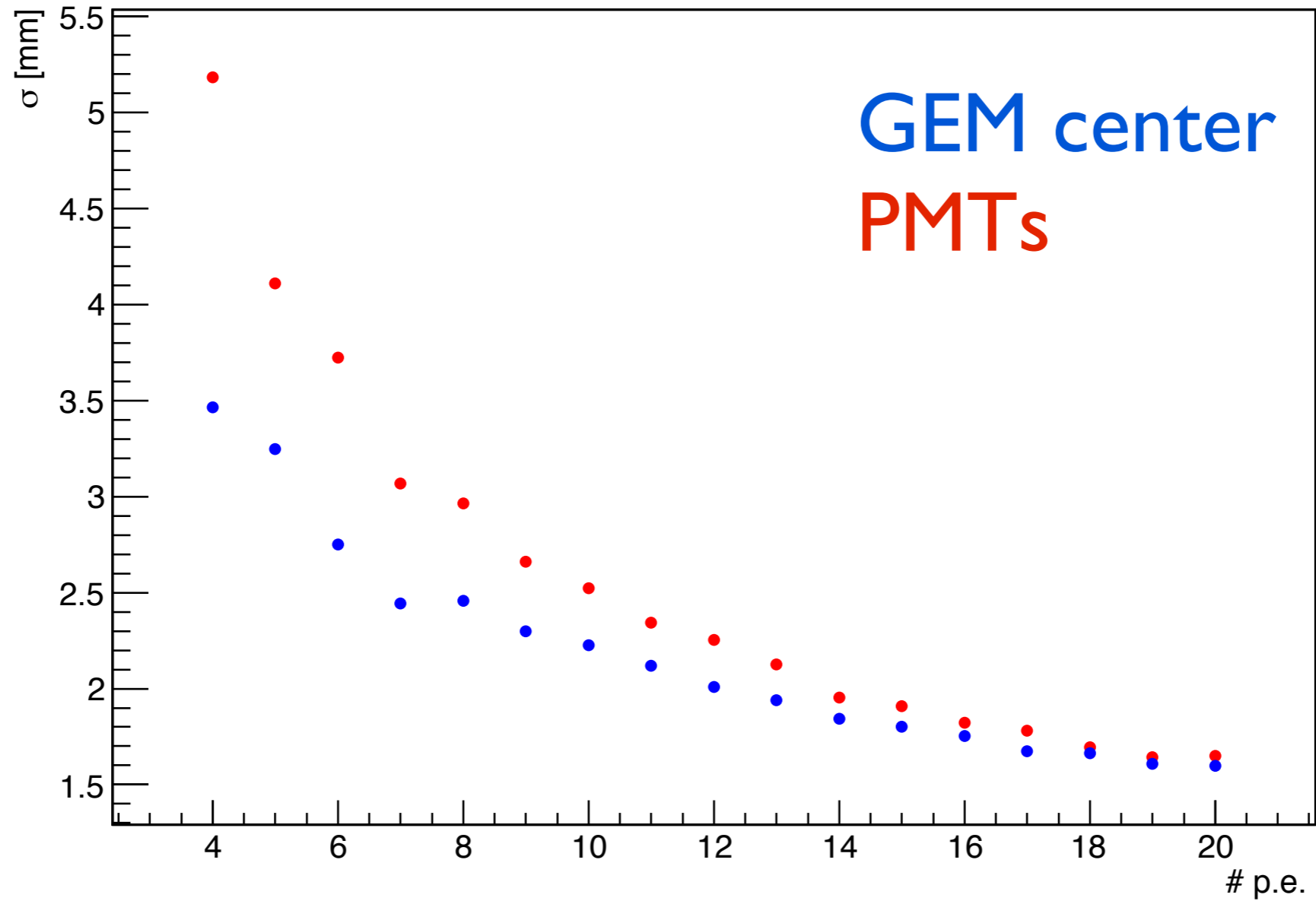


Reflected light: Fits with fixed center

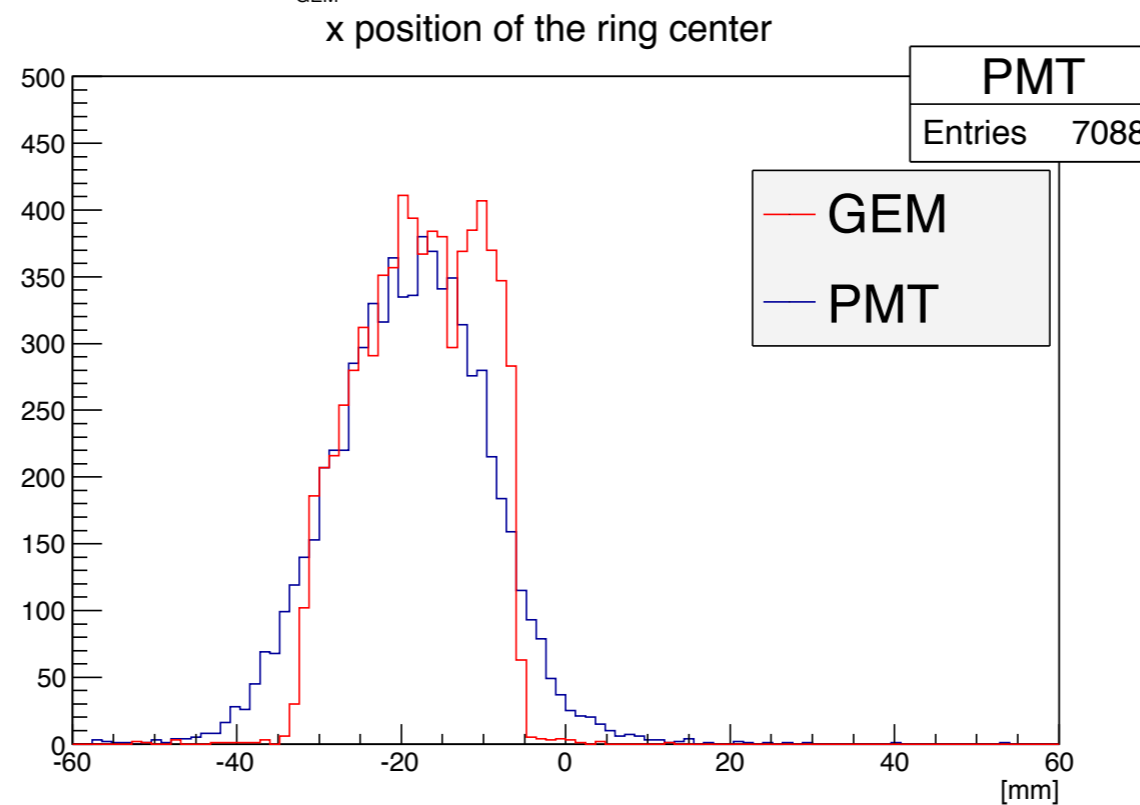
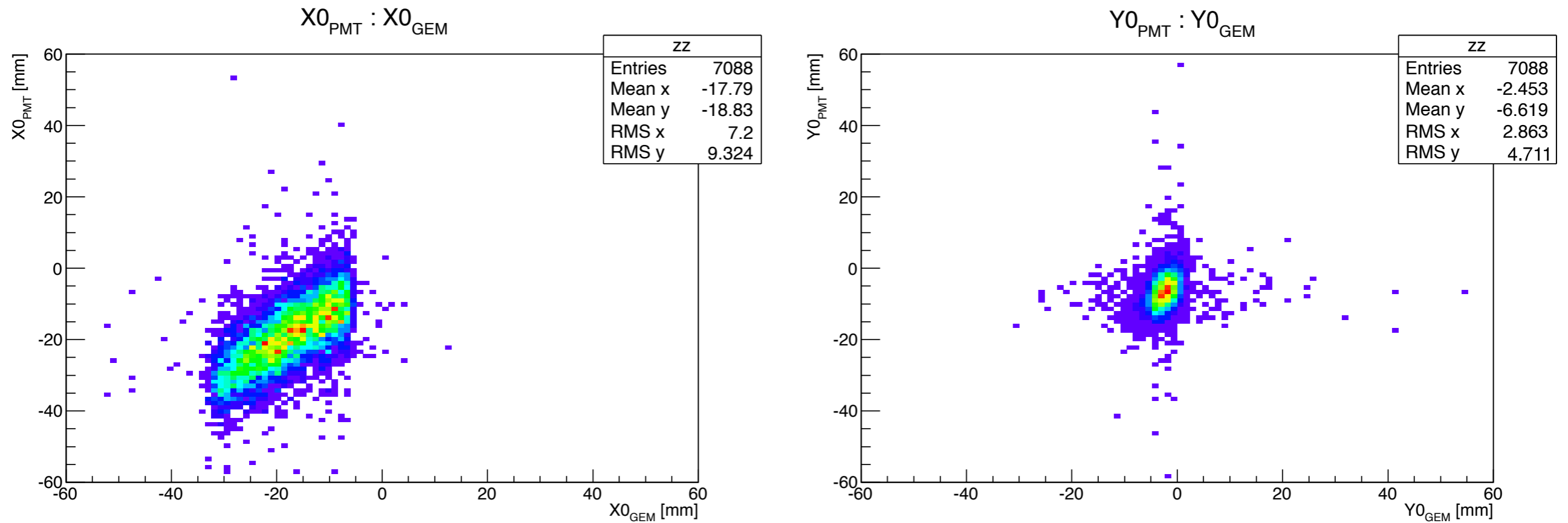
L. Barion, M. Contalbrigo, P. Lenisa,
A. Movsisyan, L. Pappalardo
INFN Ferrara

RICH Meeting
31.05.2013

Improvement from GEM in the case direct light

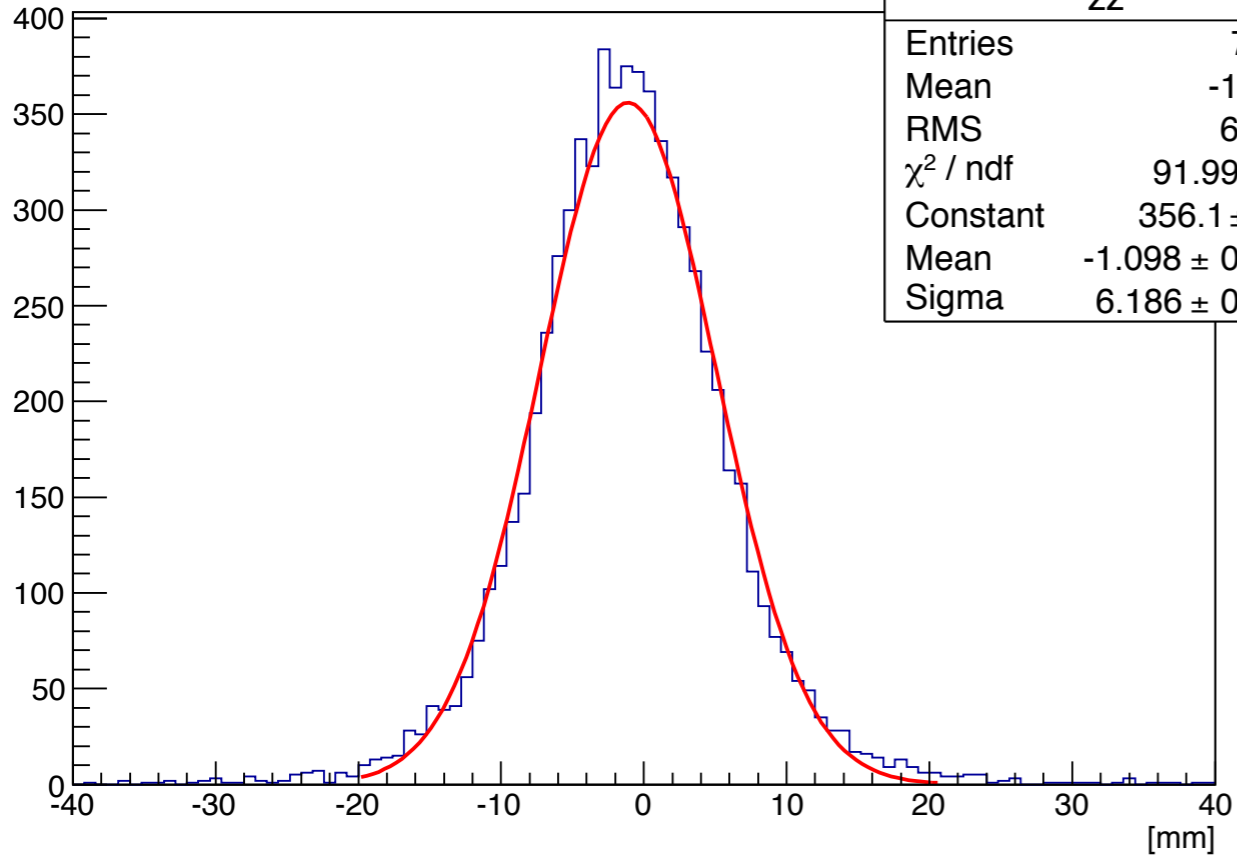


X and Y positions of the ring center from PMTs and GEM



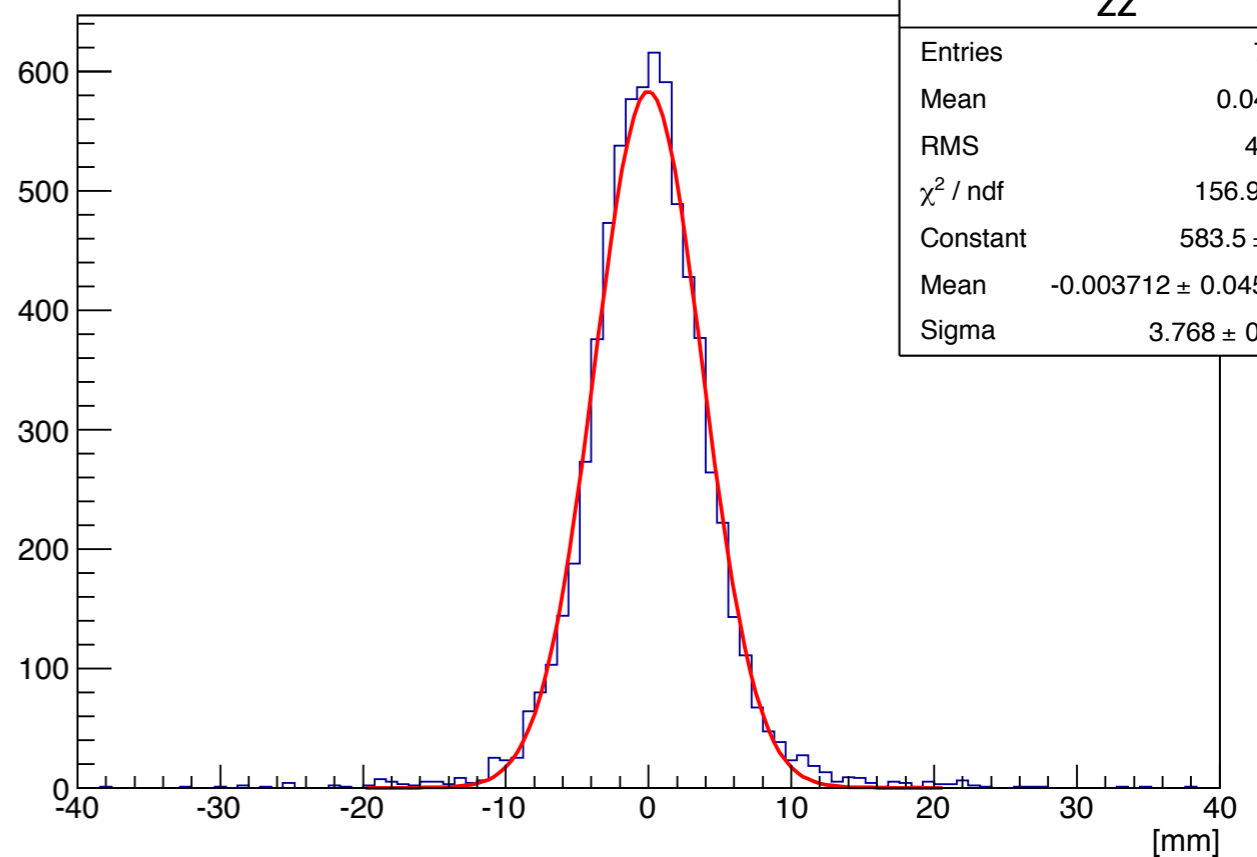
PMT - GEM for the ring center coordinates

$X0_{\text{PMT}} - X0_{\text{GEM}}$



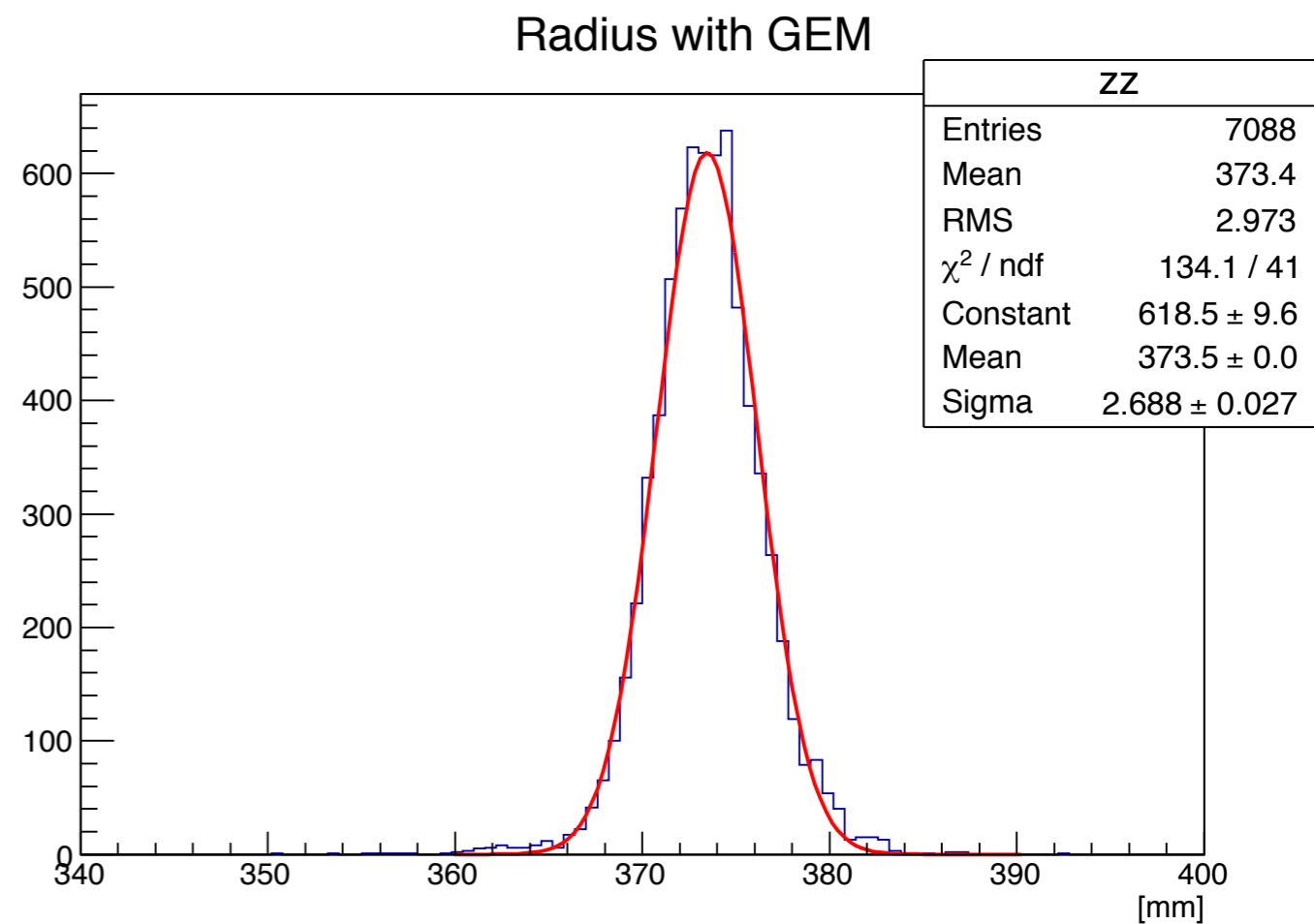
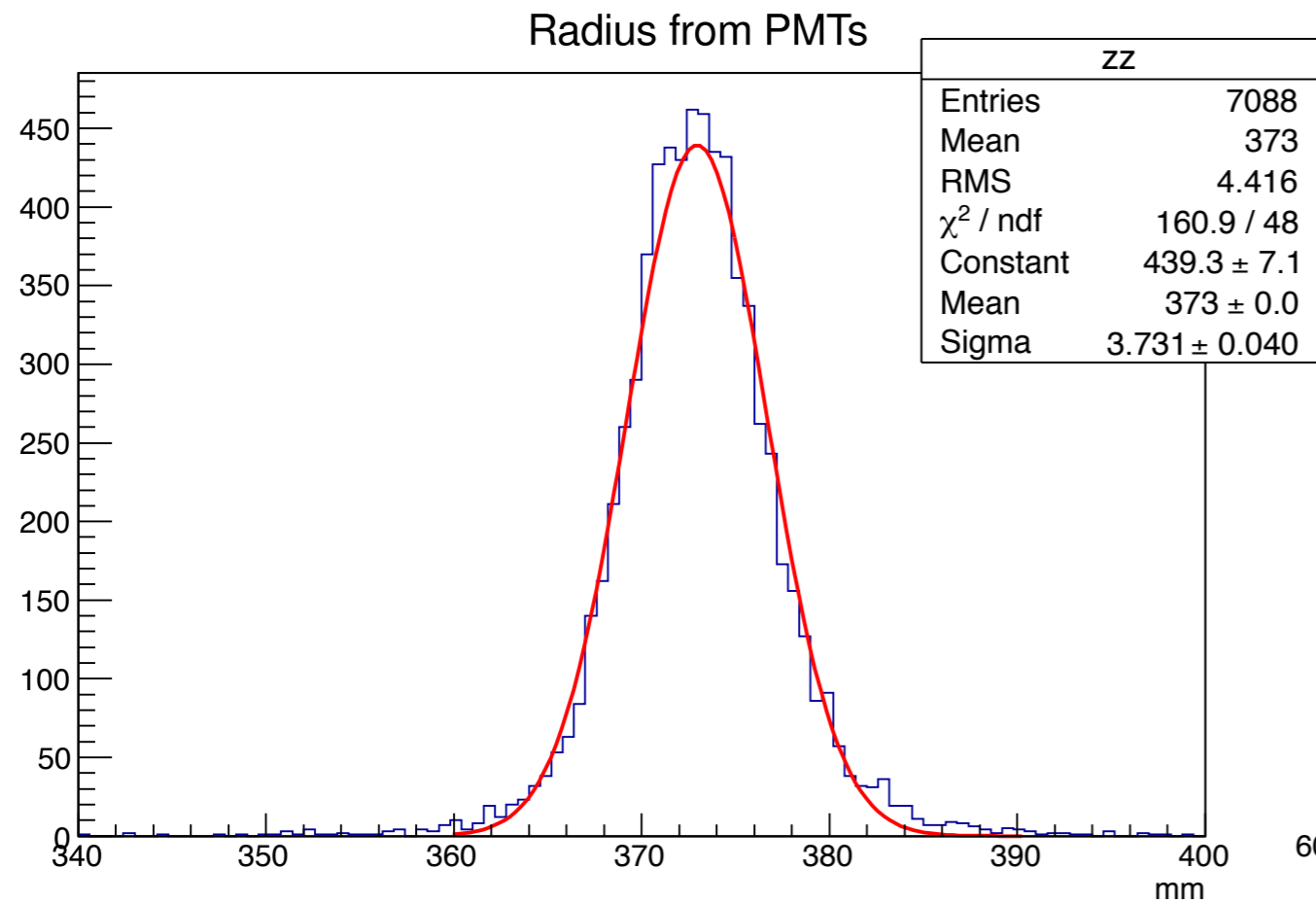
ZZ	
Entries	7088
Mean	-1.069
RMS	6.983
χ^2 / ndf	91.99 / 48
Constant	356.1 ± 5.7
Mean	-1.098 ± 0.075
Sigma	6.186 ± 0.066

$Y0_{\text{PMT}} - Y0_{\text{GEM}}$



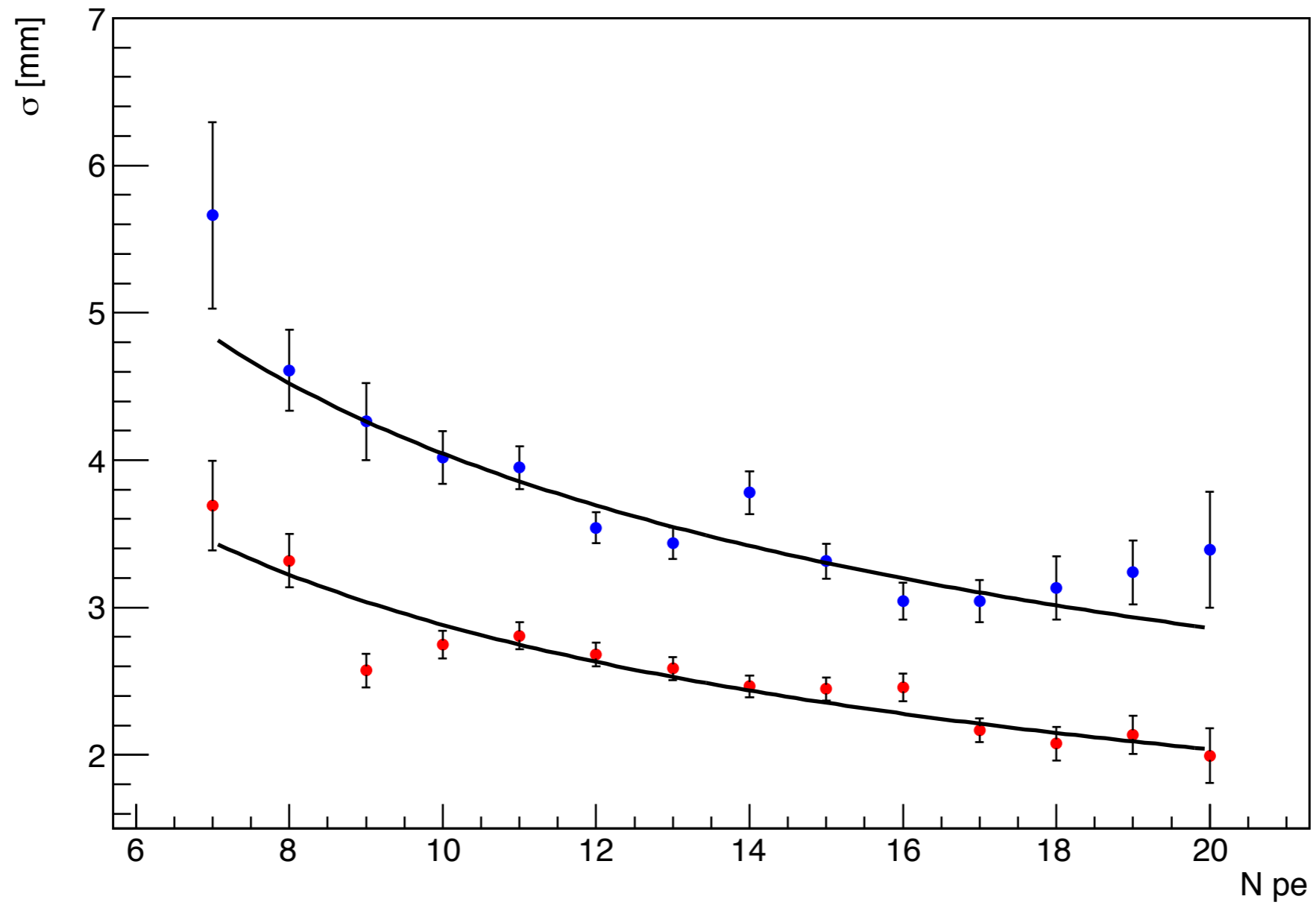
ZZ	
Entries	7088
Mean	0.04754
RMS	4.546
χ^2 / ndf	156.9 / 48
Constant	583.5 ± 9.2
Mean	-0.003712 ± 0.045435
Sigma	3.768 ± 0.039

Comparison of radius distributions

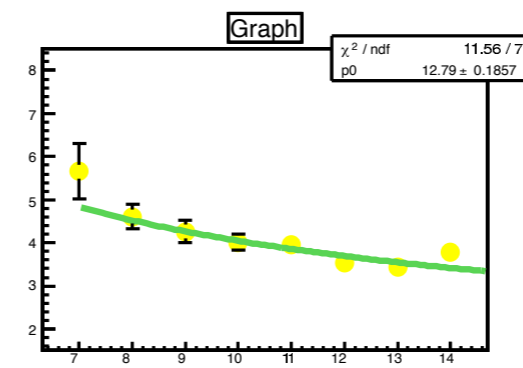
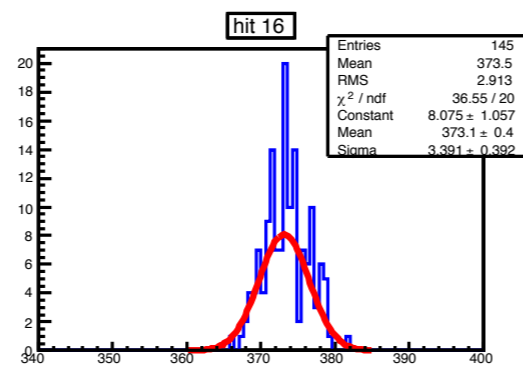
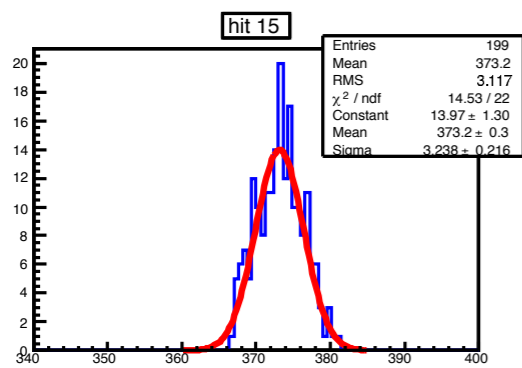
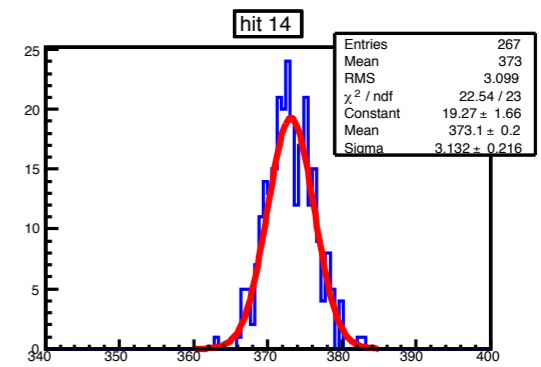
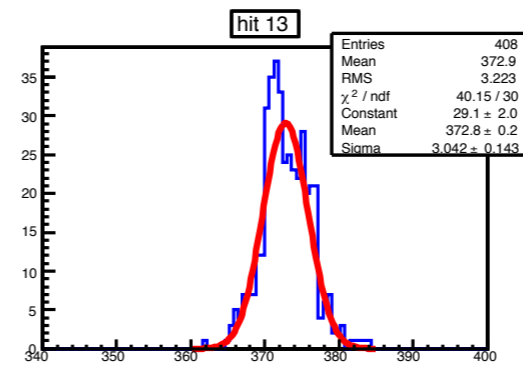
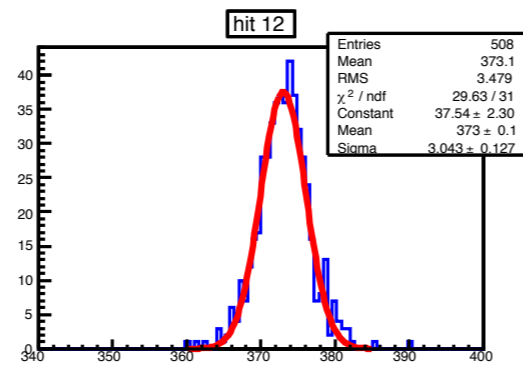
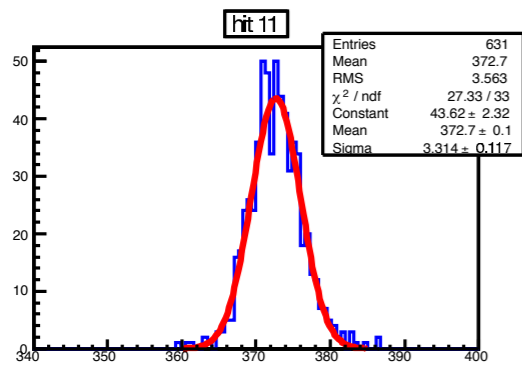
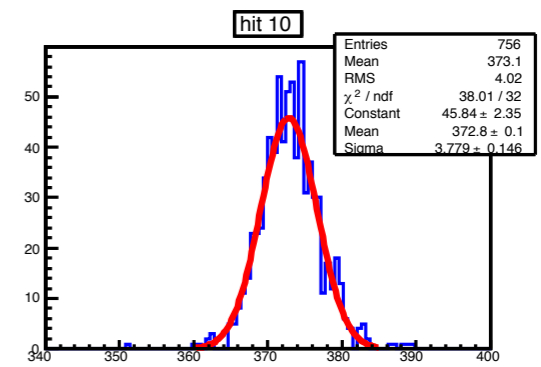
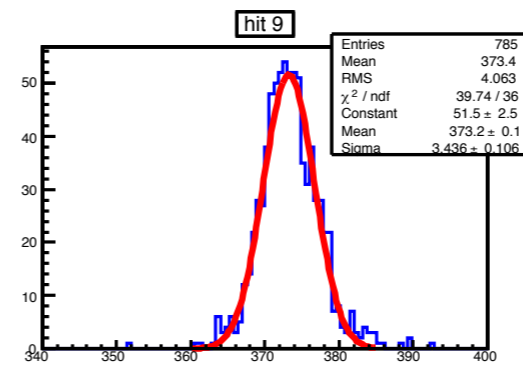
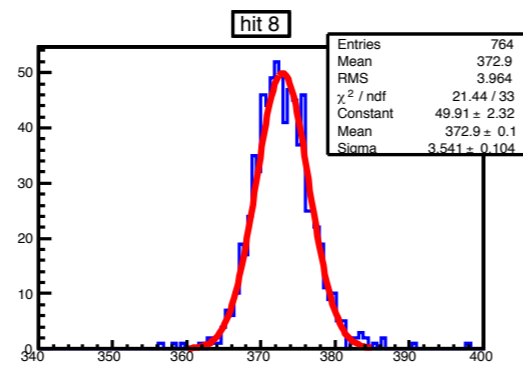
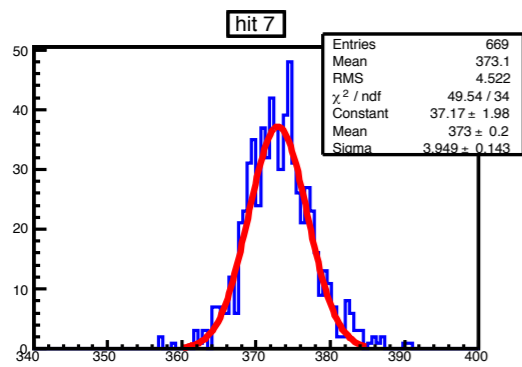
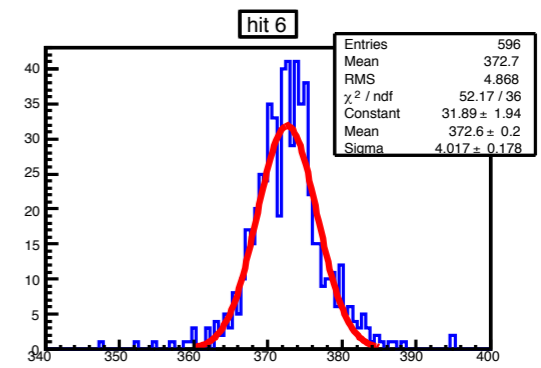
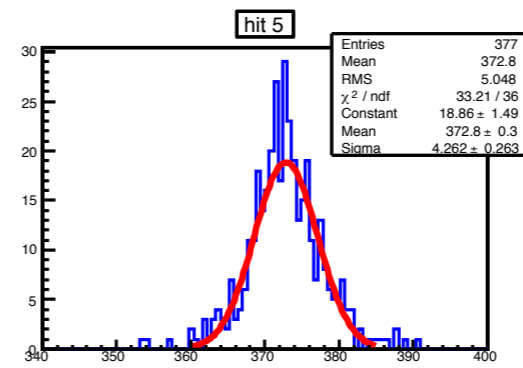
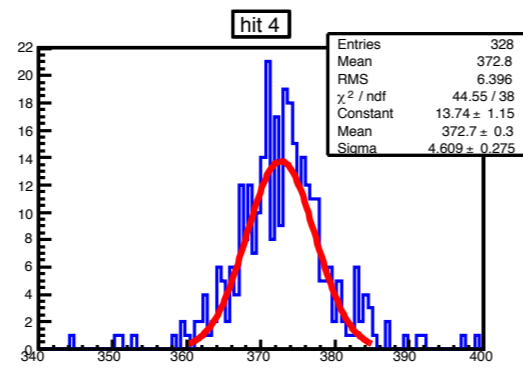
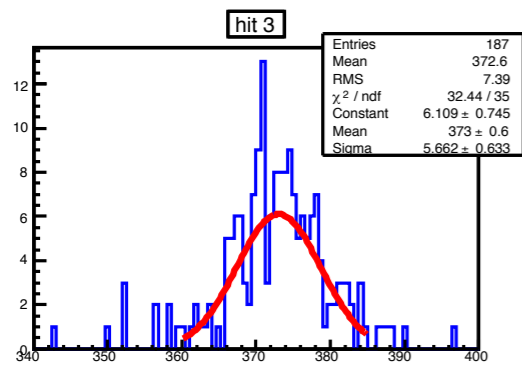


Width of the radius vs N pe

Graph



Fits from PMTs



Fits from GEM

