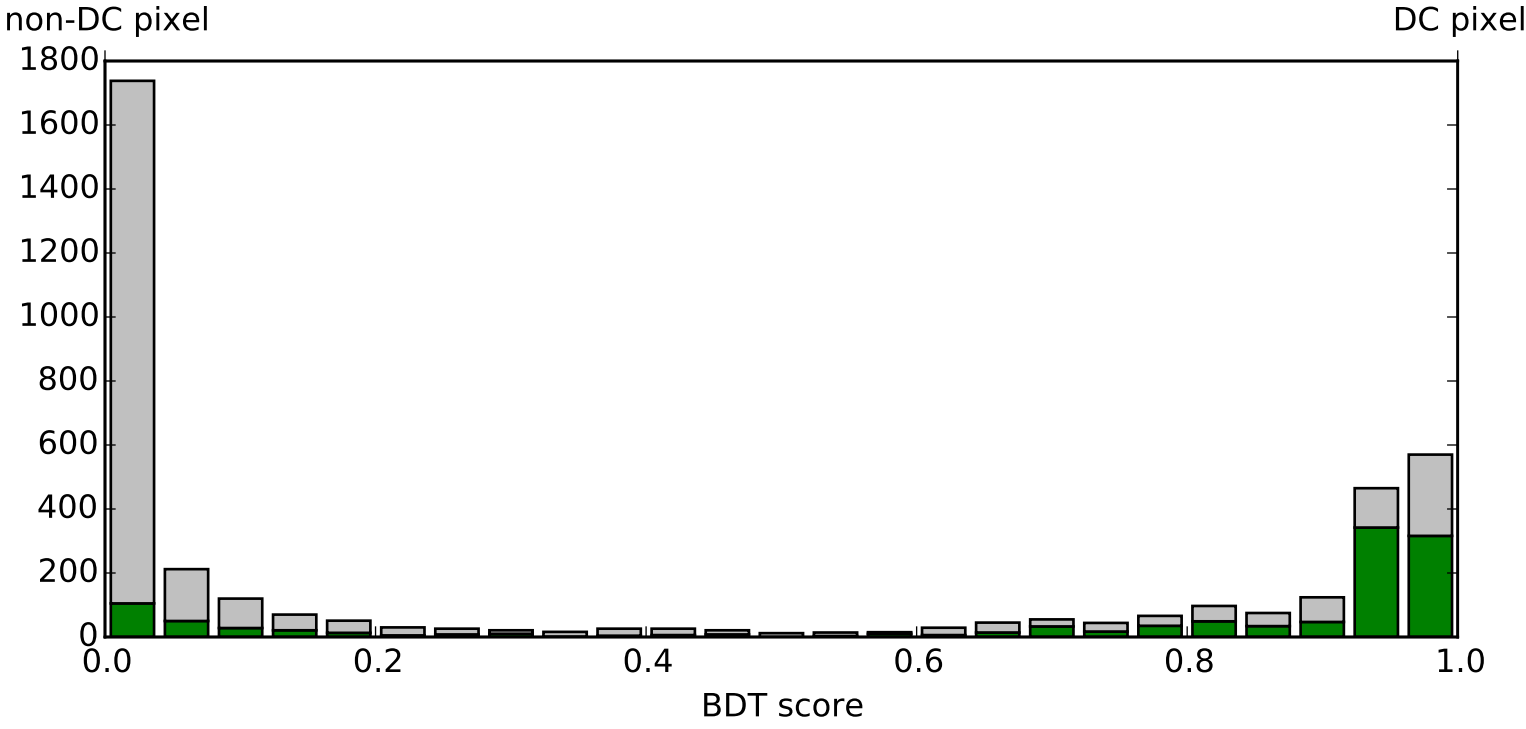
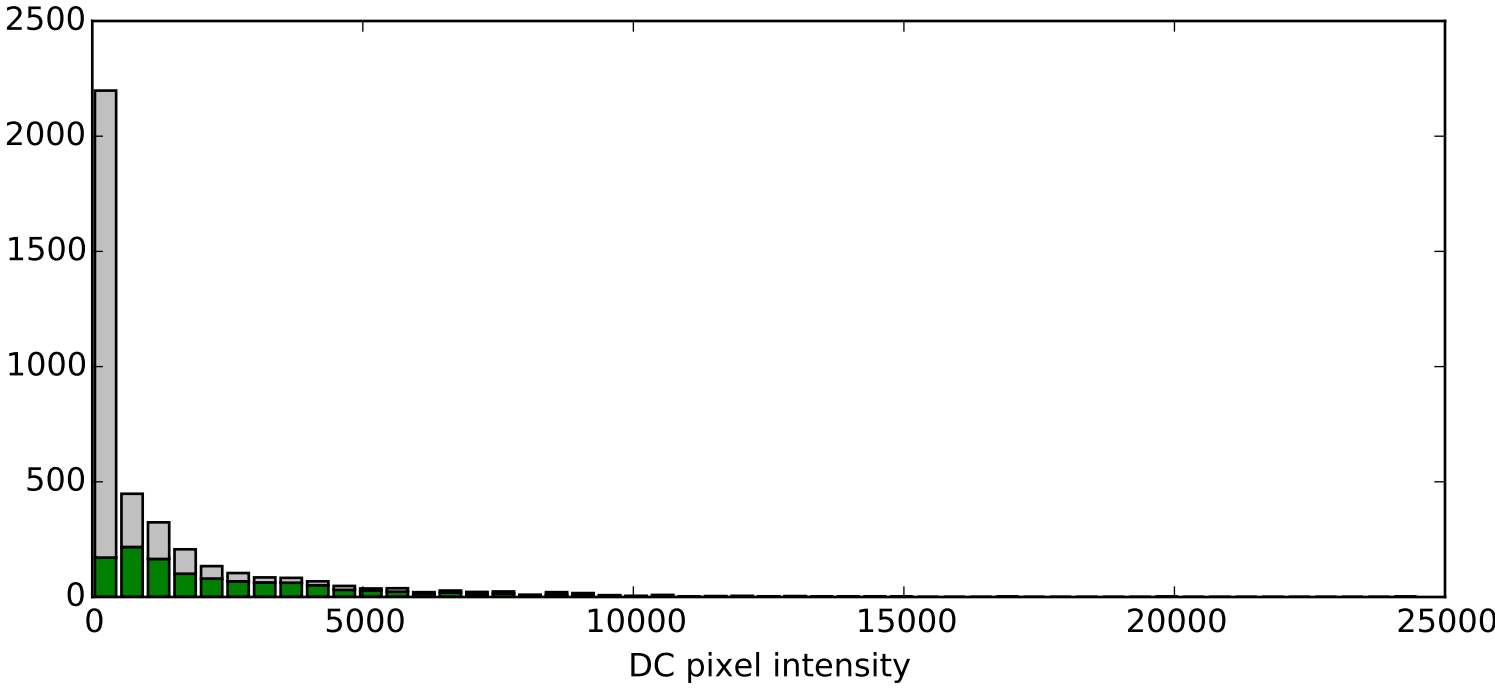


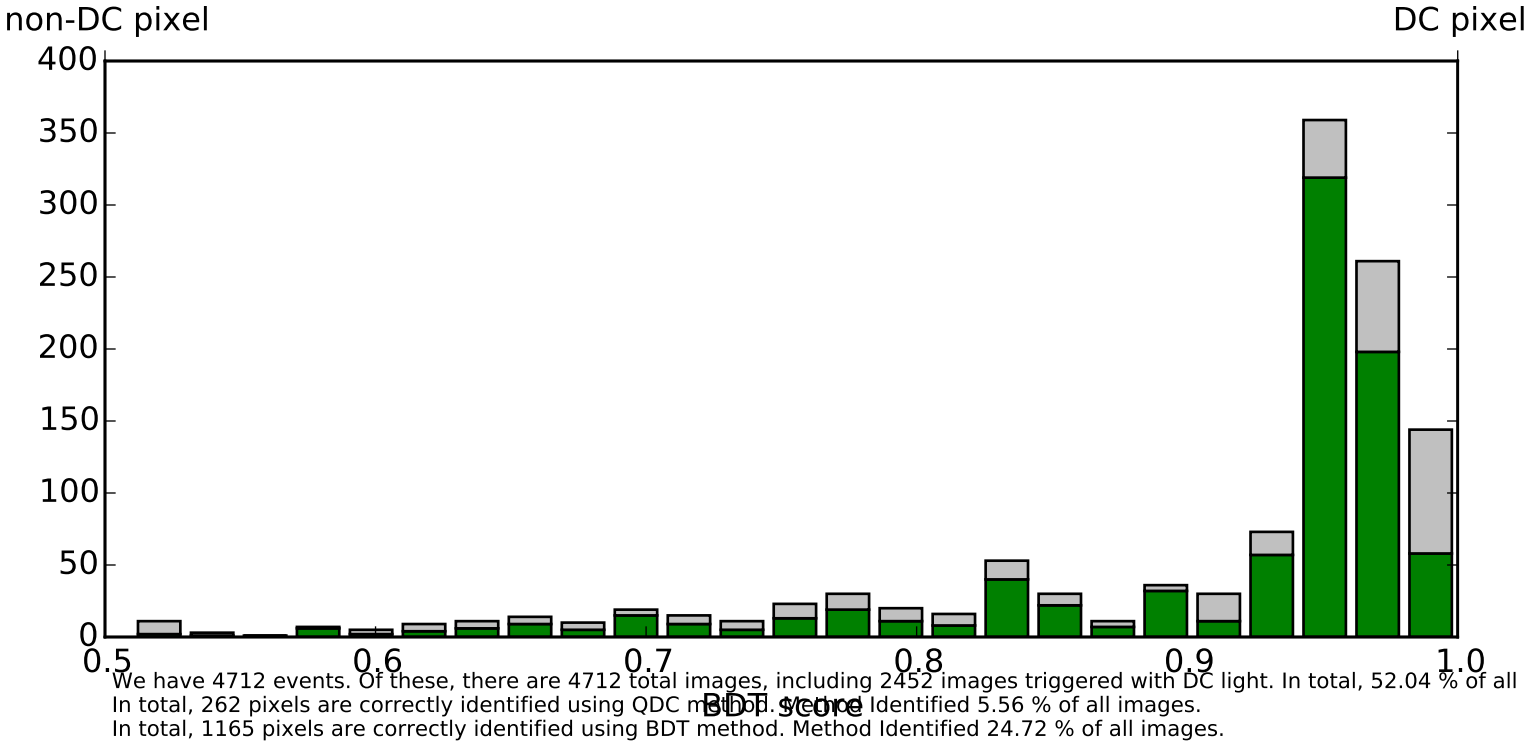
Distribution of BDT-reconstructed Events



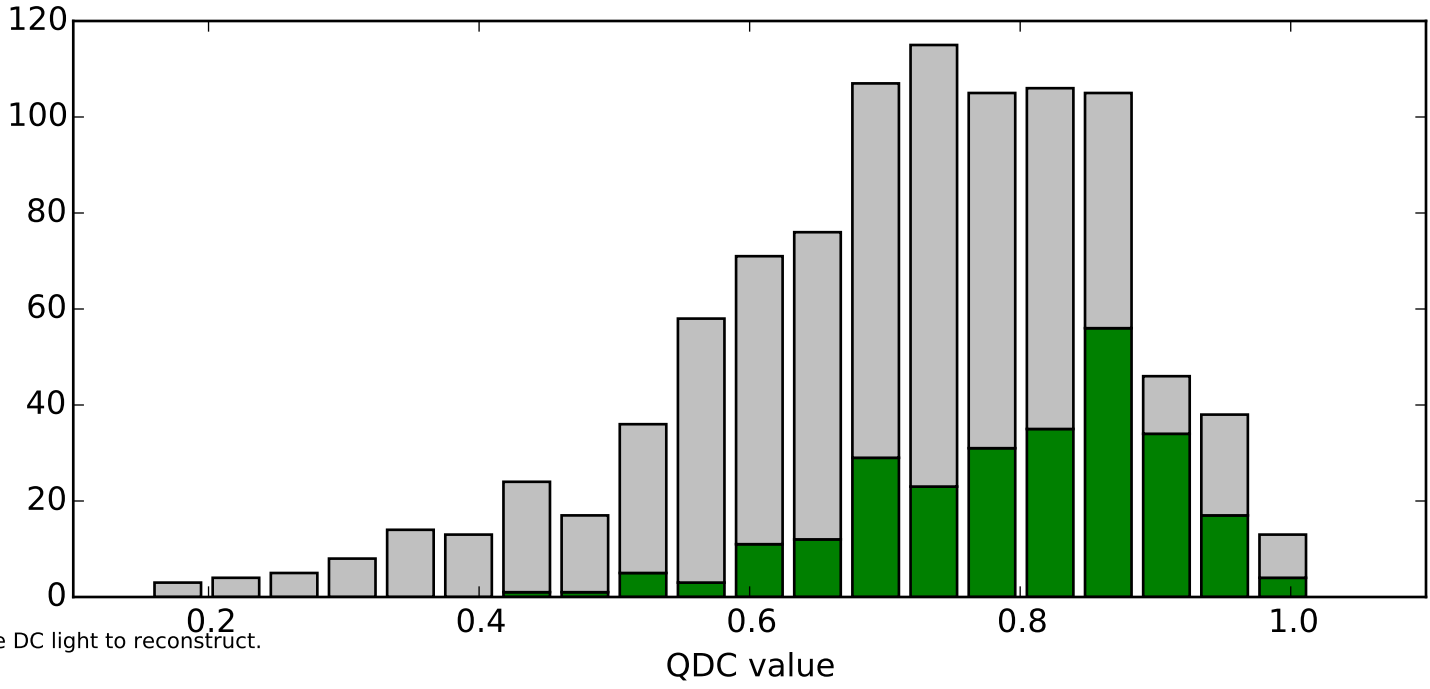
Signal in pure DC pixel without shower



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



Distribution of QDC-reconstructed Events



We have 4712 events. Of these, there are 4712 total images, including 2452 images triggered with DC light. In total, 52.04 % of all images have DC light to reconstruct.
In total, 262 pixels are correctly identified using QDC method. Method Identified 5.56 % of all images.
In total, 1165 pixels are correctly identified using BDT method. Method Identified 24.72 % of all images.

Our QDC cut requires $QDC < 0.14 \log(1 \text{ tot} / 161 \cos(\theta))$, leaving 964 images.
Of these, 262 are correctly identified images.
Successful ID rate after cut is 27.18 %
Fraction of pixels correctly identified is 5.56 %
Fraction of pixels incorrectly identified is 14.90 %
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 1605 images.
Of these, 906 are correctly identified images.
Successful ID rate after cut is 56.45 %
Fraction of pixels correctly identified is 19.23 %
Fraction of pixels incorrectly identified is 14.83 %
Additionally requiring signal > 150 , we have 1202 images.
Of these, 860 are correctly identified images.
Successful ID rate after cut is 71.55 %
Fraction of pixels correctly identified is 18.25 %
Fraction of pixels incorrectly identified is 7.26 %
Additionally requiring multiplicity > 3 , we have 14 images.
Of these, 13 are correctly identified images.
Successful ID rate after cut is 92.86 %
Fraction of pixels correctly identified is 0.28 %
Fraction of pixels incorrectly identified is 0.02 %

Distribution of BDT-reconstructed Events, after cuts

