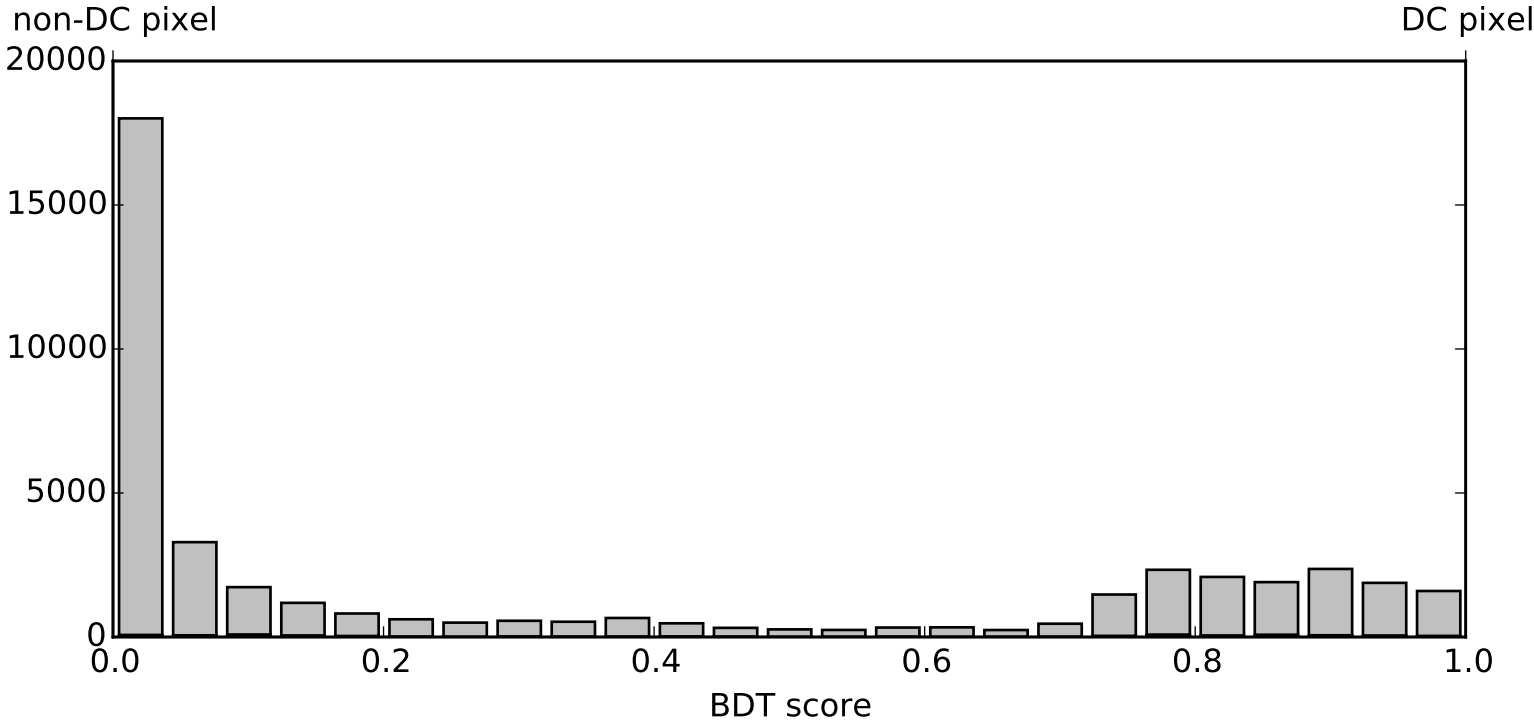
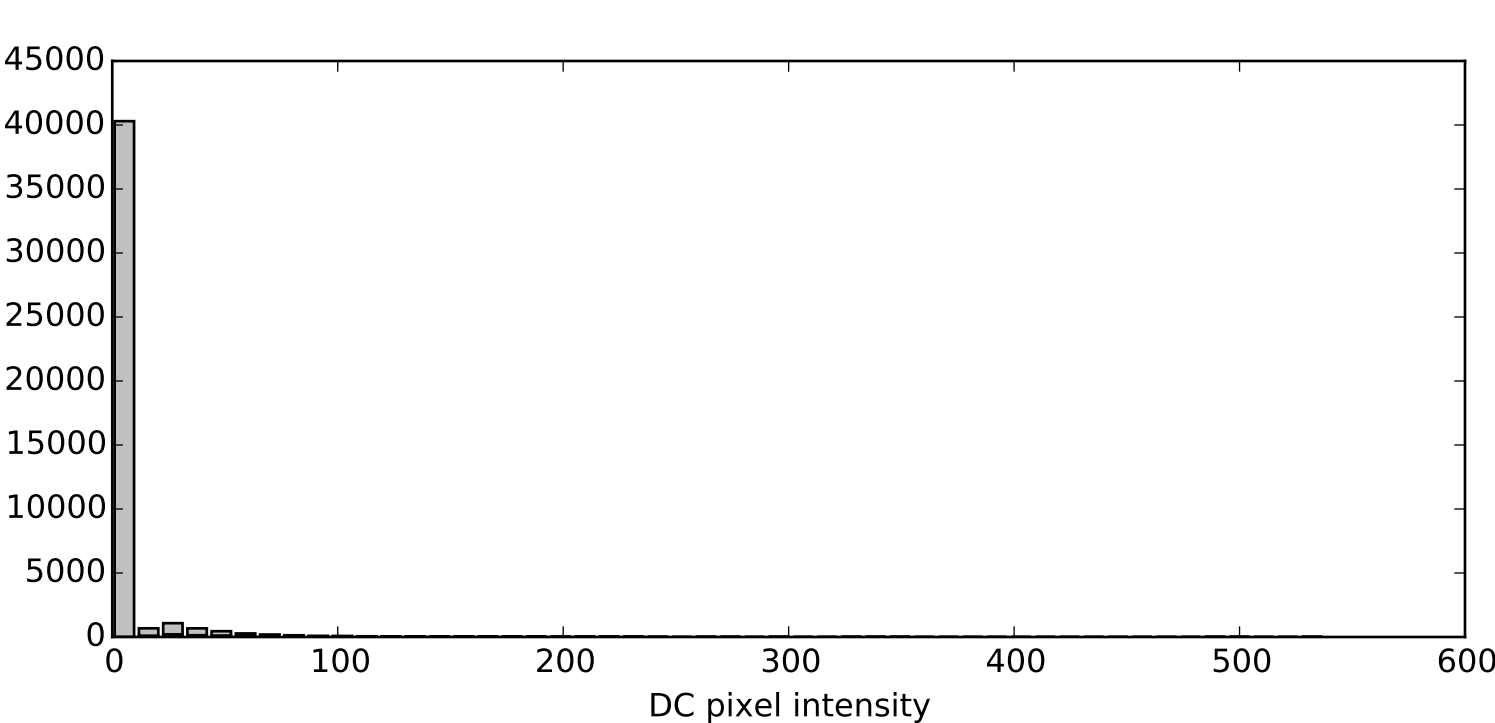


Correct
Incorrect

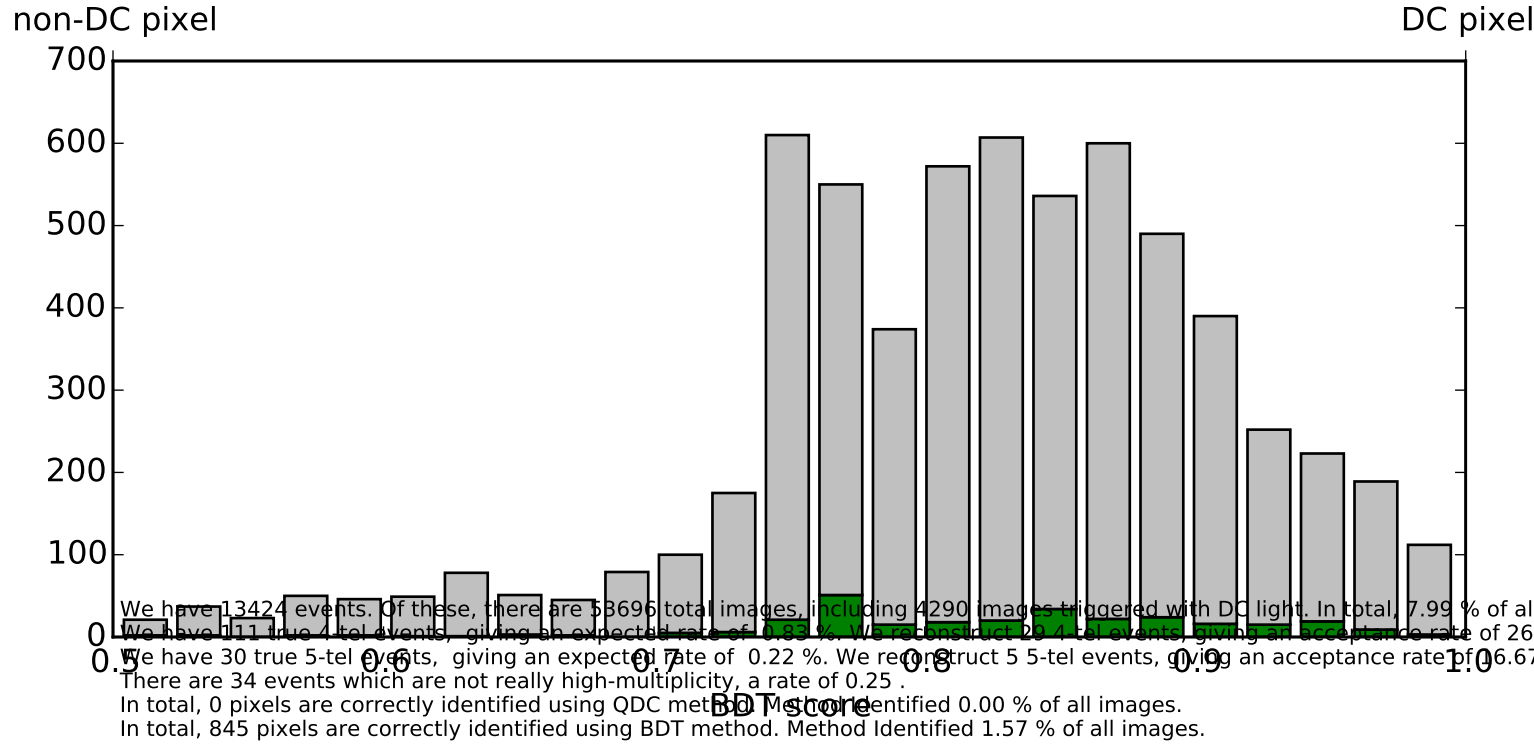
Distribution of BDT-reconstructed Events



Signal in pure DC pixel without shower



Distribution of BDT-reconstructed Events, after Score and Signal cuts



We have 13424 events. Of these, there are 33696 total images, including 4290 images triggered with DC light. In total, 7.99 % of all images have DC light to reconstruct.
We have 111 true 4-tel events, giving an expected rate of 0.83 % . We reconstruct 20 4-tel events, giving an acceptance rate of 26.13 % .
We have 30 true 5-tel events, giving an expected rate of 0.22 % . We reconstruct 5 5-tel events, giving an acceptance rate of 6.67 % .
There are 34 events which are not really high-multiplicity, a rate of 0.25 % .
In total, 0 pixels are correctly identified using QDC method. Method Identified 0.00 % of all images.
In total, 845 pixels are correctly identified using BDT method. Method Identified 1.57 % of all images.

Our QDC cut requires $QDC < 0.14 \log(Itot / 161 \cos(\theta))$, leaving 321 images.
Of these, 0 are correctly identified images.
Successful ID rate after cut is 0.00 %
Fraction of pixels correctly identified is 0.00 %
Fraction of pixels incorrectly identified is 0.60 %
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 15384 images.
Of these, 445 are correctly identified images.
Successful ID rate after cut is 2.89 %
Fraction of pixels correctly identified is 0.83 %
Fraction of pixels incorrectly identified is 27.82 %
Additionally requiring signal > 150 , we have 6259 images.
Of these, 293 are correctly identified images.
Successful ID rate after cut is 4.68 %
Fraction of pixels correctly identified is 0.55 %
Fraction of pixels incorrectly identified is 11.11 %
Additionally requiring multiplicity > 3 we have 453 images .
Of these, 7 are correctly identified images.
Successful ID rate after cut is 1.55 %
Fraction of pixels correctly identified is 0.01 %
Fraction of pixels incorrectly identified is 0.83 %

Additionally requiring Aspect ratio > 0.4 we have 115 images .
Of these, 2 are correctly identified images.
Successful ID rate after cut is 1.74 %
Fraction of pixels correctly identified is 0.00 %
Fraction of pixels incorrectly identified is 0.21 %

Distribution of BDT-reconstructed Events, after cuts

