Signal in pure DC pixel without shower

Distribution of QDC-reconstructed Events

Distribution of BDT-reconstructed Events

Distribution of BDT-reconstructed Events, after cuts

We have 1245 events. Of these, there are 1090 triggered images.
In total, 62 pixels are correctly identified using QDC method. Method Identified 5.7 % of all images.
In total, 329 pixels are correctly identified using BDT method. Method Identified 30.2 % of all images.

Our QDC cut requires QDC < 0.14 log(Itot / 161 cos(theta)), leaving 178 images.
Of these, 62 are correctly identified images.
Successful ID rate after cut is 34.8 % Fraction of target pixels correctly identified is 5.7 %
Additionally requiring multiplicity > 3 , we have 0 images .
Of these, 0 are correctly identified images.

Our BDT cut requires Signal Probability > 0.5 , we have 484 images.
Of these, 260 are correctly identified images.
 Successful ID rate after cut is 53.7 % Fraction of target pixels correctly identified is 23.9 %
Additionally requiring signal > 150 , we have 345 images.
Of these, 253 are correctly identified images.
 Successful ID rate after cut is 73.3 % Fraction of target pixels correctly identified is 23.2 %
Additionally requiring multiplicity > 3 , we have 305 images .
Of these, 227 are correctly identified images.
 Successful ID rate after cut is 74.4 % Fraction of target pixels correctly identified is 20.8 %

Distribution of BDT-reconstructed Events, after cuts