



APE validation with 2012ReReco



(Using 2012 Cosmics data)

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Hamburg Tracker Meeting
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Validation setup

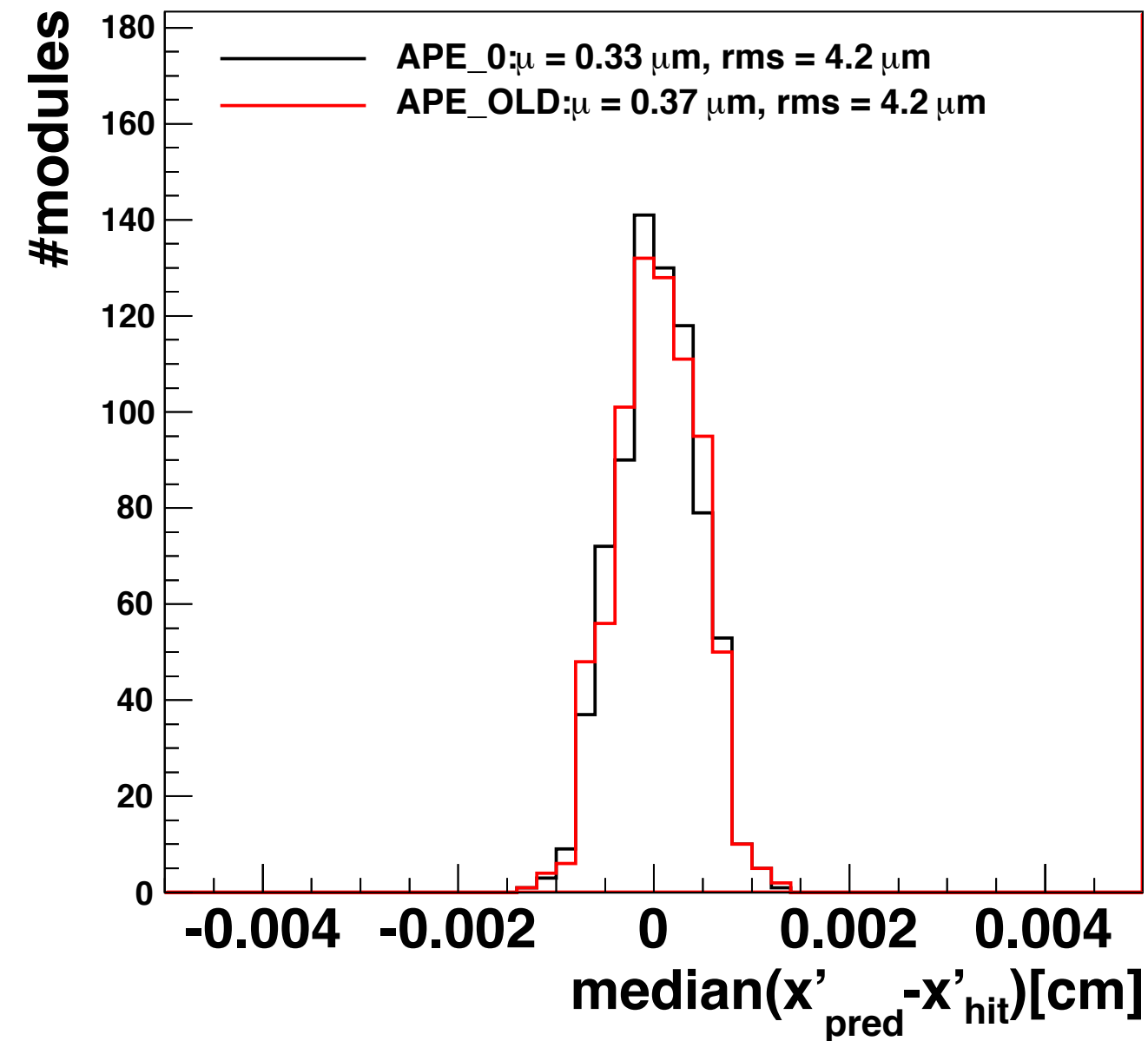
- Data used:
 - CRUZET 0T: 700 K events
 - CRAFT12 3.8T: 1.6 M events
- Global Tag: FT_R_53_V18
- Alignments:
 - APE_0: Everything from GT
 - APE_OLD: Everything from GT except

TrackerAlignmentErrorRcd

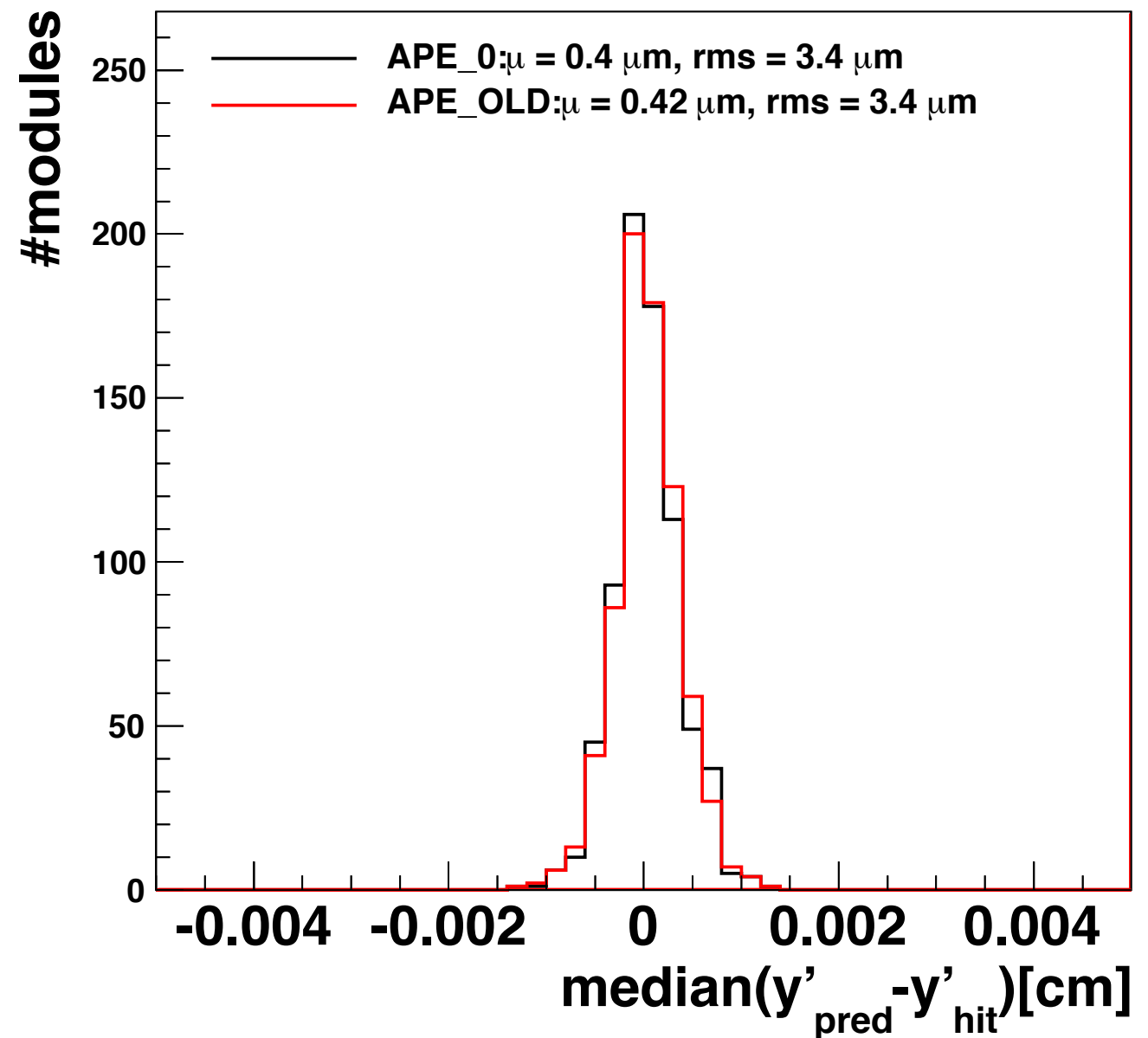
frontier://FrontierProd/CMS_COND_31X_ALIGNMENT,
TrackerAlignmentErrors_GR10_v2_offline

Median: CRAFT12 (3.8T)

Distribution of the median of the residuals in TPB



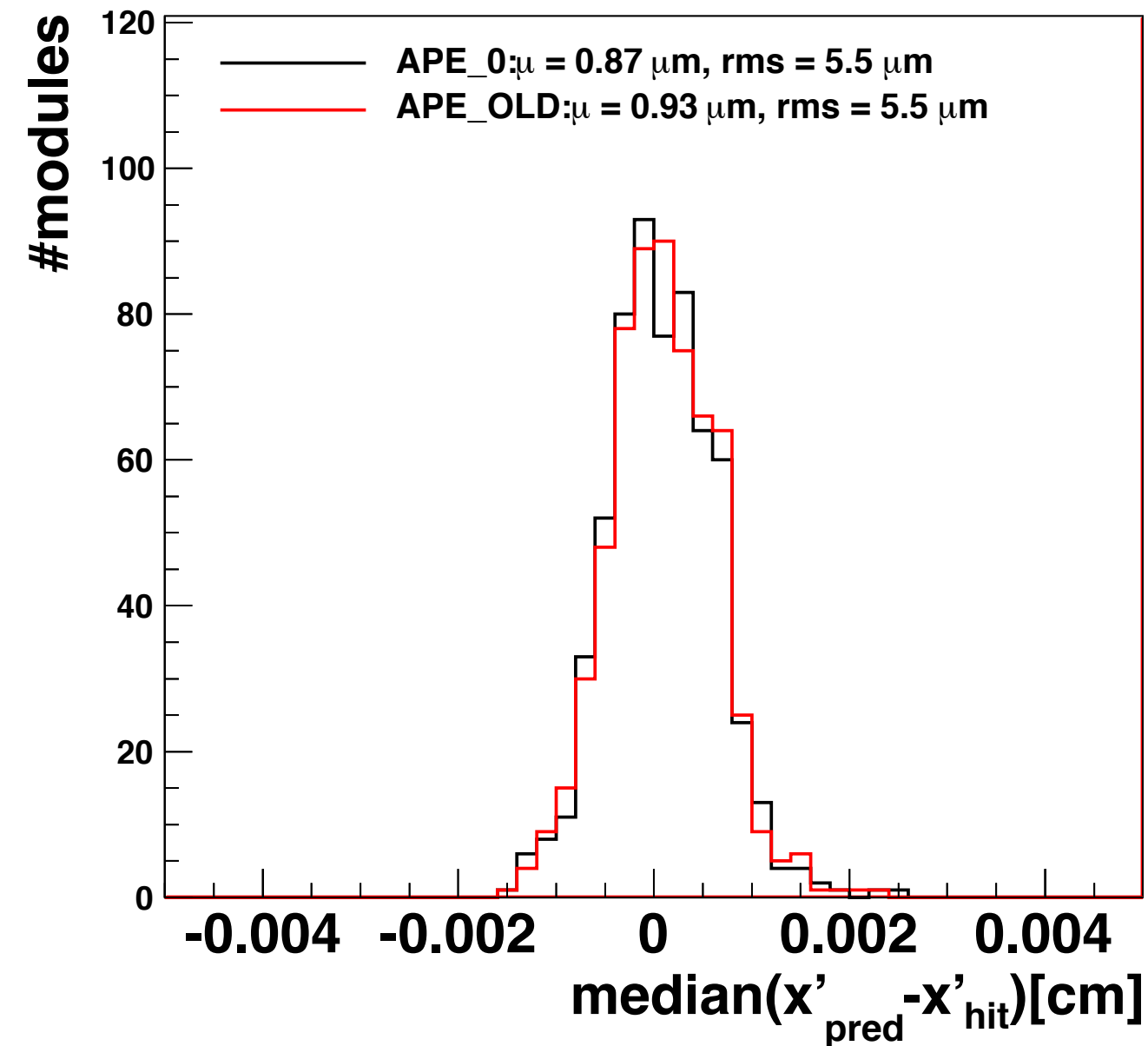
Distribution of the median of the y residuals in TPB



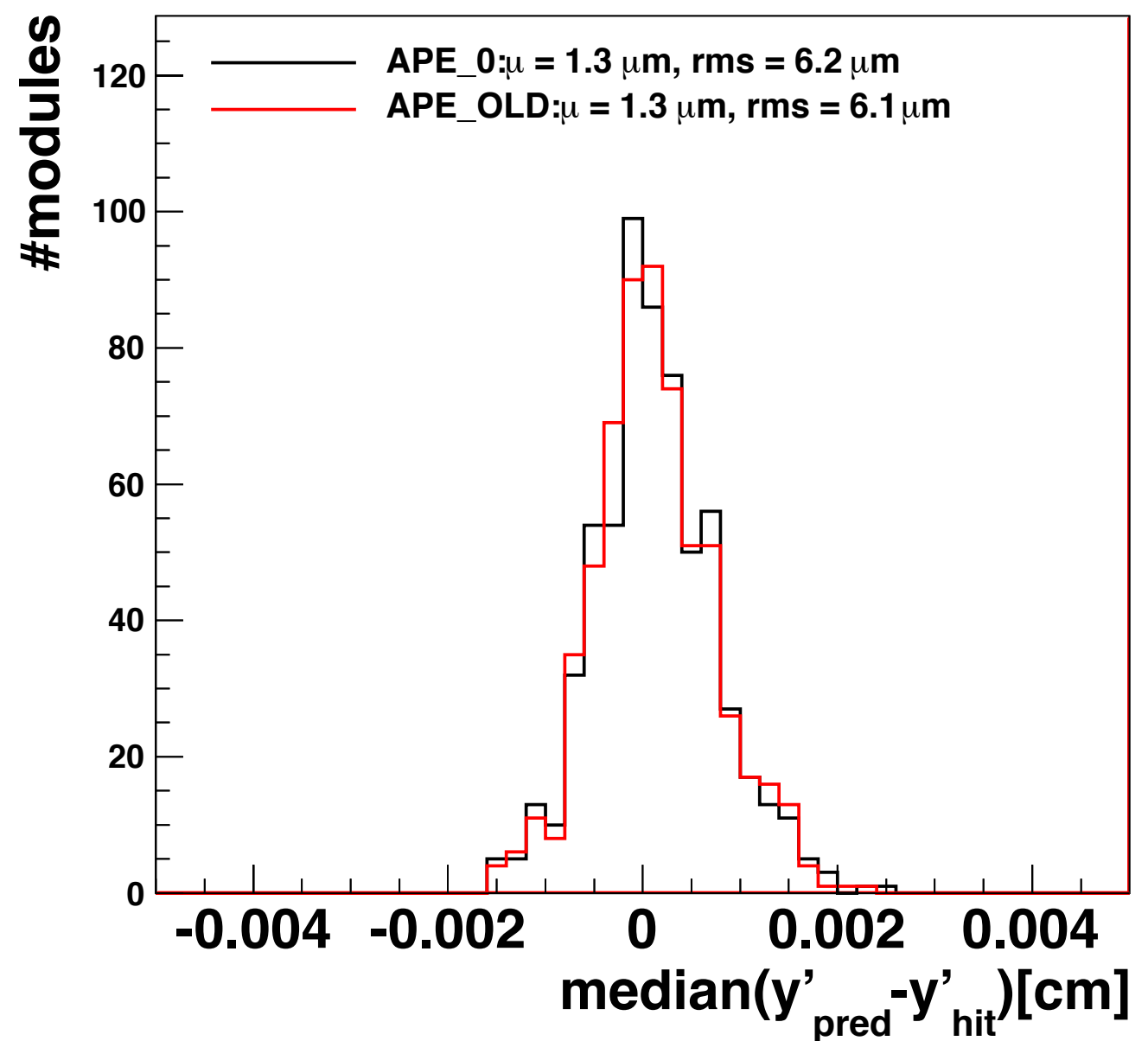
BPIX

Median: CRUZET (0T)

Distribution of the median of the residuals in TPB



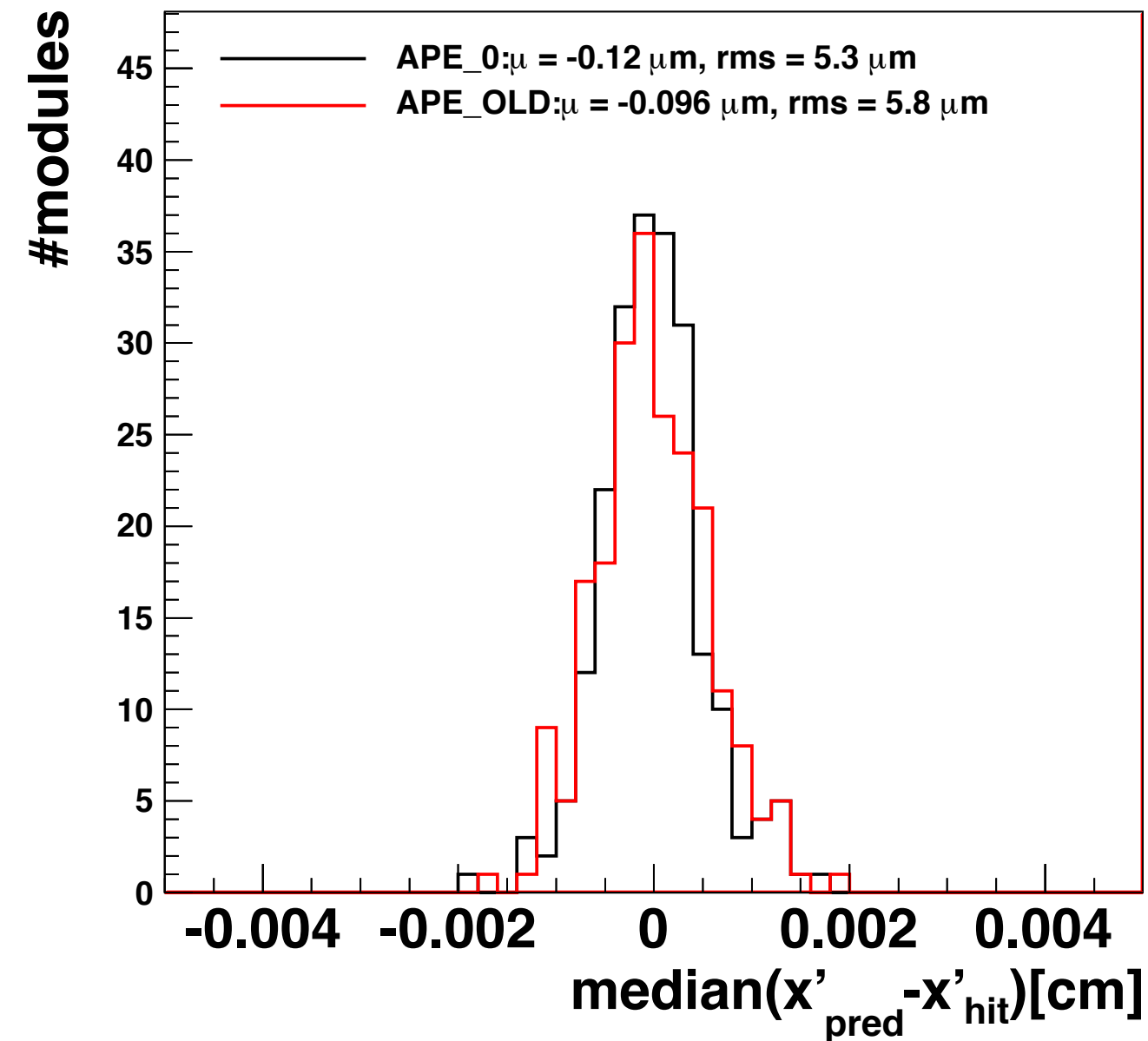
Distribution of the median of the y residuals in TPB



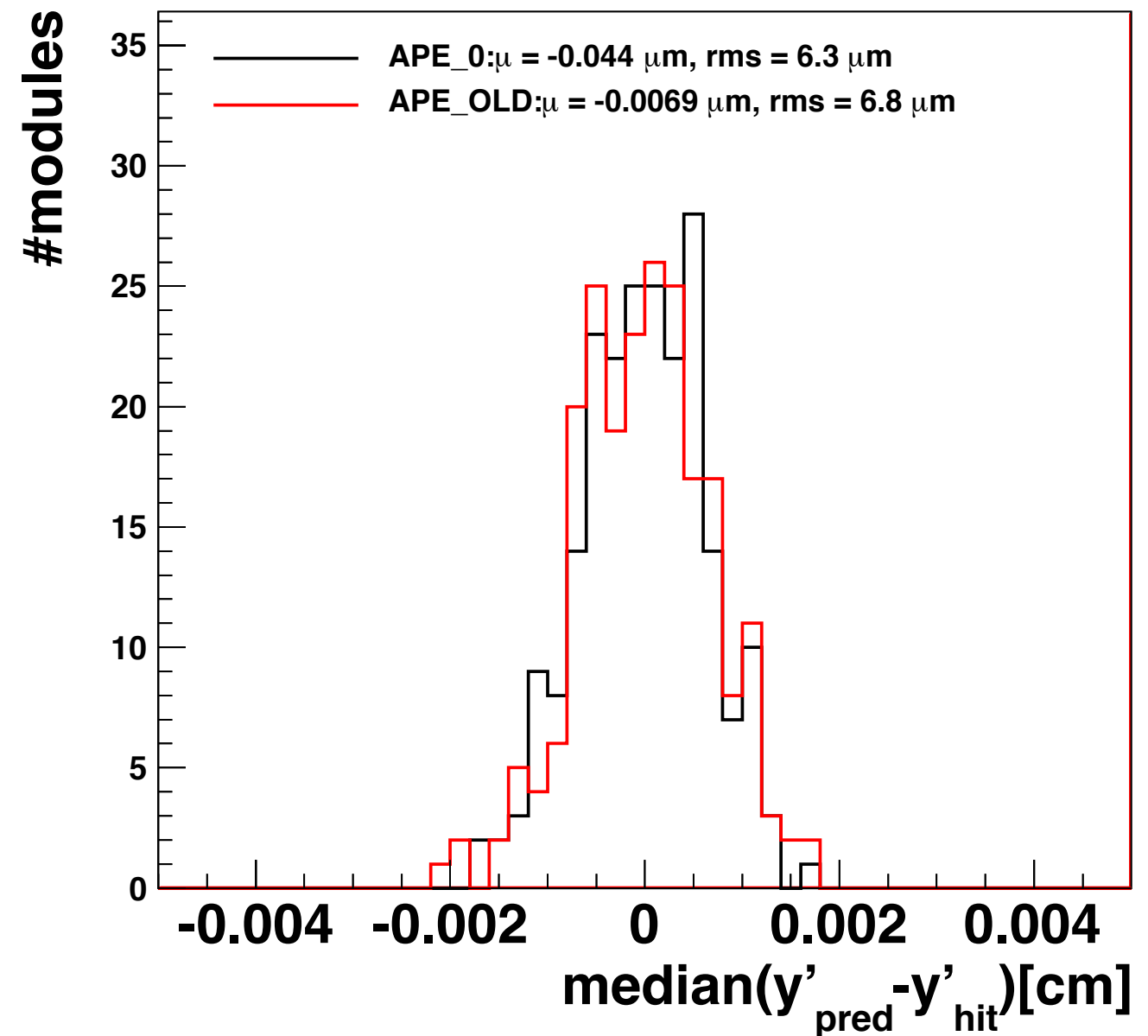
BPIX

Median: CRAFT12 (3.8T)

Distribution of the median of the residuals in TPE



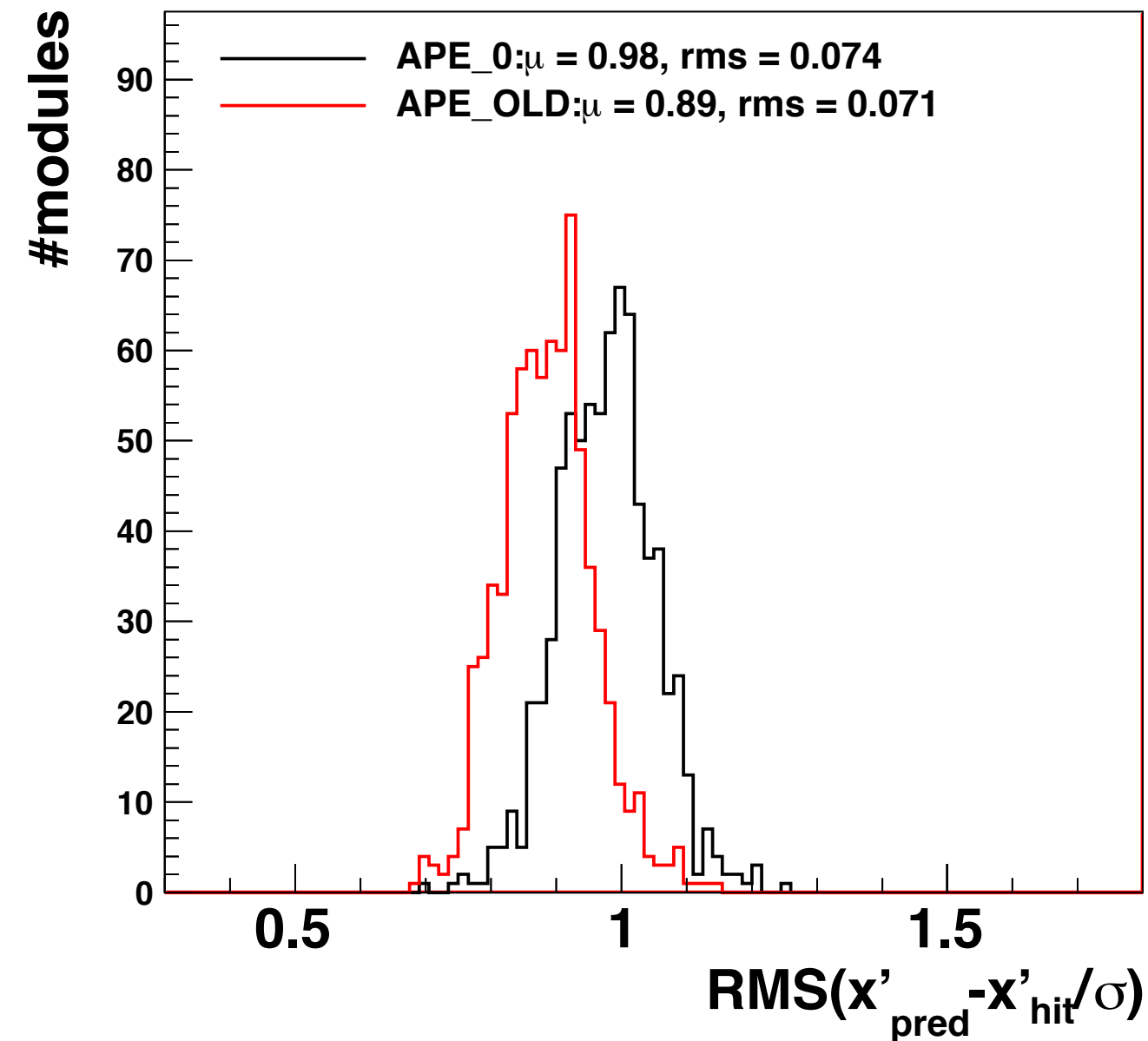
Distribution of the median of the y residuals in TPE



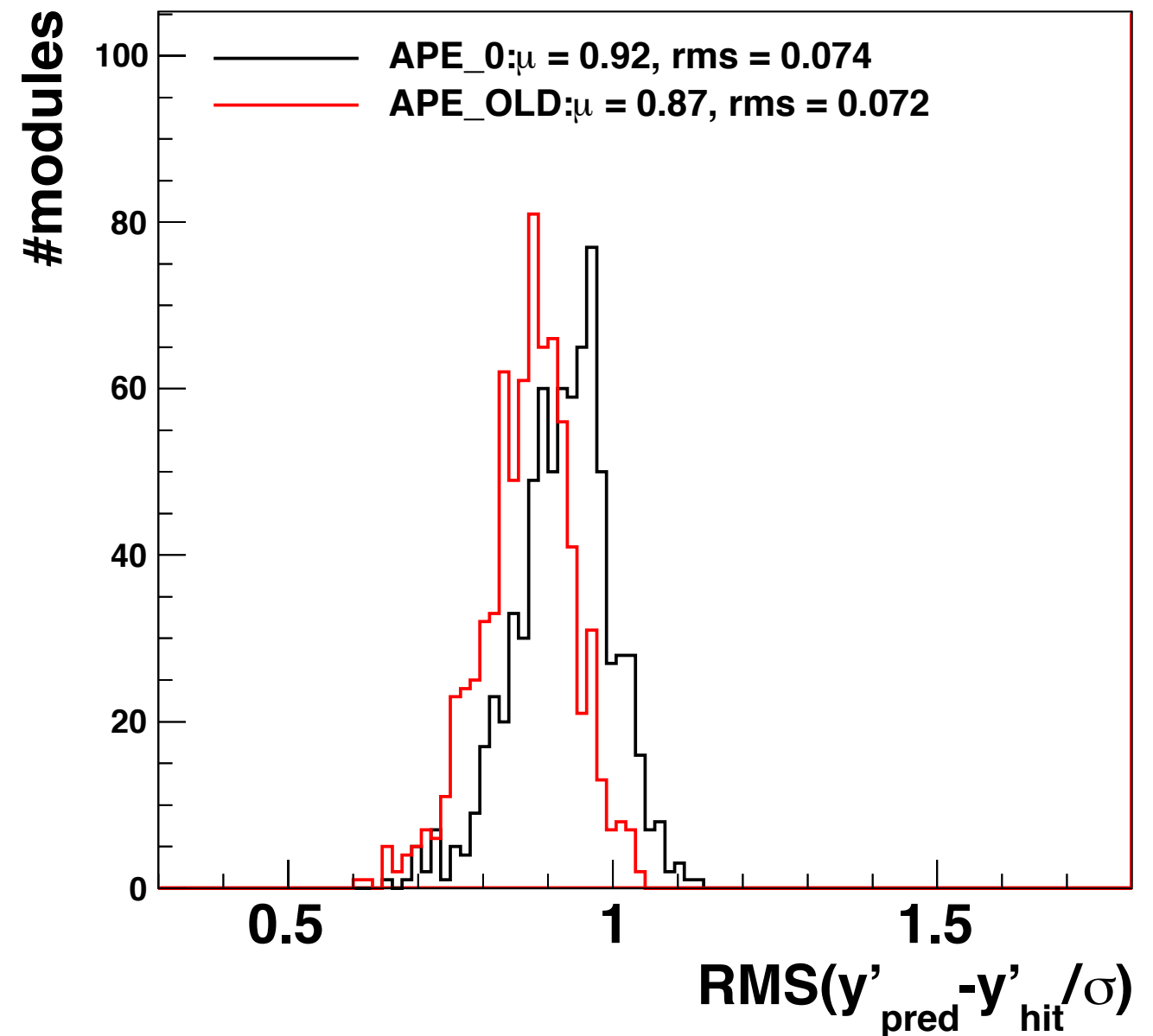
FPIX

RmsNorm: CRAFT12 (3.8T)

Pixel Barrel



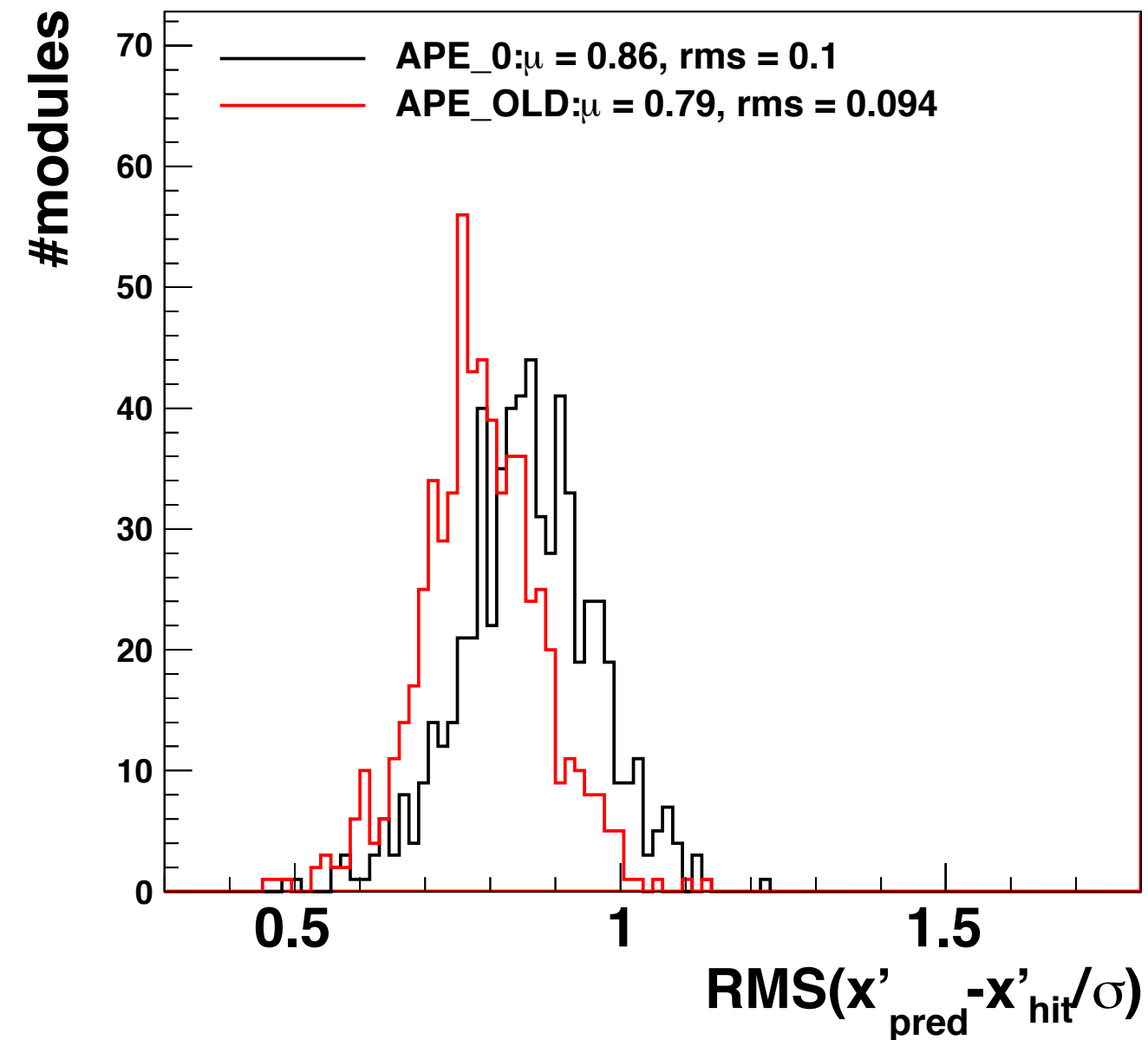
Pixel Barrel



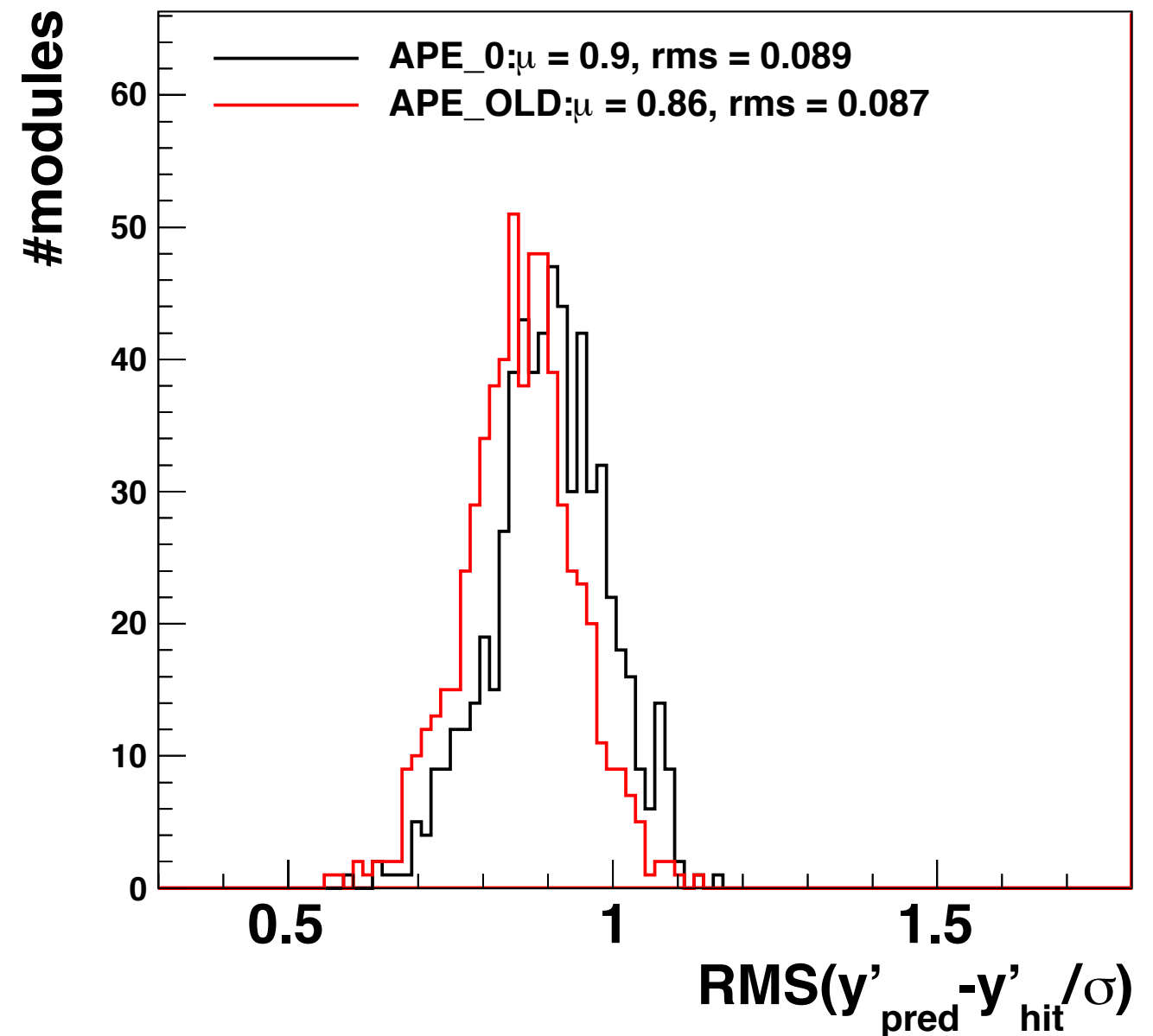
BPIX

RmsNorm: CRUZET (0T)

Pixel Barrel



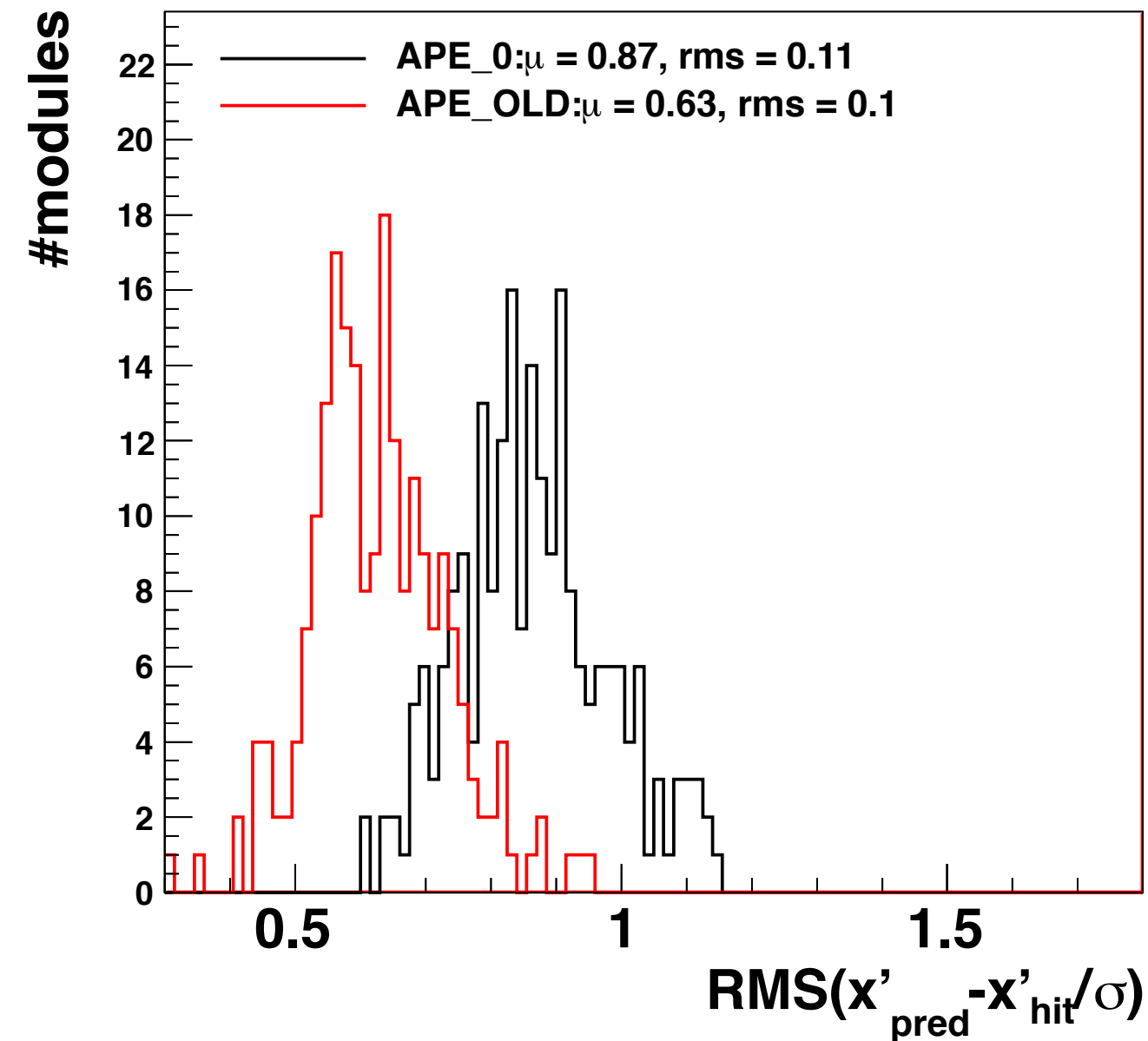
Pixel Barrel



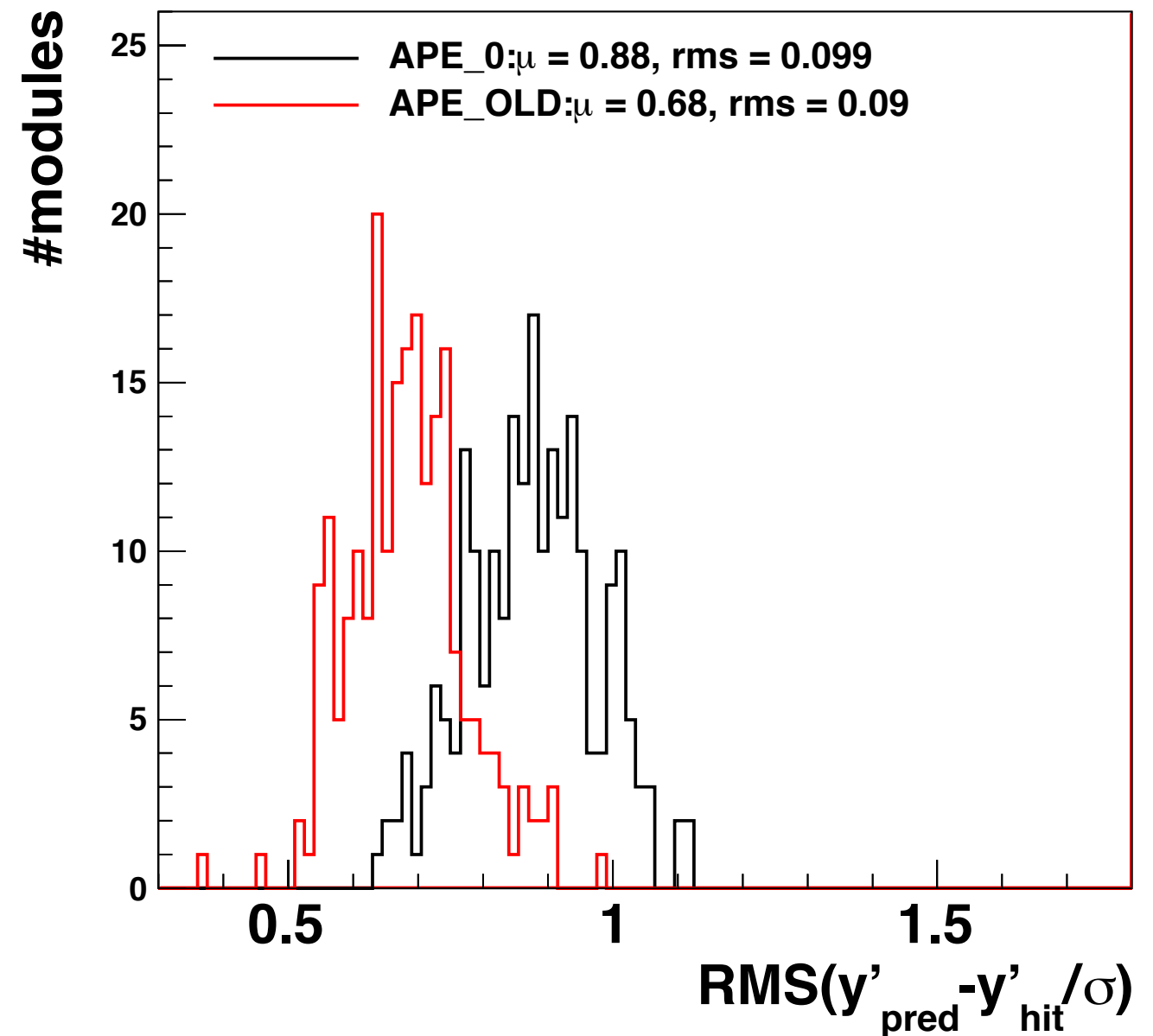
BPIX

RmsNorm: CRAFT12 (3.8T)

Pixel Endcap



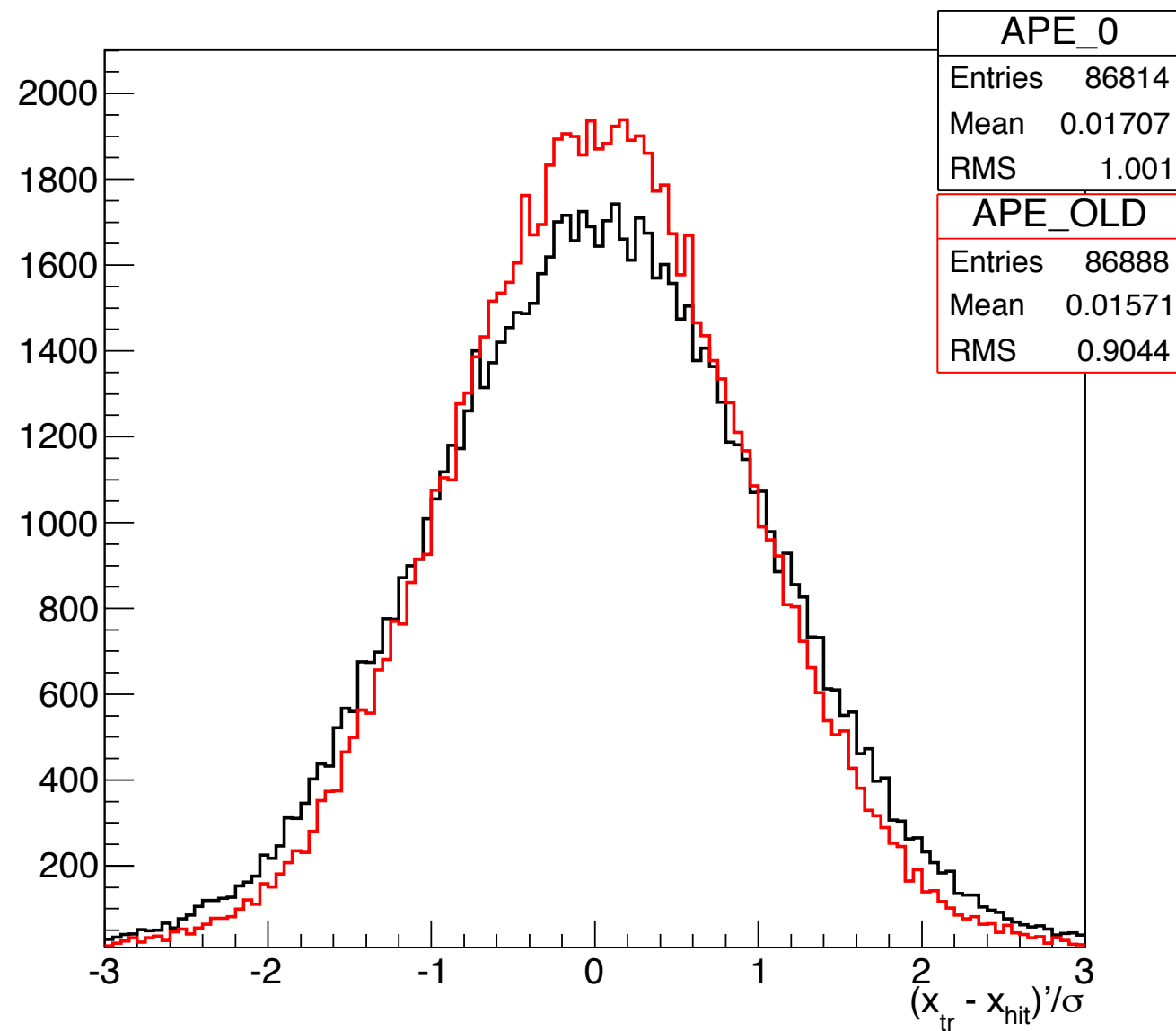
Pixel Endcap



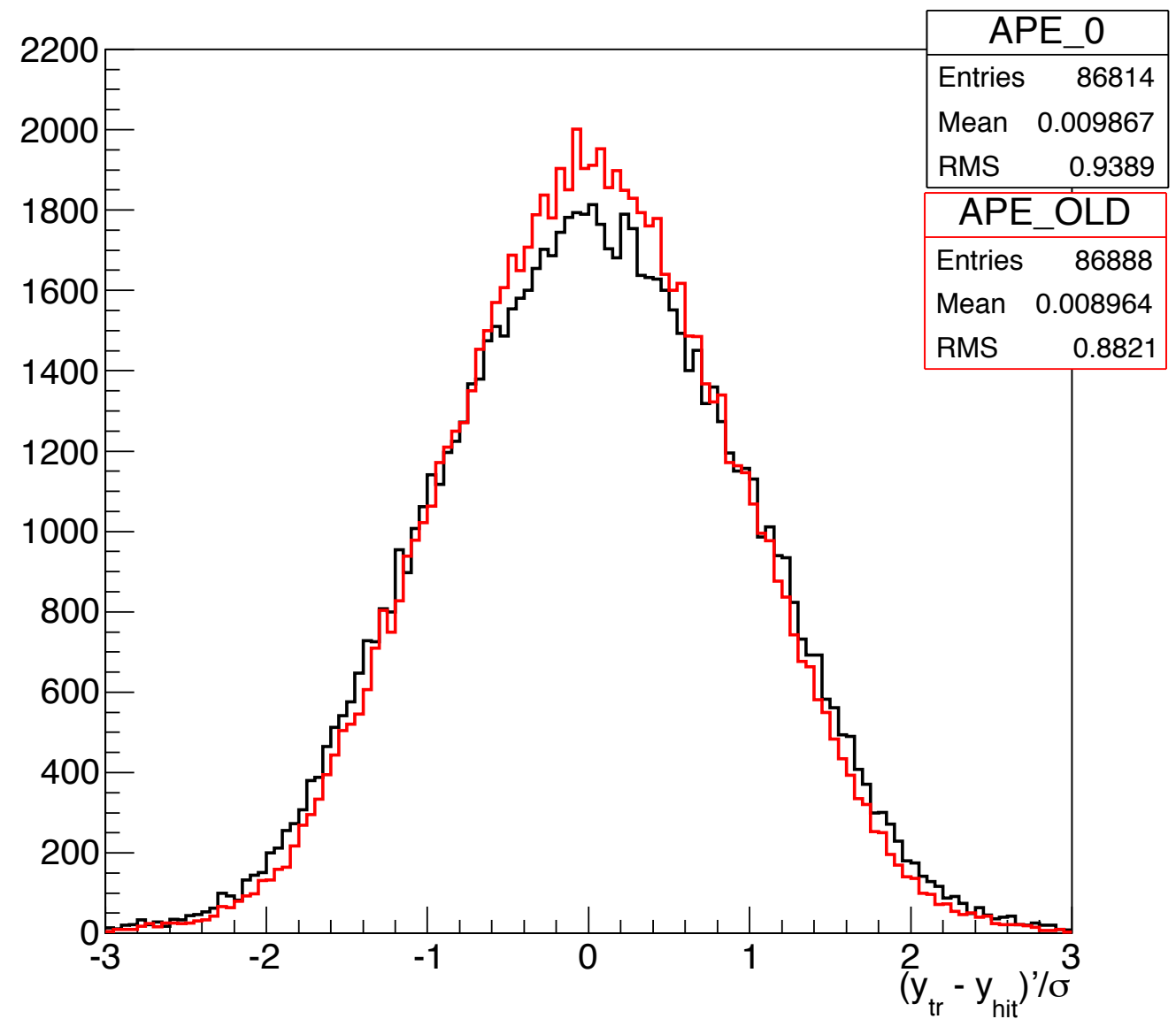
FPIX

ResidNorm: CRAFT12 (3.8T)

Residual for TPBBarrel 1 in Pixel



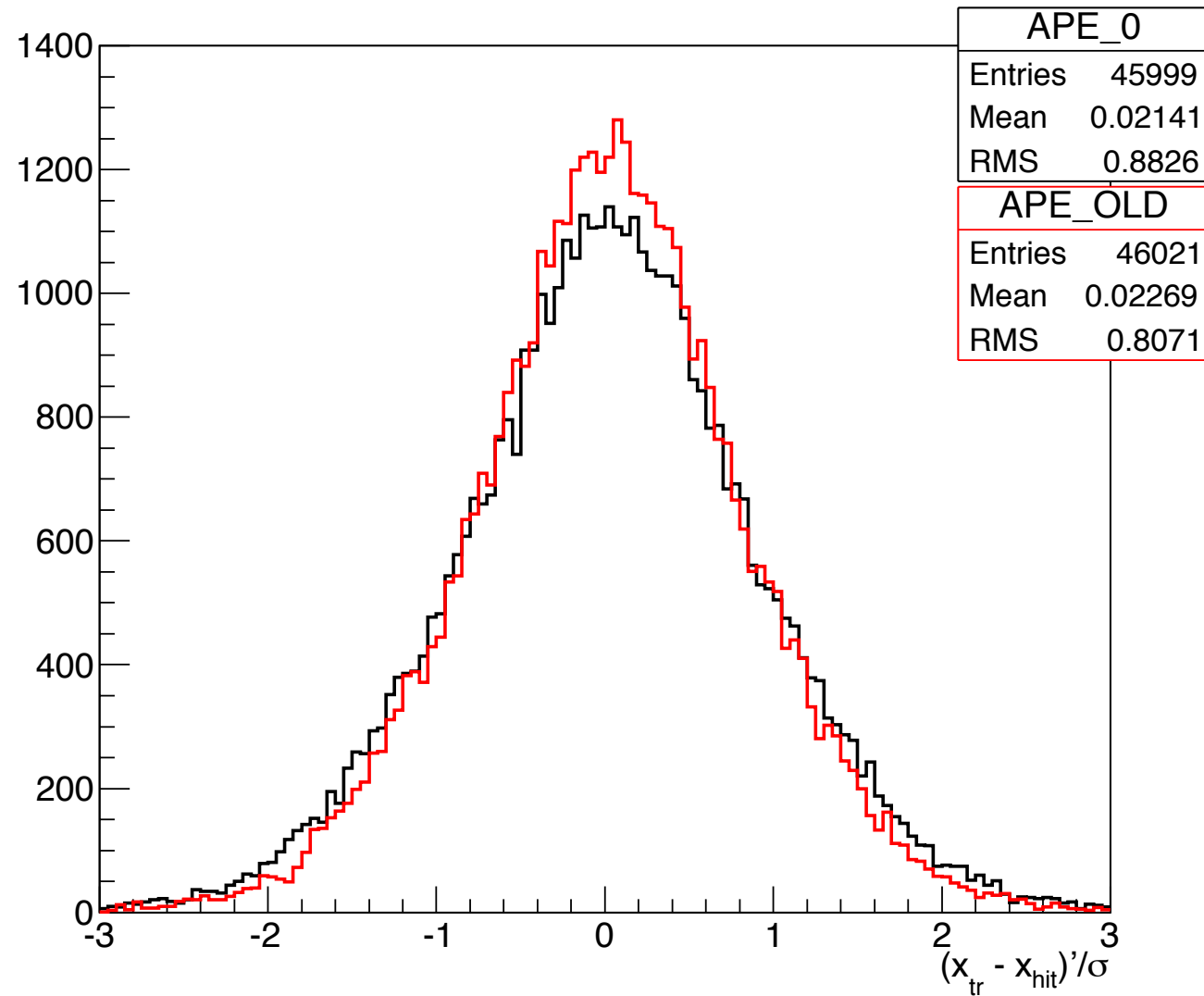
Residual for TPBBarrel 1 in Pixel



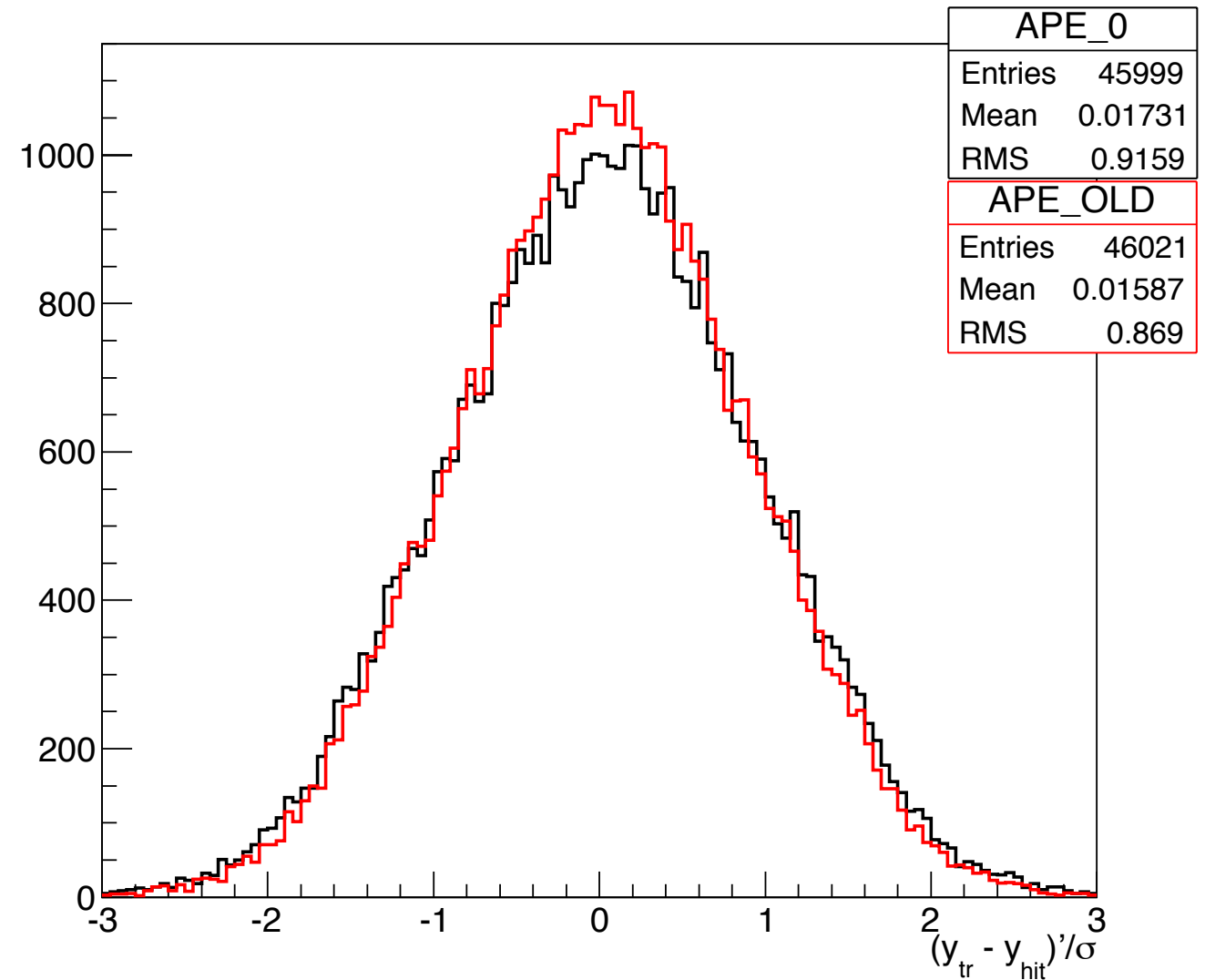
BPIX

ResidNorm: CRUZET (0T)

Residual for TPBBarrel 1 in Pixel



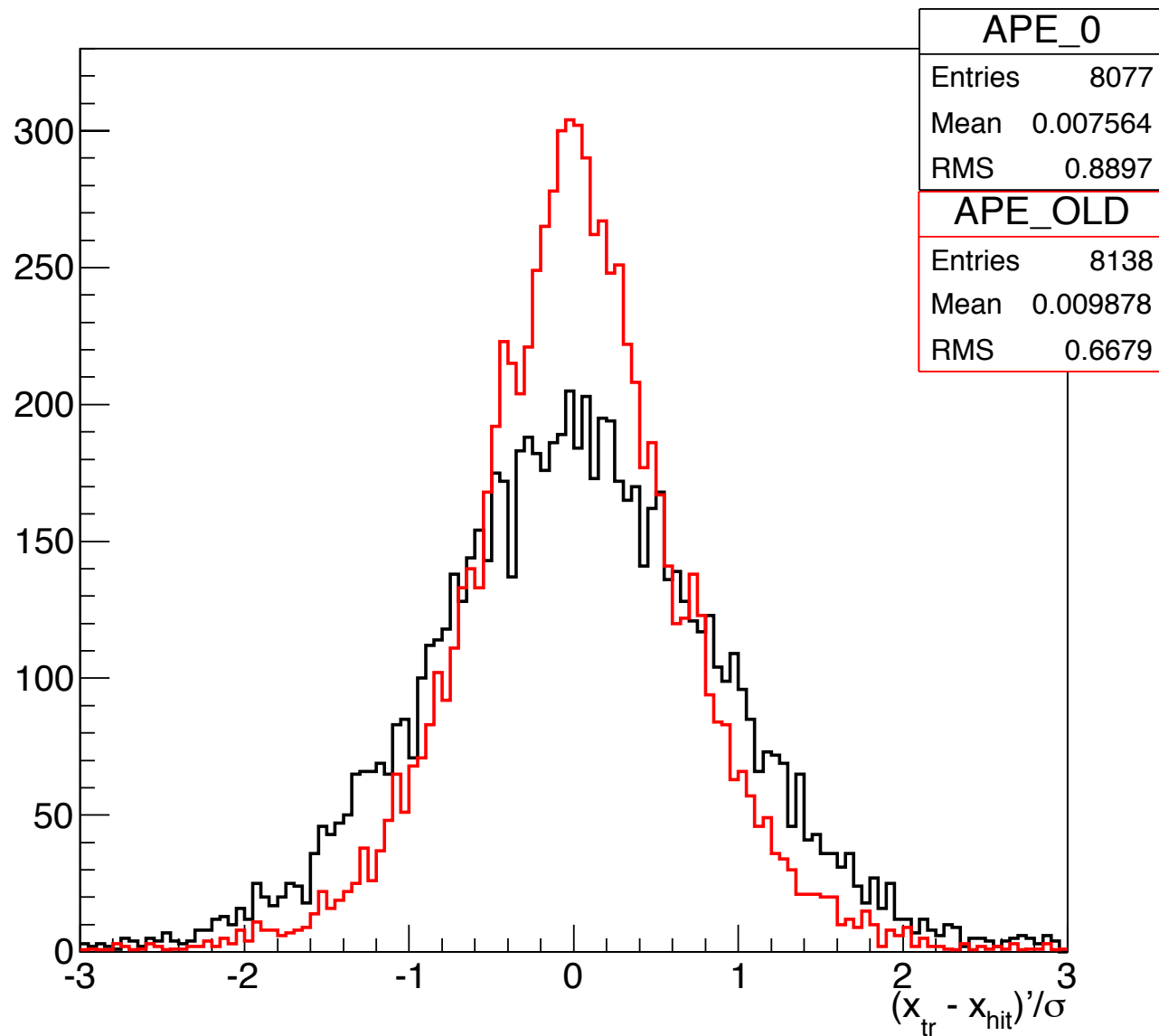
Residual for TPBBarrel 1 in Pixel



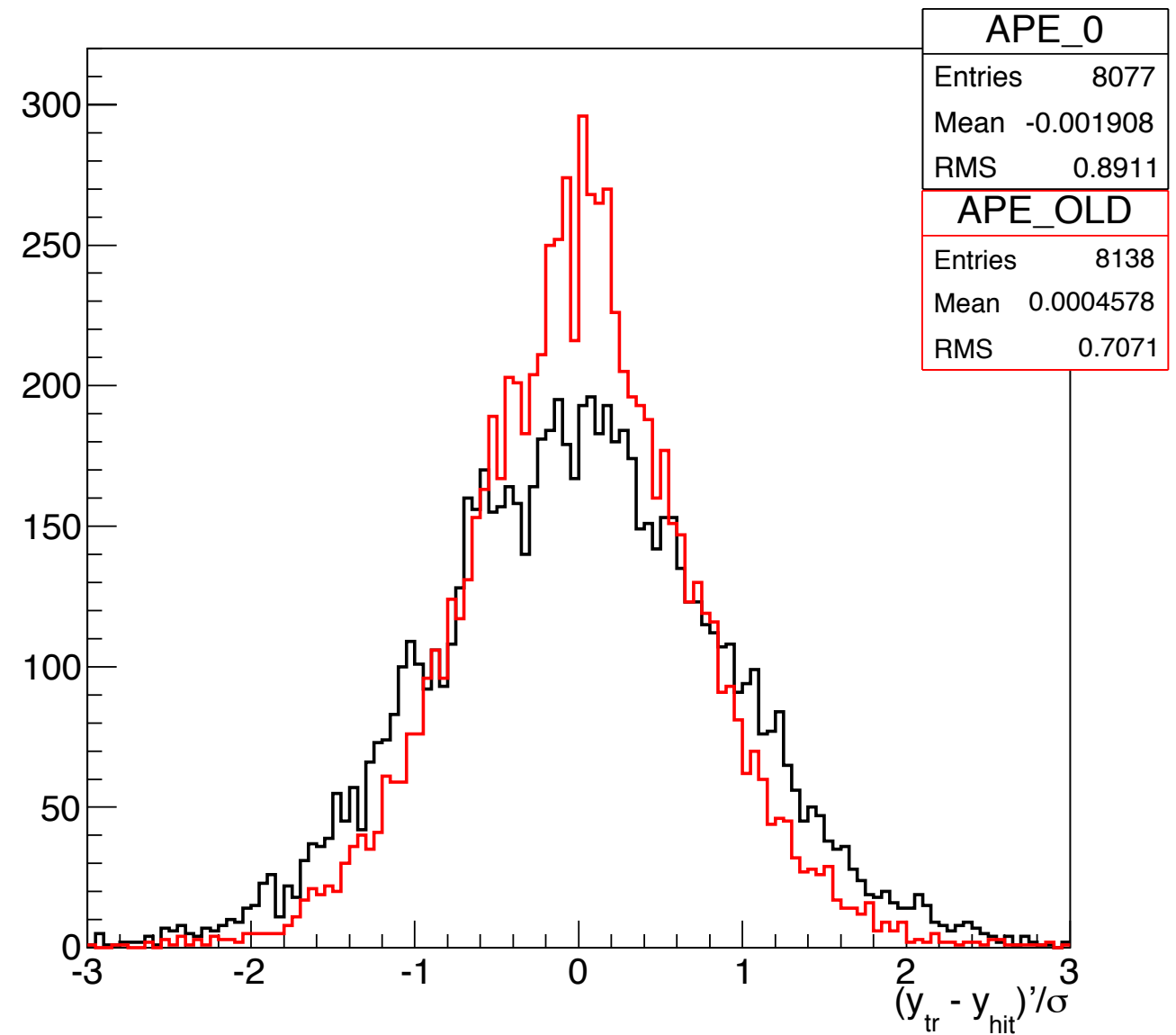
BPIX

ResidNorm: CRAFT12 (3.8T)

Residual for TPEEndcap 3 in Pixel



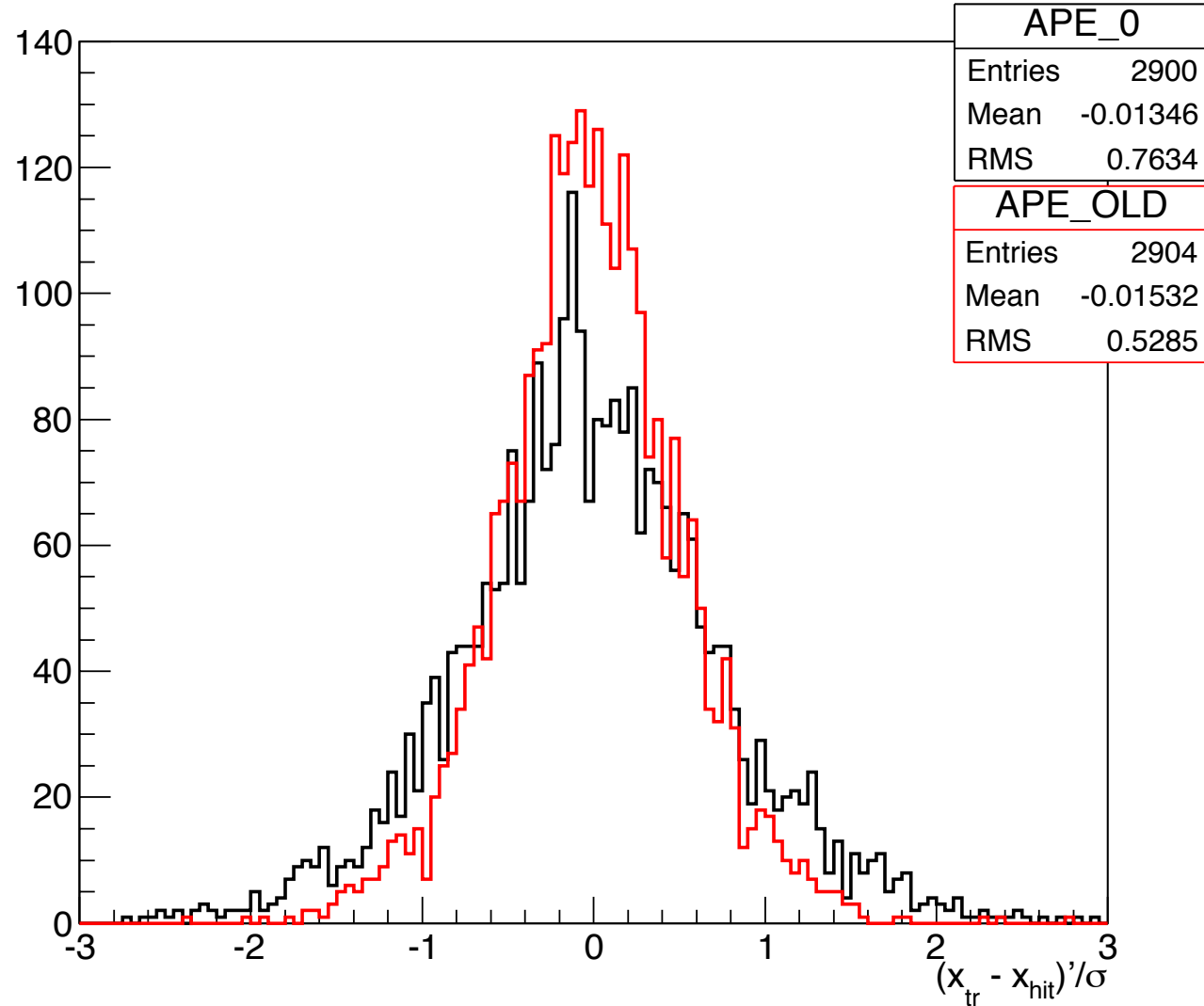
Residual for TPEEndcap 3 in Pixel



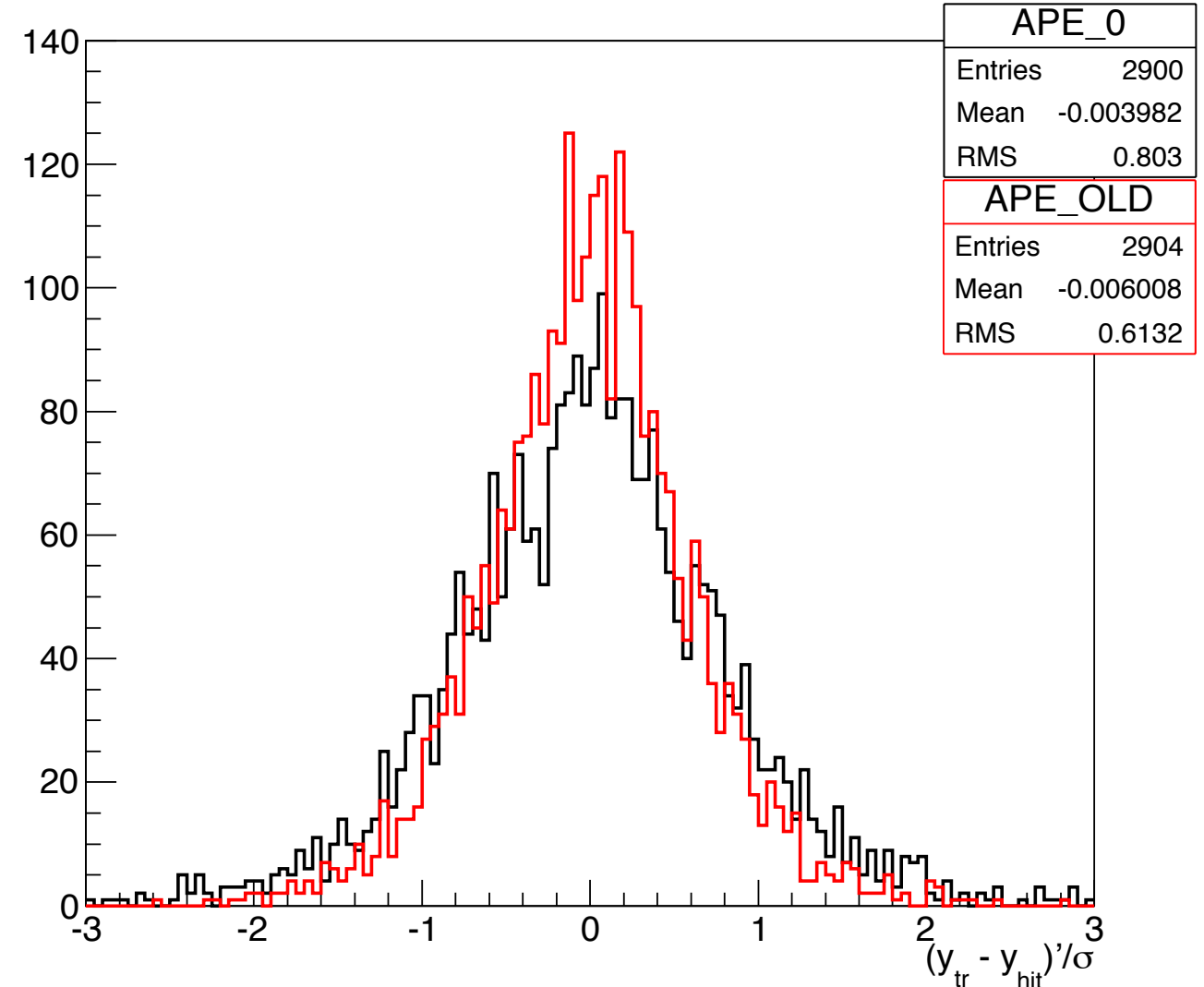
FPIX

ResidNorm: CRUZET (0T)

Residual for TPEEndcap 3 in Pixel



Residual for TPEEndcap 3 in Pixel



FPIX