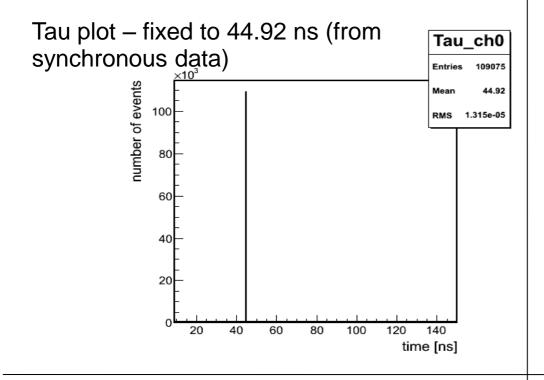
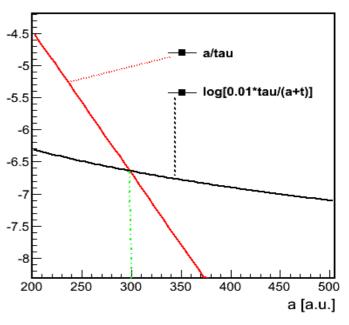
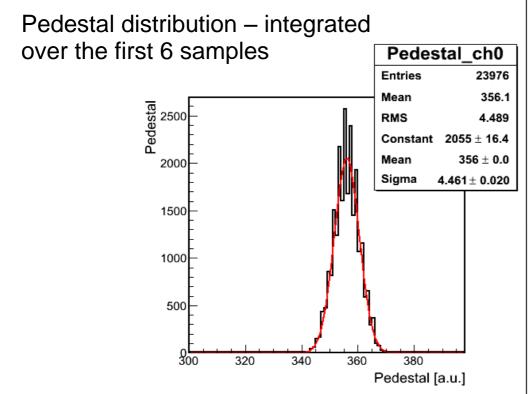
## SNR estimation using fixed shaping time extracted from synchronous data

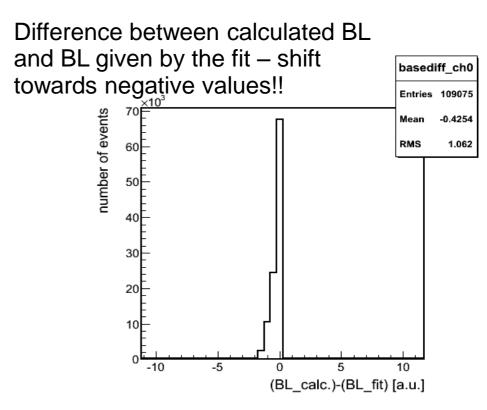
Eliza Teodorescu







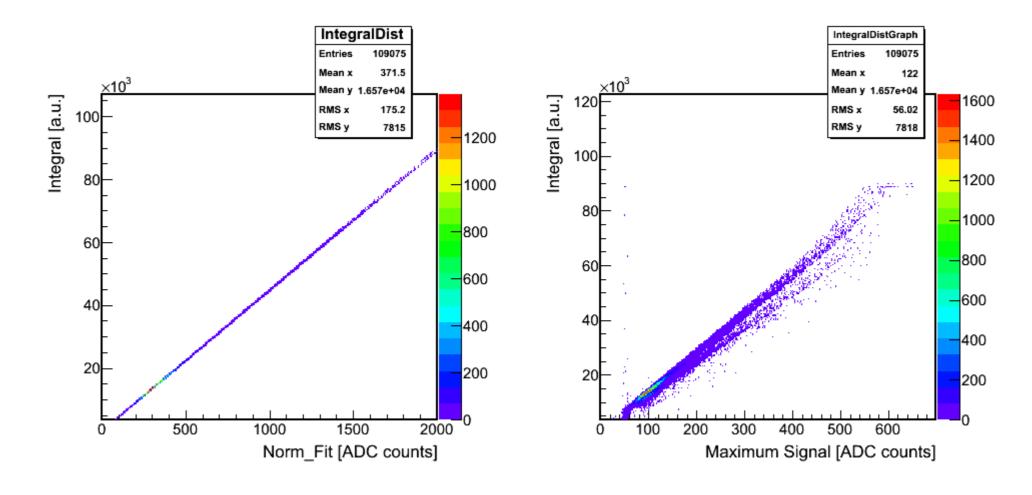


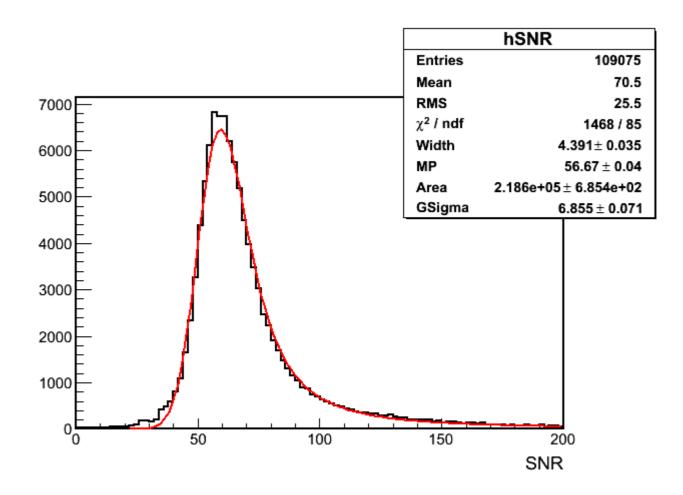


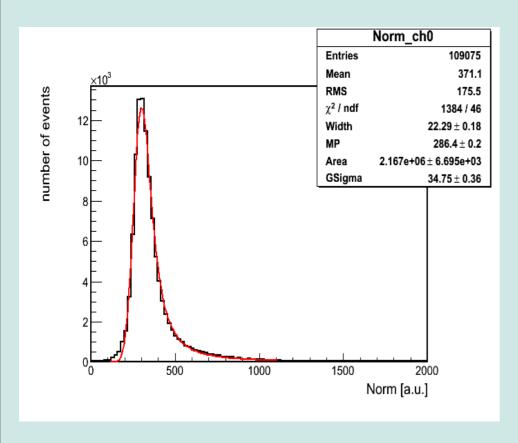
Correlations between the integral and the amplitude

Left: amplitude is given by the fit

Right: amplitude is extracted directly from dat a Integral is calculated in the 300 ns integration window







MPV\_Signal\_Size (Area)= MPV\_Norm\*Tau =286\*44.92 = 12847.12 ADC\_counts\*ns =256.94 ADC\_counts\*sample

SNR = 256.94/4.461 = 57.6

## MPV\_Integral (Area)= 12780 ADC\_counts\*ns =255.6 ADC\_counts\*sample

SNR = 255.6/4.461 = 57.3

