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 198 events. Of these, there are 175 triggered images.
In total, 11 pixels are correctly identified using QDC method. Method Identified 6.3 % of all images.
In total, 54 pixels are correctly identified using BDT method. Method Identified 30.9 % of all images.

Our QDC cut requires QDC < 0.14 log(Itot / 161 cos(theta)), leaving 27 images.
Of these, 11 are correctly identified images.
Successful ID rate after cut is 40.7 % Fraction of target pixels correctly identified is 6.3 %
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 59 images.
Of these, 39 are correctly identified images.
 Successful ID rate after cut is 66.1 % Fraction of target pixels correctly identified is 22.3 %
Additionally requiring signal > 150 , we have 48 images.
Of these, 39 are correctly identified images.
 Successful ID rate after cut is 81.2 % Fraction of target pixels correctly identified is 22.3 %
Additionally requiring multiplicity > 3 , we have 39 images .
 Of these, 31 are correctly identified images.
 Successful ID rate after cut is 79.5 % Fraction of target pixels correctly identified is 17.7 %

Distribution of BDT-reconstructed Events, after cuts