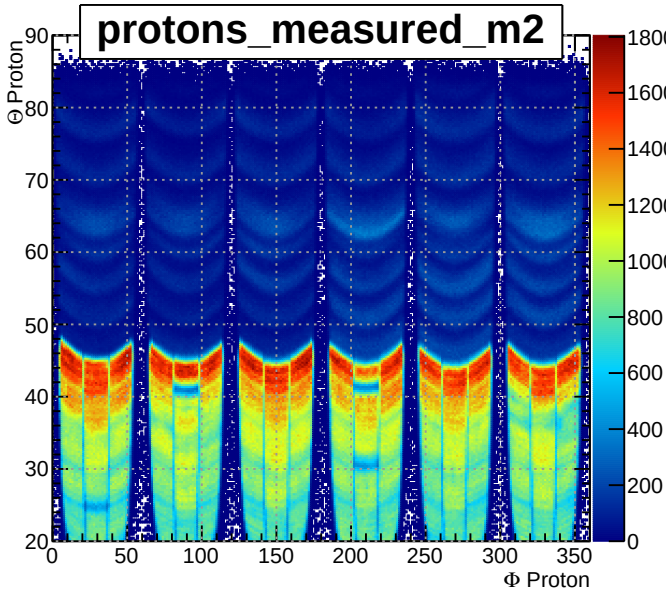



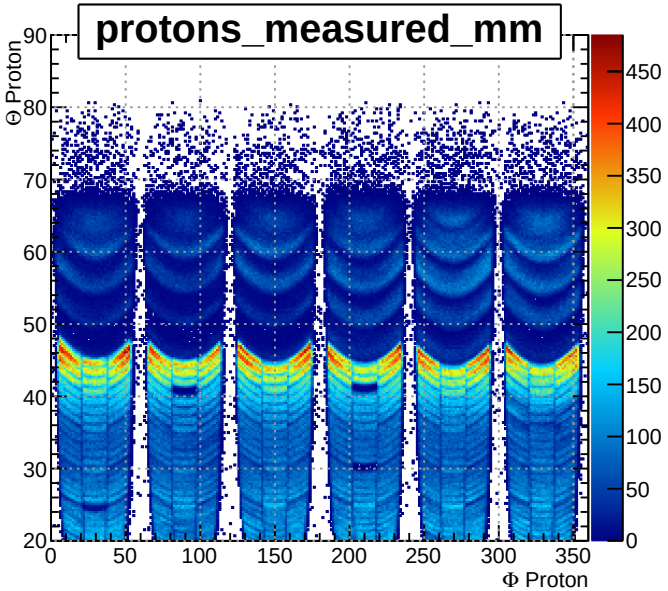



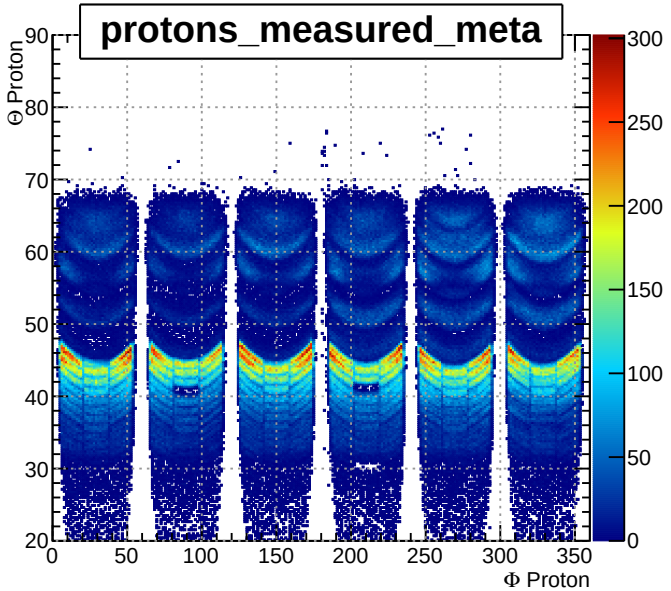



# Stages Proton Measured



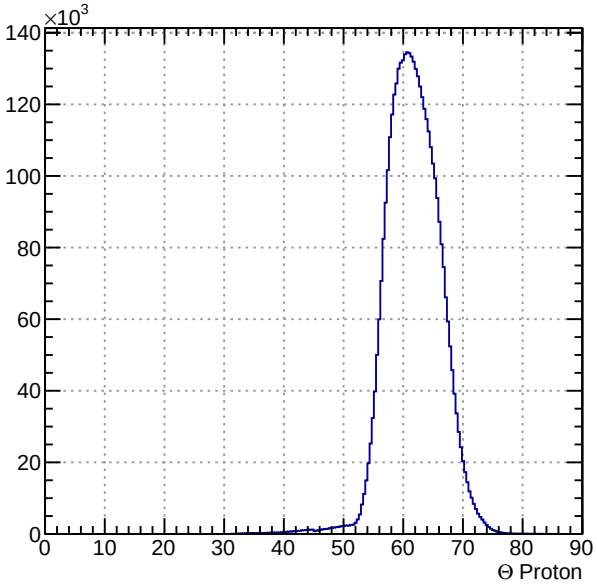



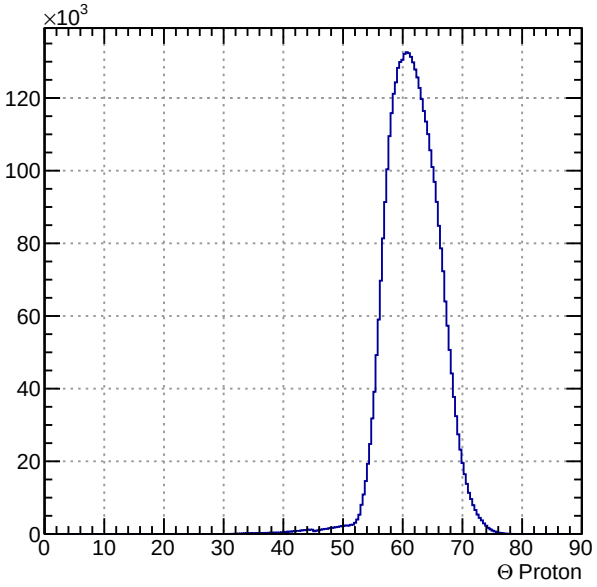



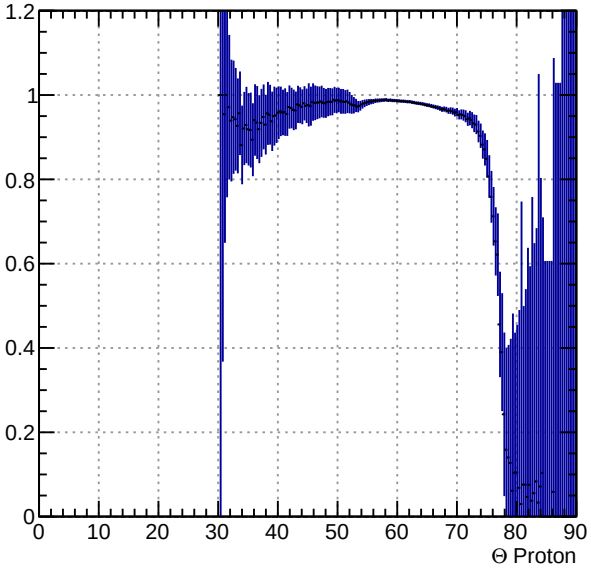



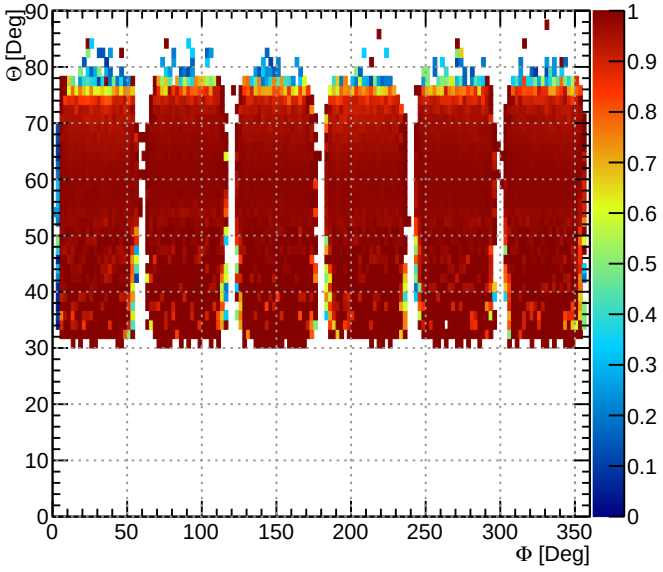
# Proton Efficiency

## Expected - Measured - 1D - 2D



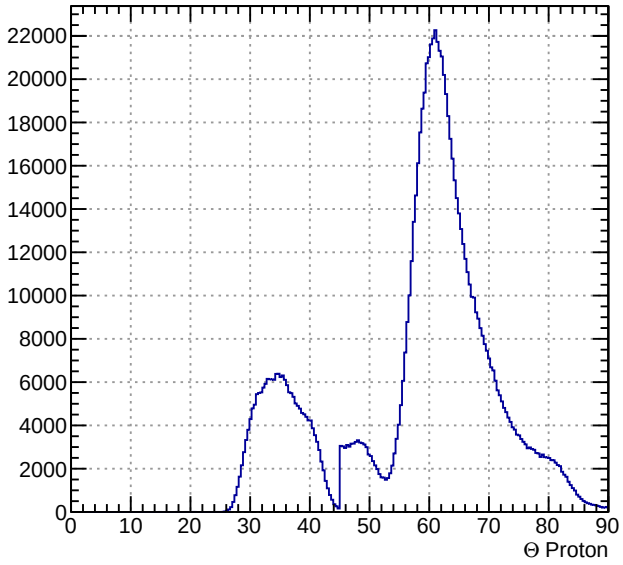



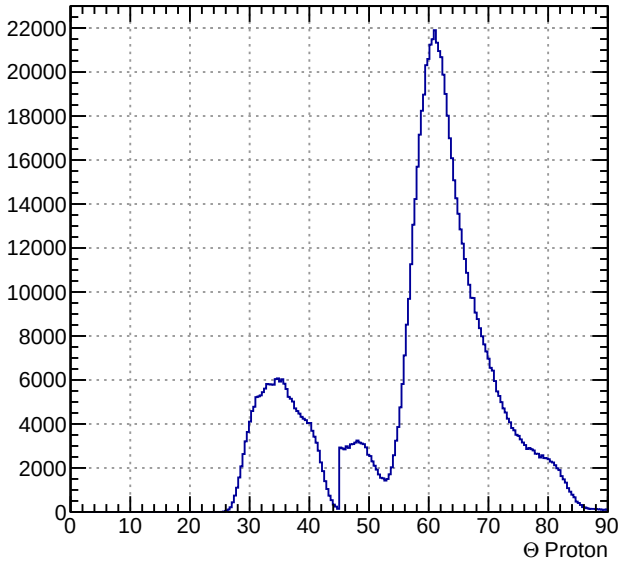



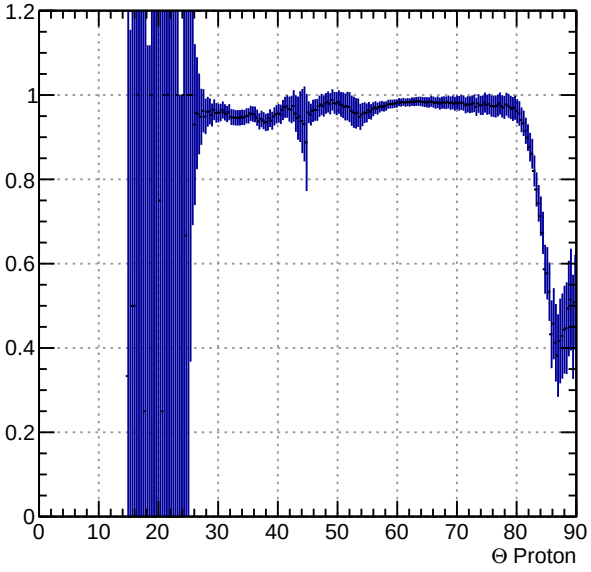



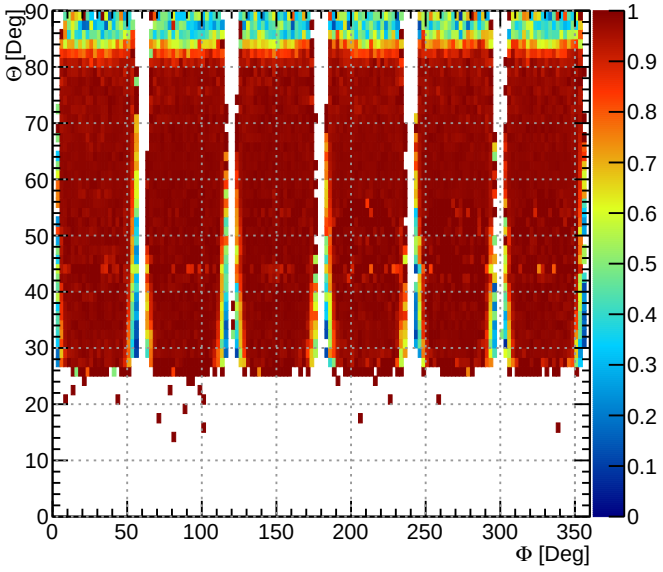
# Pion Efficiency

## Expected - Measured - 1D - 2D

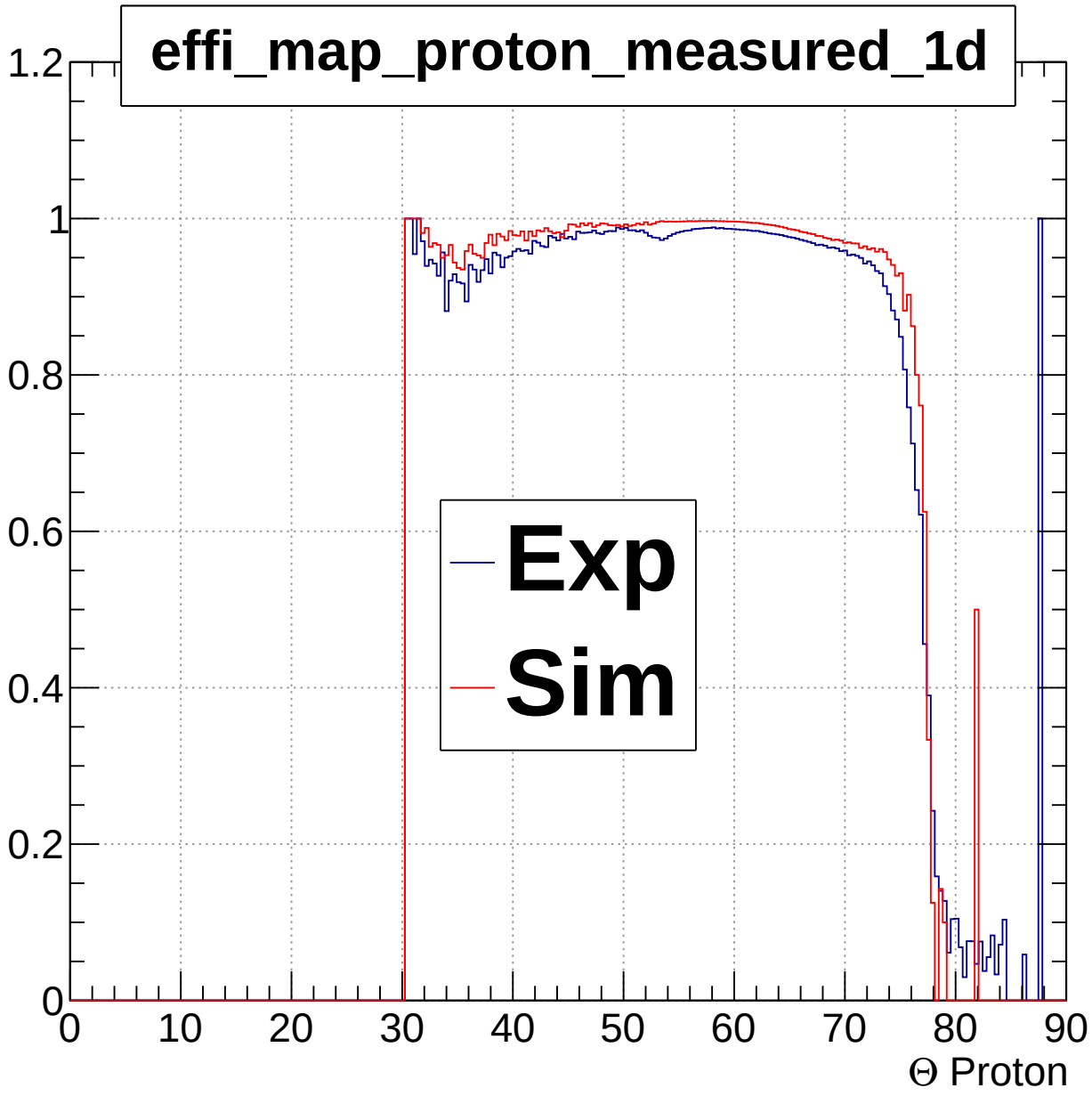


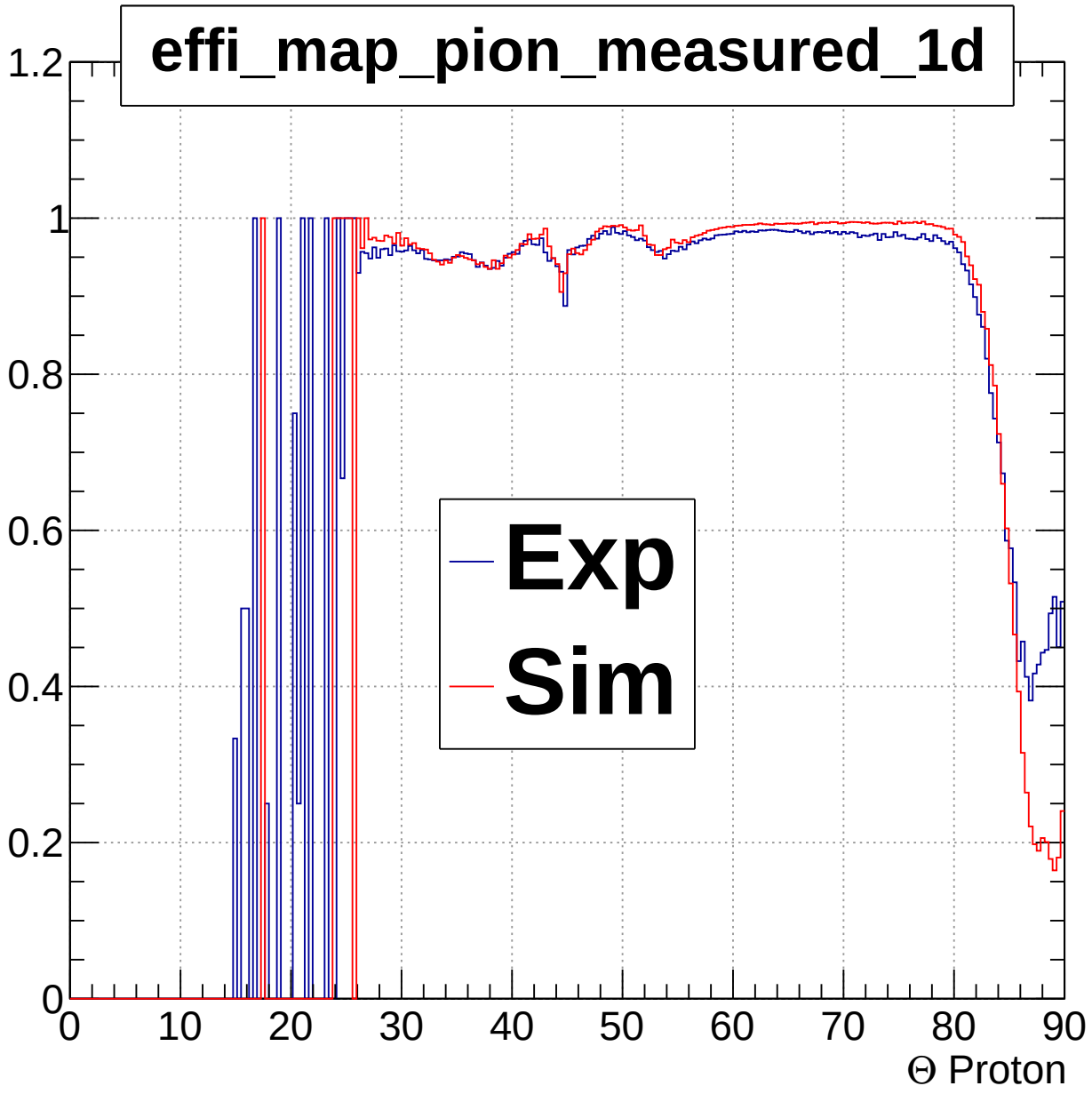



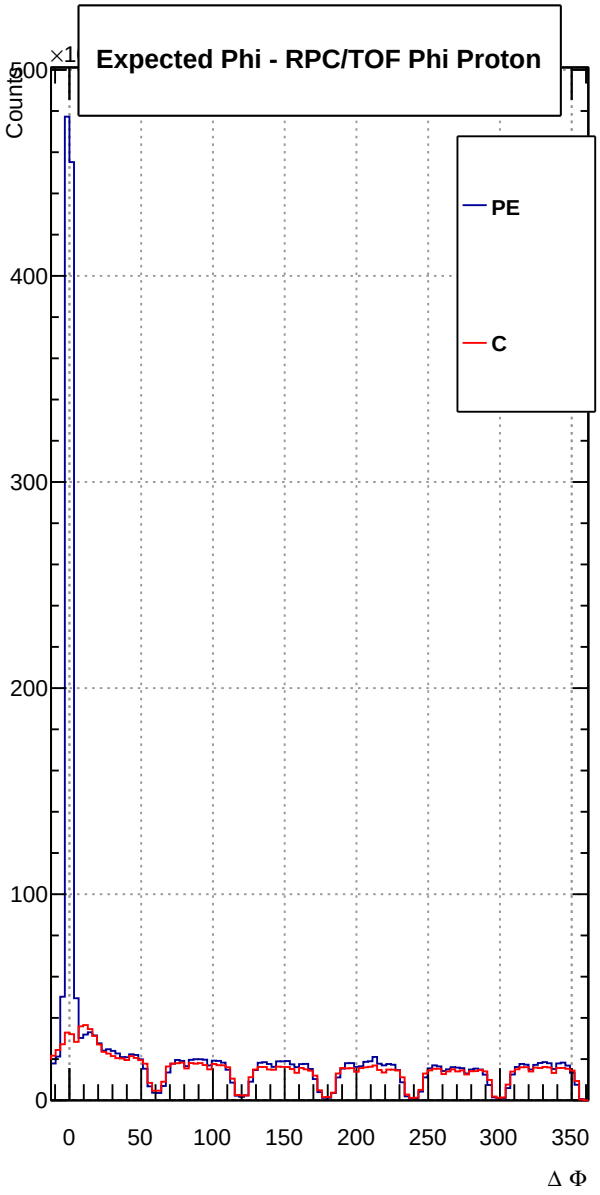
# Proton Efficiency - Exp Sim

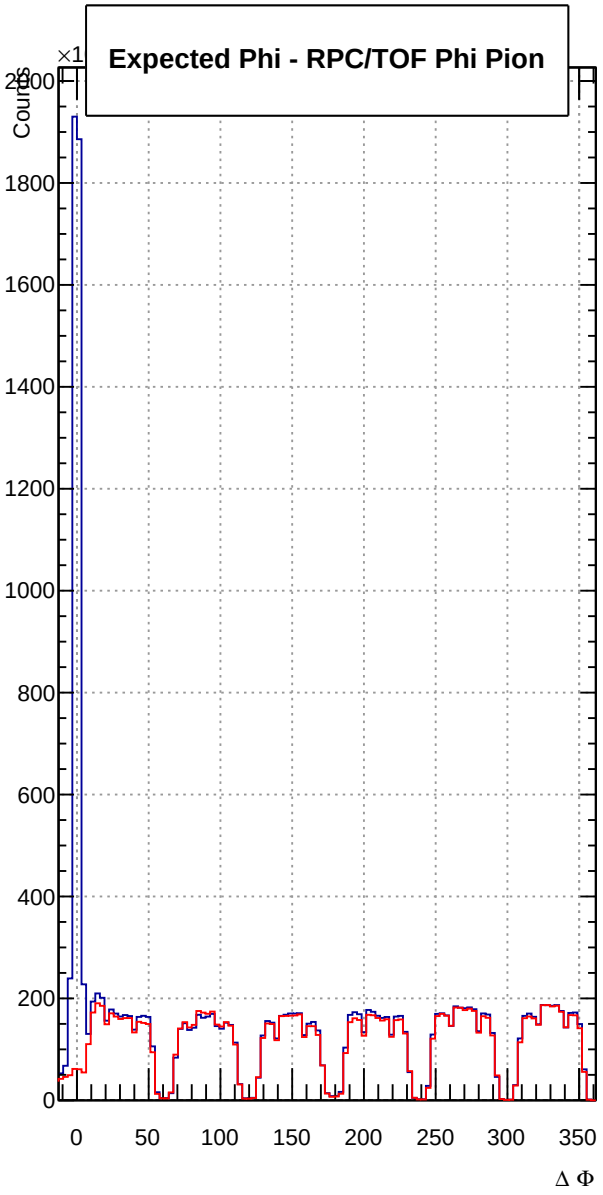
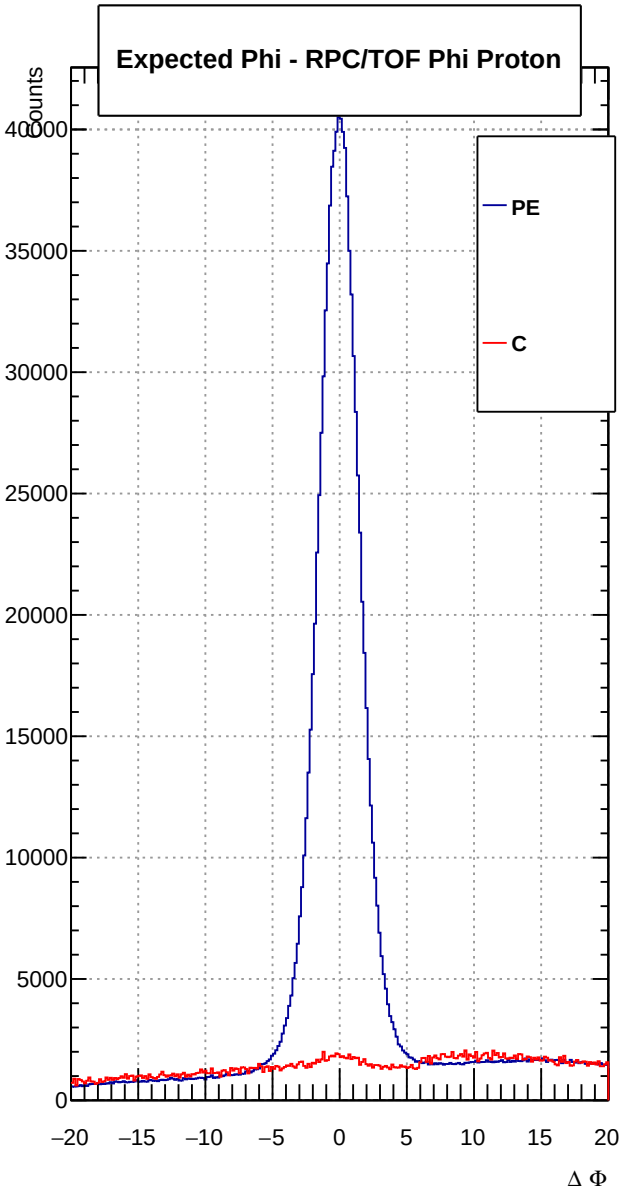
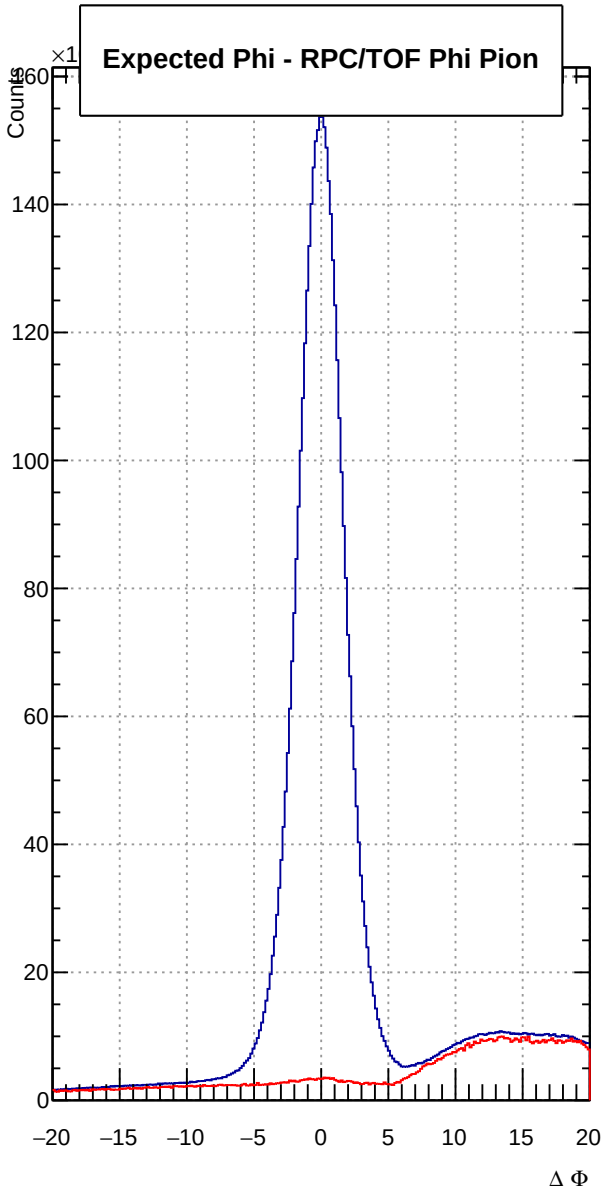


# Pion Efficiency - Exp Sim



# Carbon Background






# Carbon Background Zoom