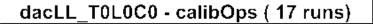
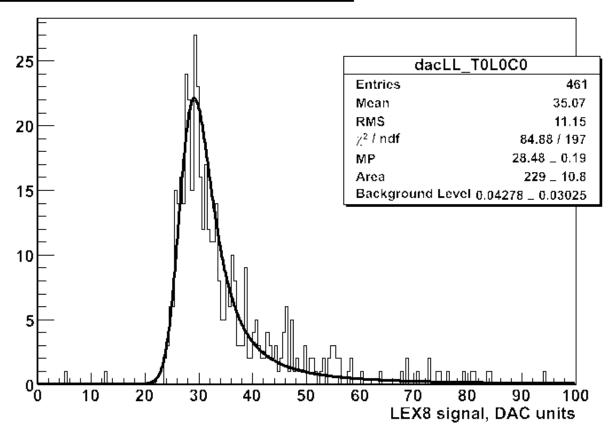
CAL calibration with protons - based on 17 calibOps runs

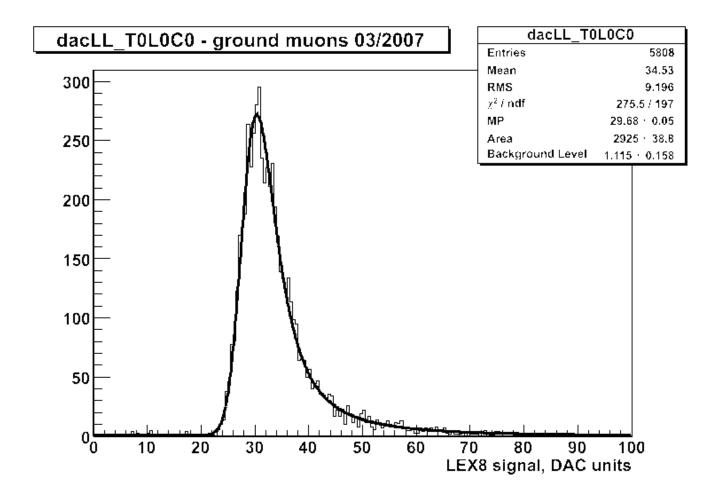
I've processed 17 runs of calibOps configuration by calibGenCAL and have made a fit of a proton peak position for each crystal.

Following two plots show the proton signal for one crystal on orbit



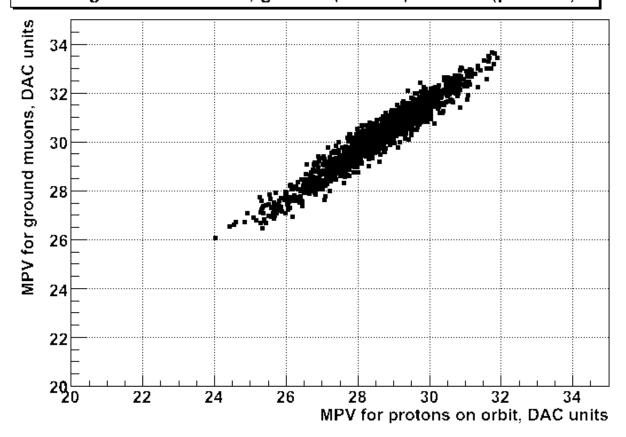


and the muon signal in the same crystal on the ground.

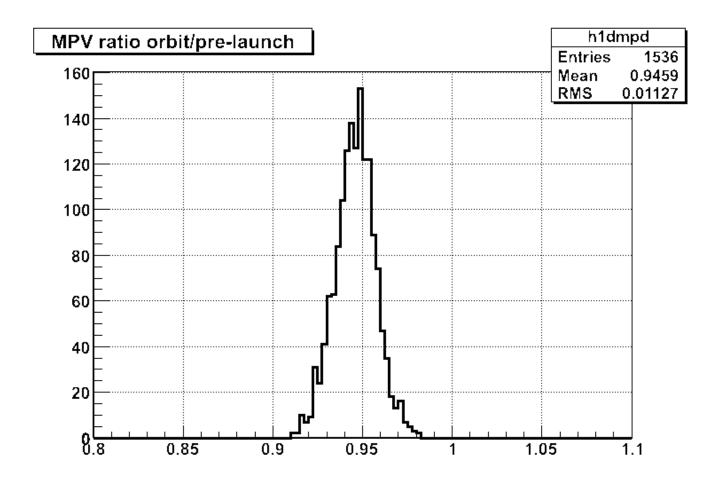


The correlation of MPVs on the ground vs orbit is shown on the next plot for all crystals





The histogram of the MPV ratio orbit/ground on the next plot.



So proton signal on orbit is in average 5% smaller than muon signal on the ground. The simulation of proton signal taking into account the real spectrum, angular distribution both(different from ground muons) is needed to extract correct crystal calibration coefficient (so far I just used 11.2 MeV - the same as for muons).