^{83m}Kr pulse and event misclassification studies

Rachel Mannino 7 February 2018

83mKr data

- Datasets created by Evan to select "S1-like" and "S2-like" pulses in Kr-83m contaminated datasets in Runs 03 and 04.
 - Kr83m_IsoS1S2_run3.npz
 - Kr83m_lsoS1S2_tb1.npz
 - Kr83m_lsoS1S2_tb2.npz
 - Kr83m_lsoS1S2_tb3.npz
 - Kr83m_lsoS1S2_tb4a.npz
 - Kr83m_lsoS1S2_tb4b.npz

Number of misclassified pulses in Run03



Number of misclassified pulses in Run04, time bin 1



Number of misclassified pulses in Run04, time bin 2



Number of misclassified pulses in Run04, time bin 3



Number of misclassified pulses in Run04, time bin 4a



Number of misclassified pulses in Run04, time bin 4b



Apply fiducial cut

- Run04:
 - Cut 3 cm in from wall
 - Drift: 40 to 300 us

Number of misclassified pulses in Run04, time bin 1 with fiducial cut



Number of misclassified pulses in Run04, time bin 2 with fiducial cut



Number of misclassified pulses in Run04, time bin 3 with fiducial cut



Number of misclassified pulses in Run04, time bin 4a with fiducial cut



Number of misclassified pulses in Run04, time bin 4b with fiducial cut

