Mixed updates

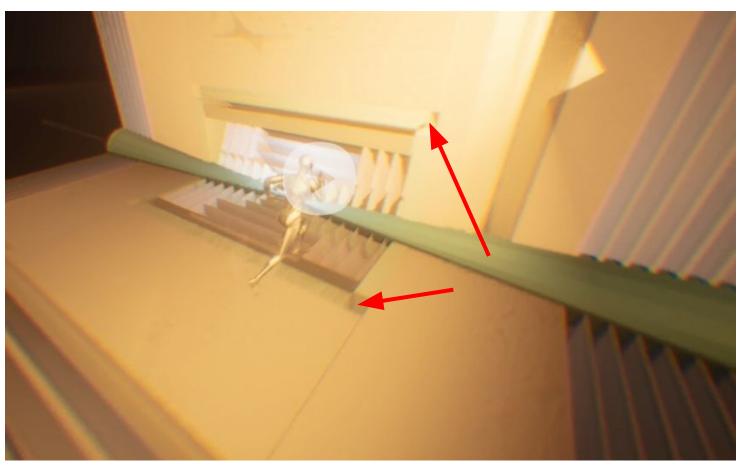
That went into an updated docker image

Federico Meloni (DESY)

Detector meeting, 05/10/2023



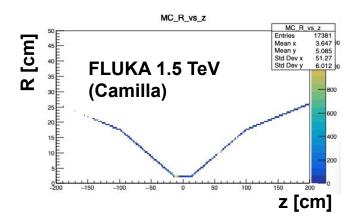
More fixes to geometry

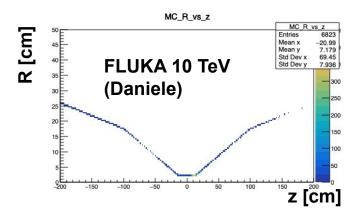


Noticed from (awesome) video from Larry that in the revised geometry to accommodate the Pandora hardcoded order of endcap and barrel I left a gap

Fixed

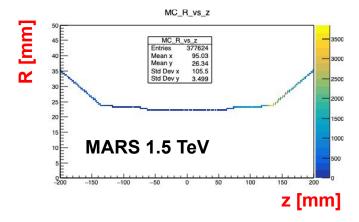
Understood mismatch in timing at Vertex





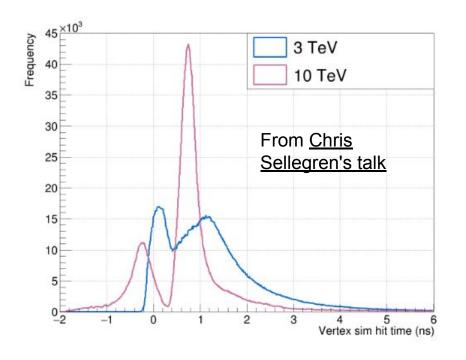
Mismatch in units

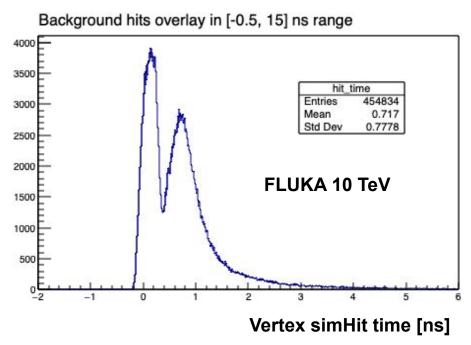
- The fluka to LCIO script didn't take this into account
- Fixed in <u>git</u> (and propagated to IMCC github in <u>PR</u>)



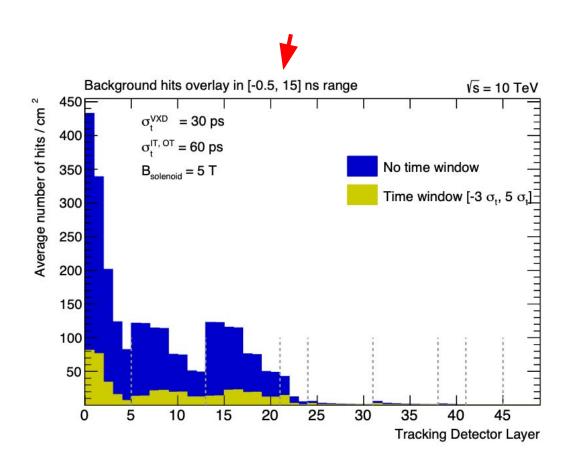
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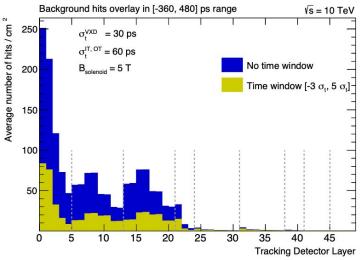
Updated timing distribution

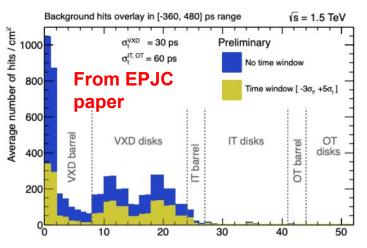




Updated tracker occupancy plot

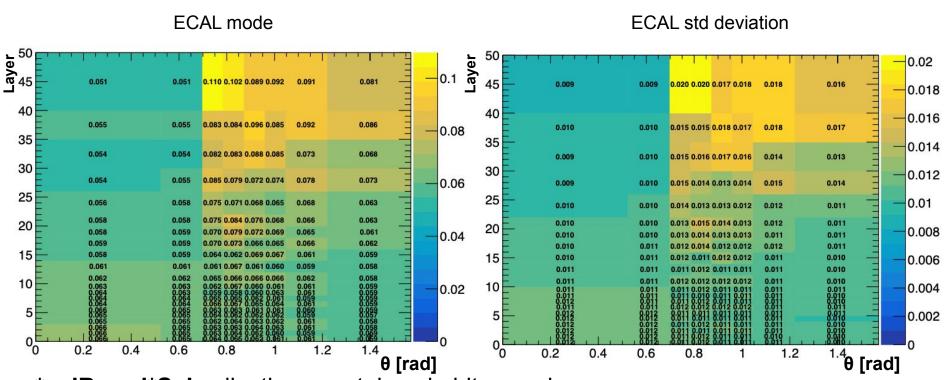






| F. Meloni | DESY report | 05/10/2023

Updated ECAL cell thresholds



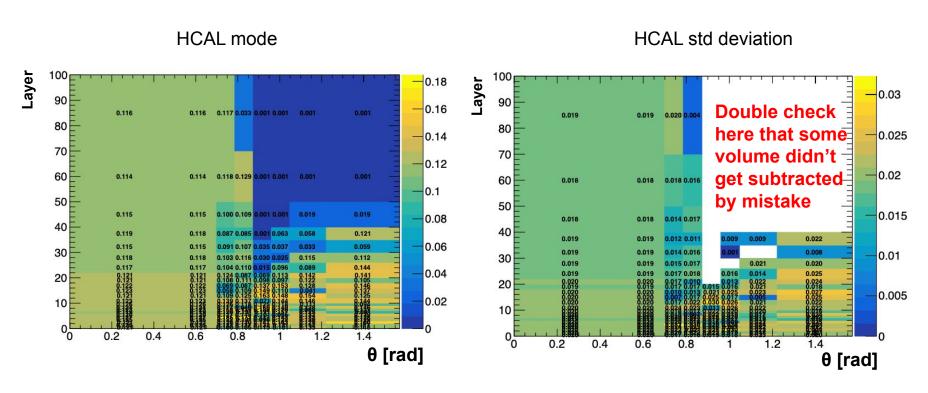
*calBarrel*Sel collections contain calo hits passing

E_hit > cell_mode + 5 * cell_stddev (BIB efficiency: 0.006)

PFOs are reconstructed with filtered cells, but "*calBarrel*Rec" are available

Filtered cell energy corrected by subtracting the cell_mode

Updated HCAL cell thresholds



*calBarrel*Sel collections contain calo hits passing

E_hit > cell_mode + 5 * cell_stddev (BIB efficiency: 0.034)

PFOs are reconstructed with filtered cells, but "*calBarrel*Rec" are available

Filtered cell energy corrected by subtracting the cell mode

Thank you!