

CODEx- β Module 13 FEB issues

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Module 13 (m10)

Comprised of s39 (top), s38 (mid), s37 (bot)

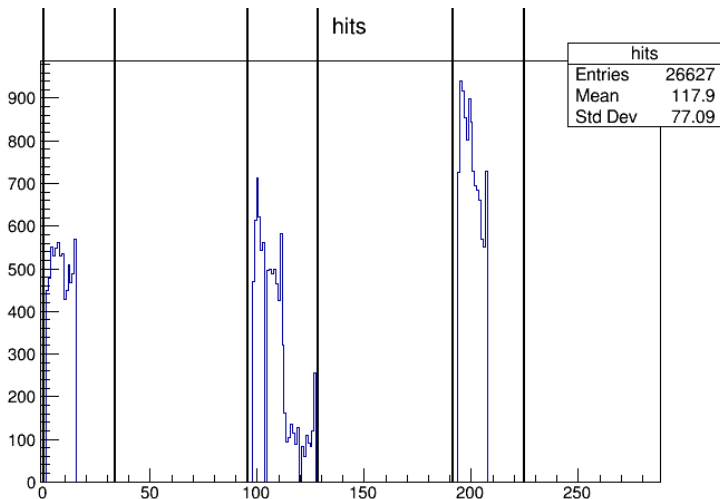
Eta

Phi

Efficiency scan

Operation test

N.B.: Unlike m10, I haven't yet tried to resolder any connections, nor have I measured the low voltage values. These issues may or may not be related to m10.



Eta

Phi

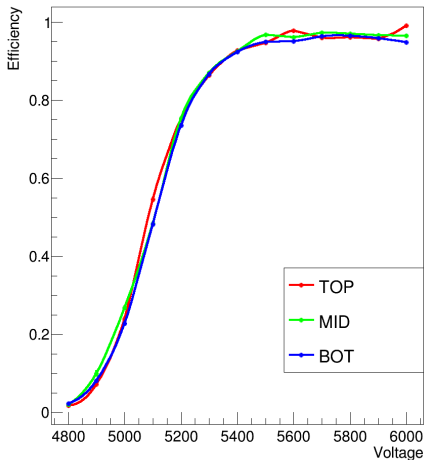
Efficiency scan

Efficiency scan

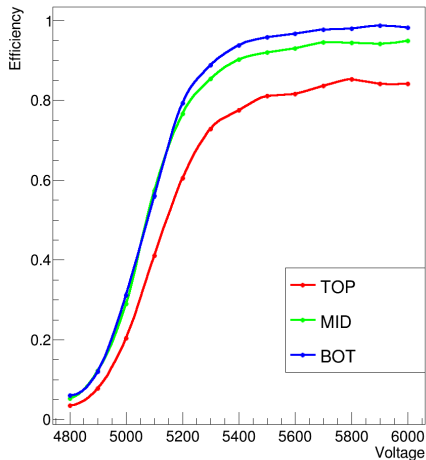
Note: Ignore the eta results.

The efficiency is clearly lacking in phi top:

Efficiency, η

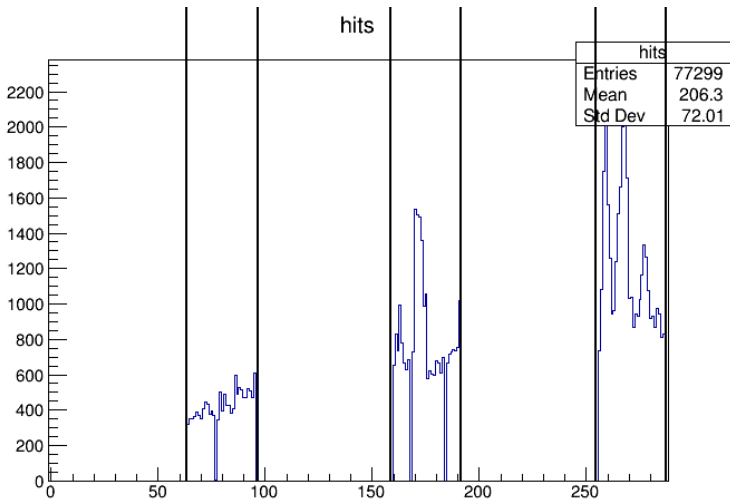


Efficiency, ϕ



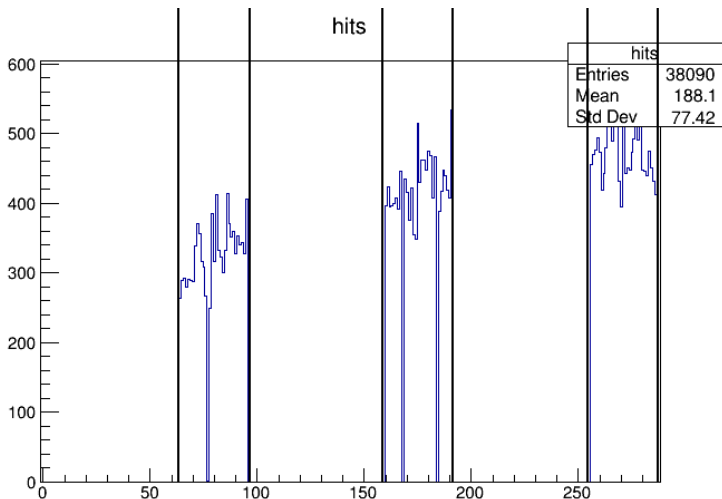
Top, phi1, 5800V

All layers should have roughly the same number of hits, but they clearly do not, which is causing the efficiency issues...



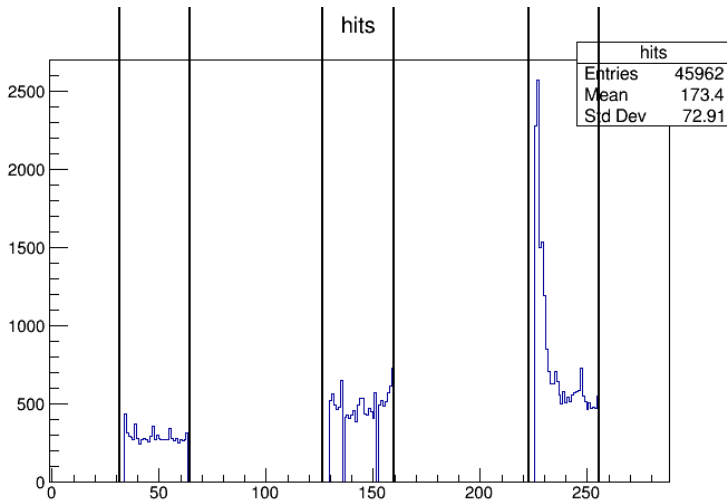
mid, phi1, 5800V

...but if we look at the mid efficiency scan equivalent (taken the same day as the previous plot), everything looks fine:



Top, phi0, 5800V

For phi0, the first FEB of bot seems to be the main concern:



Conclusion

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