Pedestal subtraction as simulation killer

Simulated May data (40 GeV muons) Saiva, Christian, Erik, Lan, Katja, ...







Problem identified



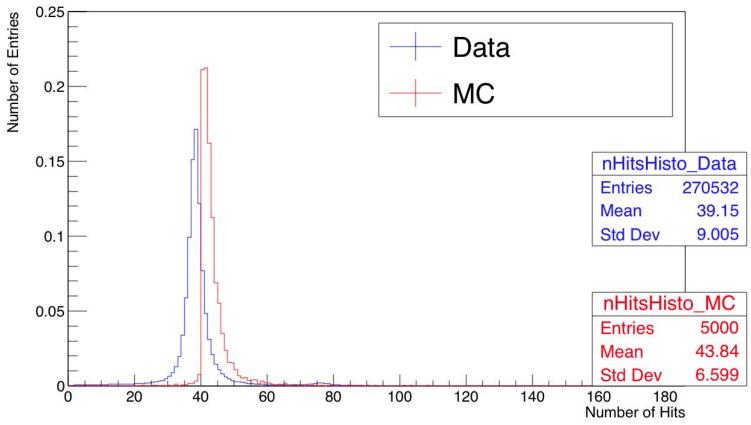
- Simulation killer: pedestal subtraction in reco steering file
 - o usage of same reco steering for data and simulation

Following plots: scaled to 1/integral



nHits

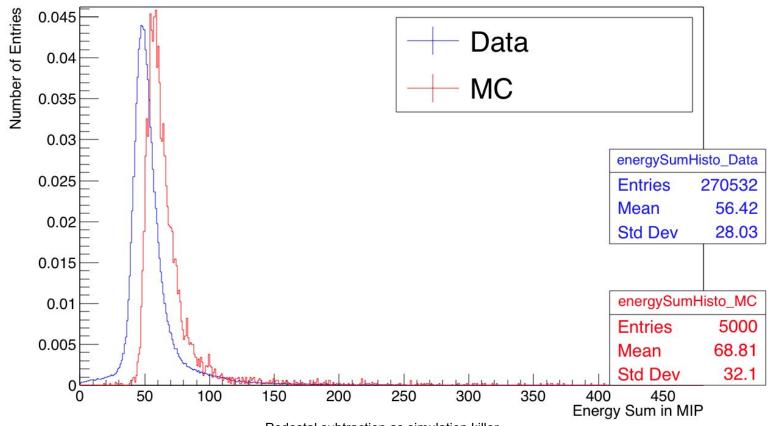






energySum

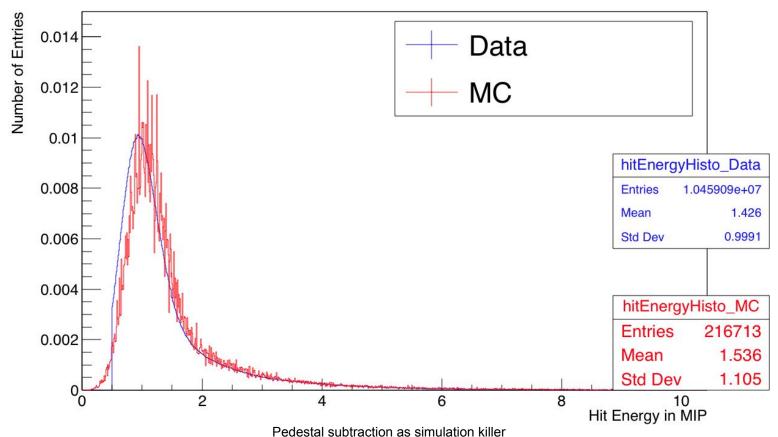






hitEnergy

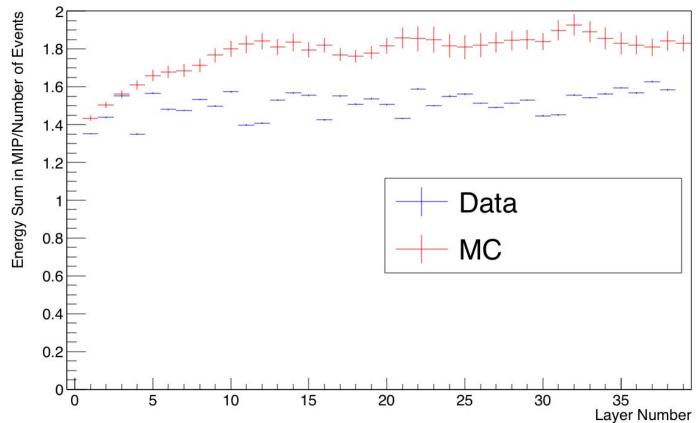






shower profile

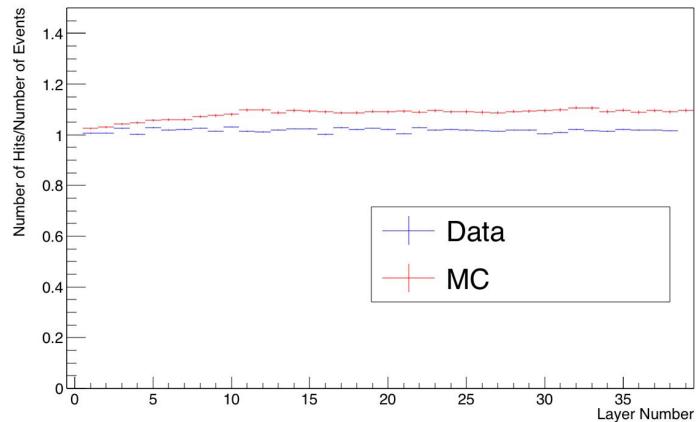






number of hits profile







Problem identified (and solved)



- Simulation killer: pedestal subtraction in reco steering file
 - usage of same reco steering for data and simulation
- Temporary solution: switch off pedestal subtraction in simulation reco
- Final solution: changed SiPM reco code to only do pedestal subtraction for data
 - Waiting for addition to common software
- Simulations look much more like we expect them to



Backup

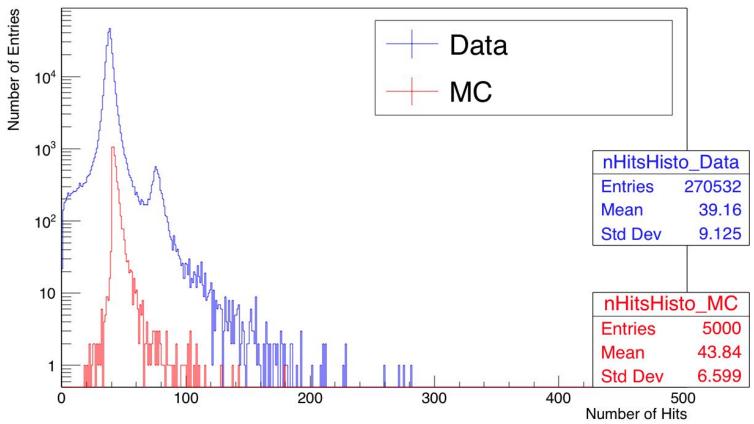


Following plots: not scaled



nHits

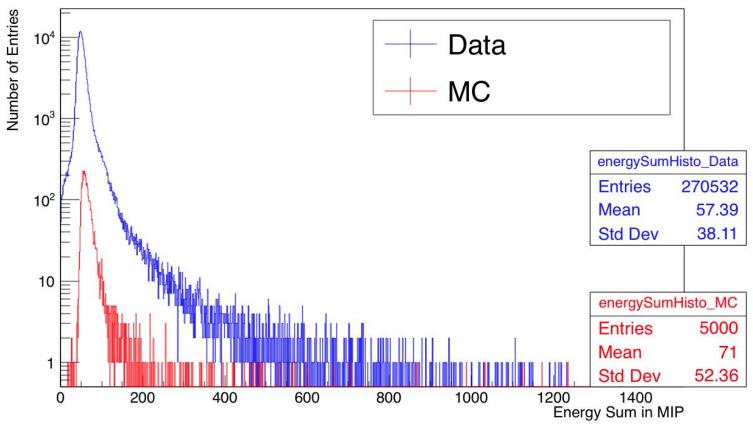






energySum







hitEnergy



