Signal in pure DC pixel without shower

Distribution of QDC-reconstructed Events

Distribution of BDT-reconstructed Events

Distribution of BDT-reconstructed Events, after cuts

Distribution of BDT-reconstructed Events, after cuts

We have 1245 events. Of these, there are 4911 triggered images.
In total, 257 pixels are correctly identified using QDC method. Method Identified 5.2 % of all images.
In total, 2960 pixels are correctly identified using BDT method. Method Identified 60.3 % of all images.

Our QDC cut requires QDC < 0.14 log(Itot / 161 cos(theta)), leaving 298 images.
 Of these, 257 are correctly identified images.
 Successful ID rate after cut is 86.2 % Fraction of target pixels correctly identified is 5.2 %
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 2694 images.
Of these, 2144 are correctly identified images.
 Successful ID rate after cut is 79.6 % Fraction of target pixels correctly identified is 43.7 %
Additionally requiring signal > 150 , we have 2157 images.
Of these, 1856 are correctly identified images.
 Successful ID rate after cut is 86.0 % Fraction of target pixels correctly identified is 37.8 %
Additionally requiring multiplicity > 3 , we have 1729 images .
 Of these, 1499 are correctly identified images.
 Successful ID rate after cut is 86.7 % Fraction of target pixels correctly identified is 30.5 %