



Preliminary on LIME Pedestals





Pedestal history on GRAFANA



- New Panel in Ped history Dashboard by Giovanni
 - <u>Ped History LNGS Dashboards Grafana (infn.it)</u>
- Mean and RMS from the pedestal *reco*.root* files
 - Systematic changes comes from different exposure

The reconstructed pedestal is pedestal-subtracted!

- Confirmed by Igor (Thanks!)
- There may be some hidden effect because of this...



Sources Summary: 37955,38292,Am Campaign 30845,36663,Eu Campaign 30815,30831,Ba Campaign - No Collimator 27858,30814,Ba Campaign 24329,25427,AmBe Campaign - GEMS OFF 23802,24328,AmBe Campaign



Pedestal Analysis



- Pedmean and pedrms TH1s have some cuts in the pedmap*.root files
- This is clearly useful for the pedestal subtraction, but we may lose the juicy part if we want to check for ulletdamaged (or whatever) pixels
- I used the TH2 for the full pedestal spectra •



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First check on pixels



- Mean pedestal, mean RMS and integral
- Check <u>number of pixels</u> in the tails of distributions
 - **Outside nominal cut** for pedestals (mean<97, mean>103 and RMS>10)
 - Custom cuts (mean>110, RMS>5 and RMS>10)





Mean, RMS, Integral -Normalized-





≈28k to ≈34k run num are at lower exposure

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MEAN - Pixel in tails





≈28k to ≈34k run num are at lower exposure



RMS - Pixel in tails





≈28k to ≈34k run num are at lower exposure



X projection of pedestals





Noise in the noisy strips -TOP of the camera-



Max noise left part FIT



Exp slope left part FIT



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- Small trends are visible in many testing variables
- Such trends seem to correspond to 'periods of operation'
 - Converging trend to some plateau
 - Reset between different operation periods (maybe OFF periods? is it worth checking
- Contribution of such fluctuation of the level of some %
 - Only driven by the the TOP part of the camera
- No effect from humidity
 - Related to different type of operation (ON/OFF camera, ON/OFF detector, ???, ...)



BACKUP

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Mean, RMS, Integral





≈28k to ≈34k run num are at lower exposure

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