ZDC 2018 PbPb Calibration Status

2018 Pb+Pb: 124 runs 326381-327564
100 ns BS until 326965, 75 ns after

Summary at https://docs.google.com/spreadsheets/d/1p-PrblgerpZVgRvTA1AL3qweDbrKOLRz8ZeGNd8E5k0/edit#gid=0

Digi to charge: https://github.com/BetterWang/QWZDC2018RecHit/

Recipe by Quan (based on signal from TS4+TS5):

- \( ZDC^+ = HAD_1 + 0.61HAD_2 + 0.46HAD_3 + 0.50HAD_4 + 0.1(1.11EM_1+1.23EM_2+0.93EM_3+1.04EM_4+1.0EM_5) \)
- \( ZDC^- = HAD_1 + 0.72HAD_2 + 0.46HAD_3 + 0.58HAD_4 + 0.1(0.83EM_1+0.86EM_2+0.94EM_3+0.93EM_4+1.0EM_5) \)

plus & minus total energy
My 1-2n calibration plots

- Not perfect Gaussian shapes, might need to work on this still
- Started to write out ZDC data with a new ZDC tree format
- Did not finish analysis, that’s where I was:

**ZDCplus**
- Peak: 7080
- Width: 1652
- Resol.: 23%

**ZDCminus**
- Peak: 11200
- Width: 2815
- Resol.: 25%
Quan’s and Shuai’s results

- Look much better, ready for rechits