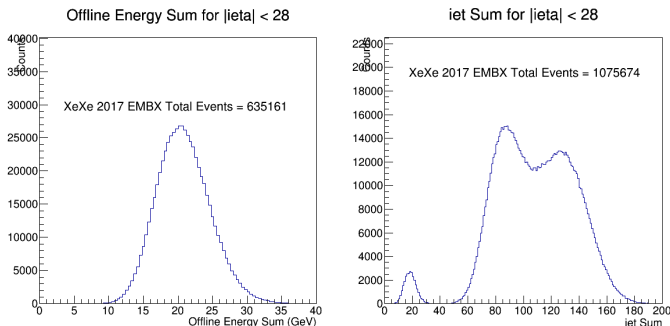
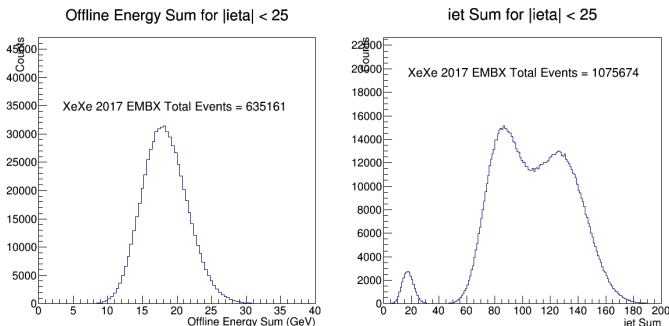


# CaloTower Energy (Offline) and iet (L1Ntuple) Distribution for $\text{abs}(\text{ieta}) < 28$ for 2017 XeXe Empty Bunches Data



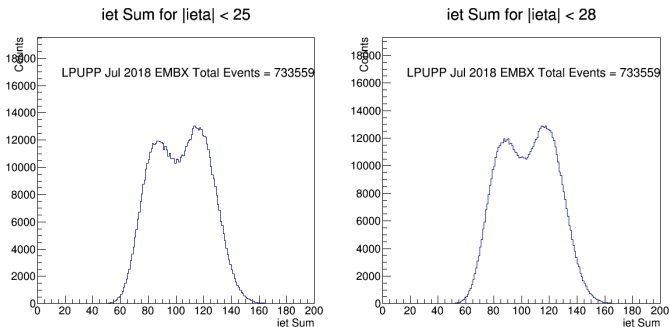
Comment: the sum of iet is greater than 100 for  $|\text{ieta}| < 28$  for XeXe empty bunches data (dataset = /HIEmptyBX/XeXeRun2017-v1/RAW, CMS Release = CMSSW\_10\_1\_5, GT = 101X\_dataRun2\_v8). Therefore, the low EET threshold in MB trigger will not help.

# CaloTower Energy (Offline) and iet (L1Ntuple) Distribution for $\text{abs}(\text{ieta}) < 25$ for 2017 XeXe Empty Bunches Data



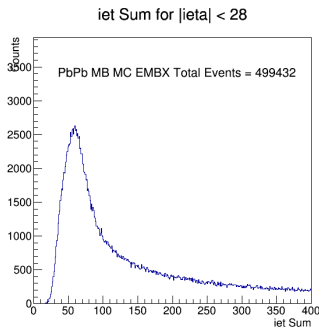
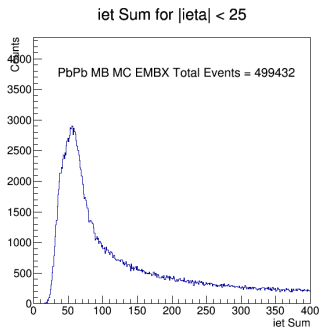
Comment: the sum of iet is greater than 100 for  $|\text{ieta}| < 25$  for XeXe empty bunches data. Therefore, the low EET threshold in MB trigger will not help.

# iet (L1Ntuple) Sum Distribution for $\text{abs}(\text{ieta}) < 25$ and $\text{abs}(\text{ieta}) < 28$ for 2018 Low PU pp (July 9 2018) Data



Comment: the sum of iet is greater than 100 for  $|\text{ieta}| < 25$  and  $|\text{ieta}| < 28$  for Low PU pp empty bunches data (dataset = /HIEmptyBX/XeXeRun2017-v1/RAW, CMS Release = CMSSW\_10\_1\_5, GT = 101X\_dataRun2\_Prompt\_v9).

# iet (L1Ntuple) Sum Distribution for $\text{abs}(i\eta_{\text{a}}) < 25$ and $\text{abs}(i\eta_{\text{a}}) < 28$ for 2018 Low PU pp (July 9 2018) Data



Comment: the sum of iet peaks near 60 for  $|i\eta_{\text{a}}| < 25$  and  $|i\eta_{\text{a}}| < 28$  for PbPb MC MB data (dataset = /HIEmptyBX/XeXeRun2017-v1/RAW, CMS Release = CMSSW\_10\_1\_5, GT = 101X\_dataRun2\_Prompt\_v9). Therefore, the study based on PbPb MC MB data is not reliable for real