

BCAL LED Plugin

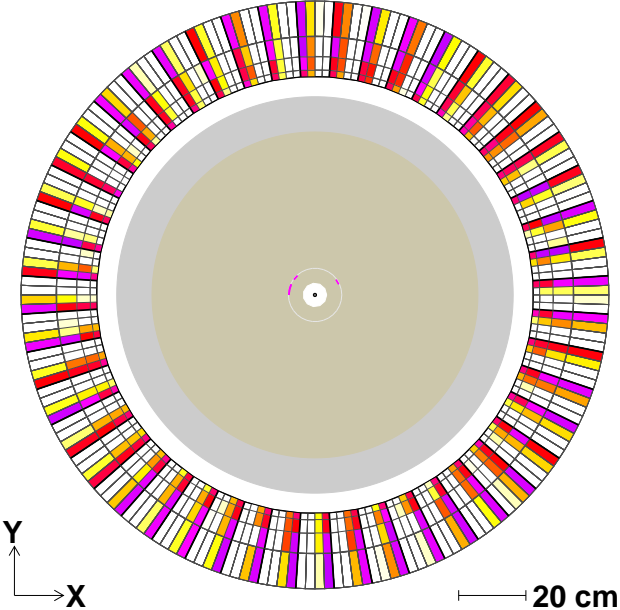
Ahmed Foda

University of Regina

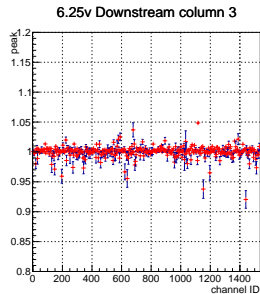
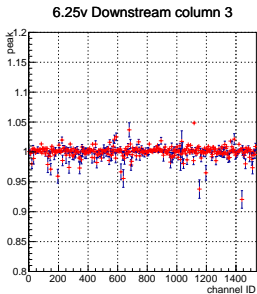
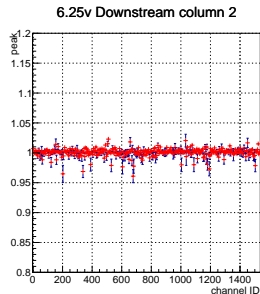
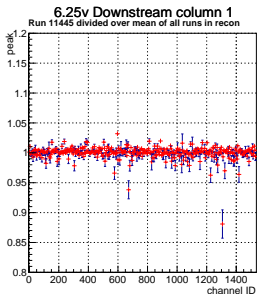
Calorimetry Group Meeting
Sept 22nd, 2016

Example of LED Event

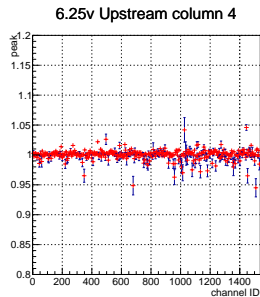
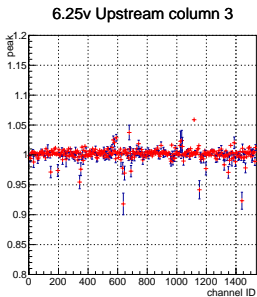
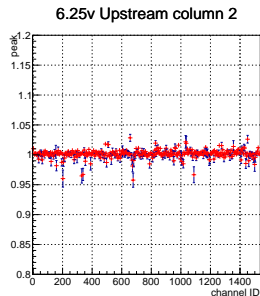
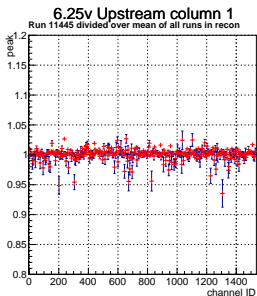
BCAL view from downstream looking upstream



Ratio vs Channel ID - Downstream



Ratio vs Channel ID - Downstream



The Good, The Bad & The Ugly .. Runs

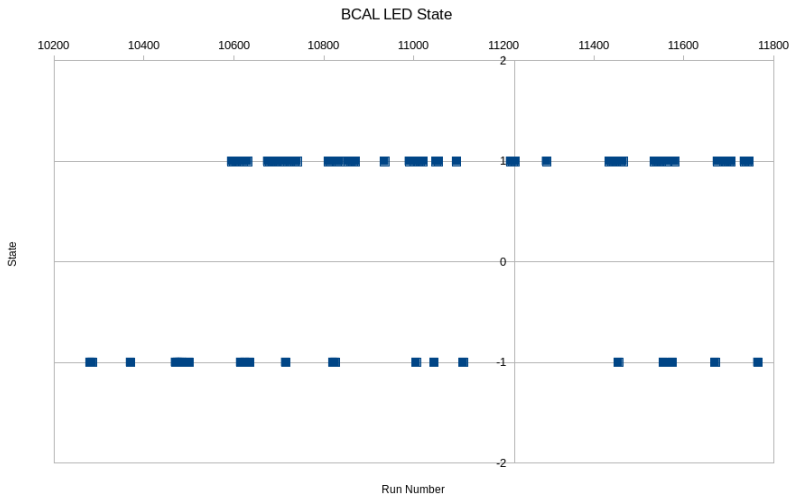
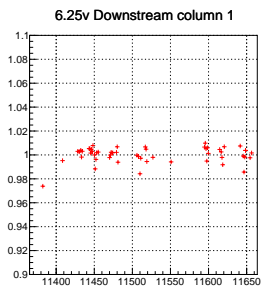
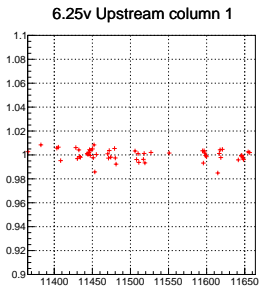
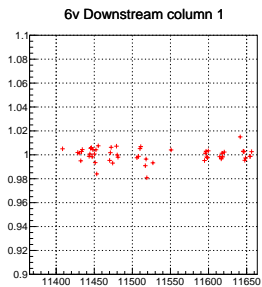
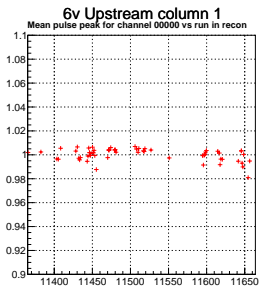
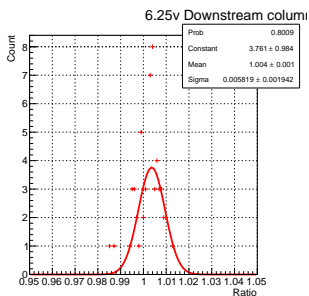
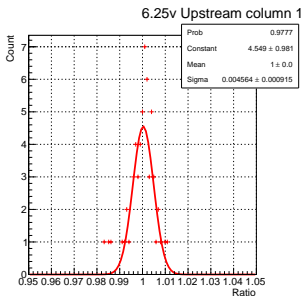
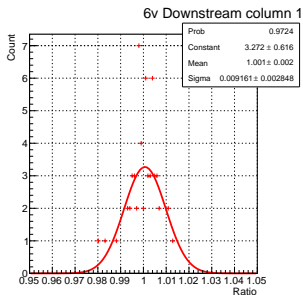
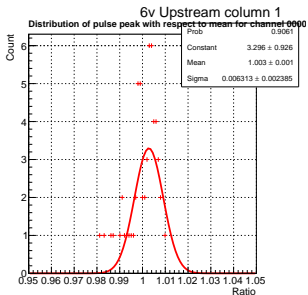


Figure: Y axis separates batch 1 from batch 2.

Channel Ratio vs Run Number



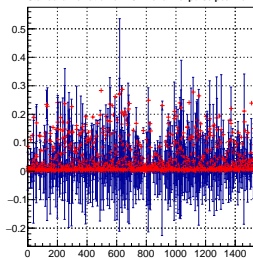
Channel Ratio Fit



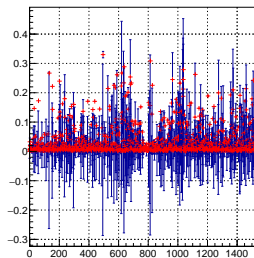
Standard Deviation vs Channel ID

6v Upstream LED pulser

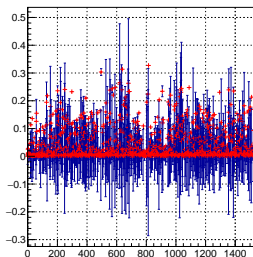
Standard Deviation of BCAL channel pulse peak for different LEI



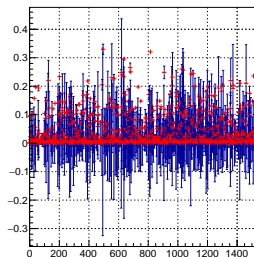
6v Downstream LED pulser



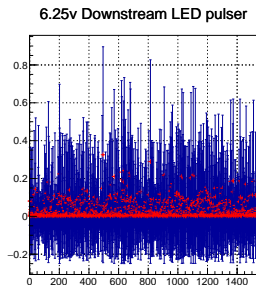
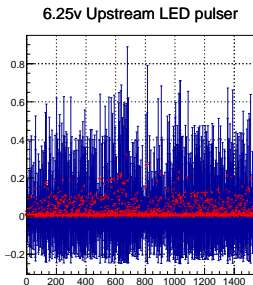
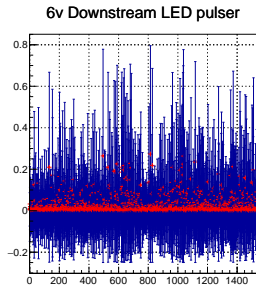
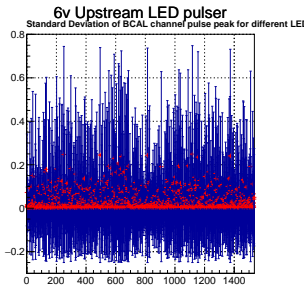
6.25v Upstream LED pulser



6.25v Downstream LED pulser

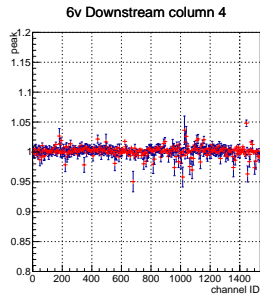
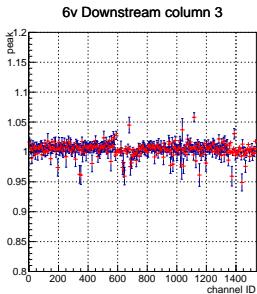
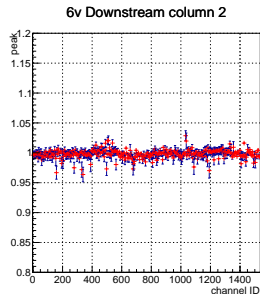
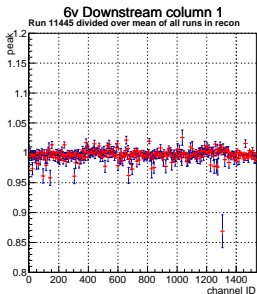


Fractional Variation vs Channel ID

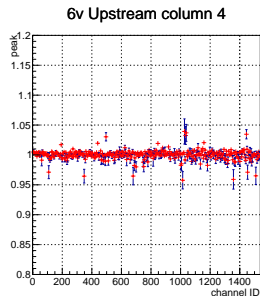
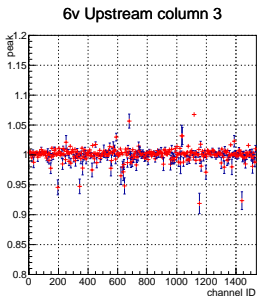
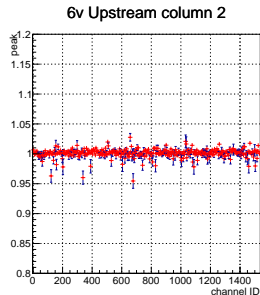
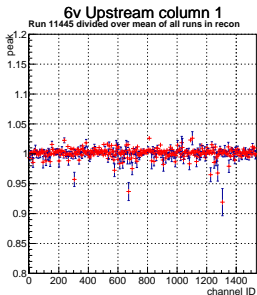


Extra Slides

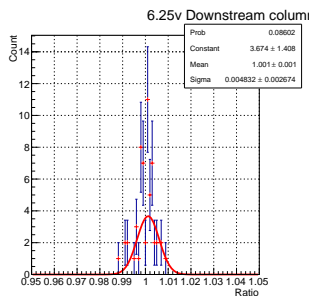
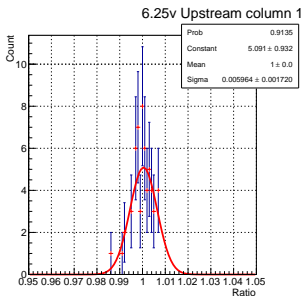
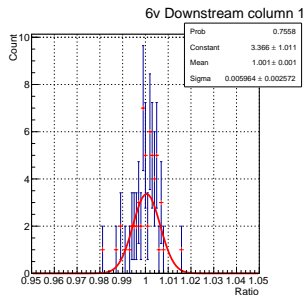
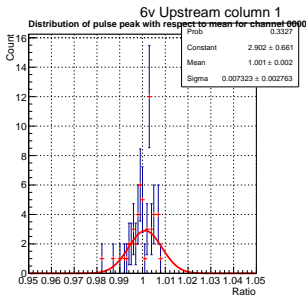
Extra - Ratio vs Channel ID - Down



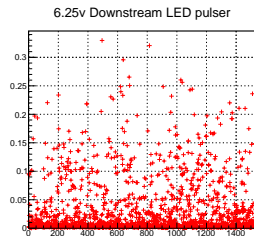
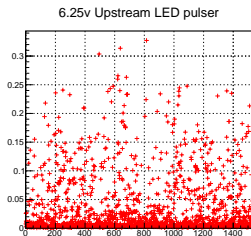
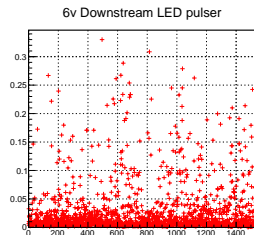
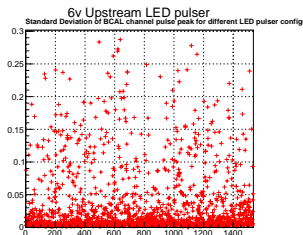
Extra - Ratio vs Channel ID - Up



Extra - Channel Ratio Fit with Errors



Extra - Standard Deviation vs Channel ID



Extra - Standard Deviation vs Channel ID - Log Scale

