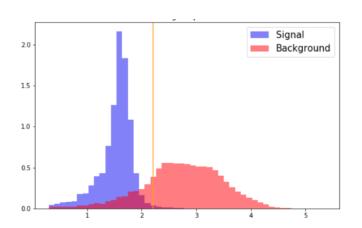
Machine Learning in physics

Ken

March 29, 2018

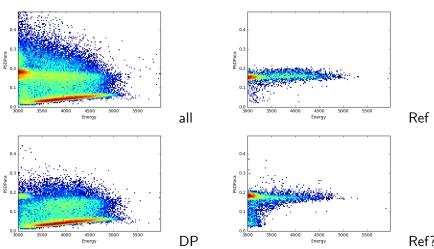
common Problem of discrimination between signal and background



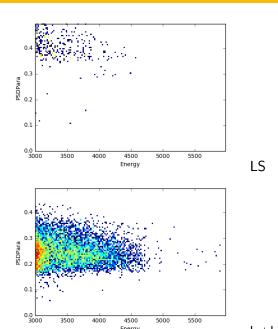
Not always, you define a cut condition where surviving cut there can have perfect 99% signal with 1% background. Small "features" might not be obvious, making it difficult to notice.

Current progress

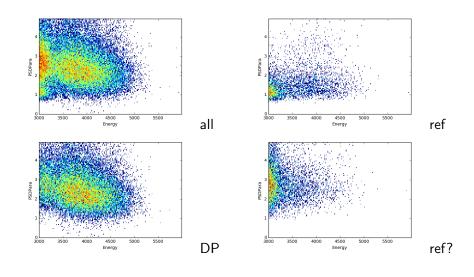
I am able to reproduce the separation using ONLY waveform itself. Working on a better method on the gaussian tail. Ratio4us vs. Energy



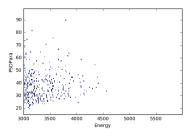
Ratio4us vs. Energy

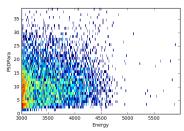


PSDPara[1] vs. Energy



PSDPara[1] vs. Energy





▶ I intend to this method for the new bolometer, since there is a desire for me to get the NTD Ge working possibility with vibration/electrical noise studies etc.

ls+beta

ls