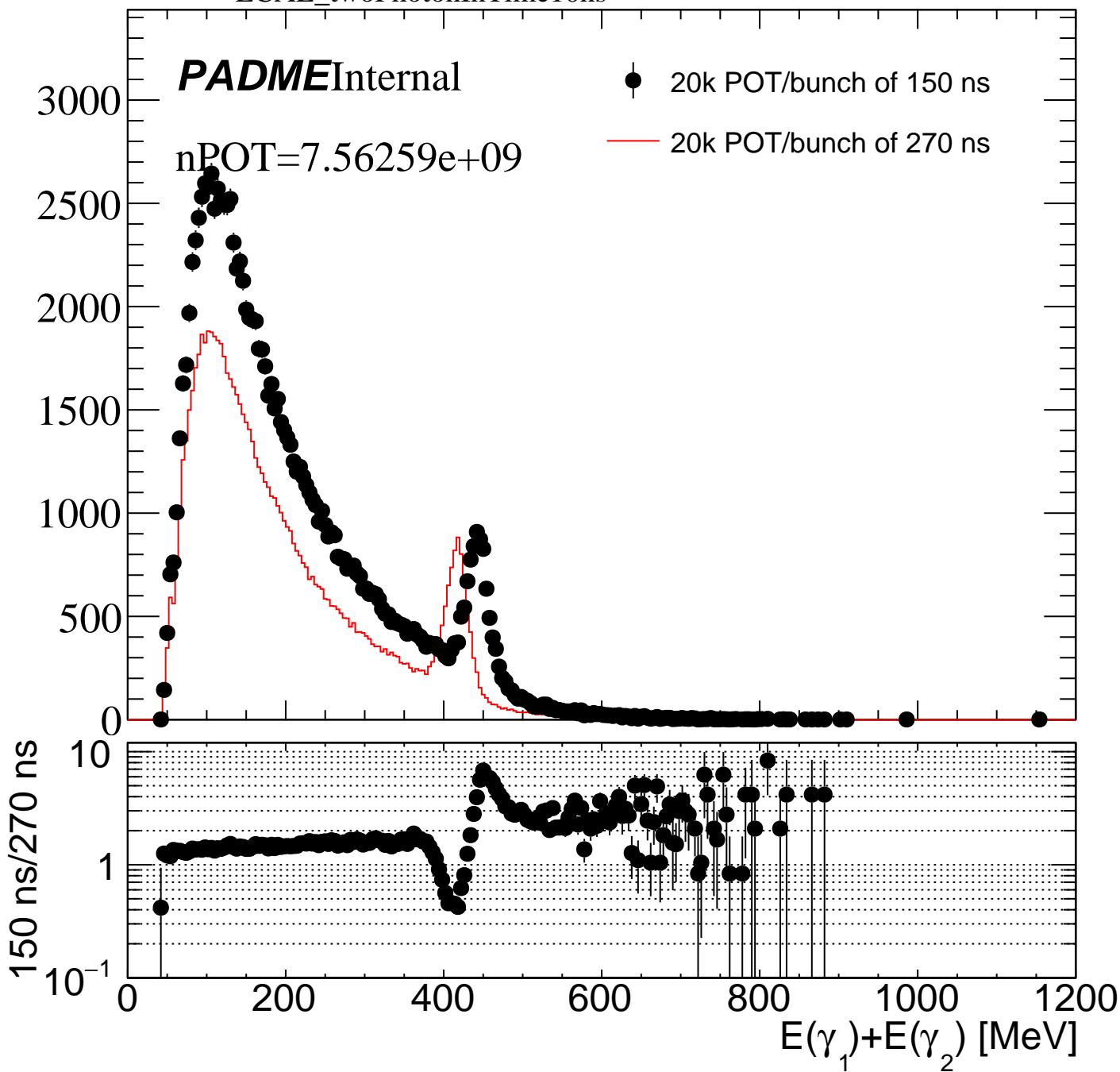
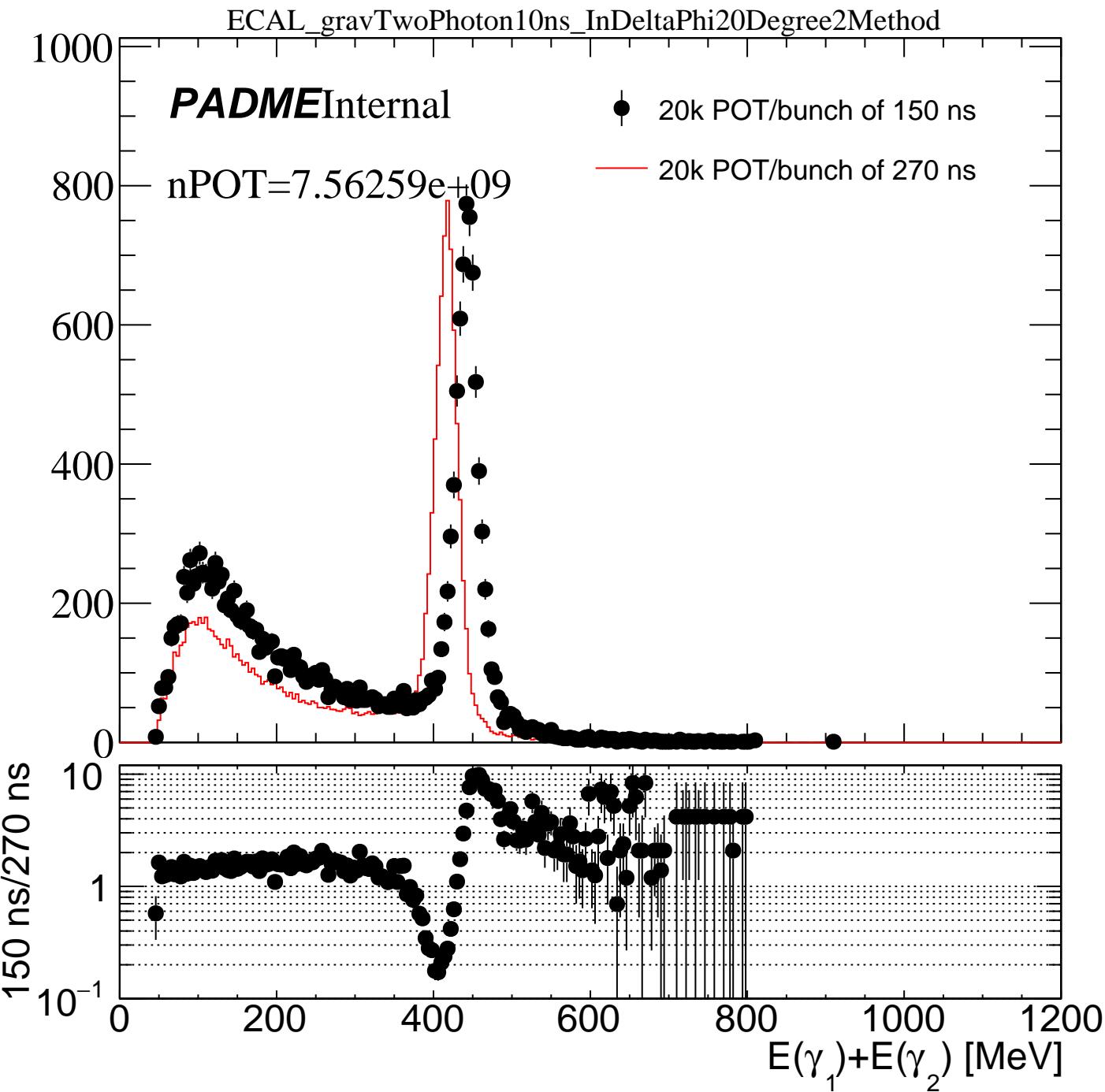
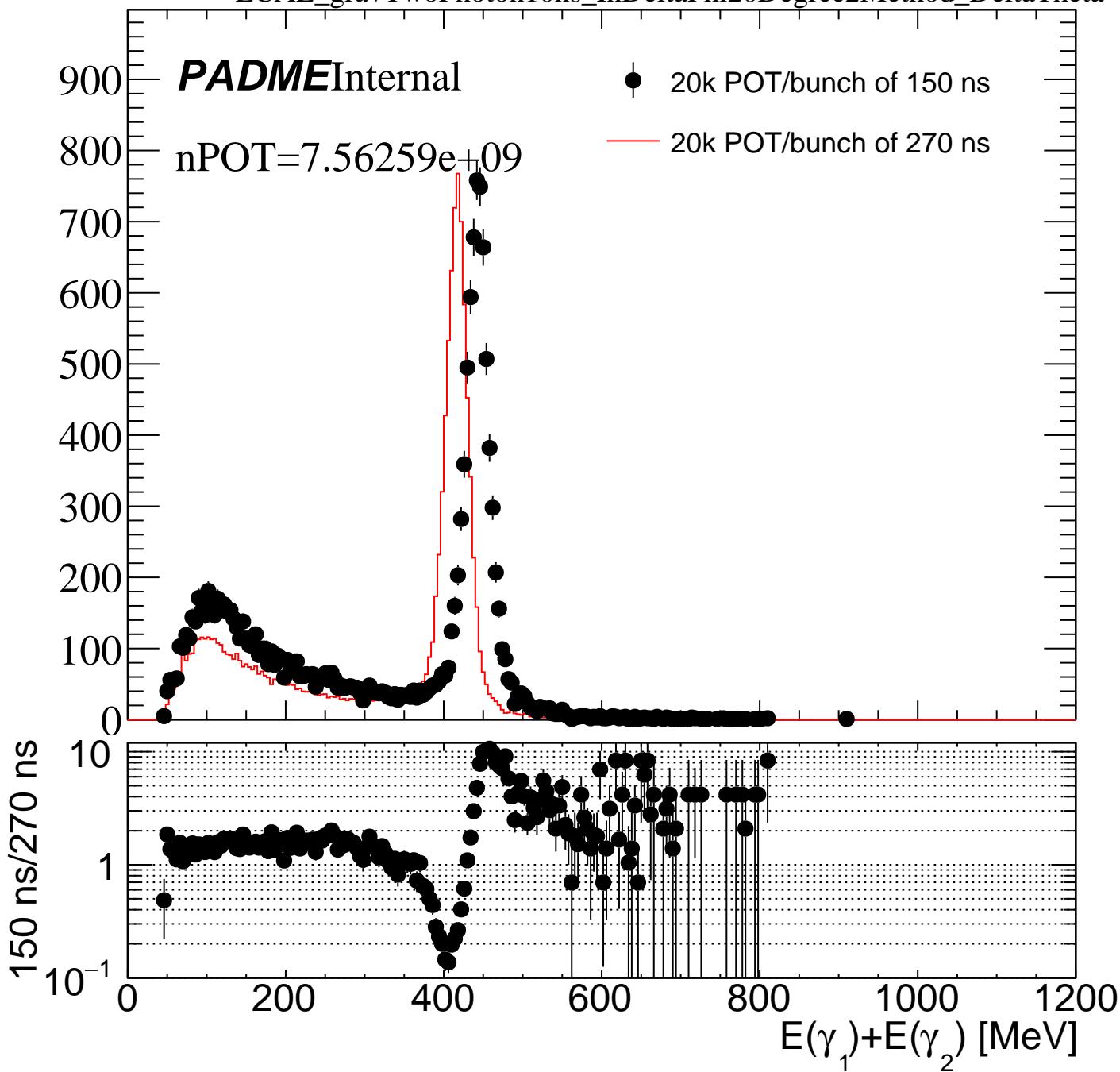


ECAL\_twoPhotonInTime10ns

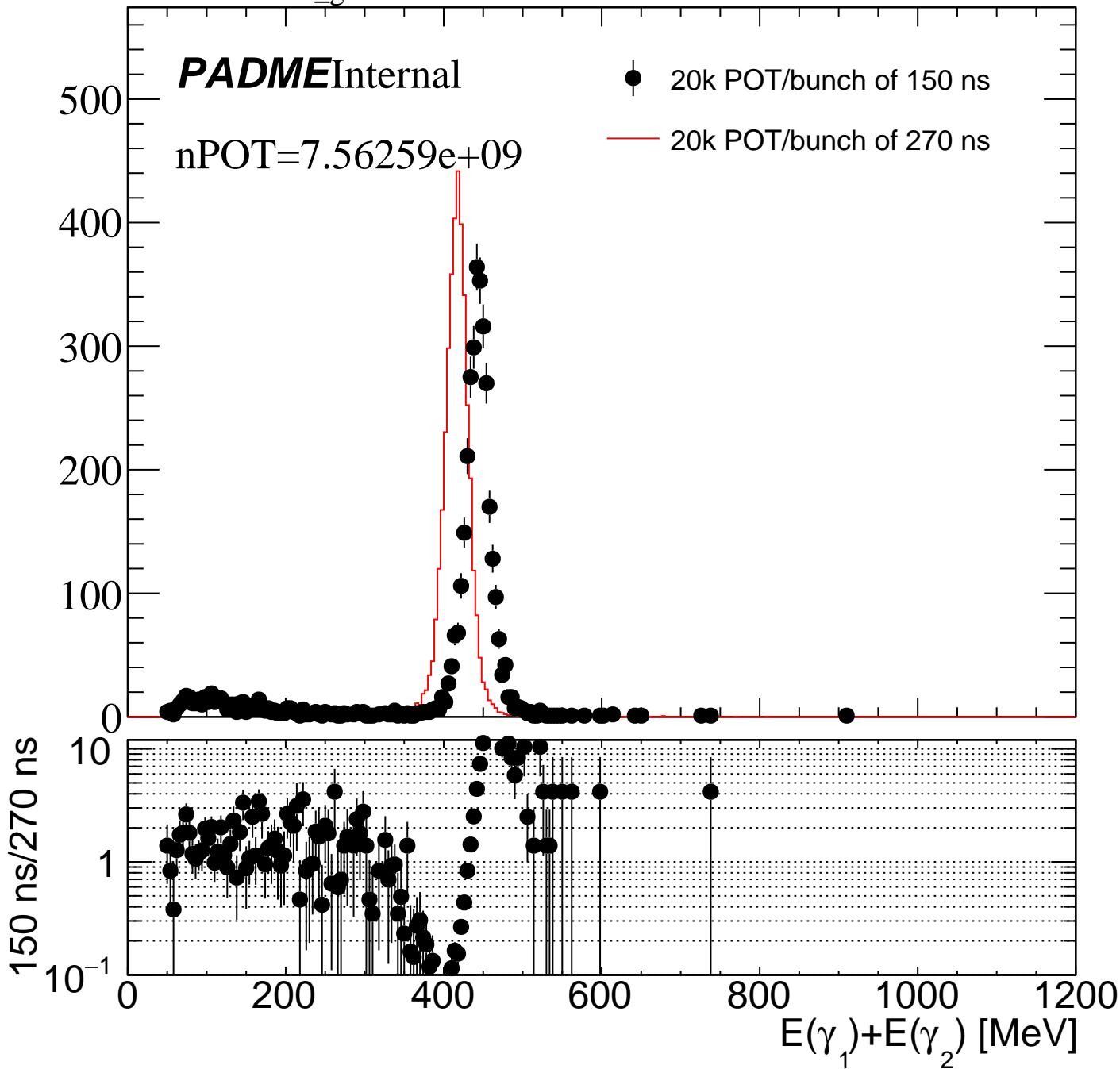




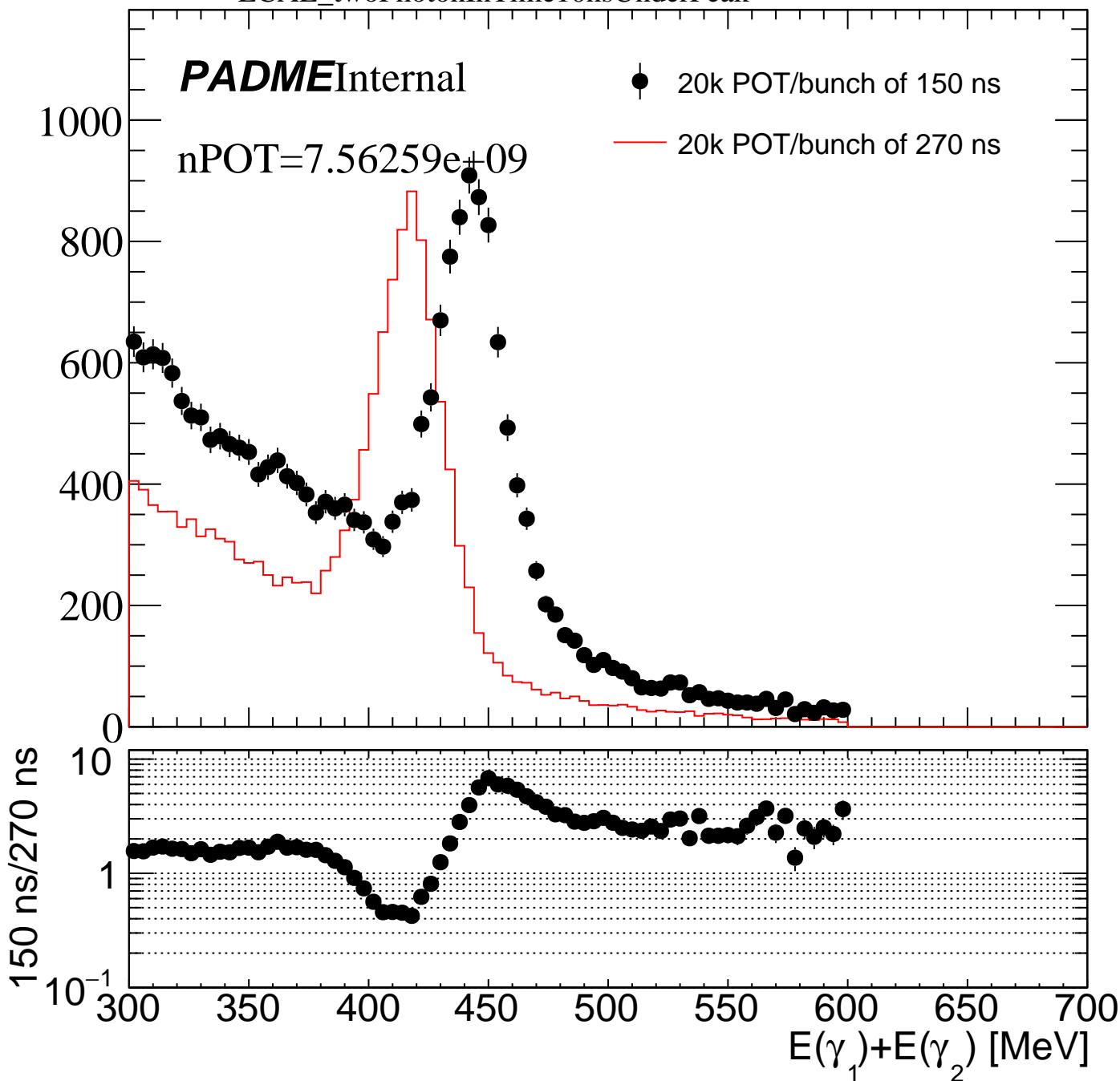
ECAL\_gravTwoPhoton10ns\_InDeltaPhi20Degree2Method\_DeltaTheta



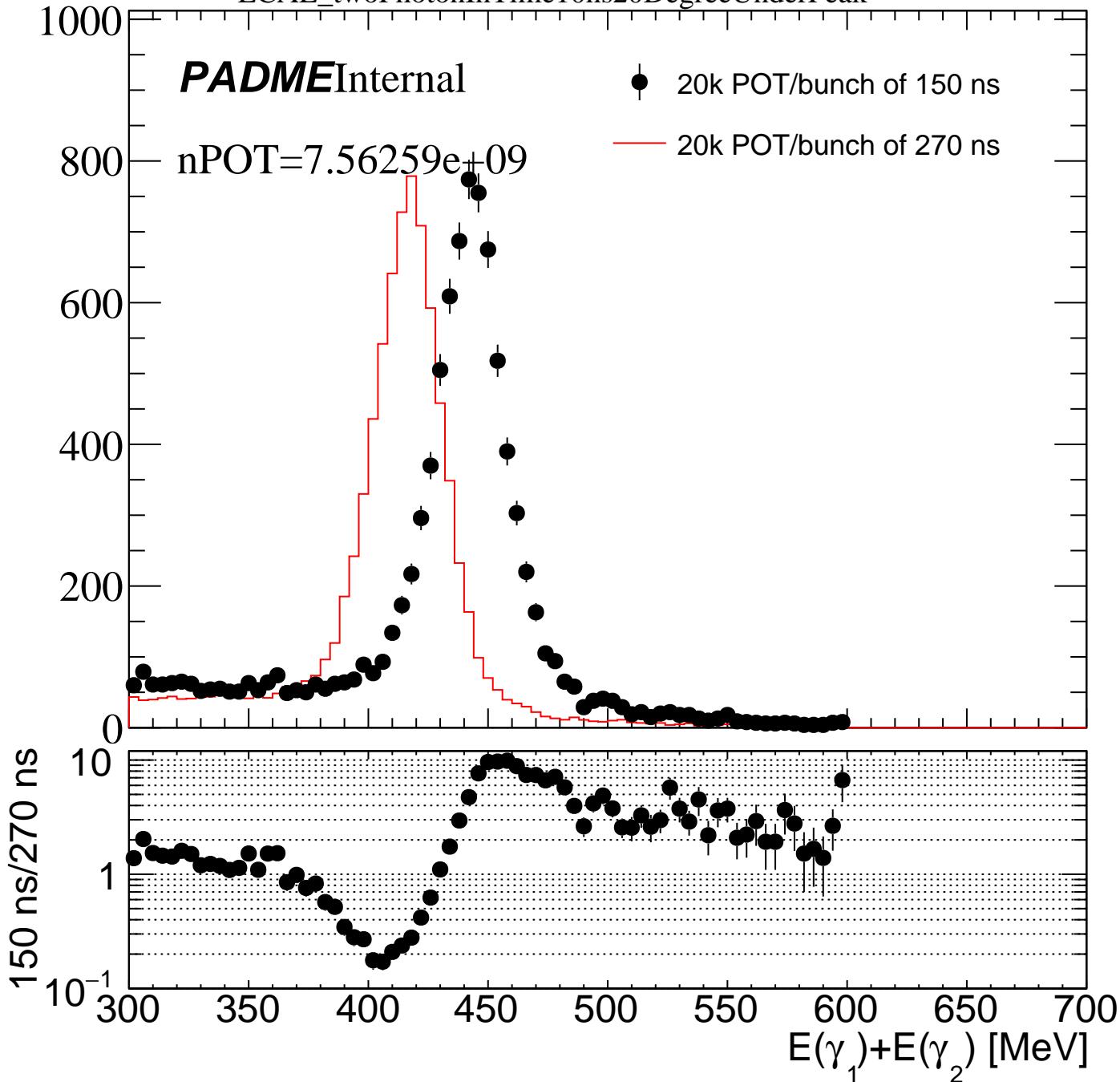
ECAL\_gravTwoPhoton10ns1cm



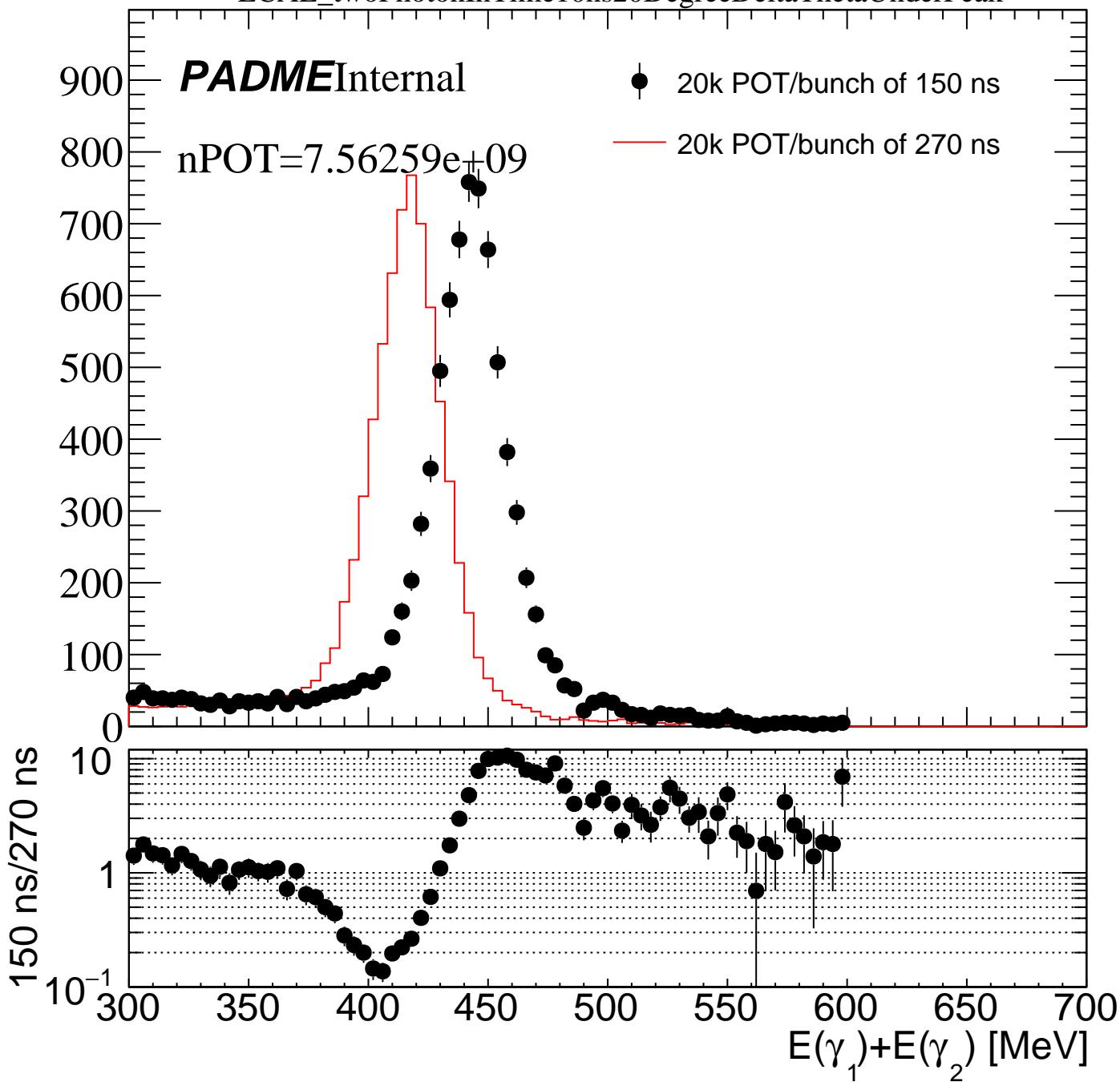
ECAL\_twoPhotonInTime10nsUnderPeak



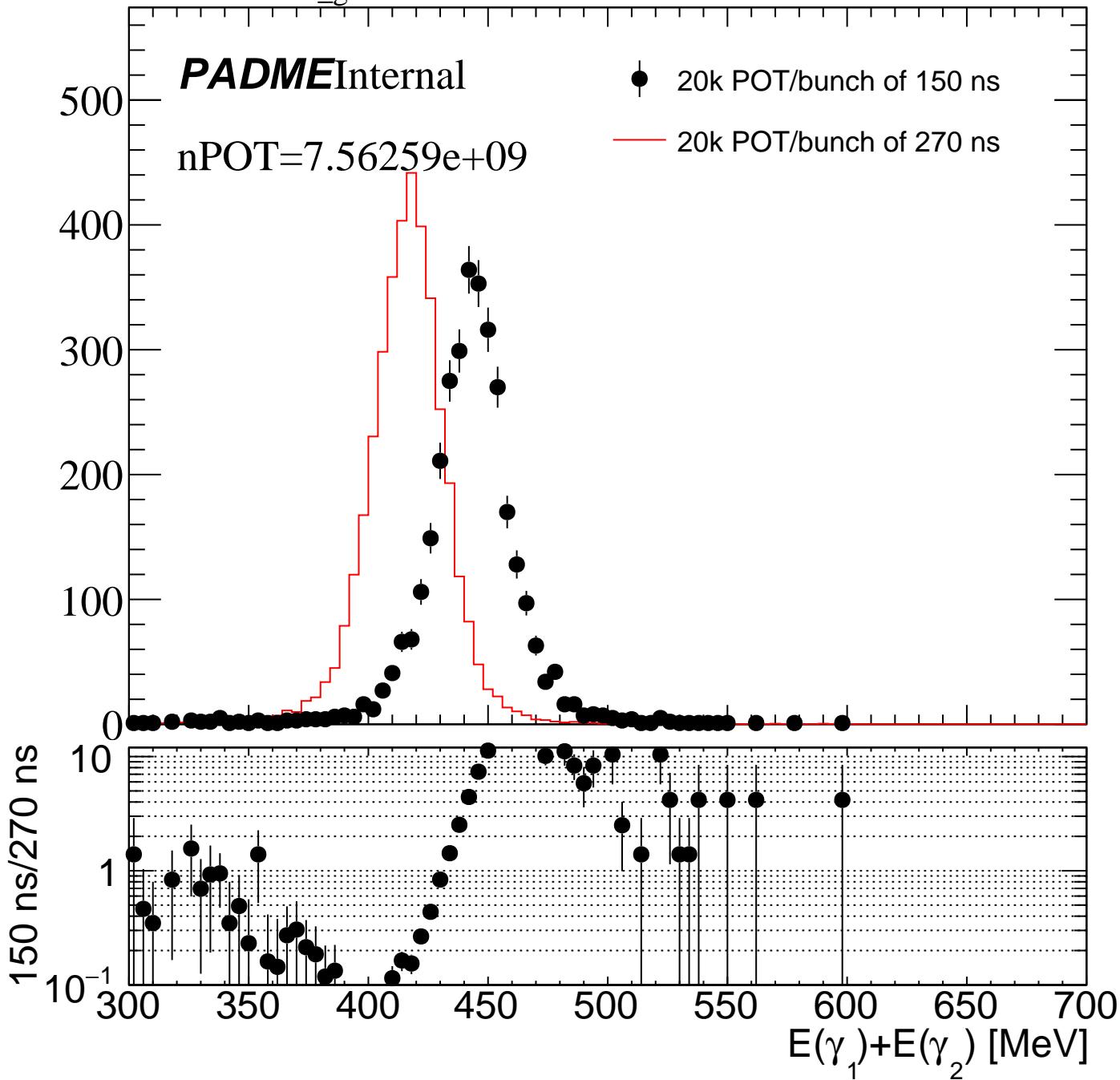
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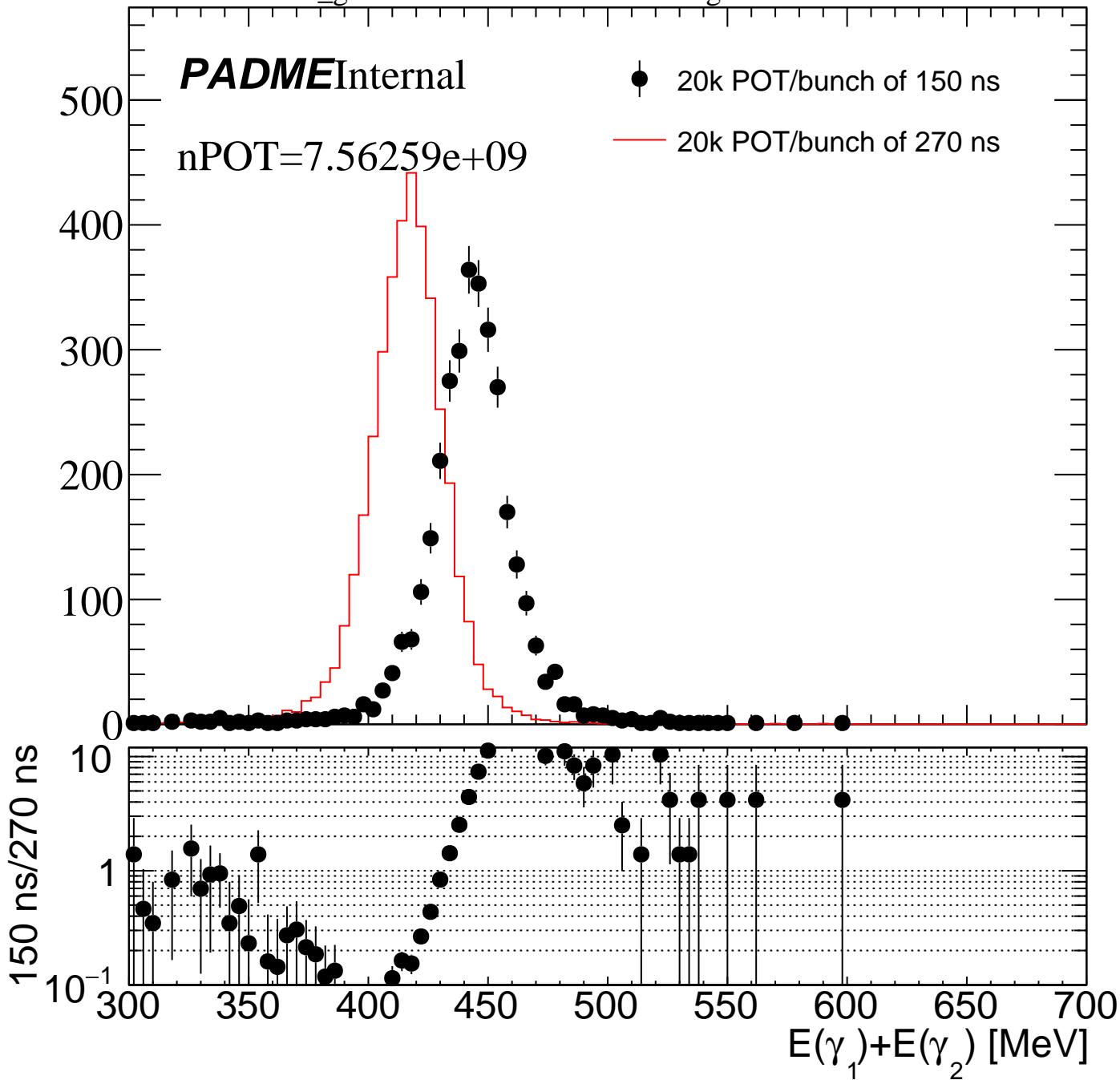
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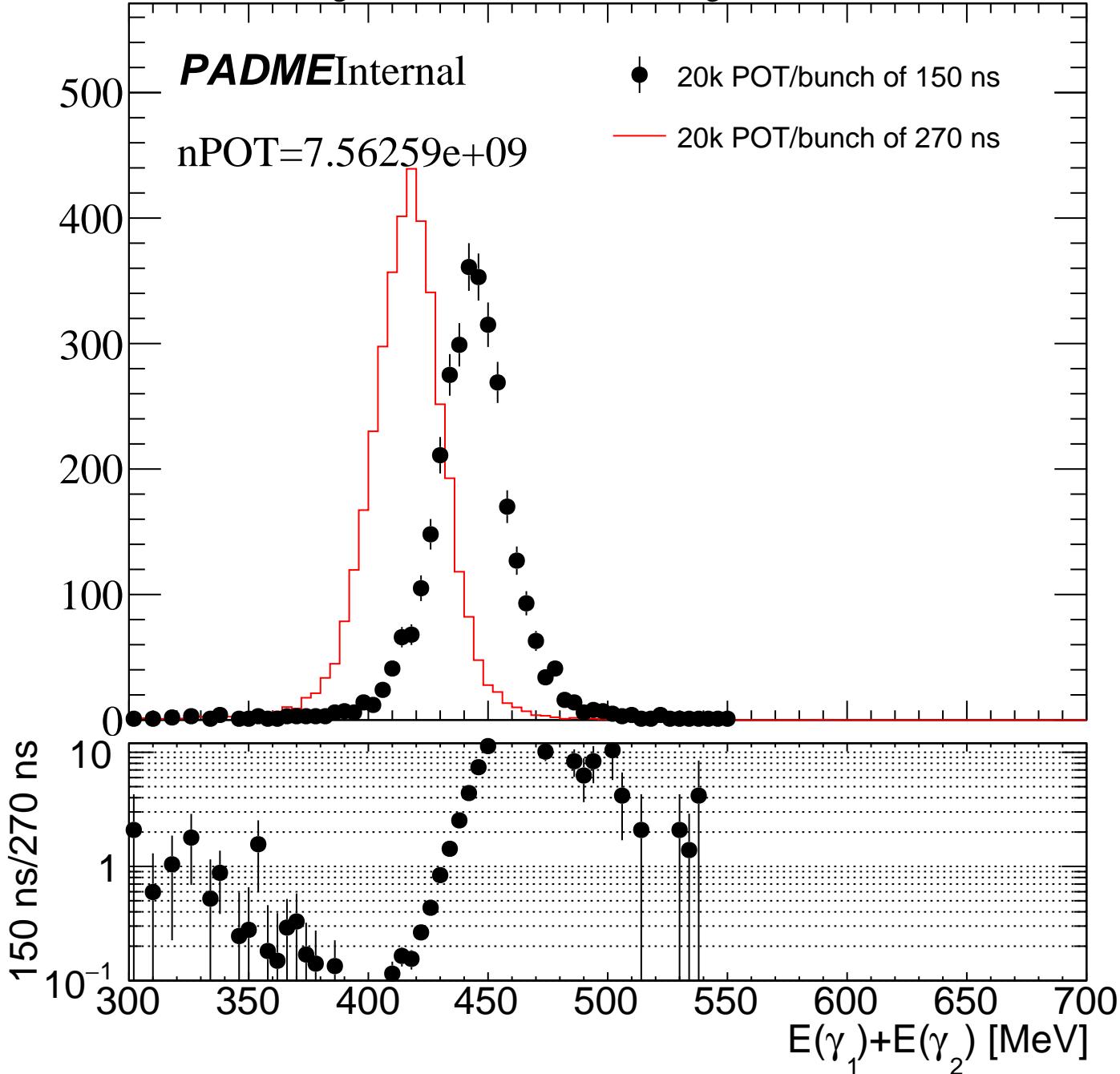
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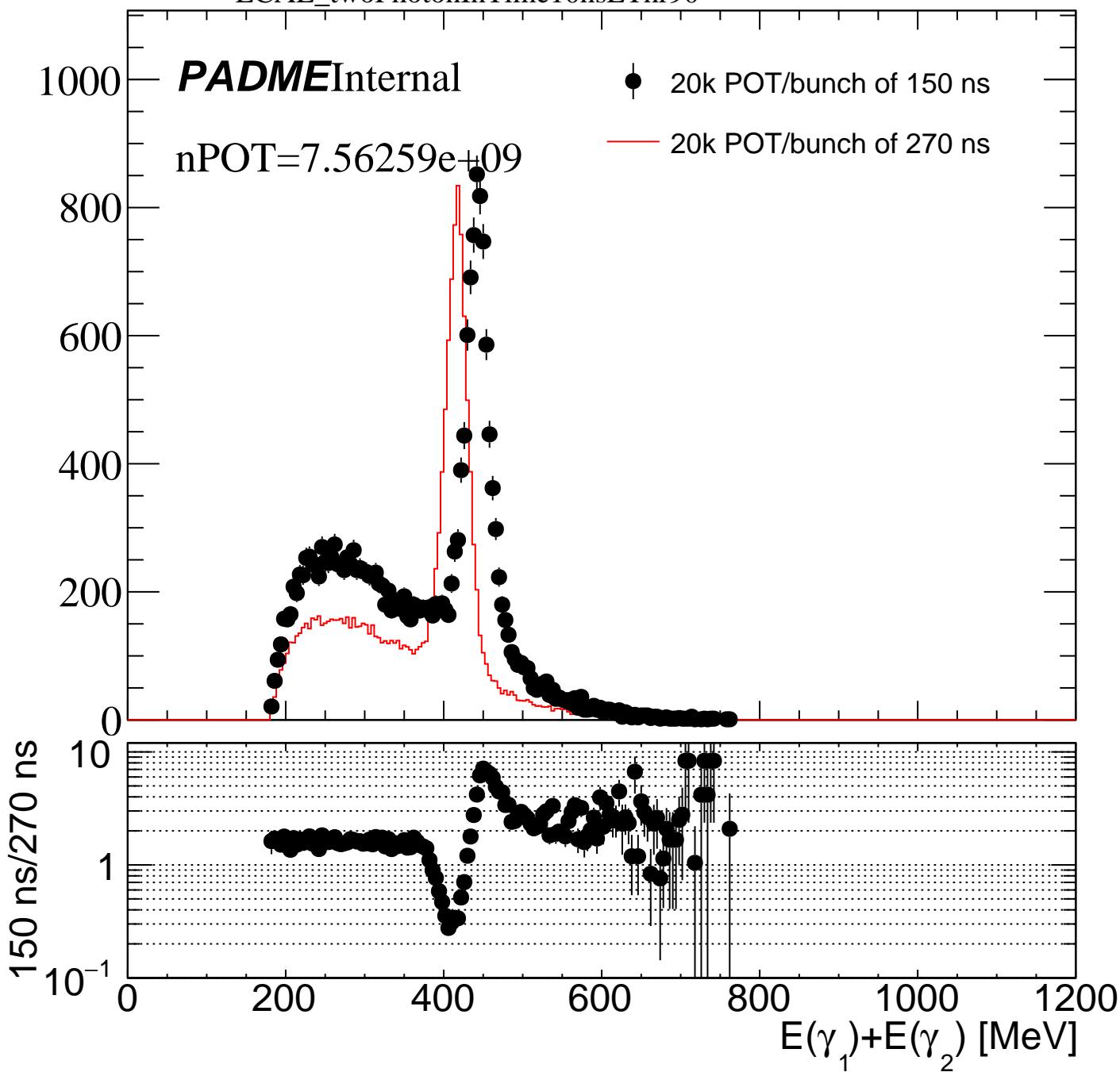
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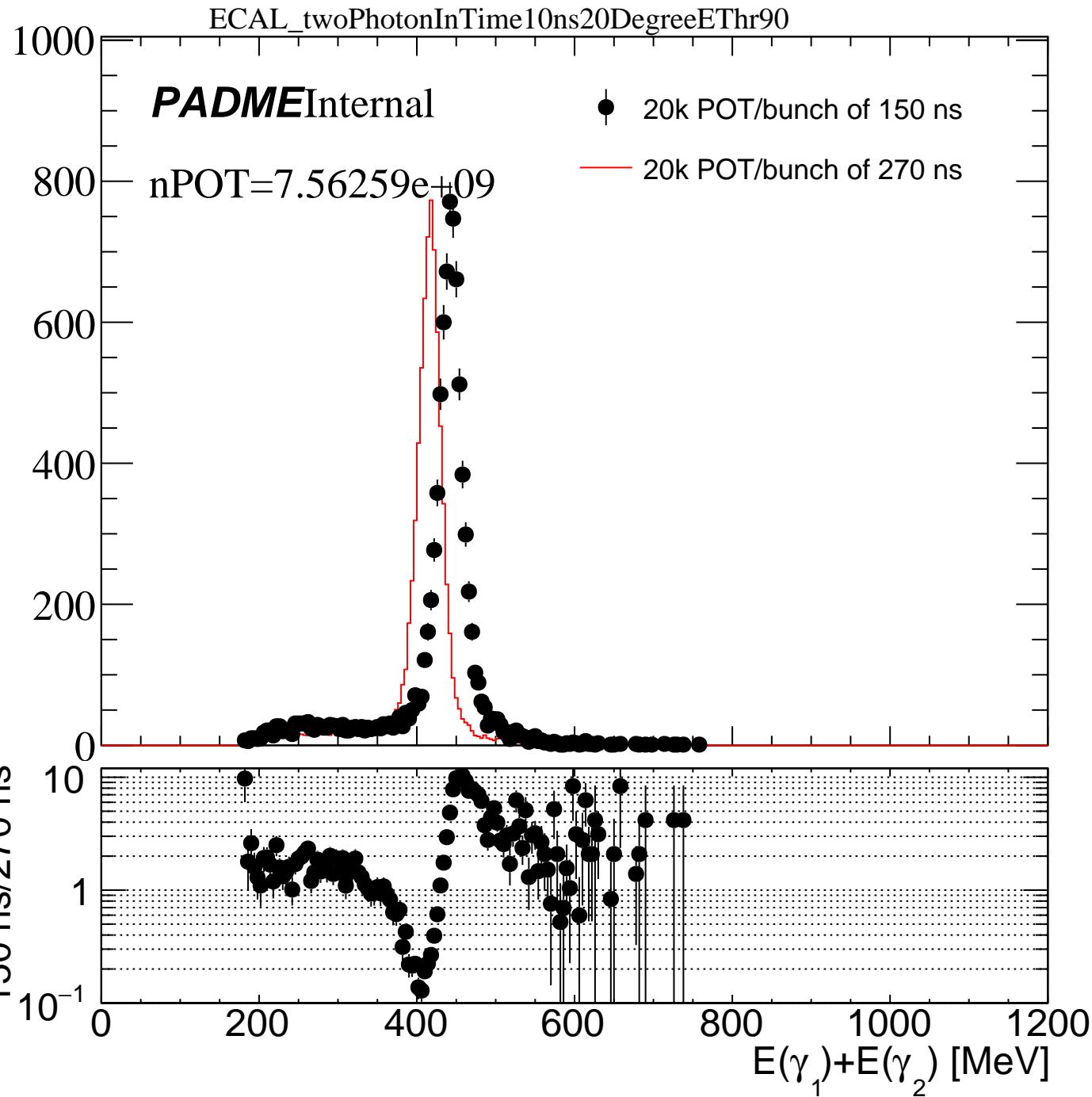


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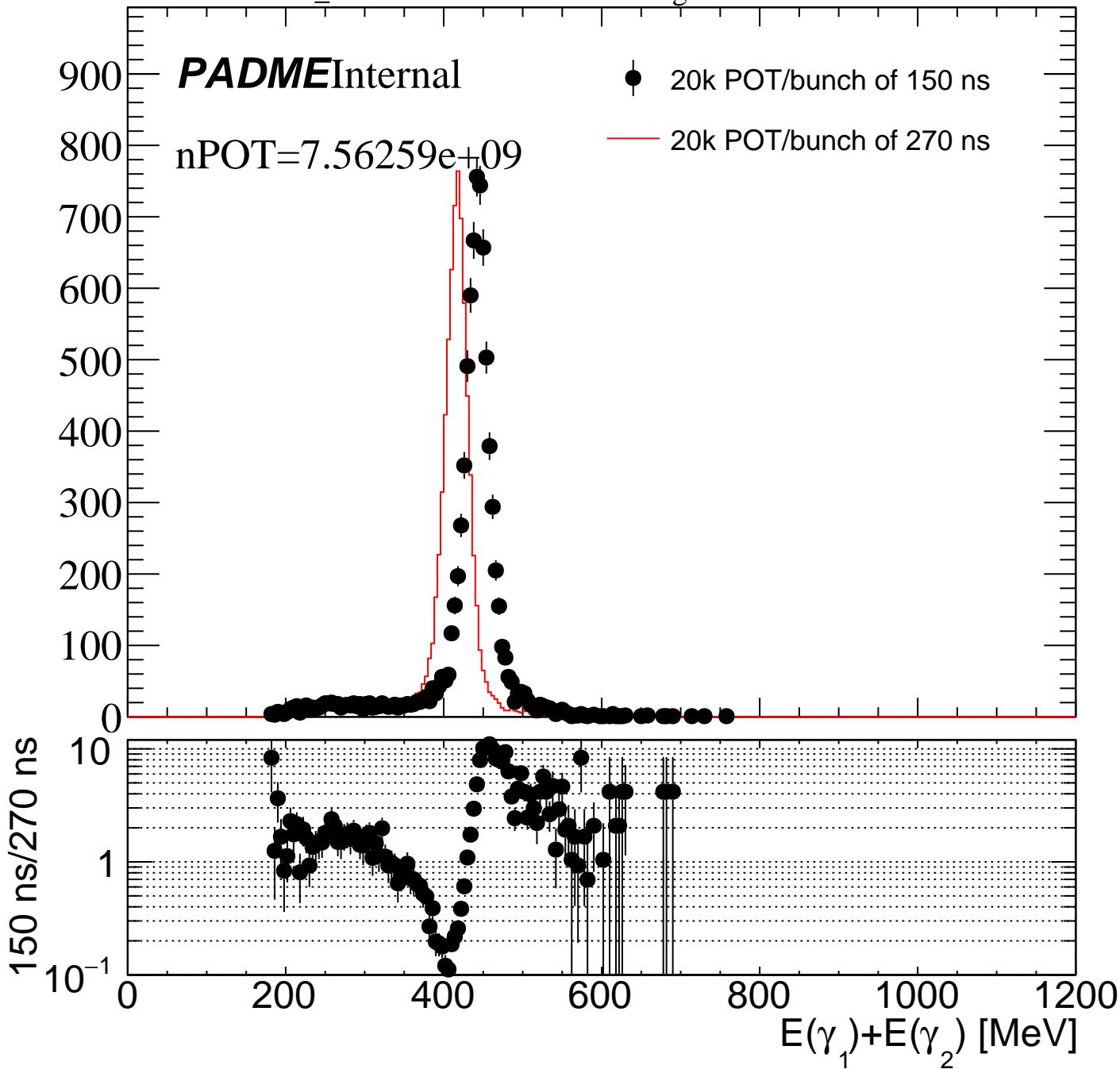


ECAL\_twoPhotonInTime10nsEThr90

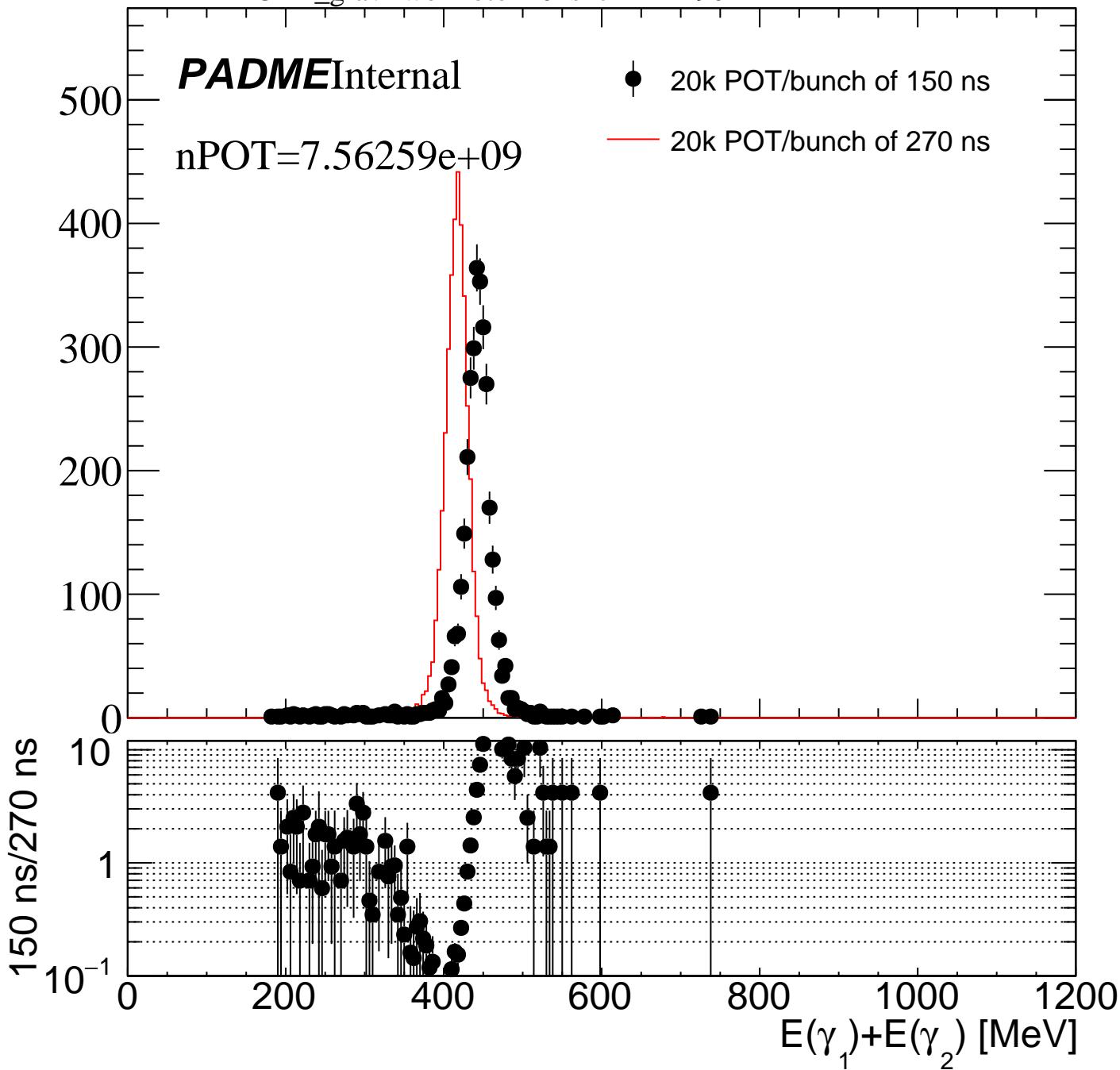




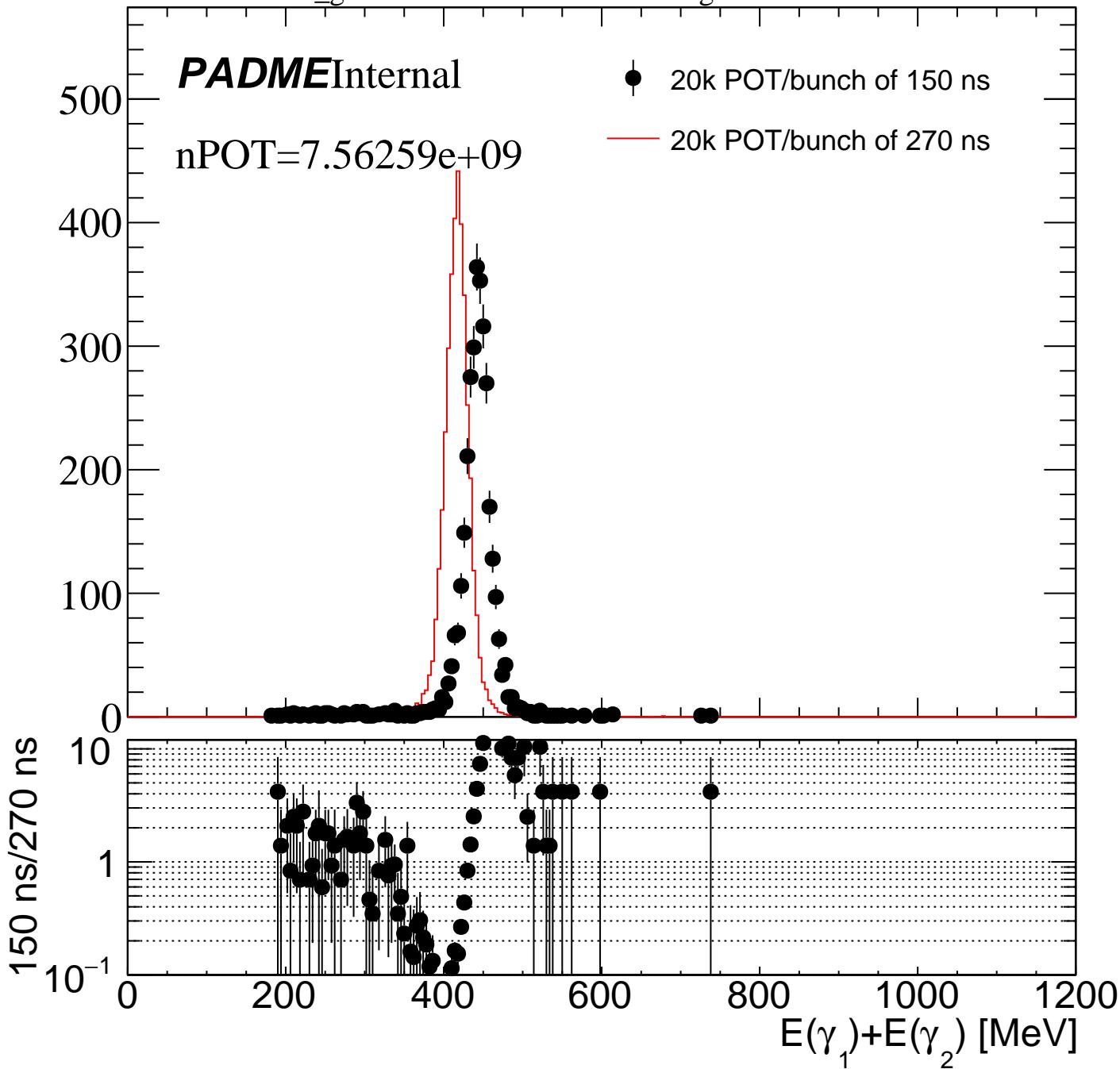
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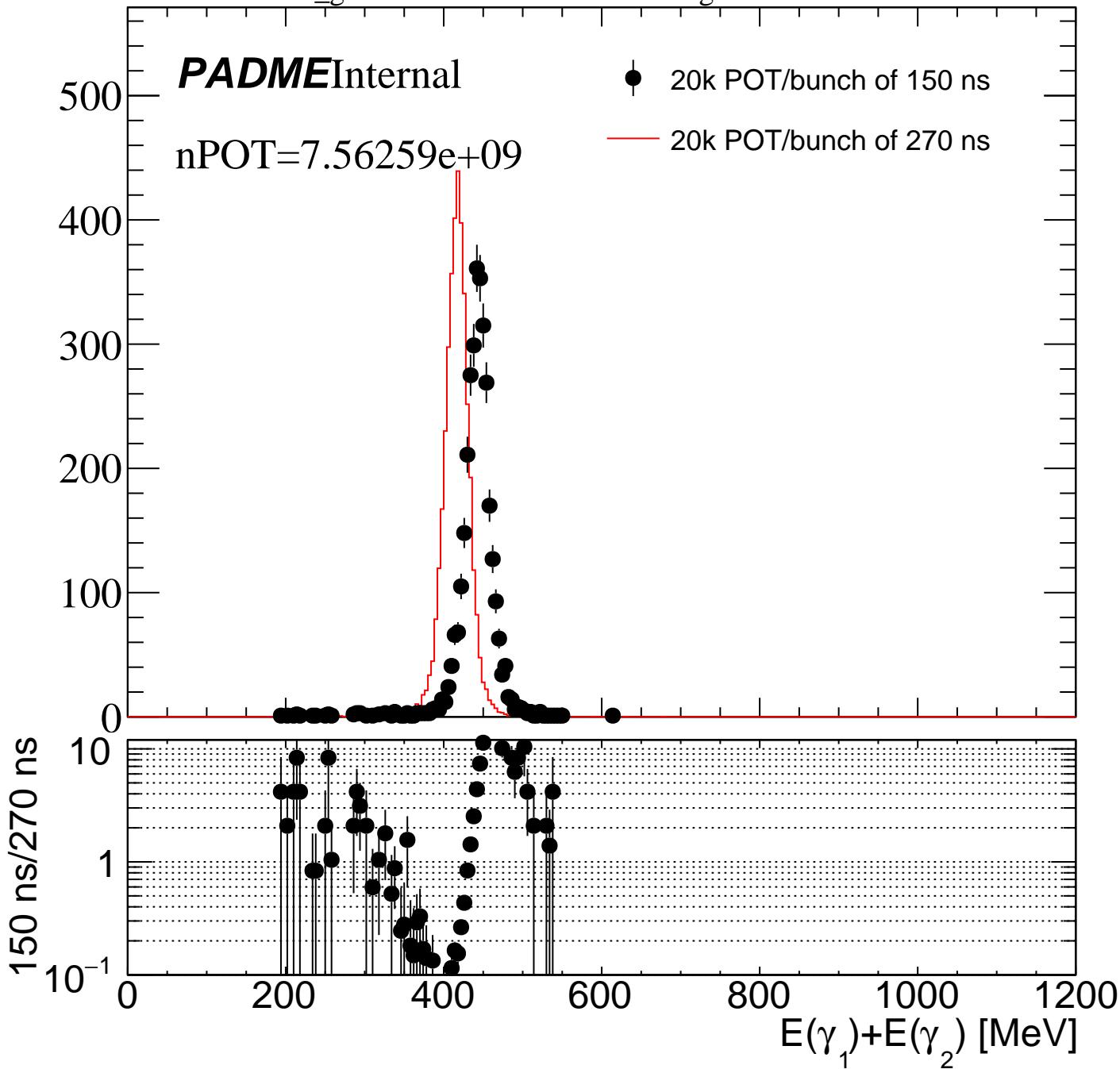
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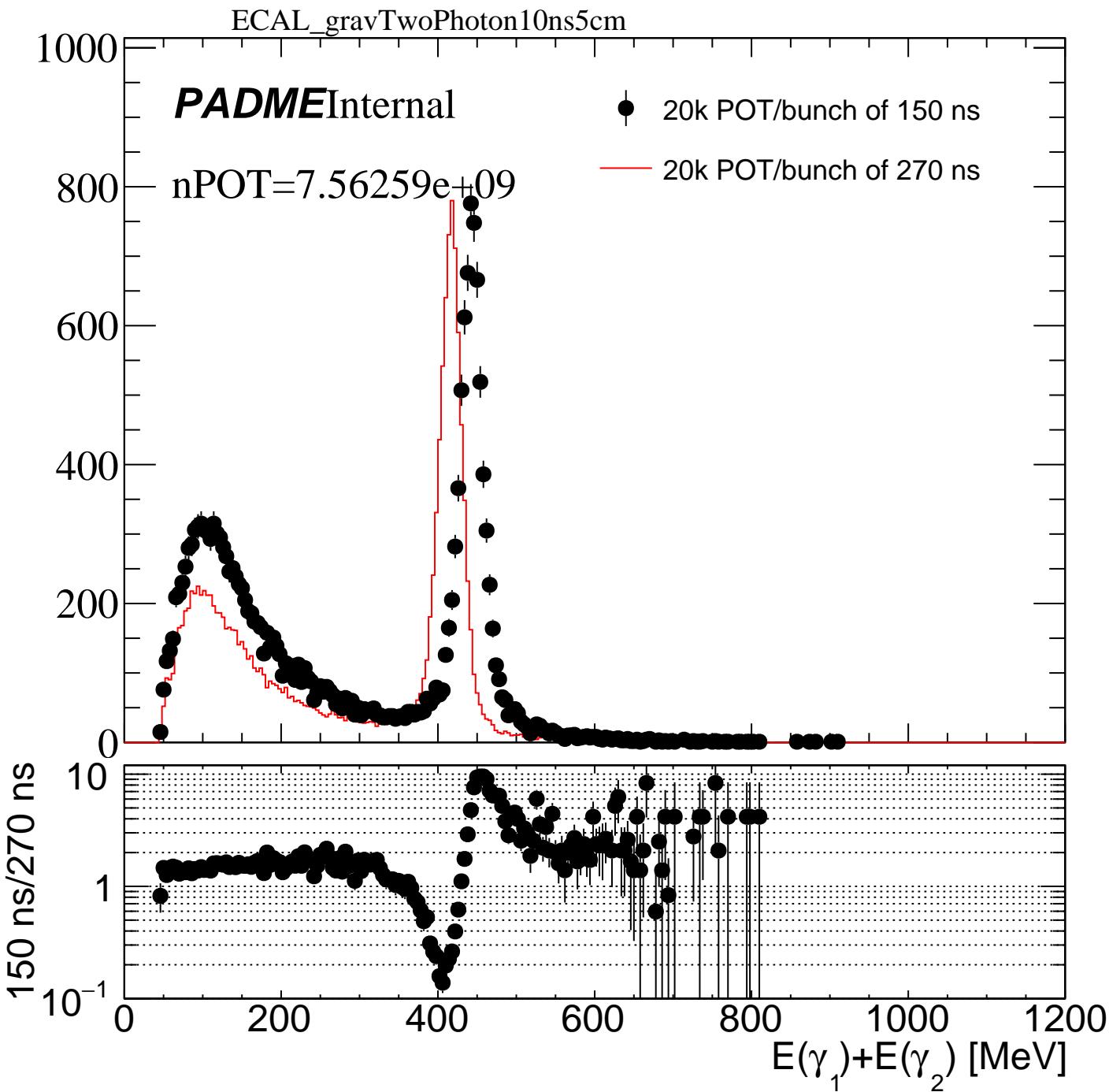


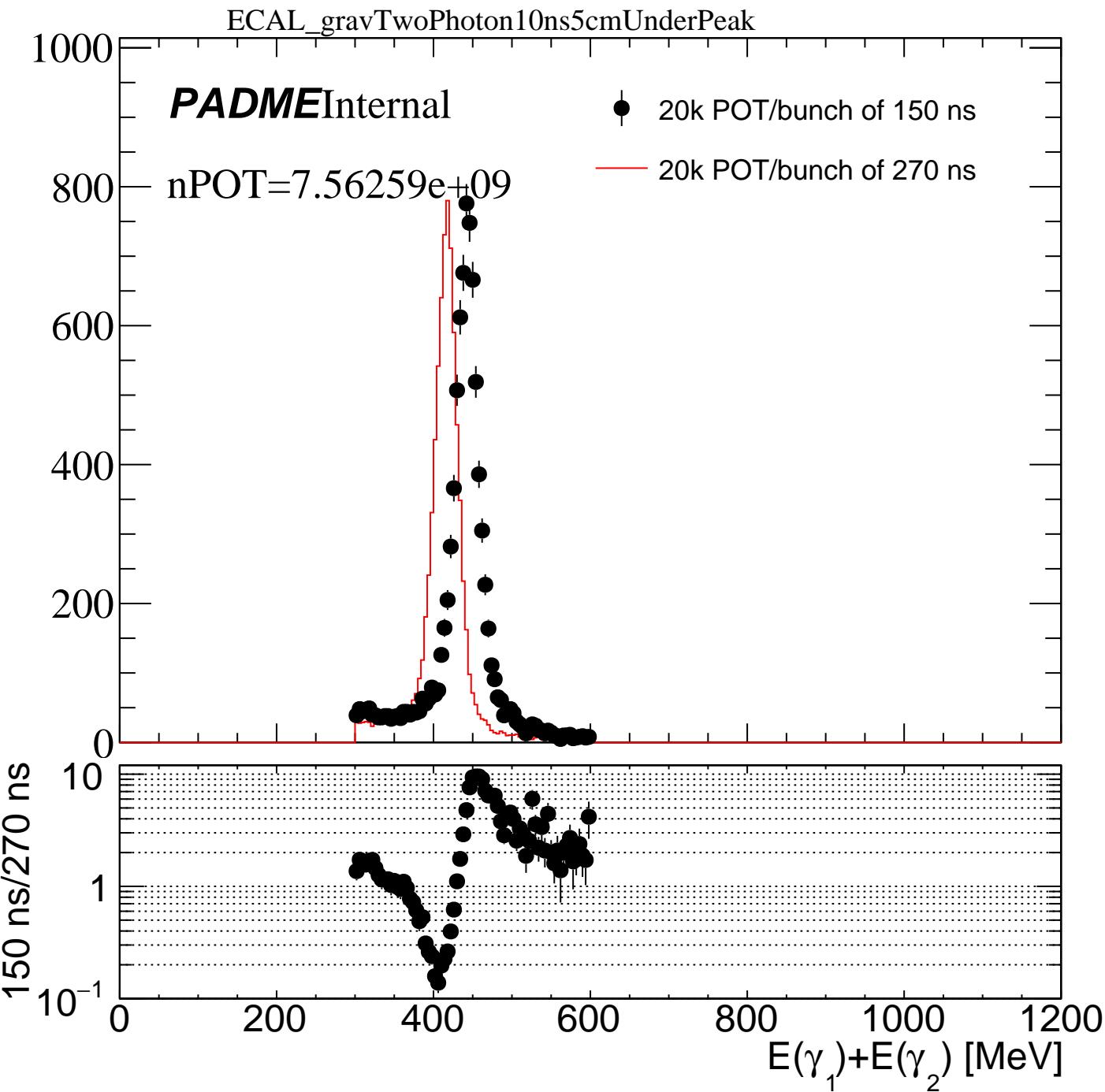
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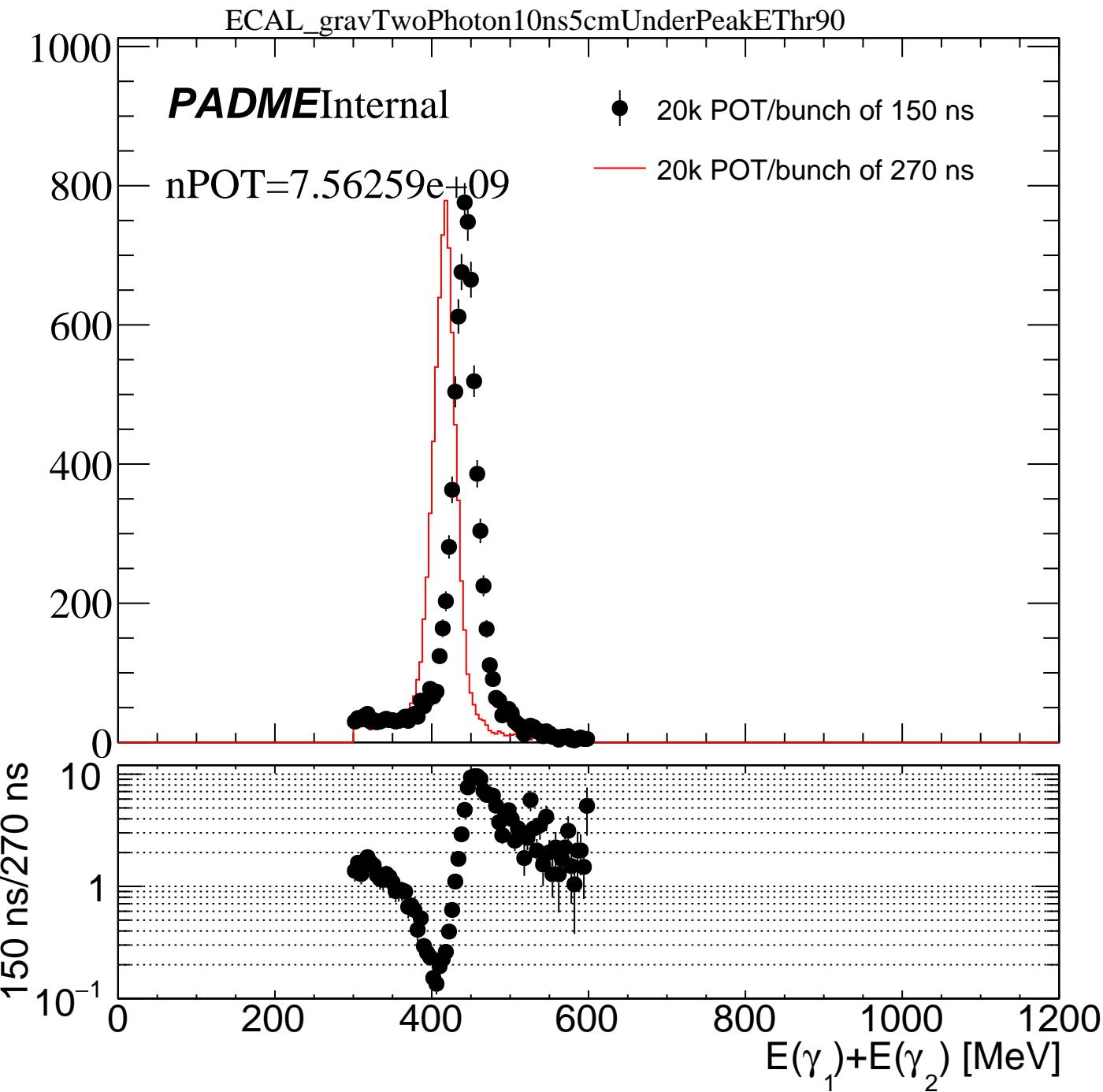


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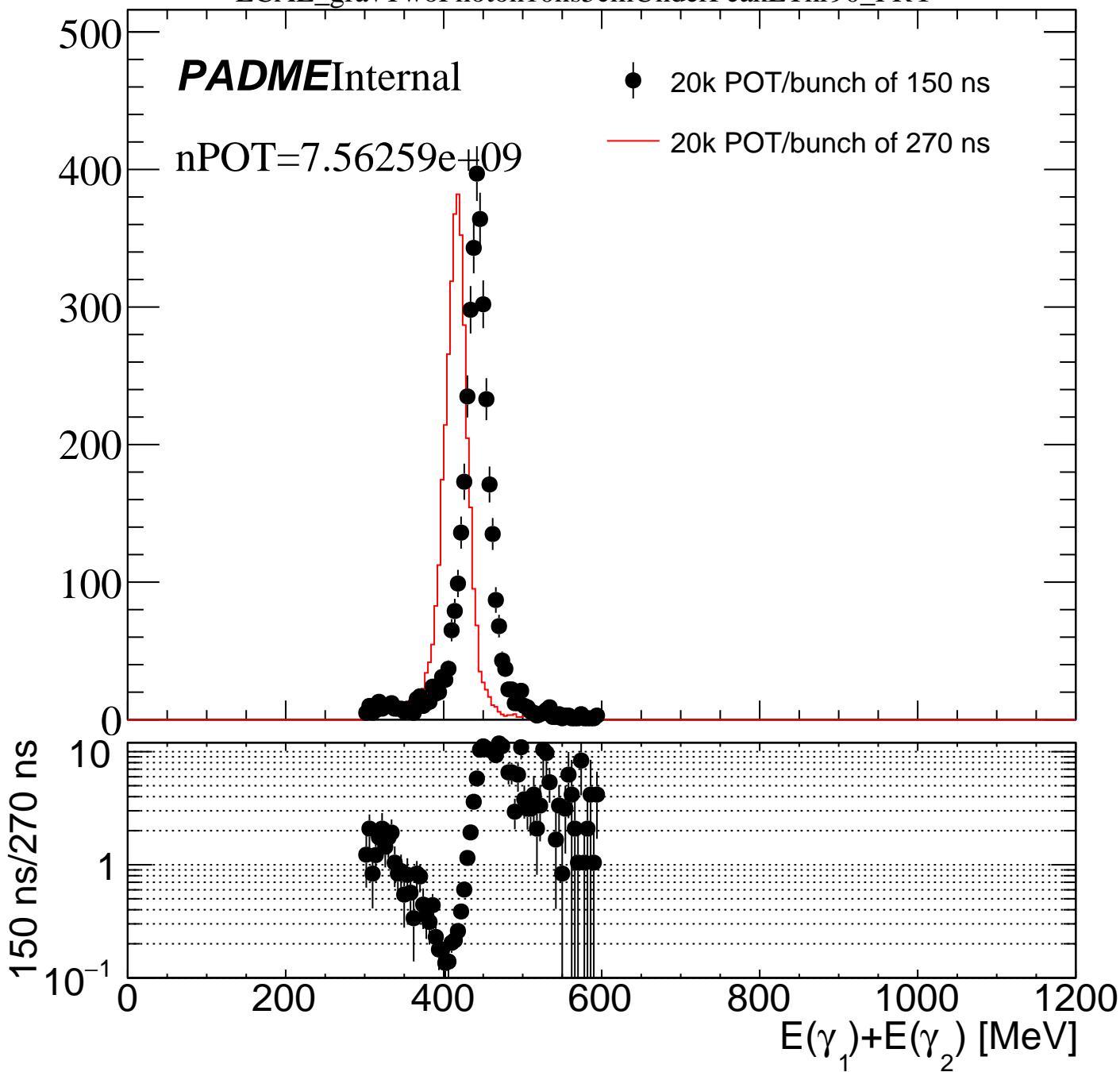


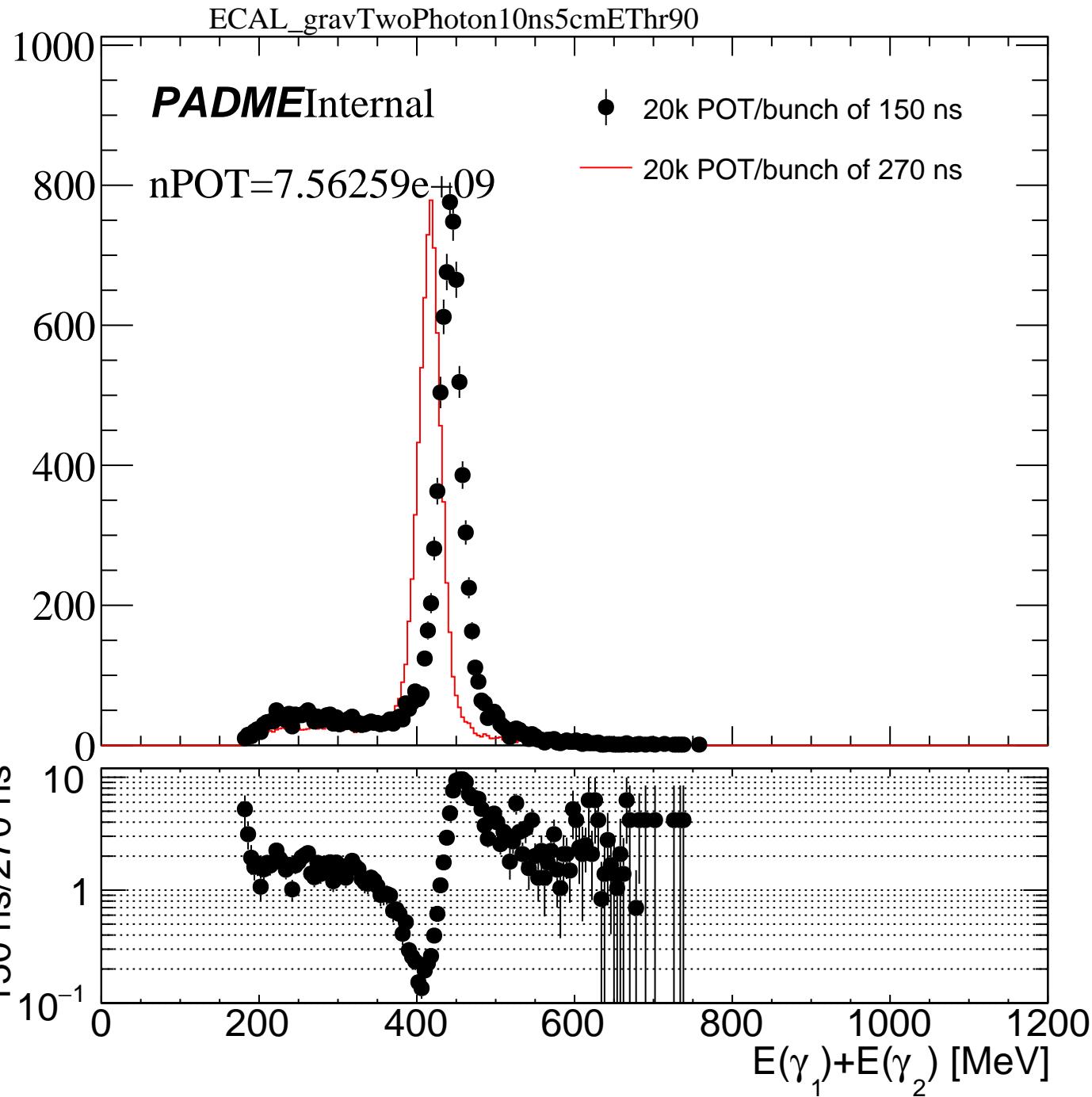




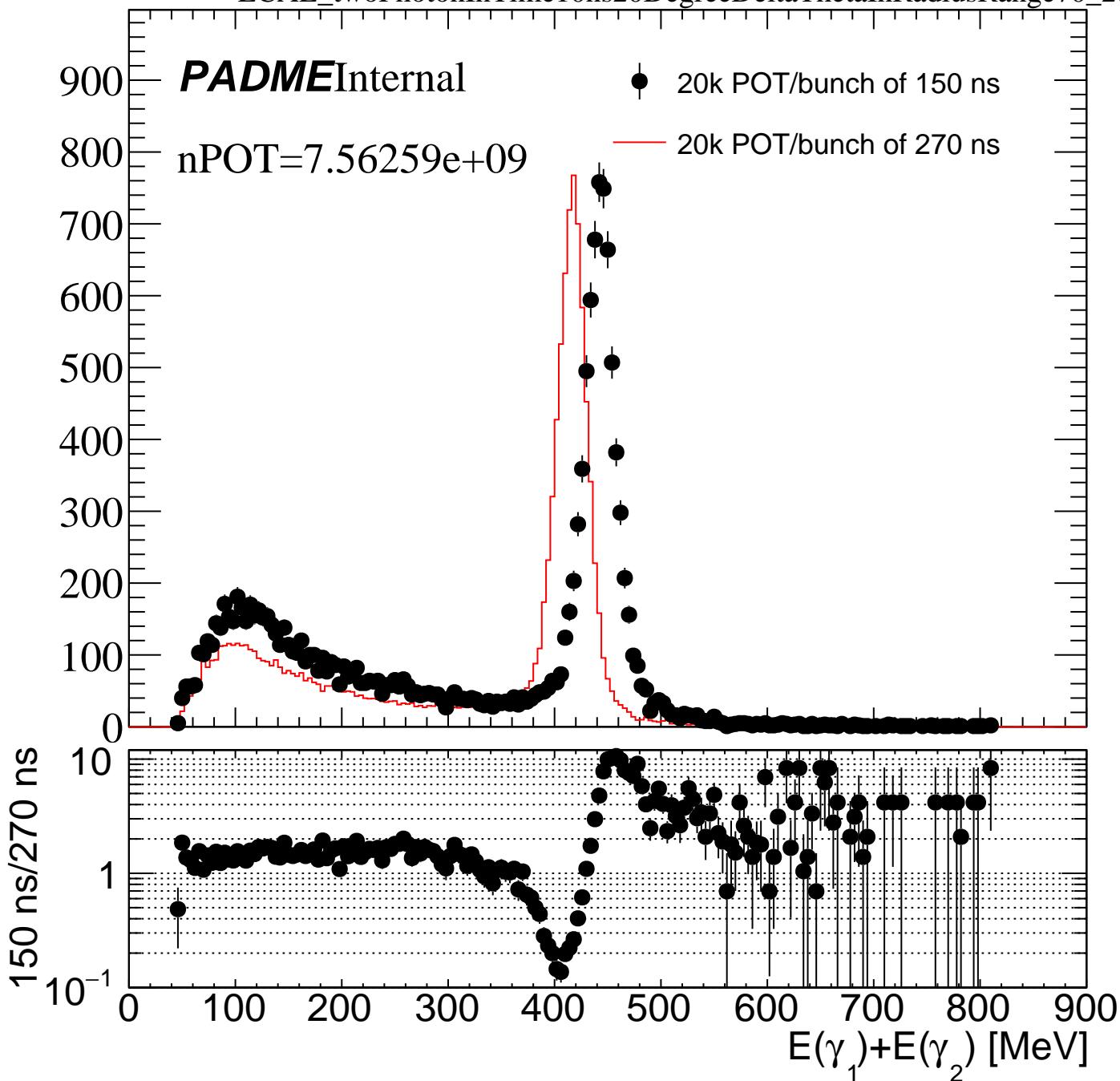


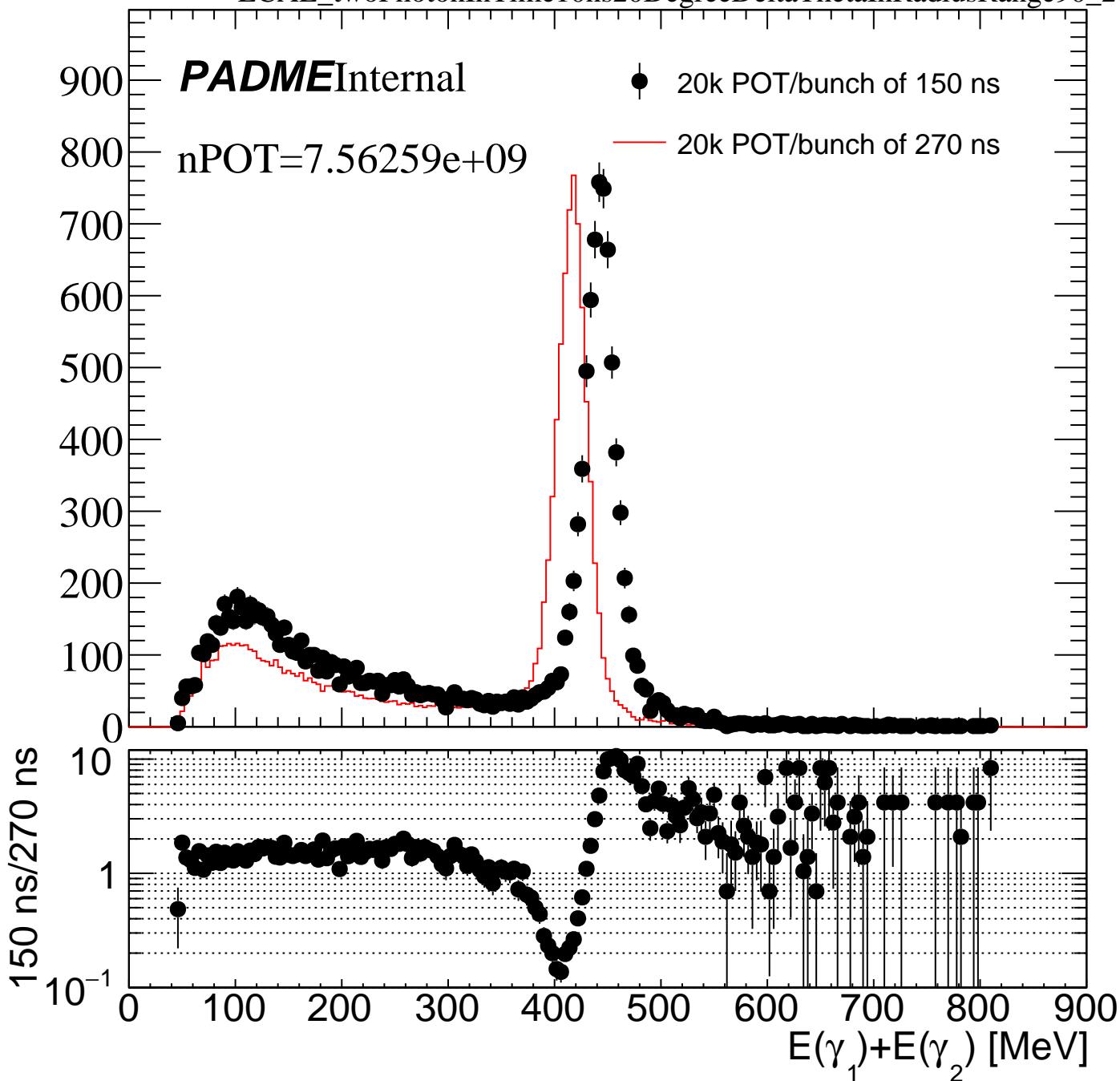
ECAL\_gravTwoPhoton10ns5cmUnderPeakEThr90\_FRY

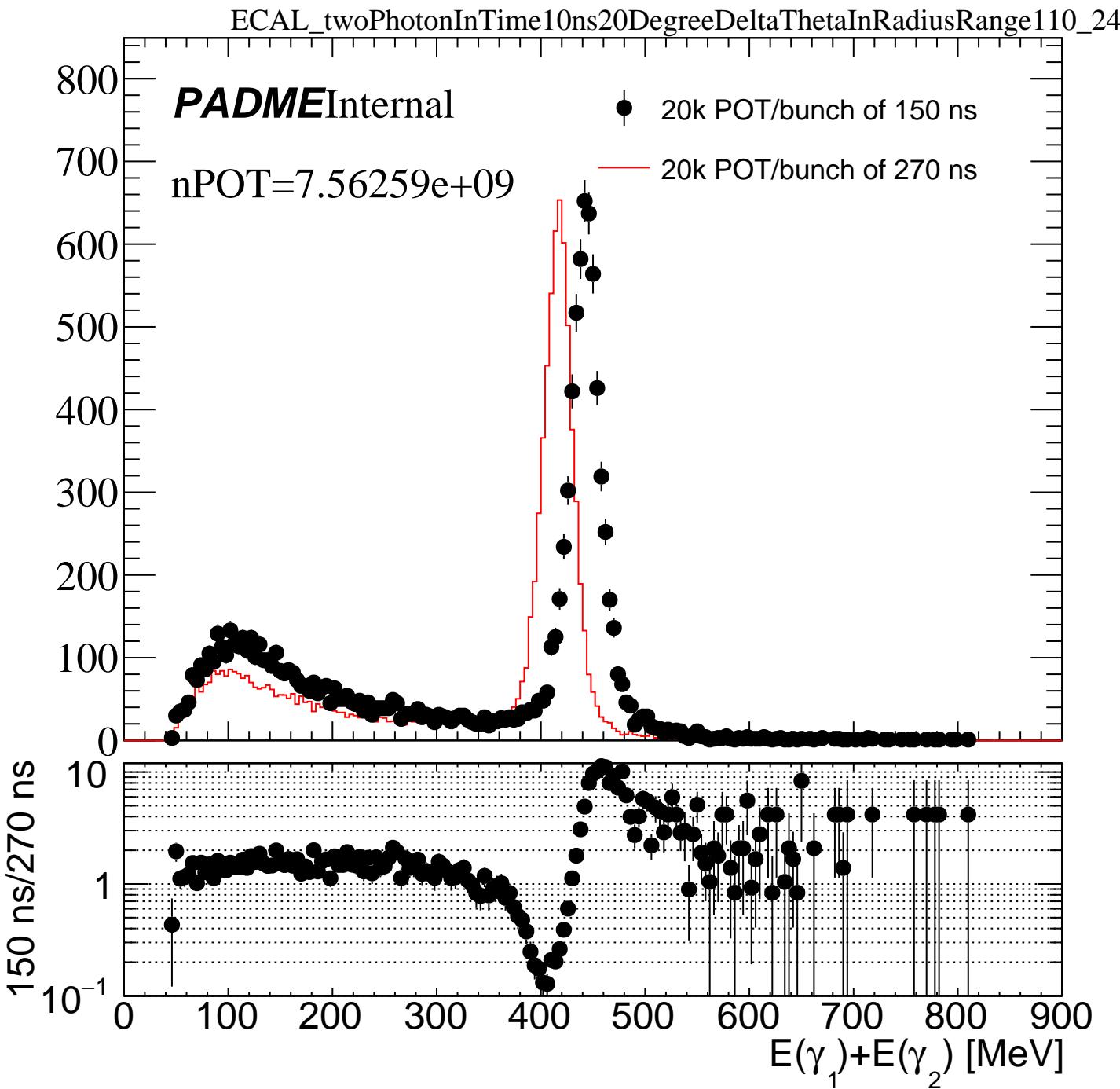




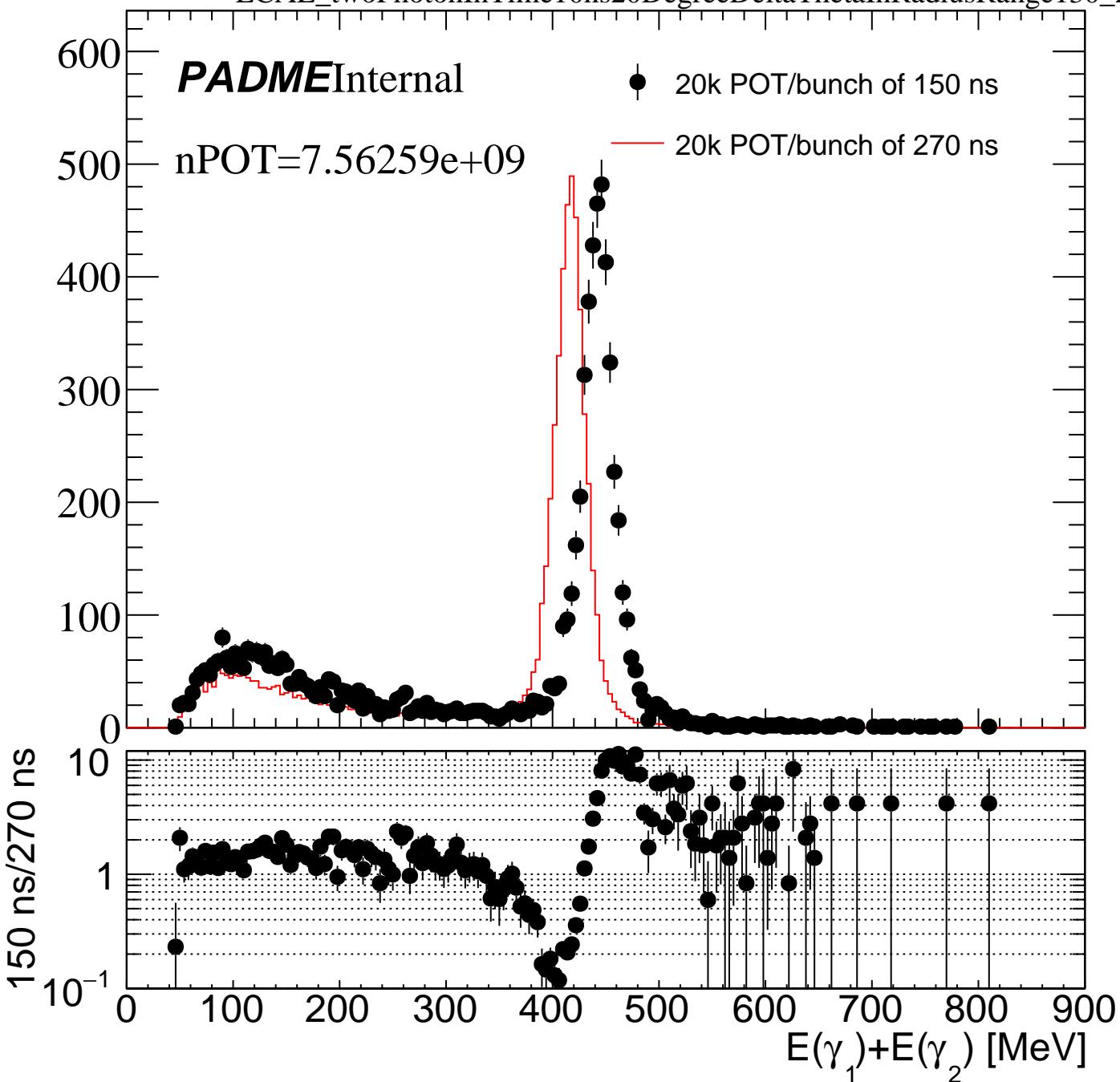
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70\_280

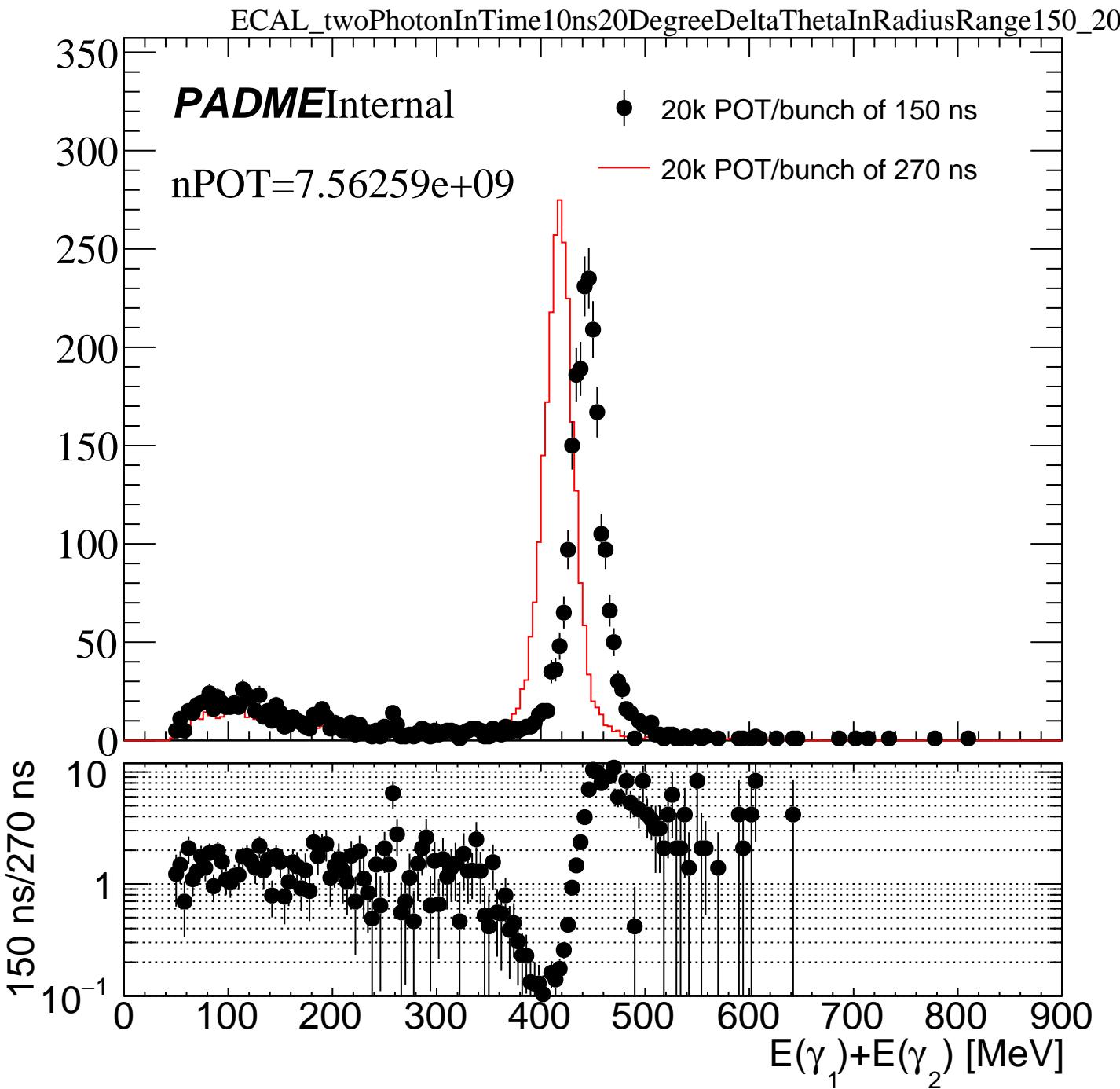


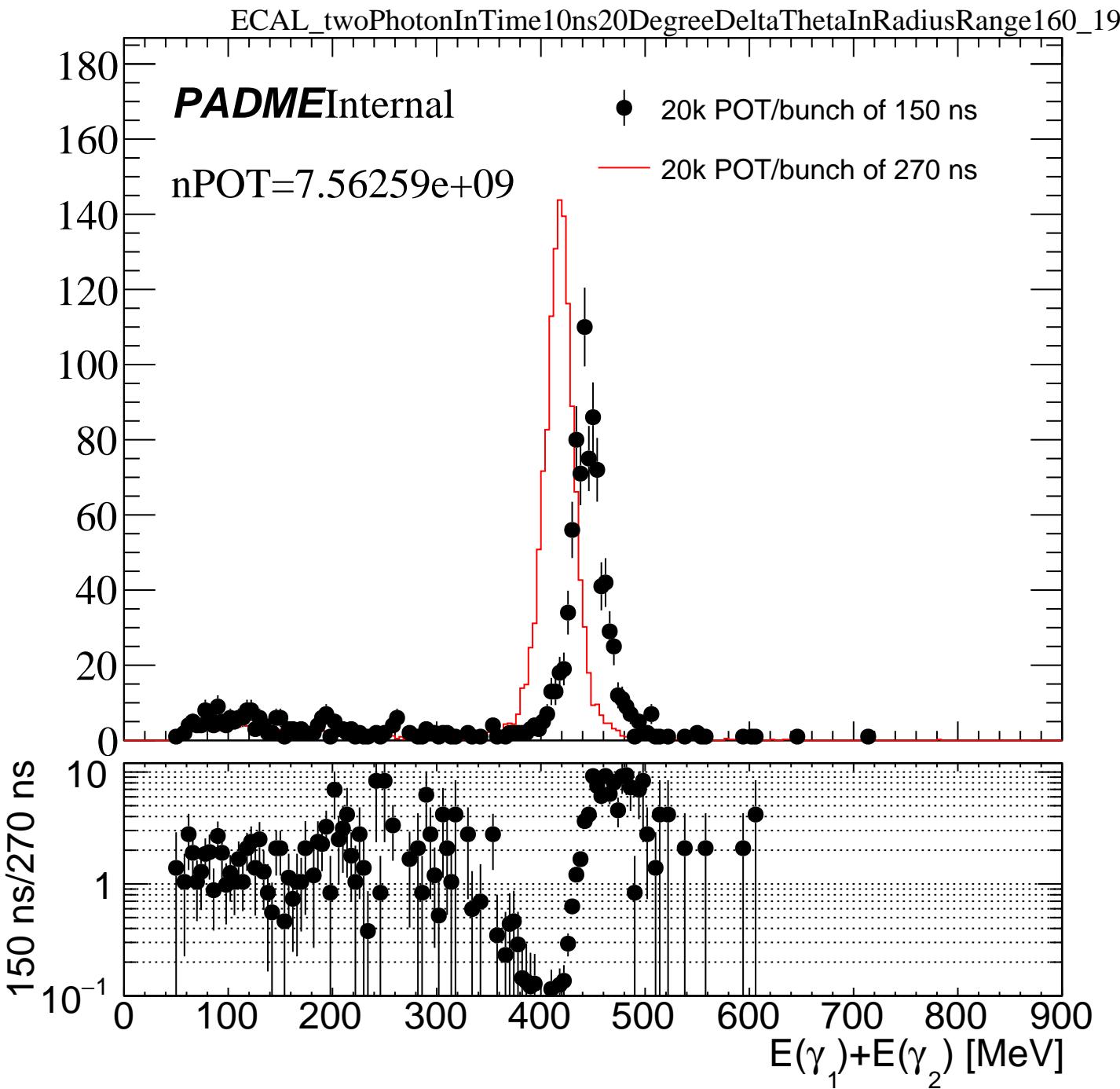




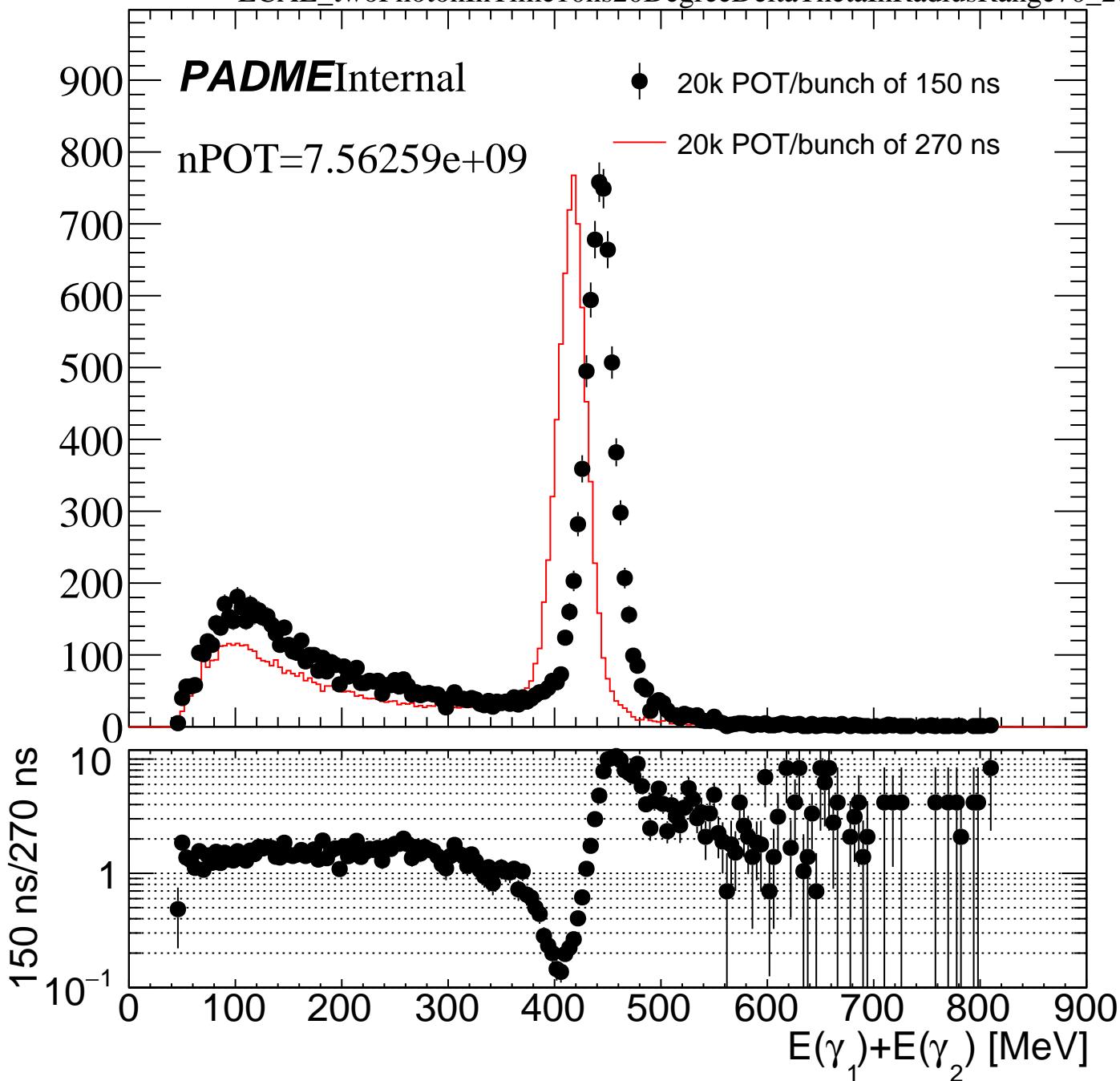
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130\_22

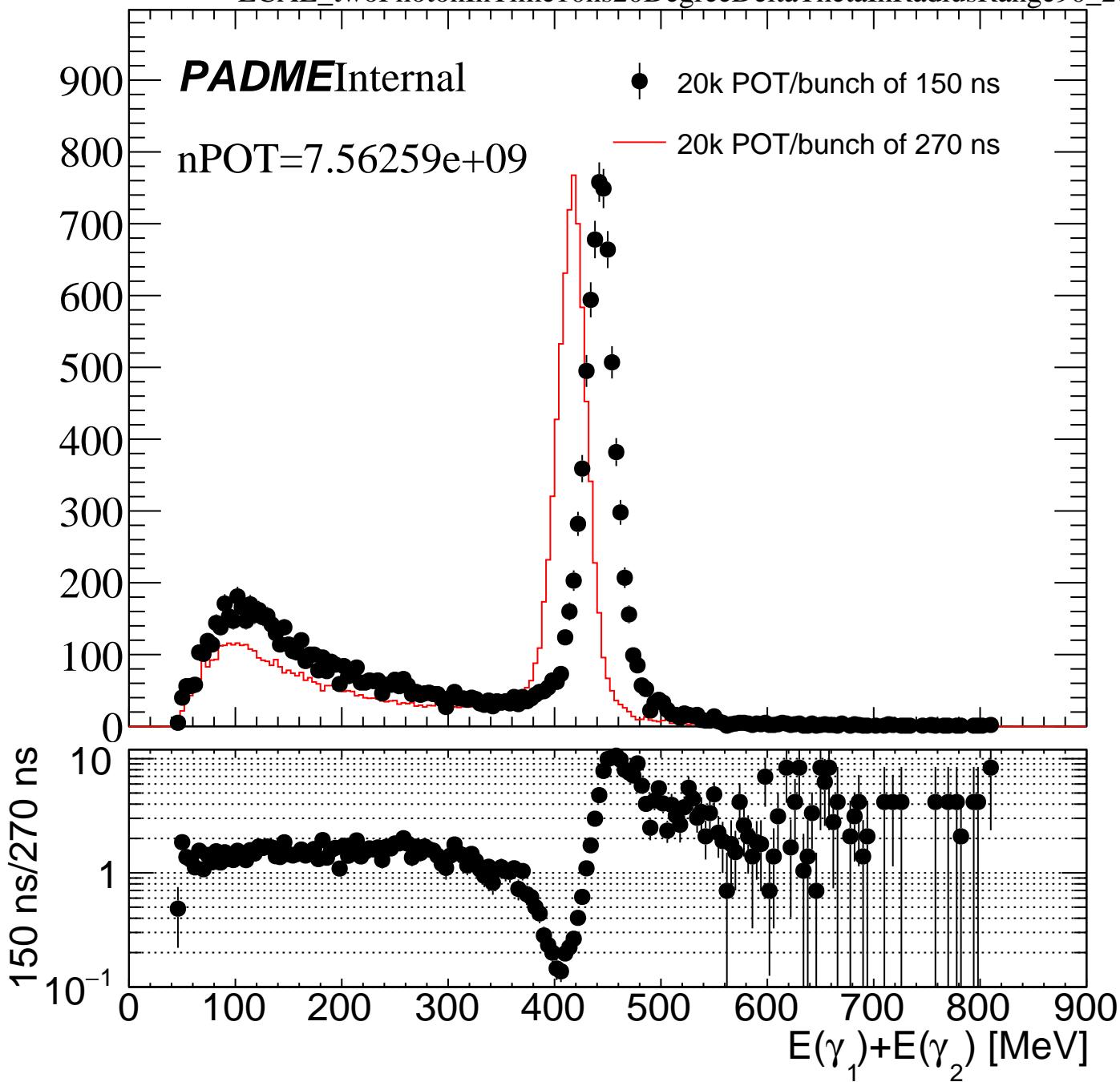




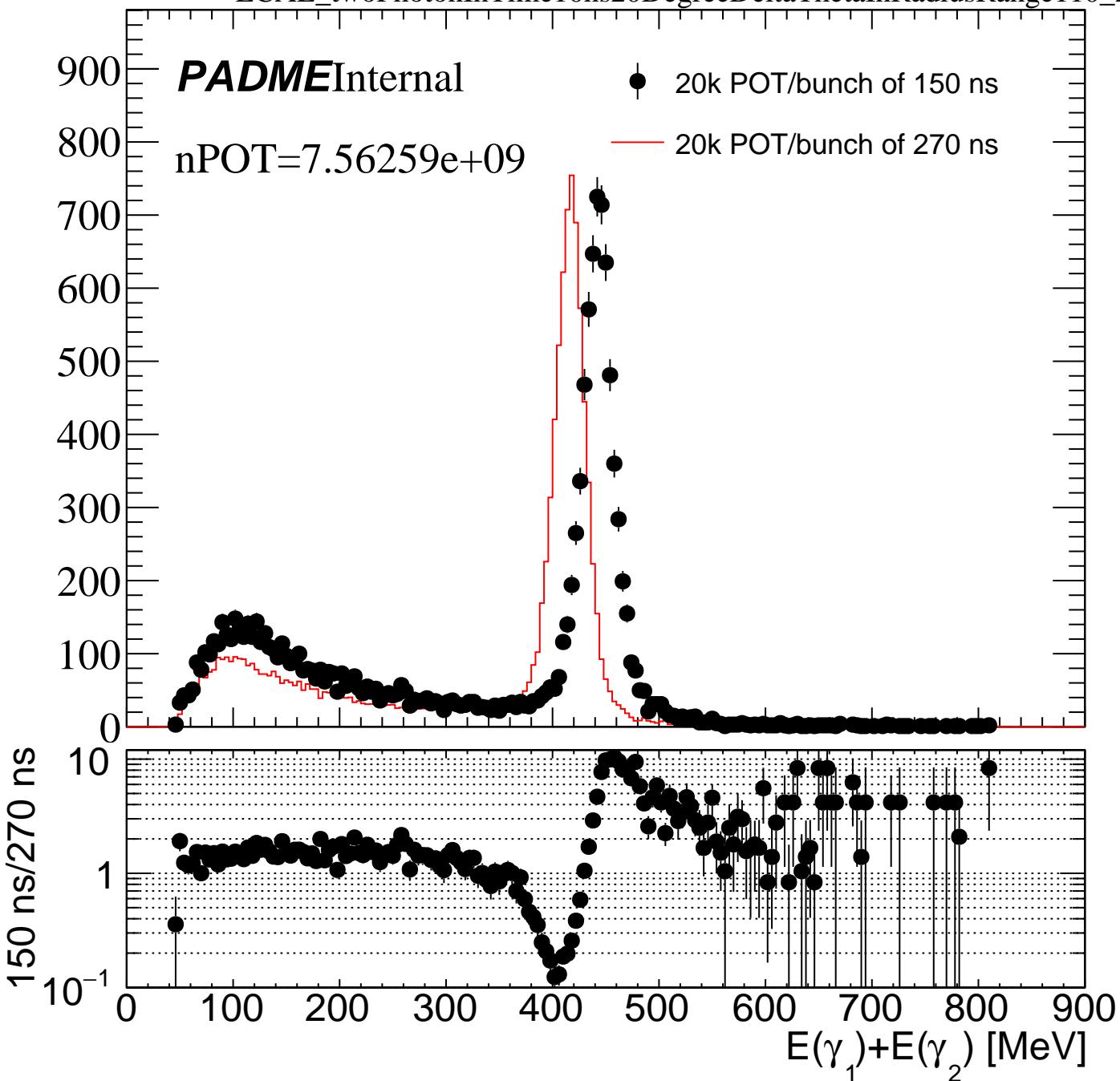


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70\_280

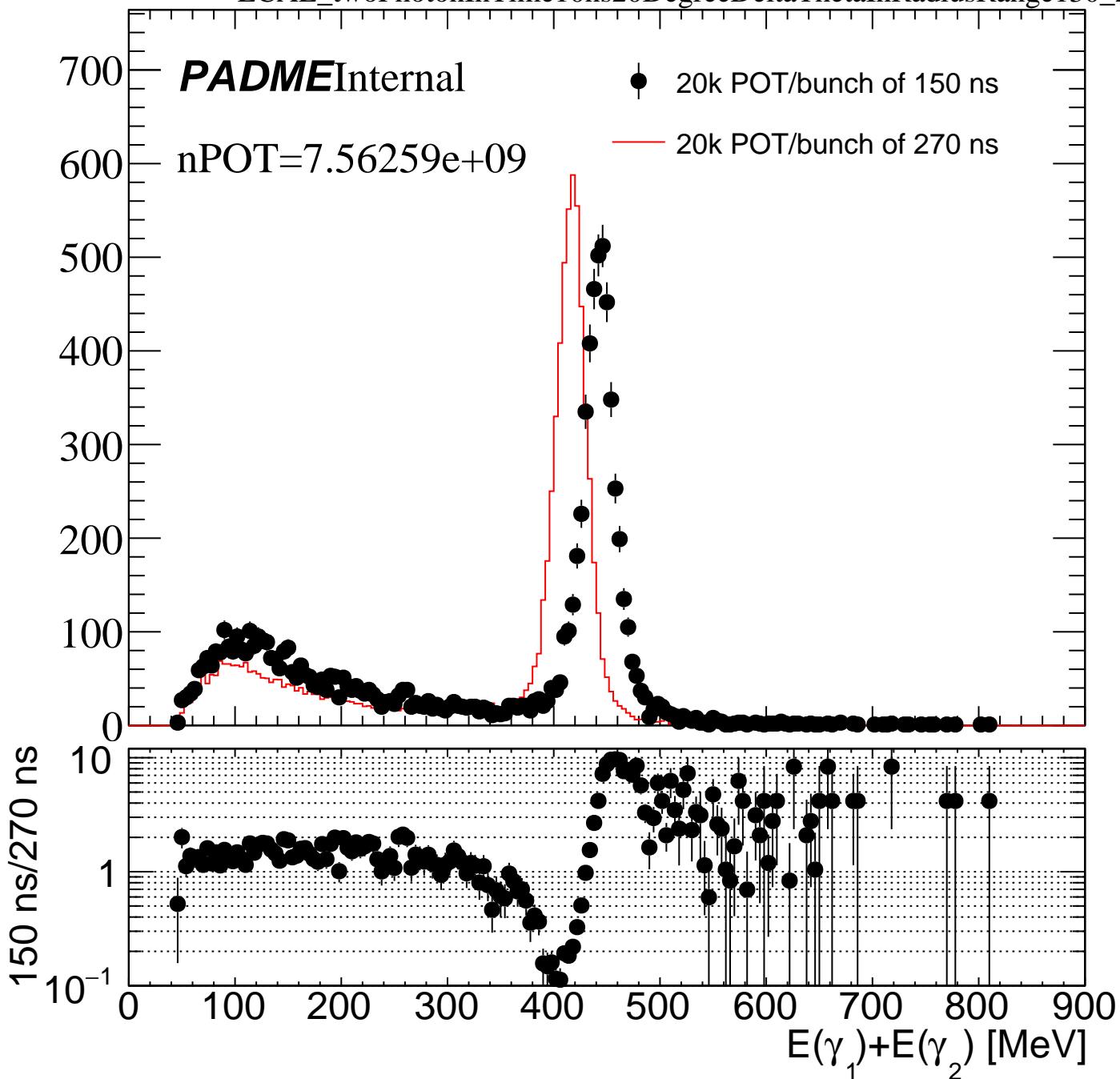


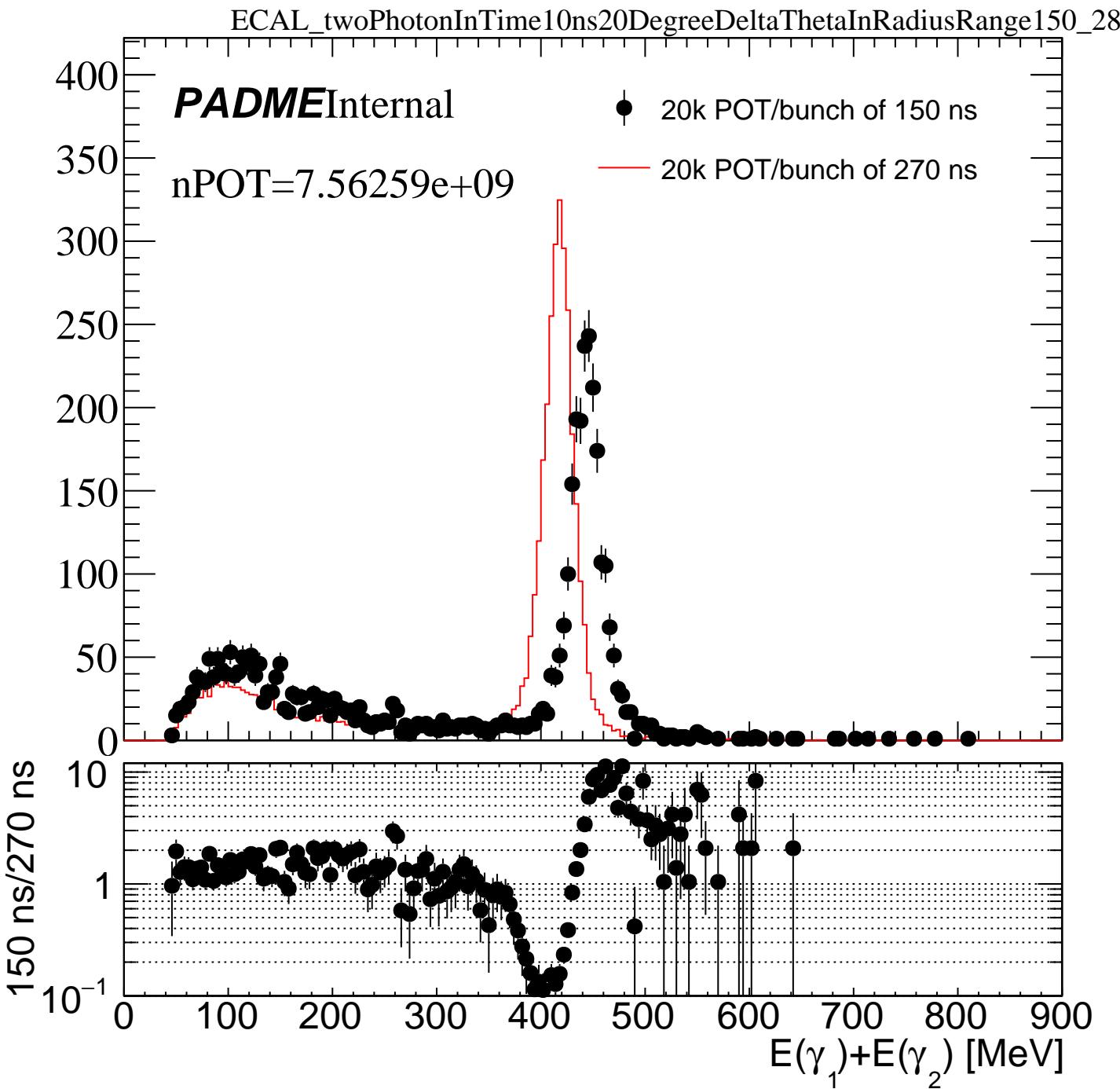


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110\_28

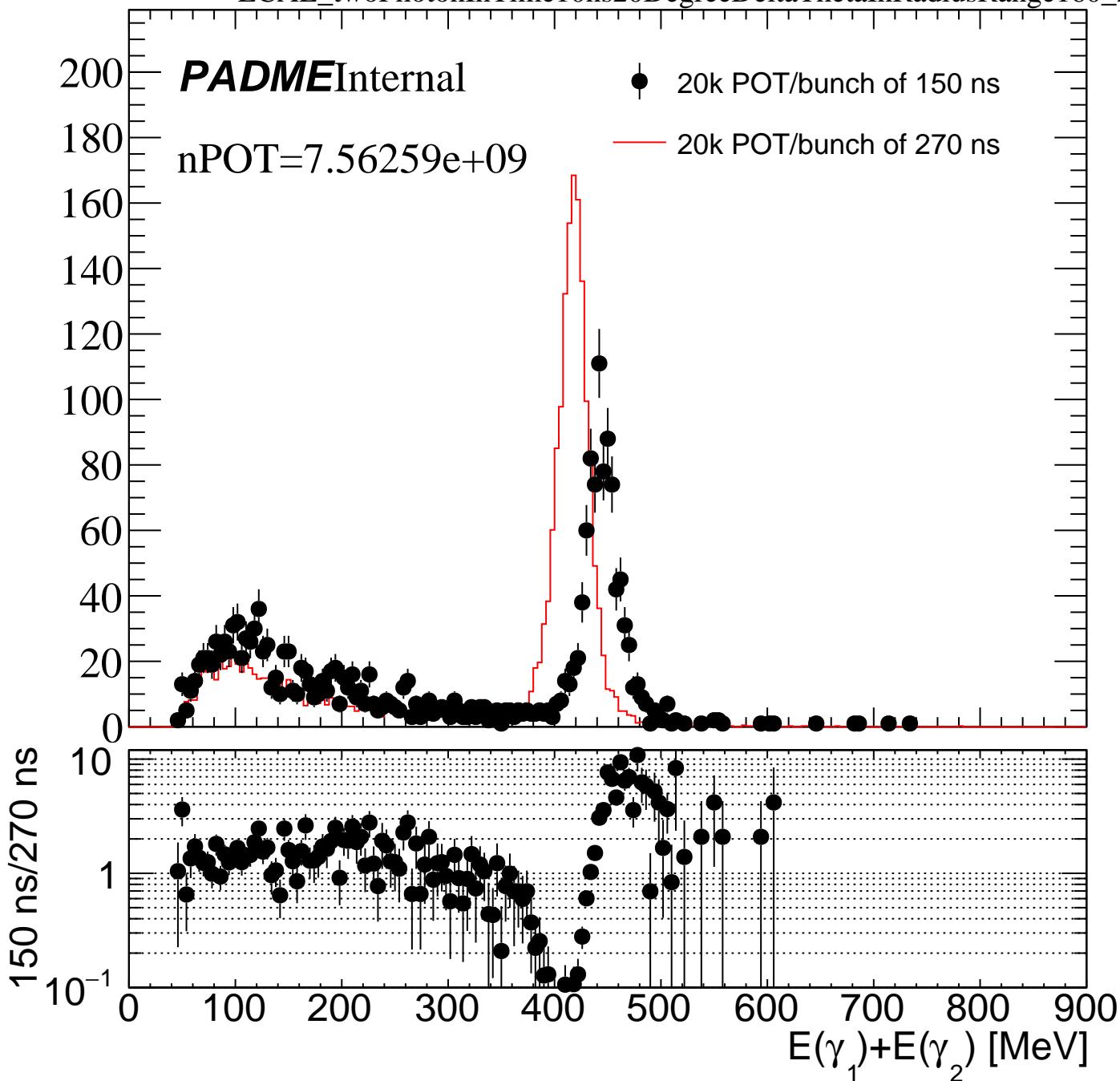


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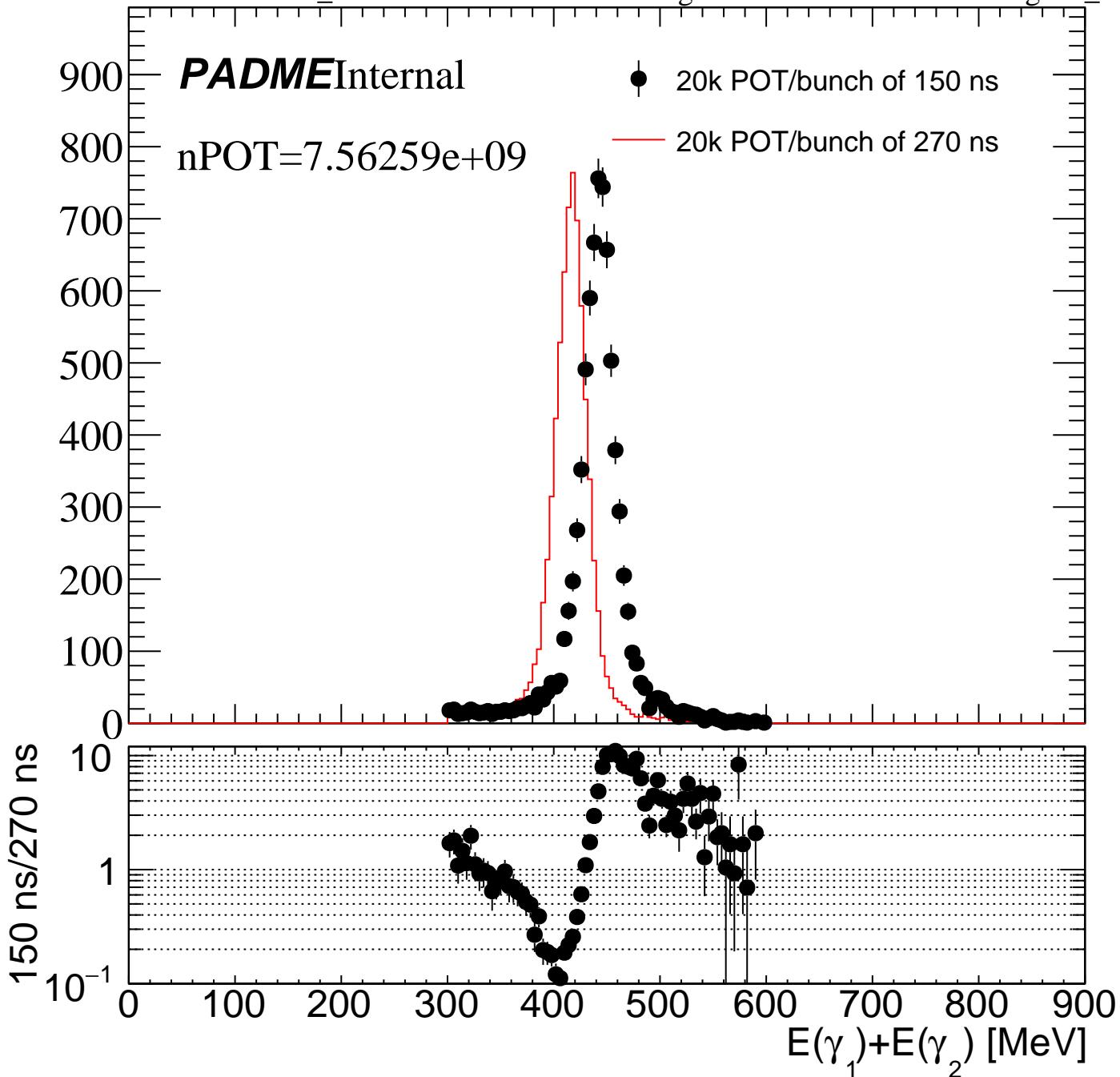




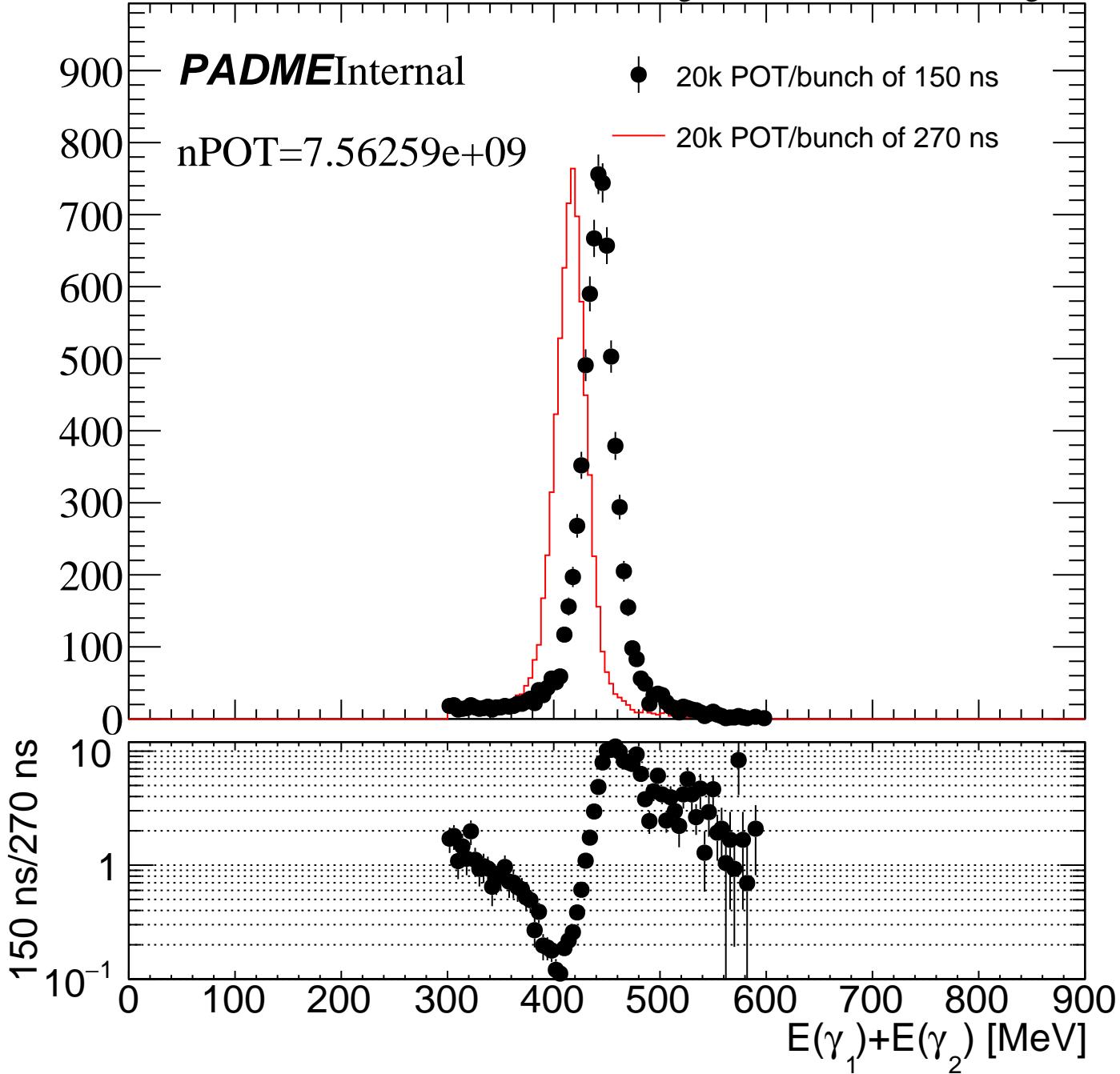
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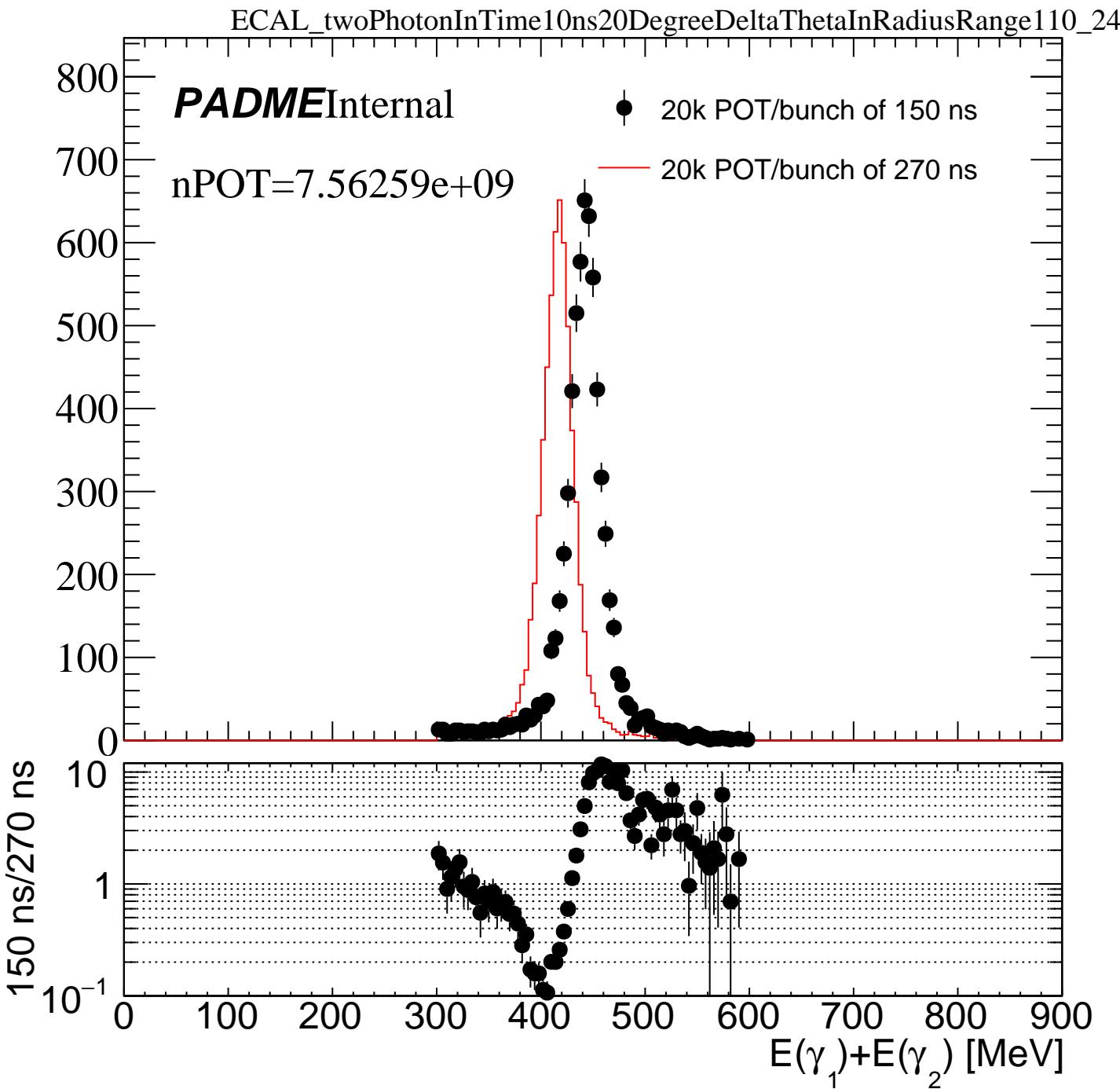


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70\_280

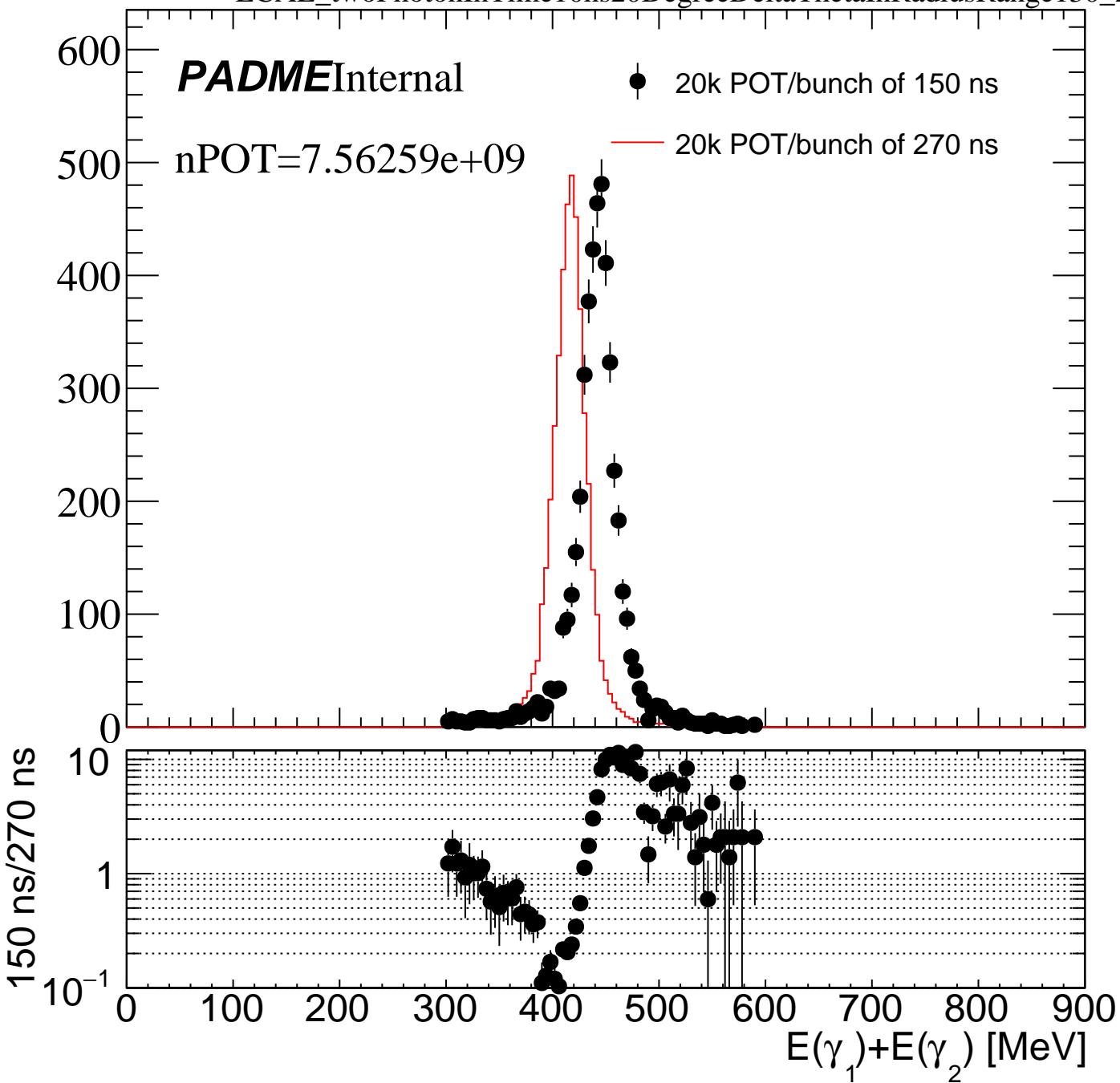


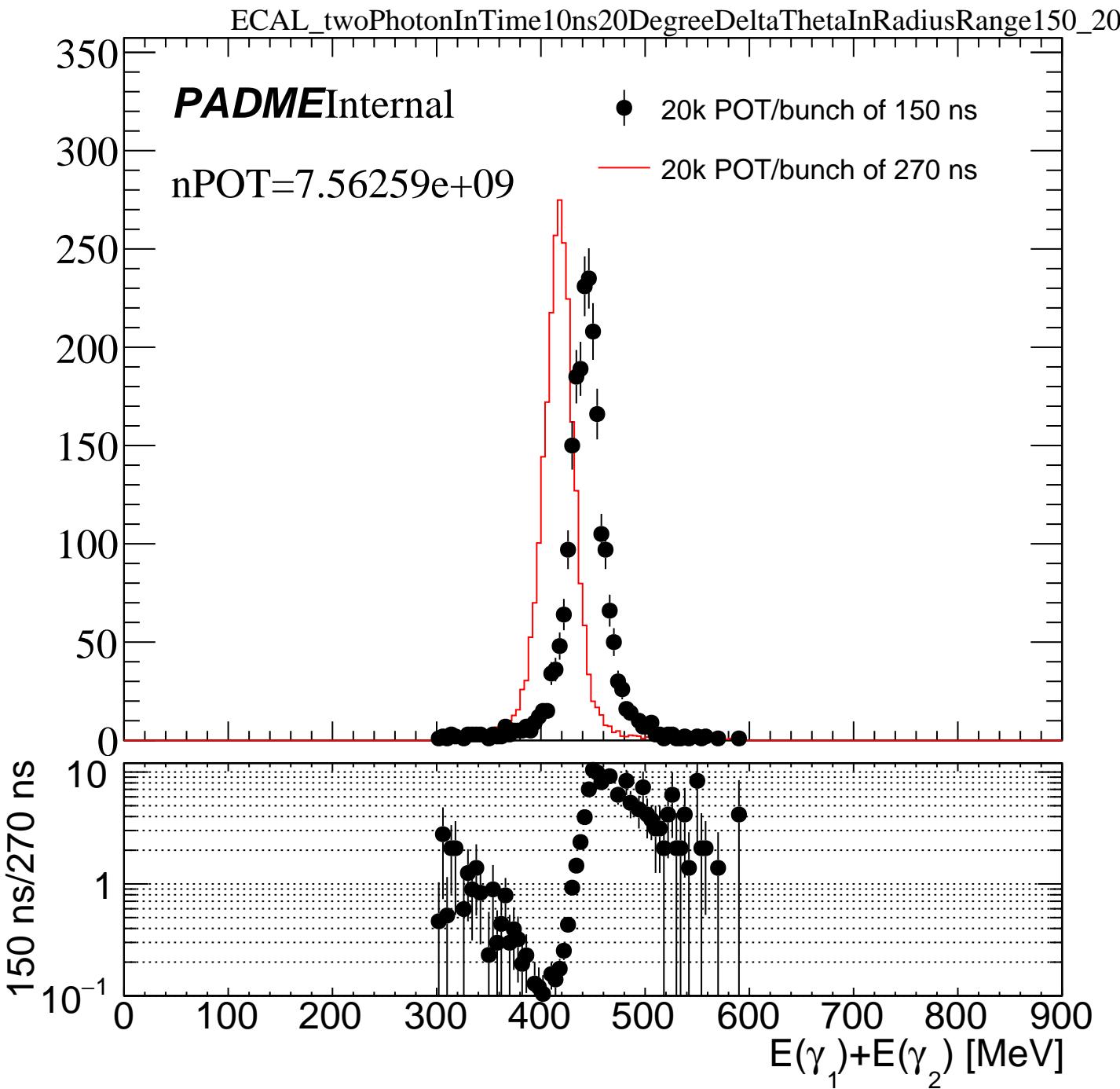
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90\_260

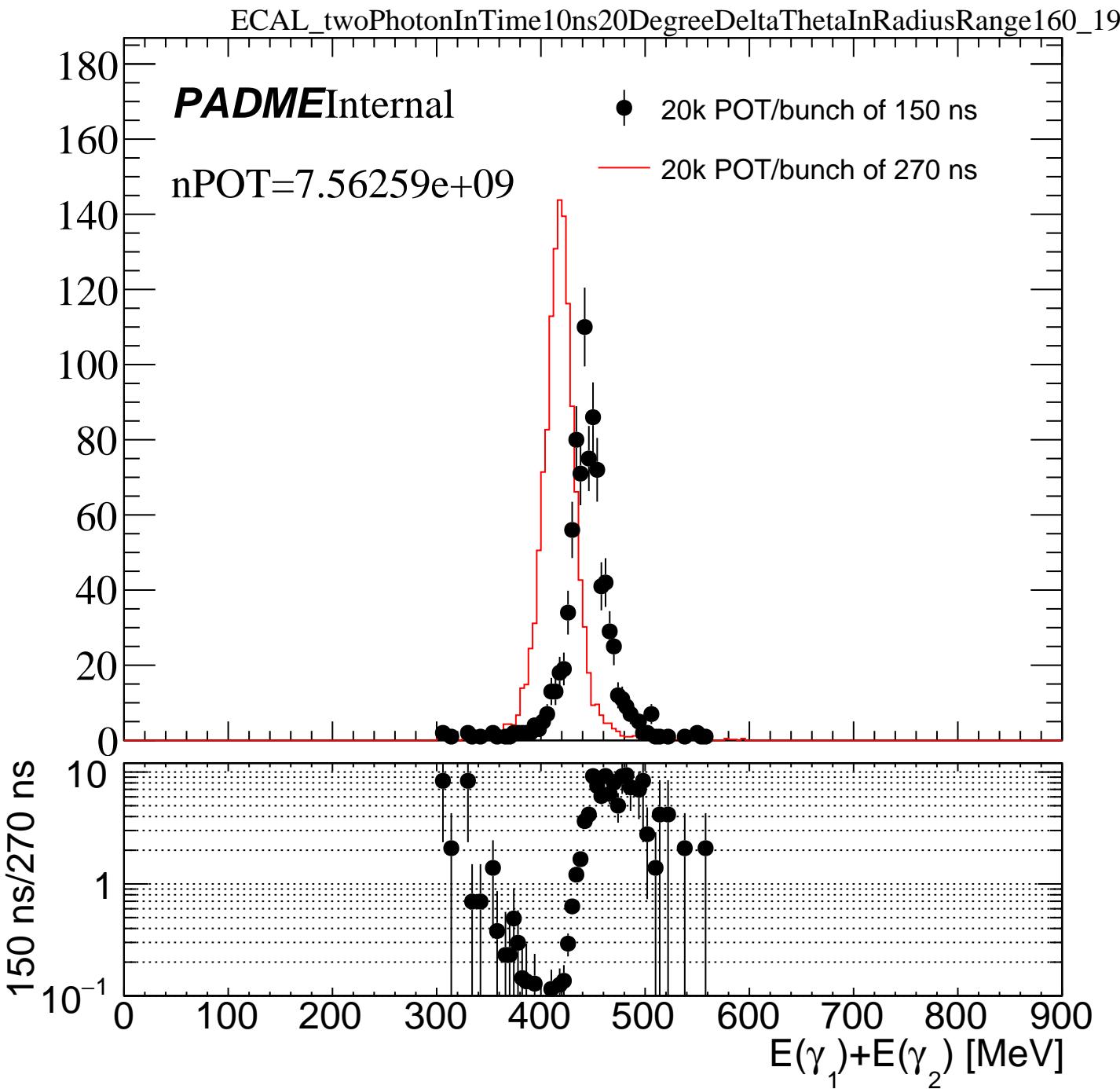




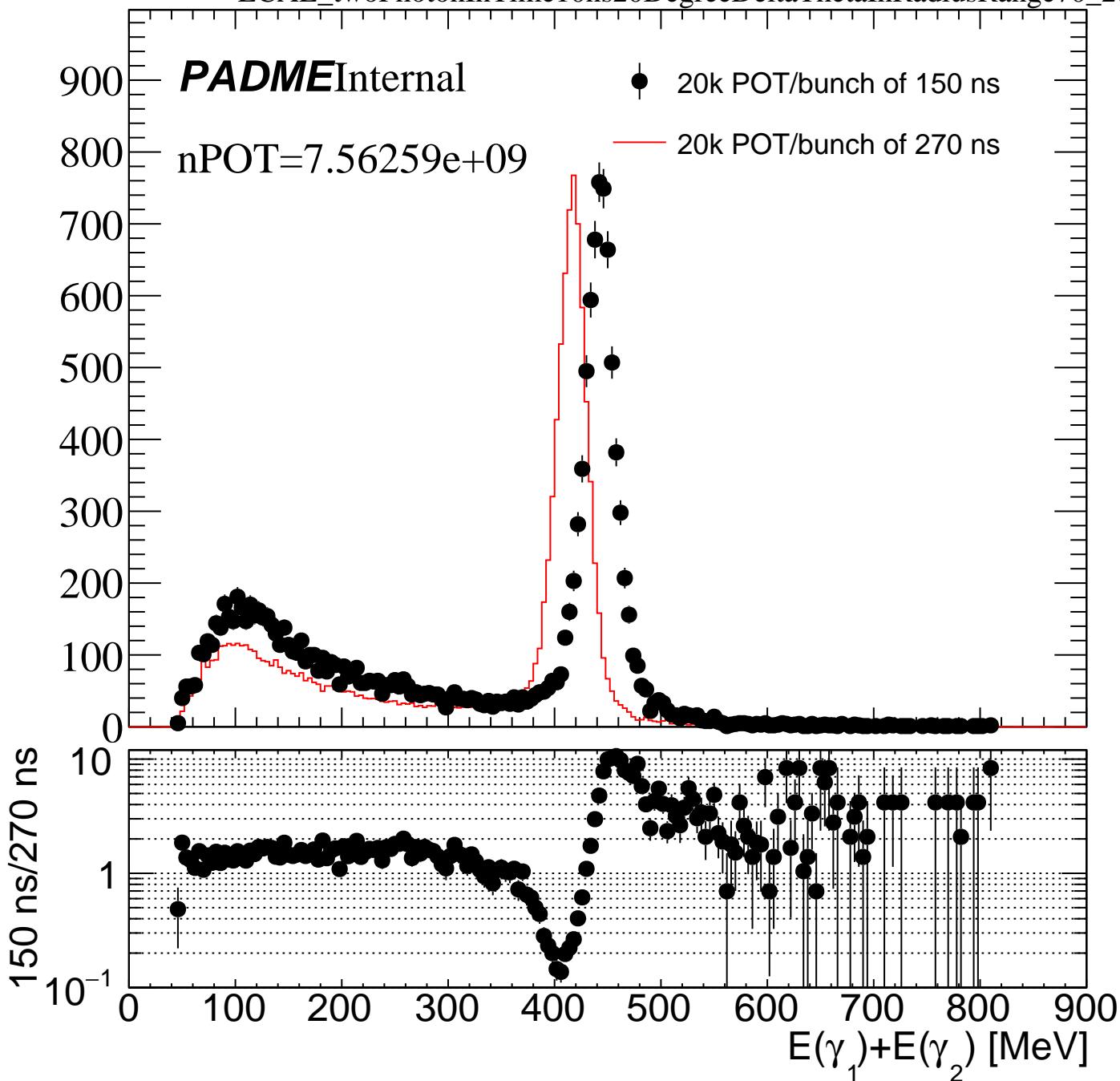
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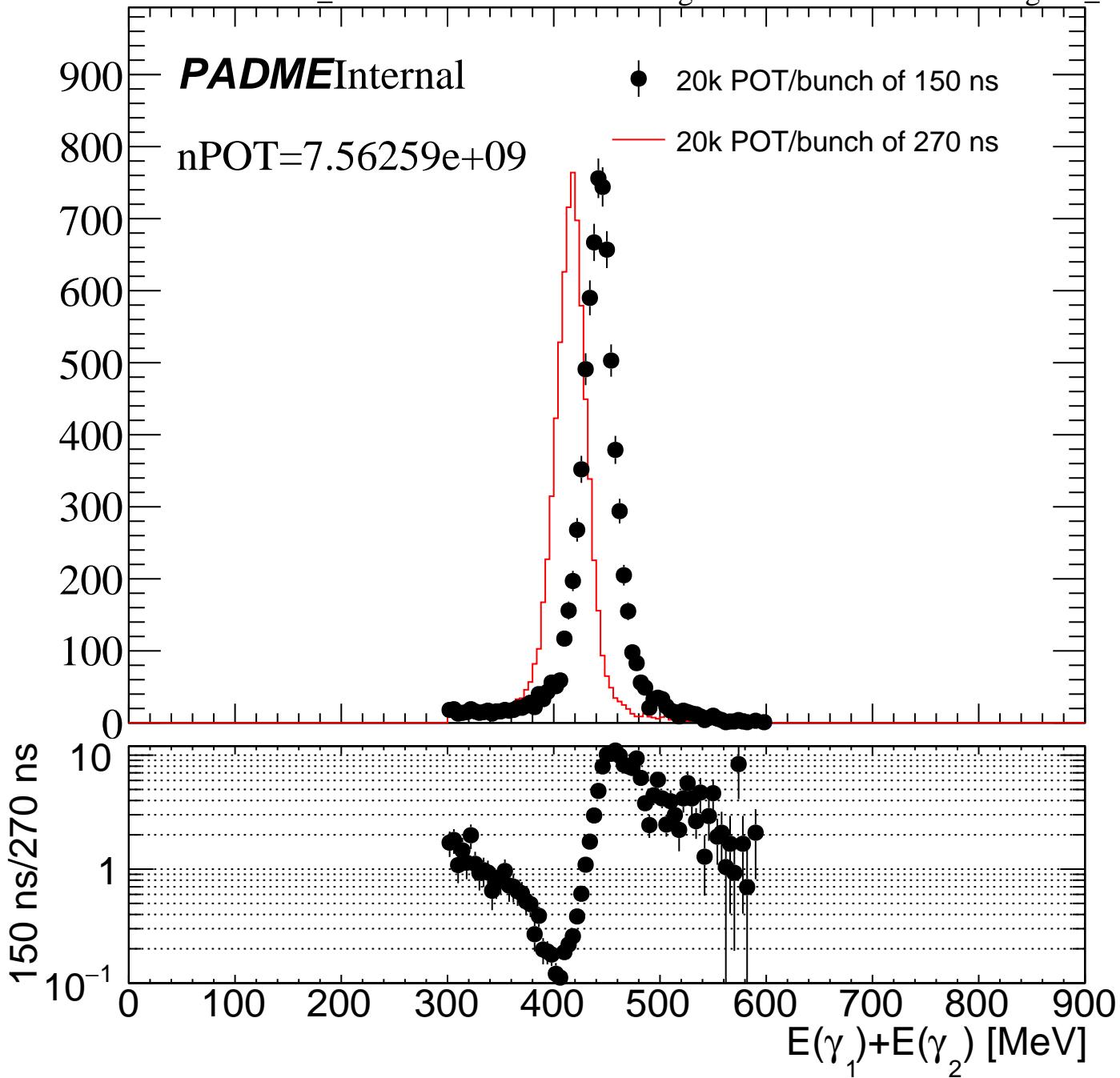




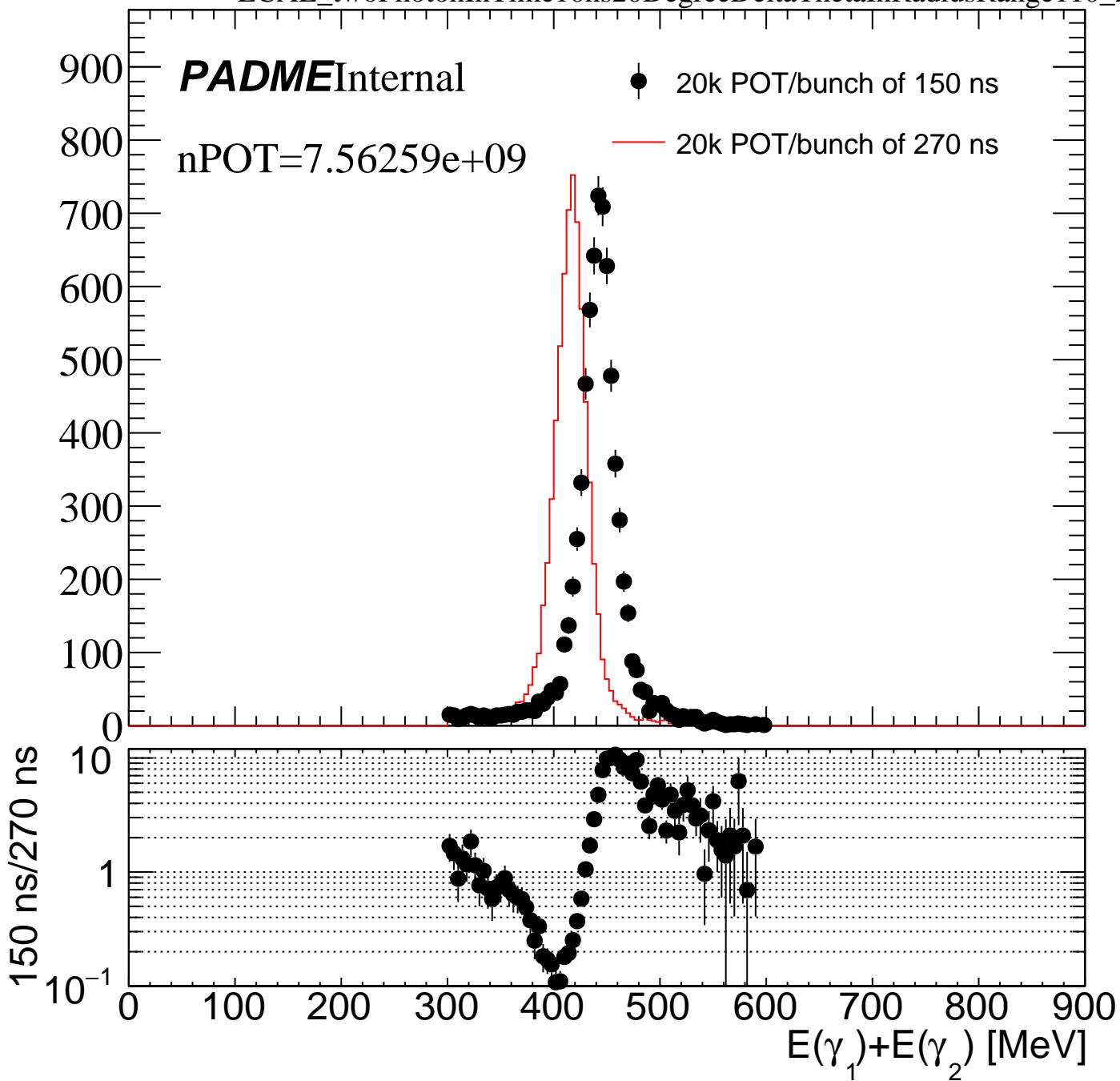


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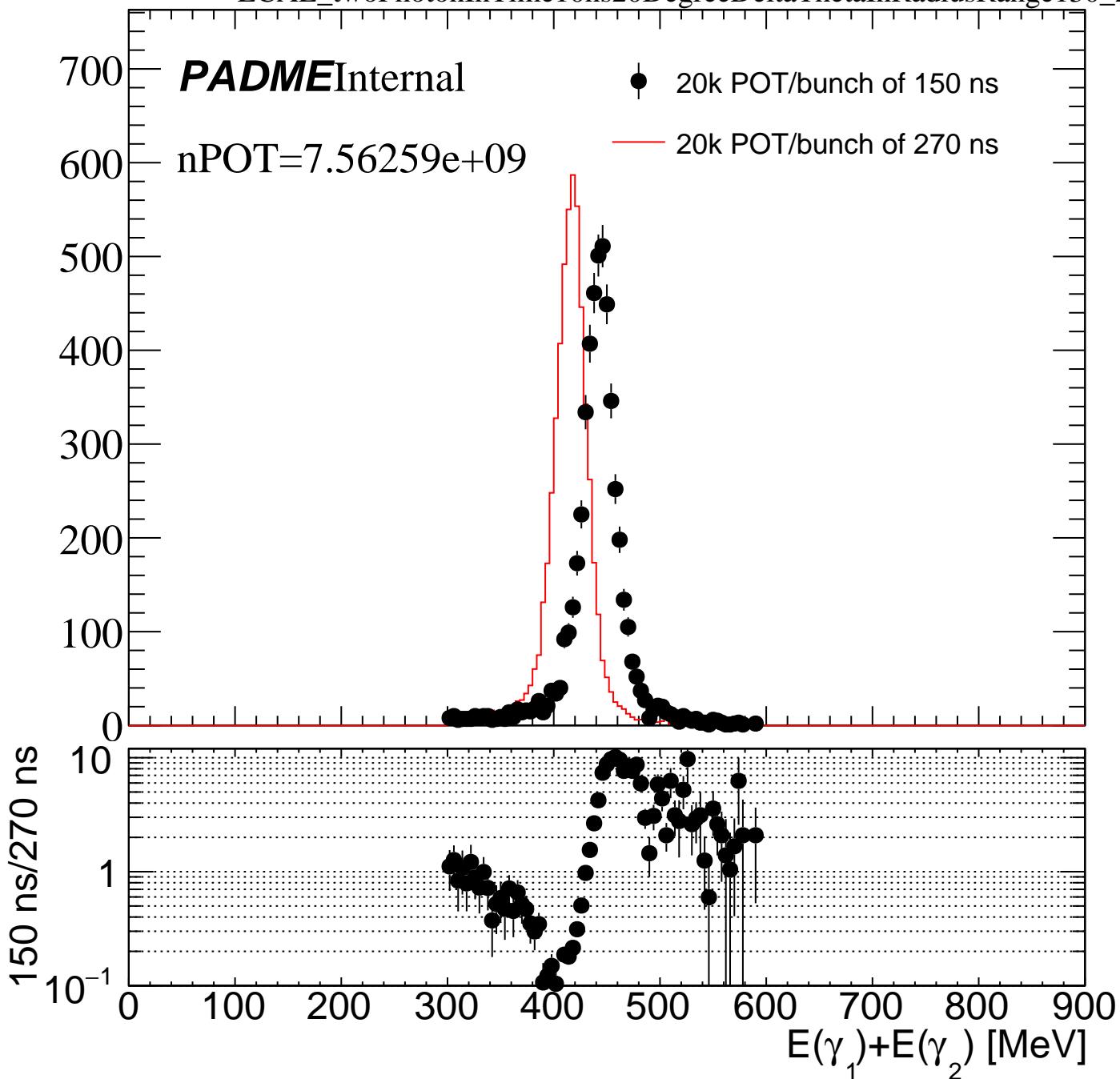


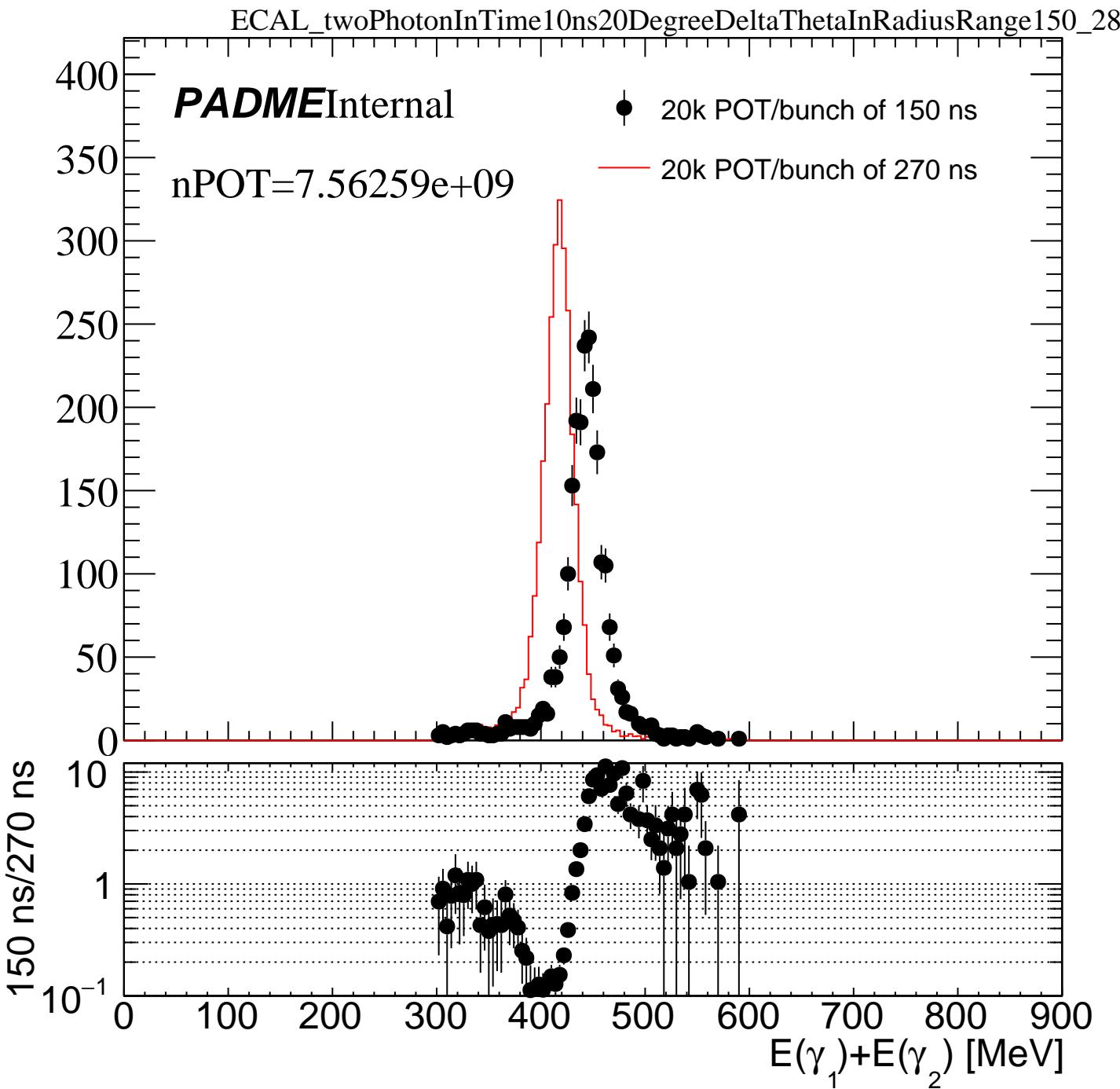


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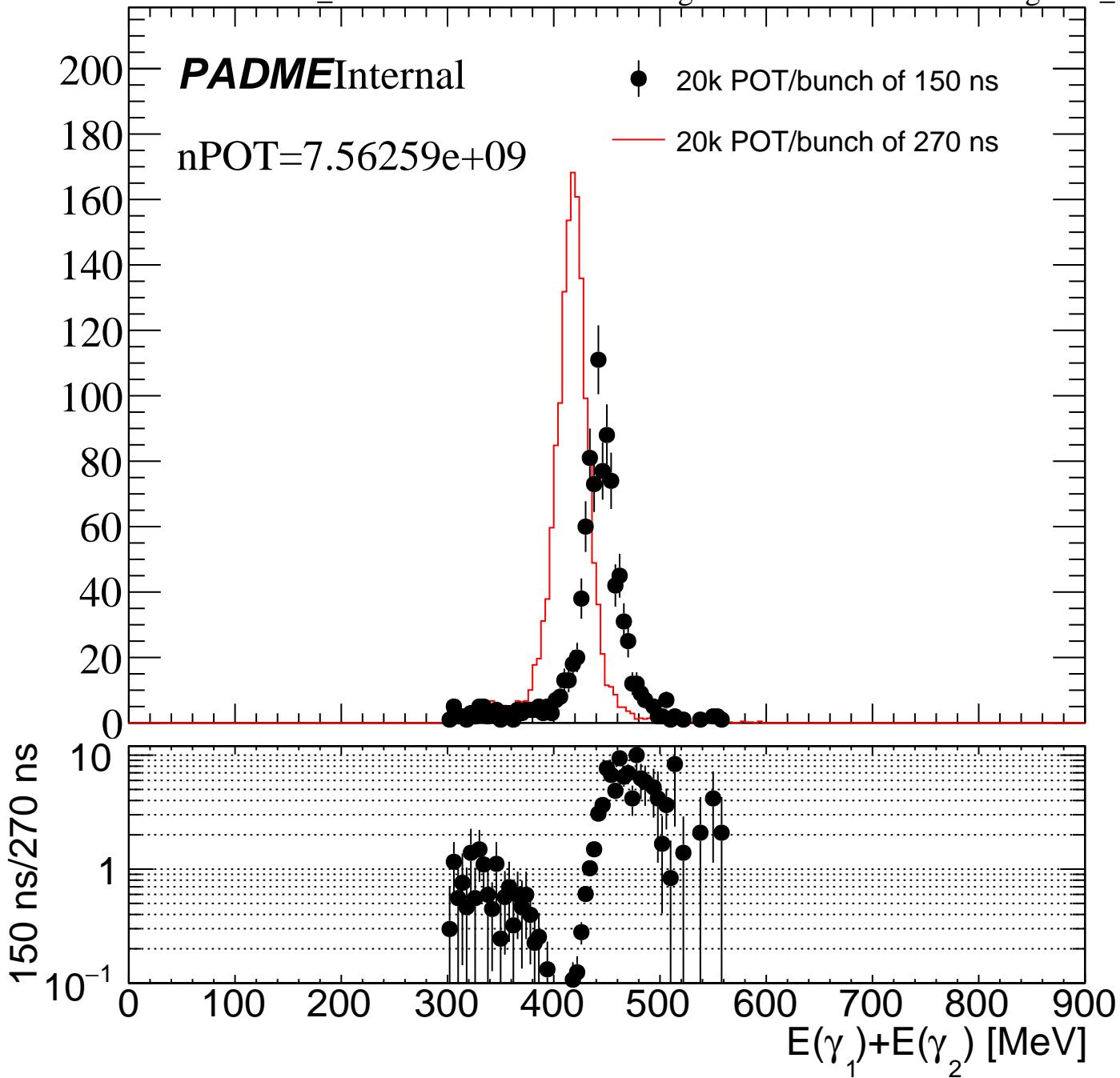


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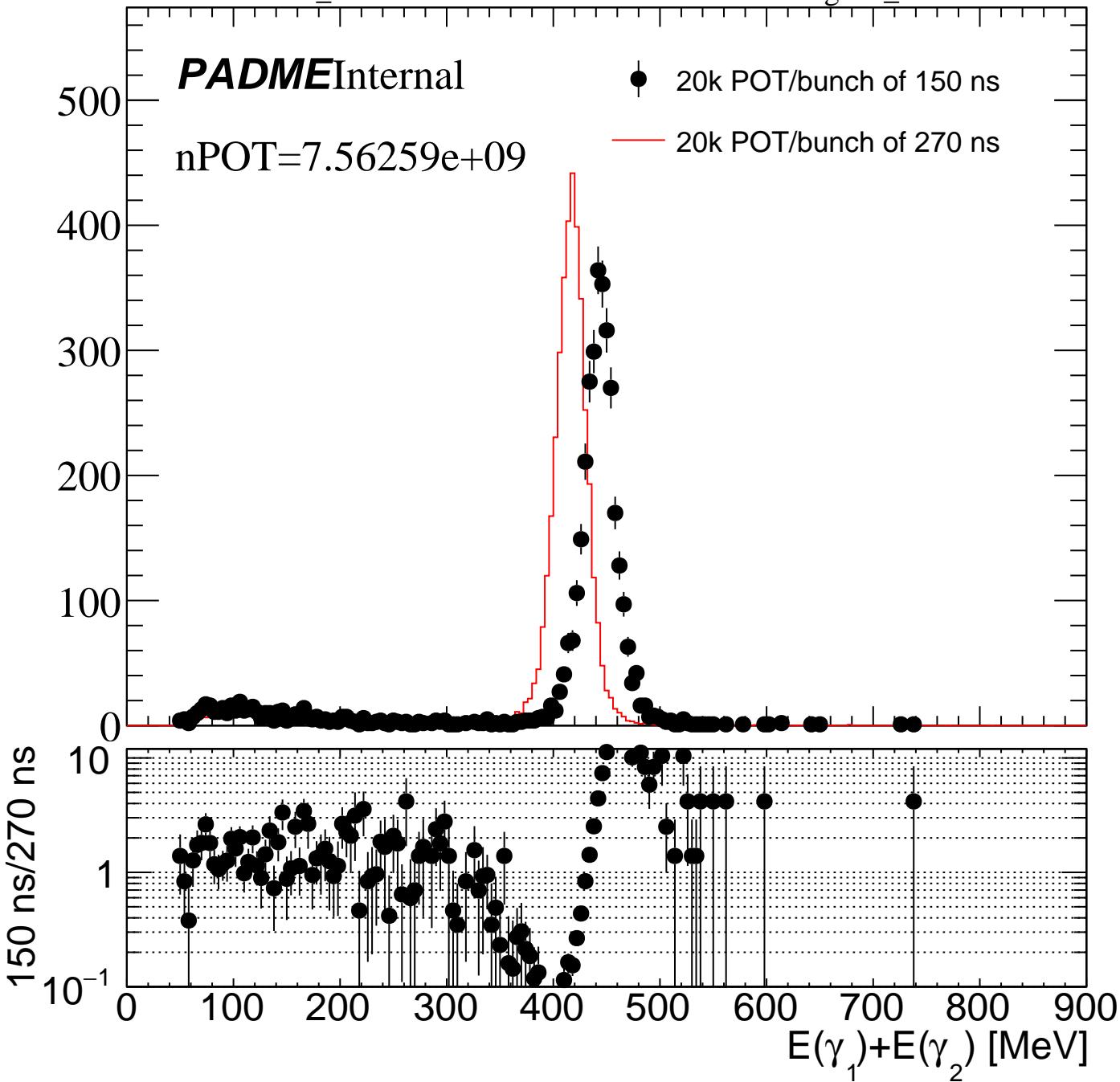




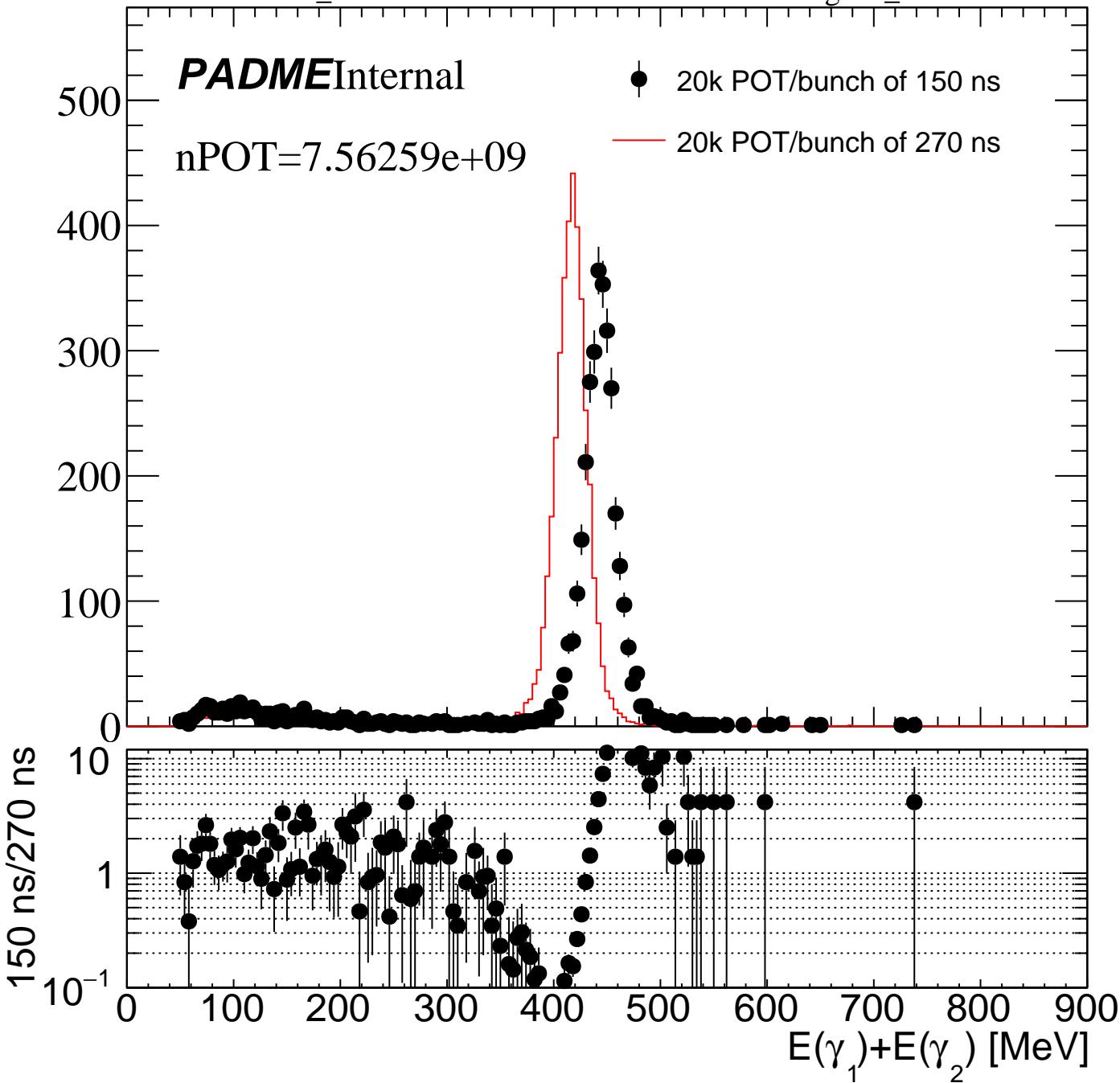
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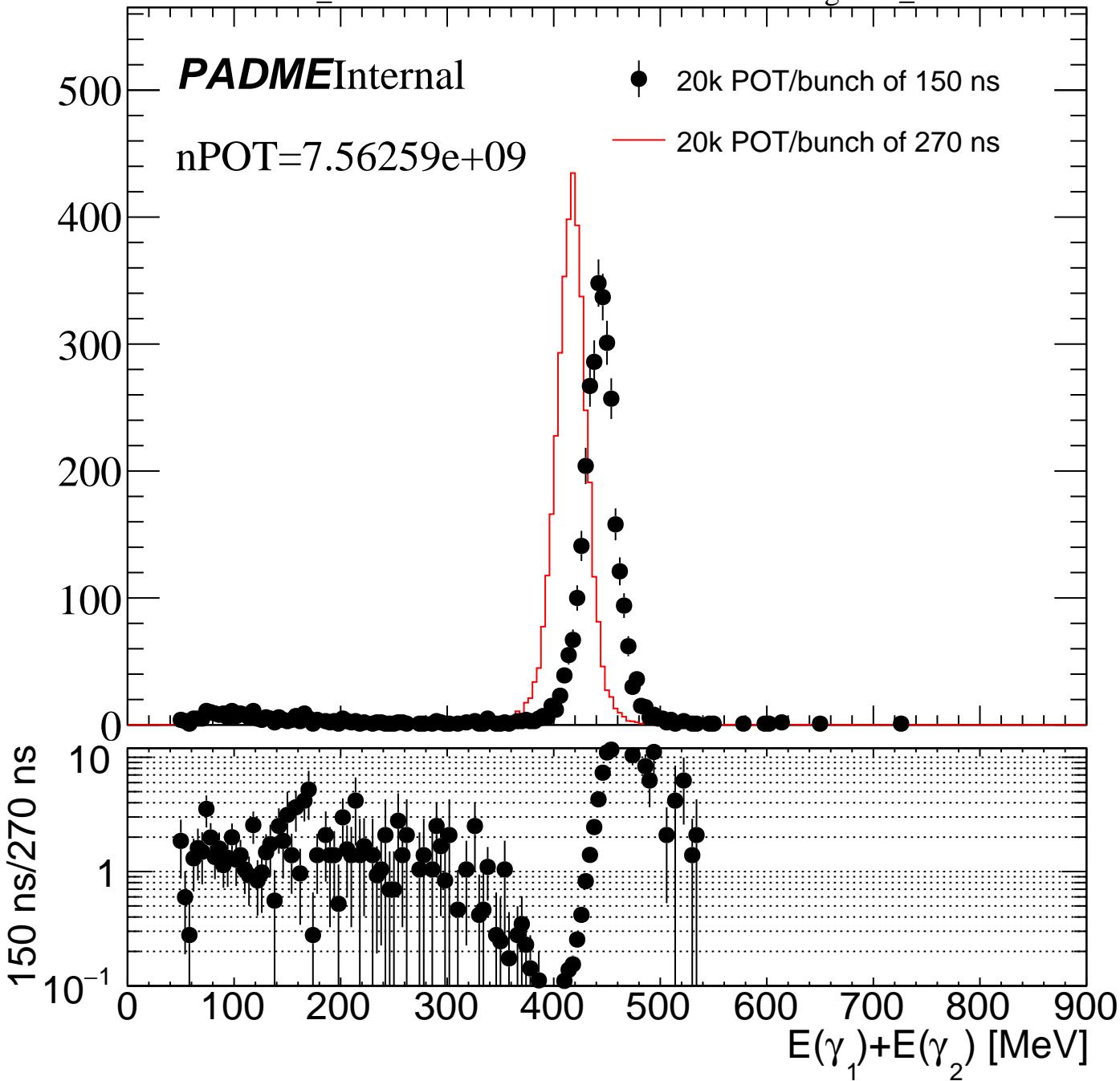
ECAL\_twoPhotonInTime10ns1cmInRadiusRange70\_280



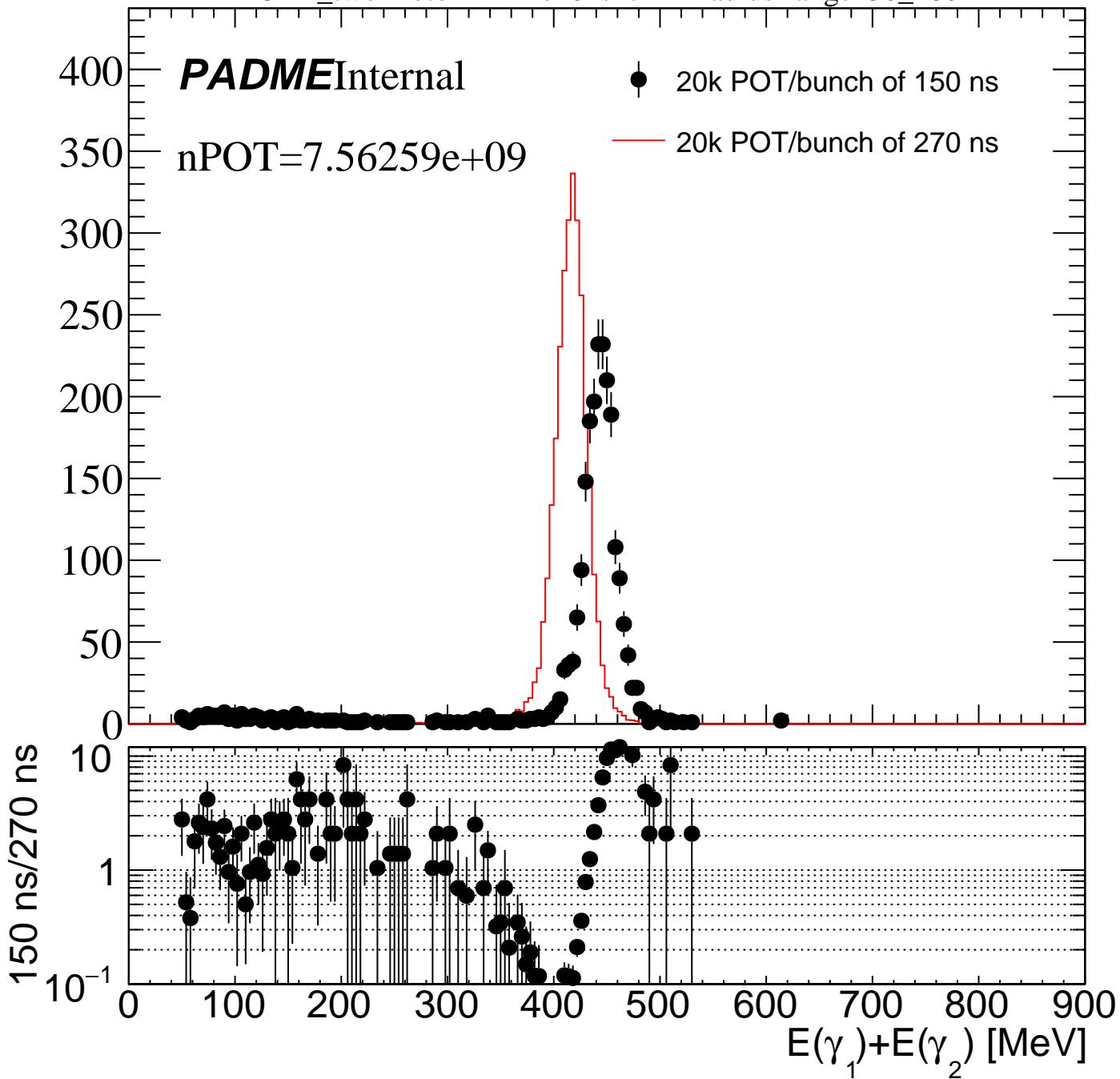
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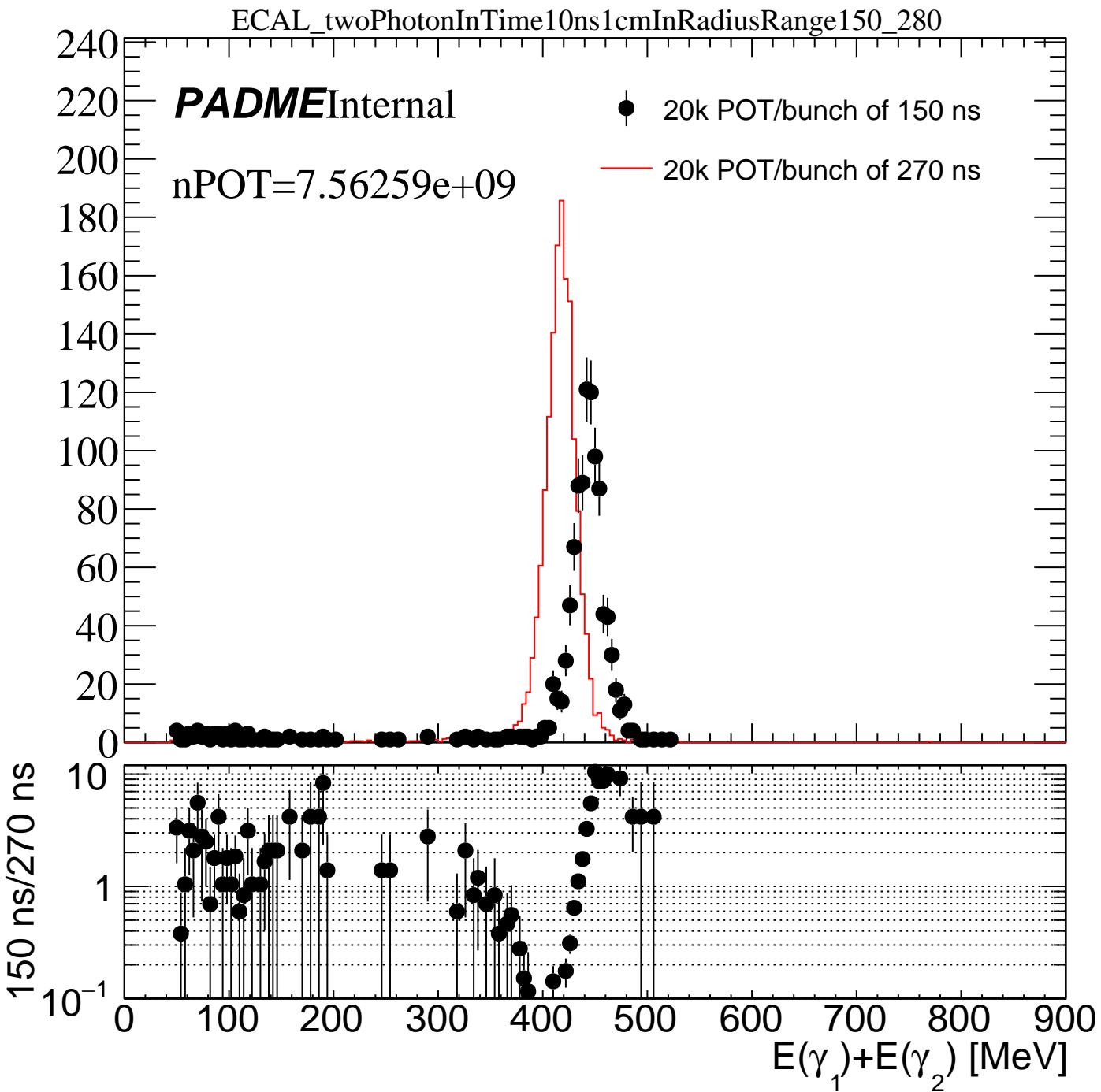


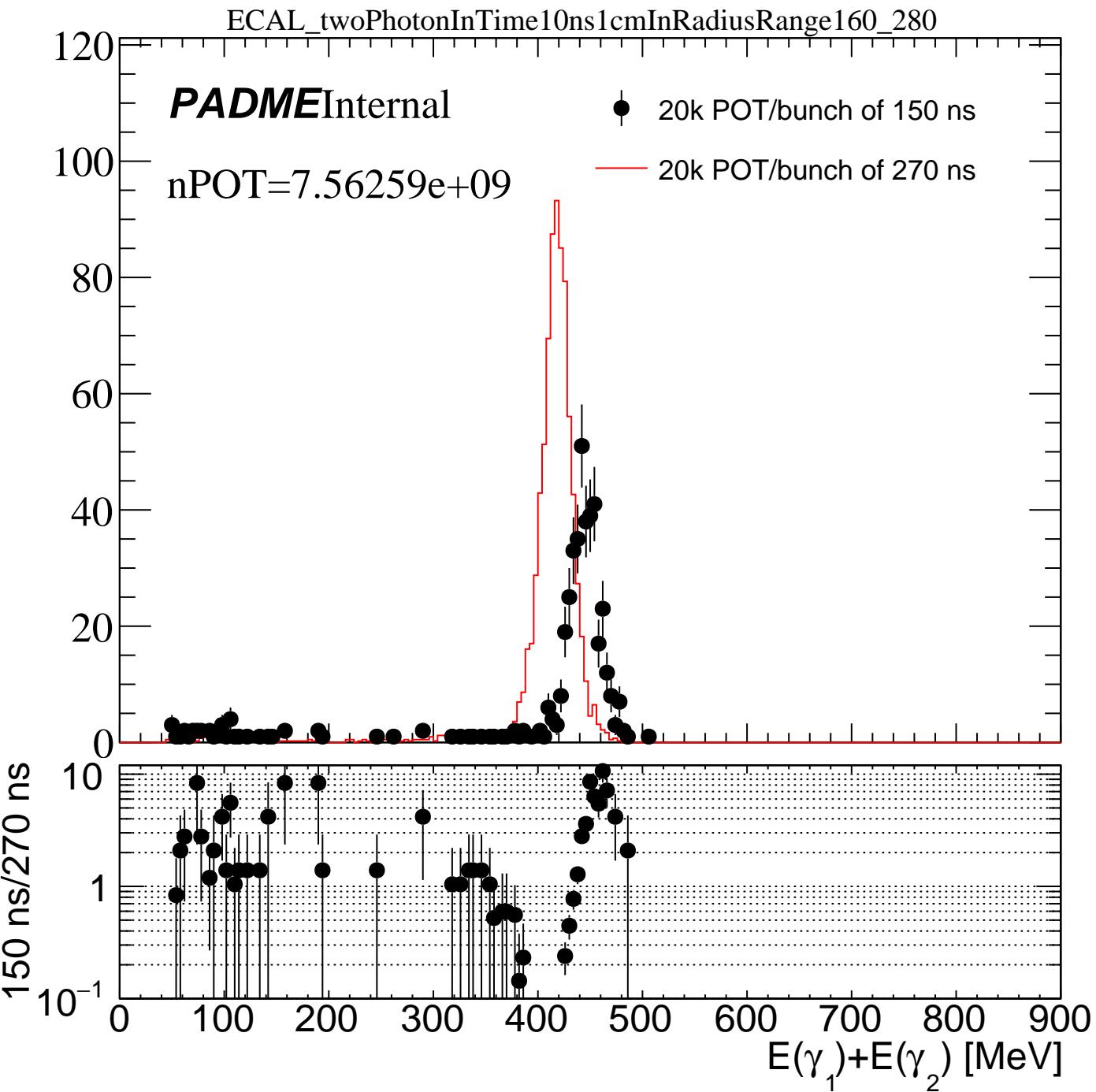
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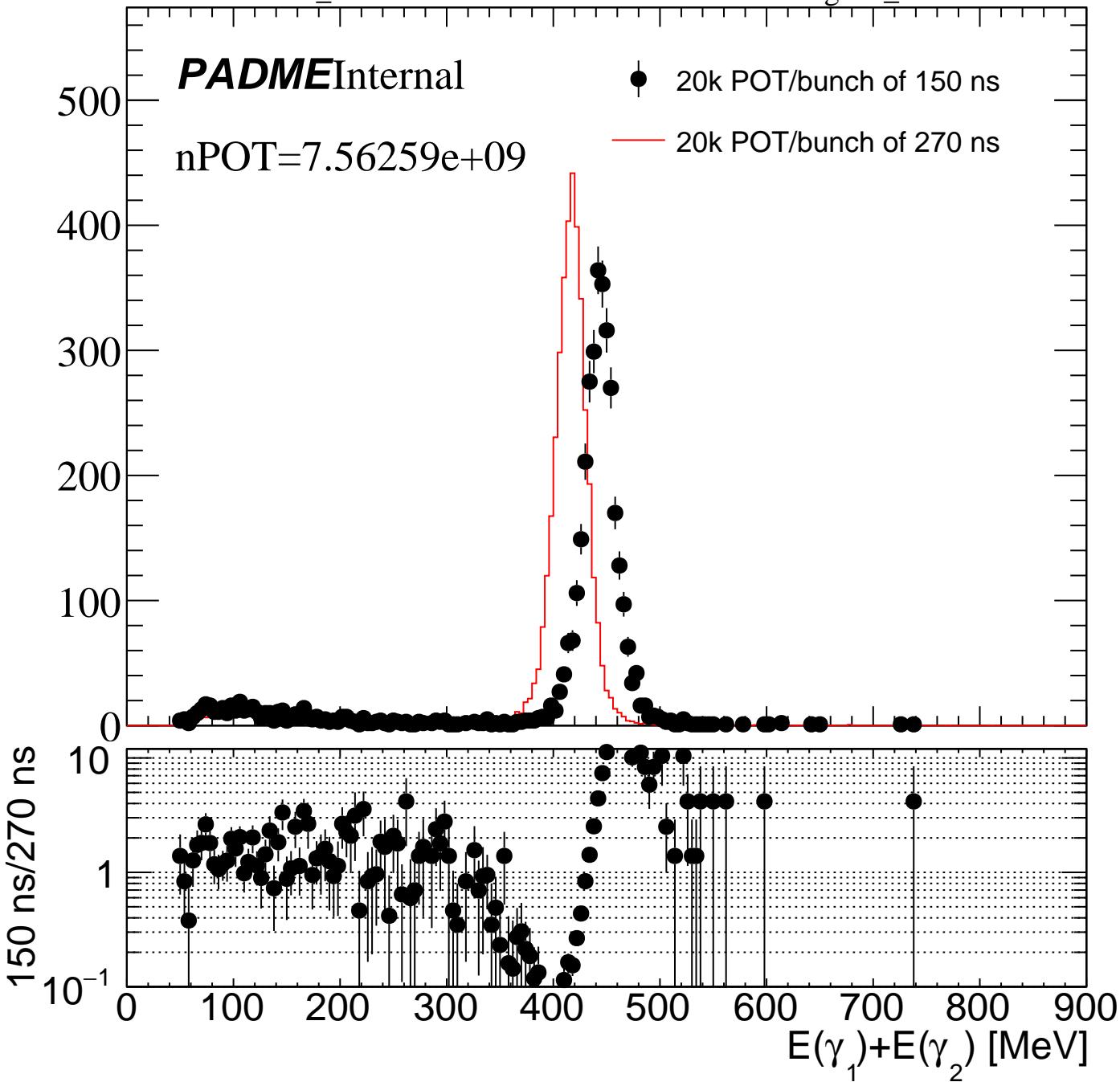
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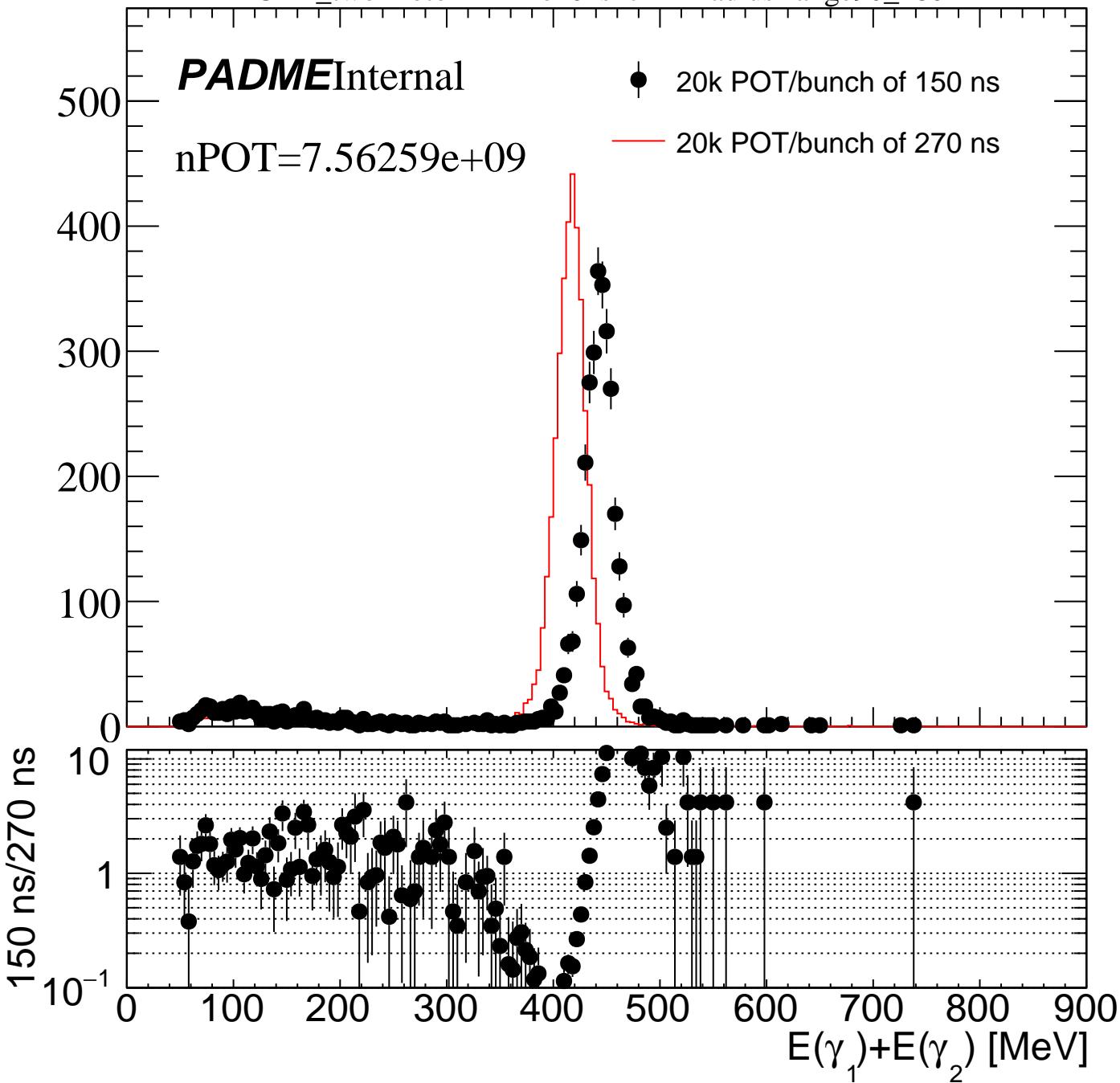




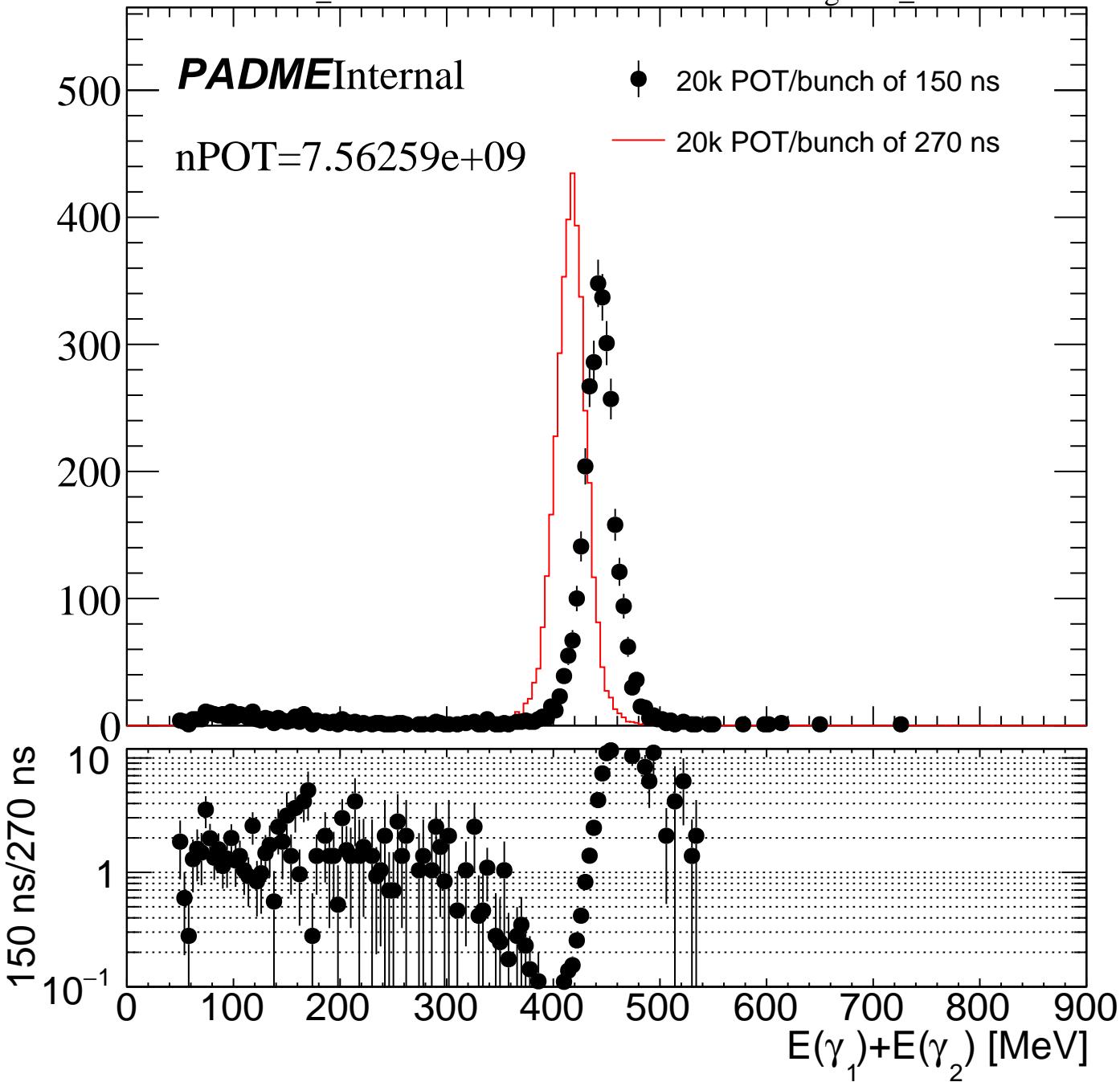
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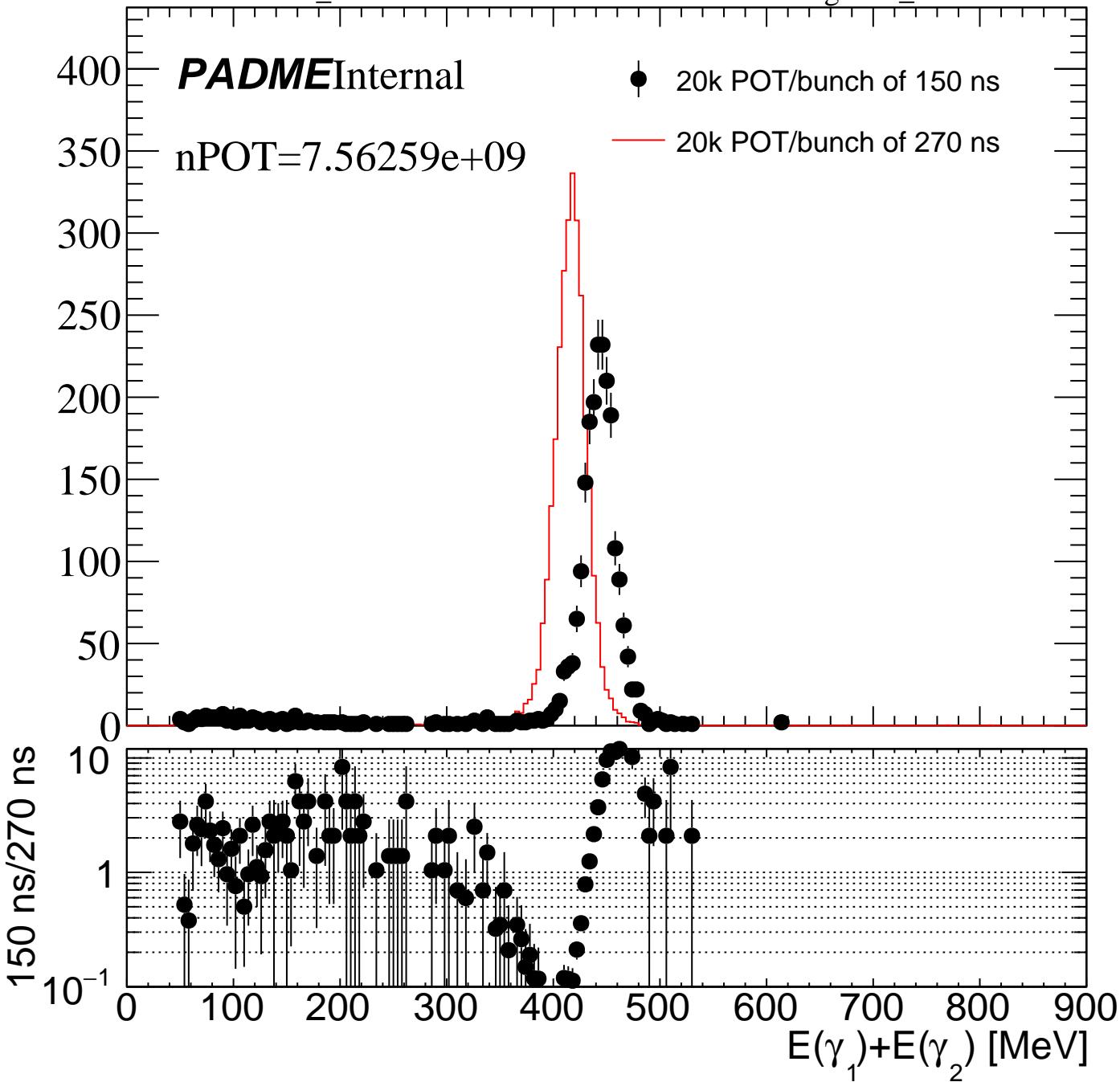
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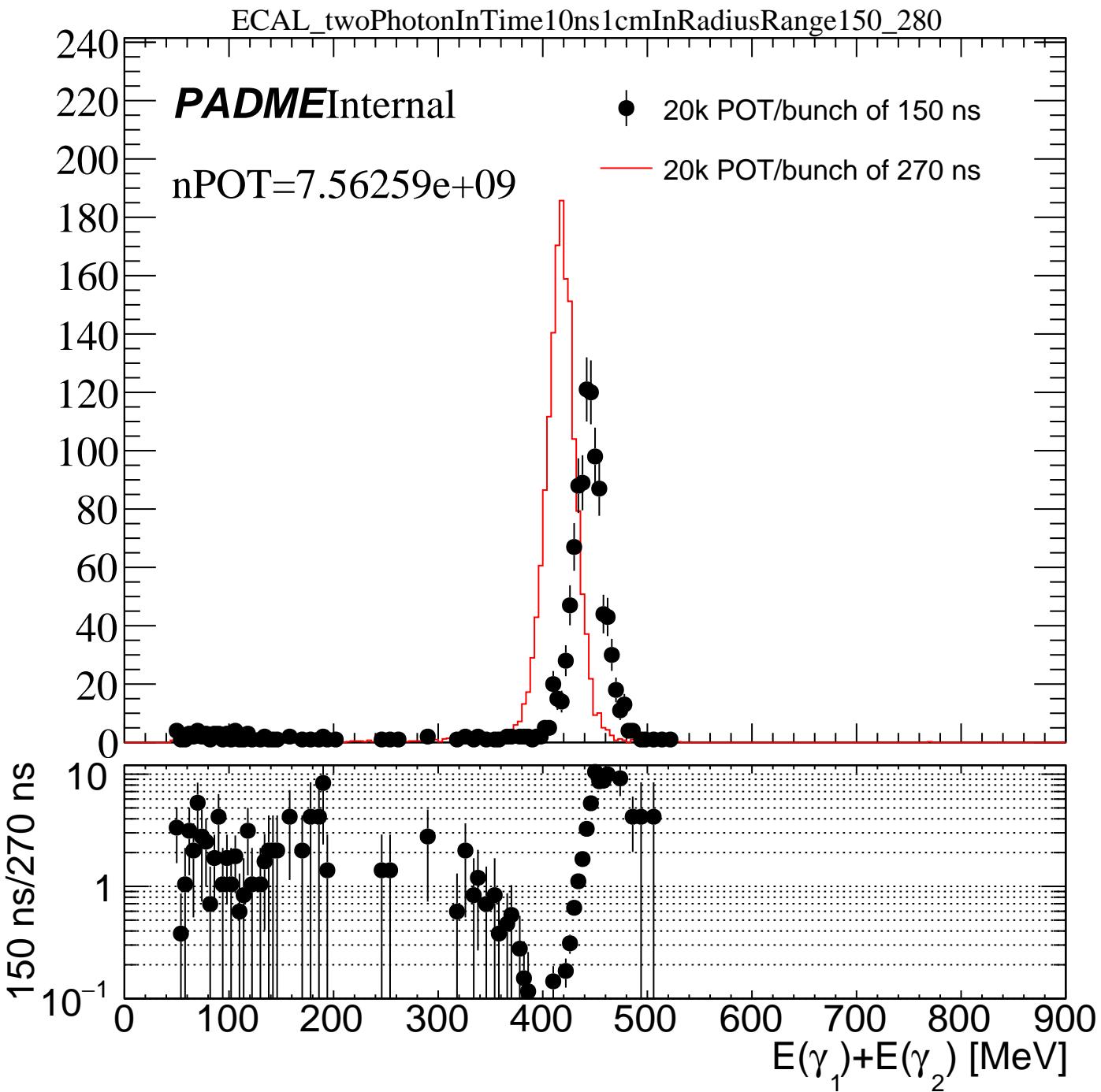


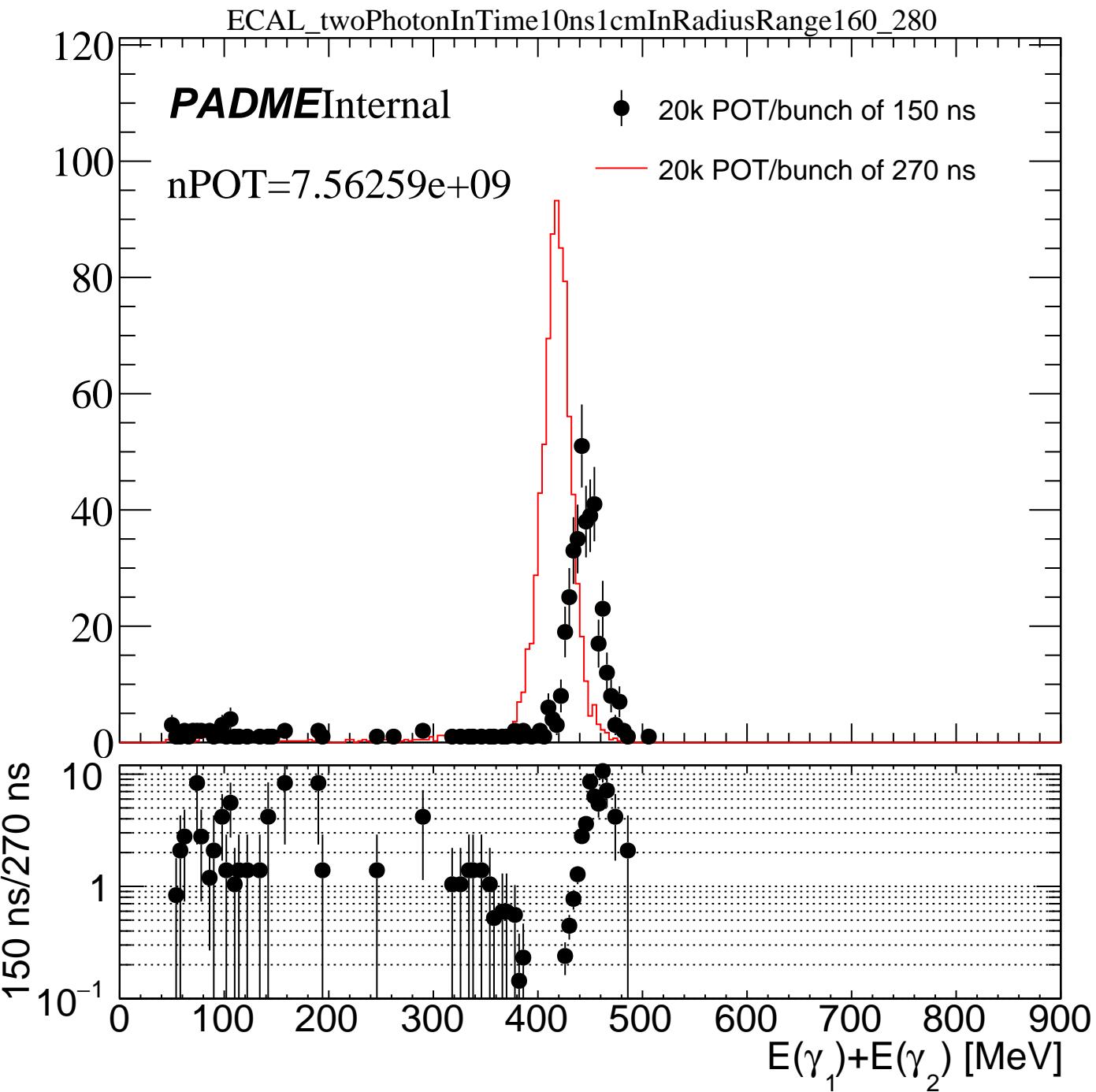
ECAL\_twoPhotonInTime10ns1cmInRadiusRange110\_280

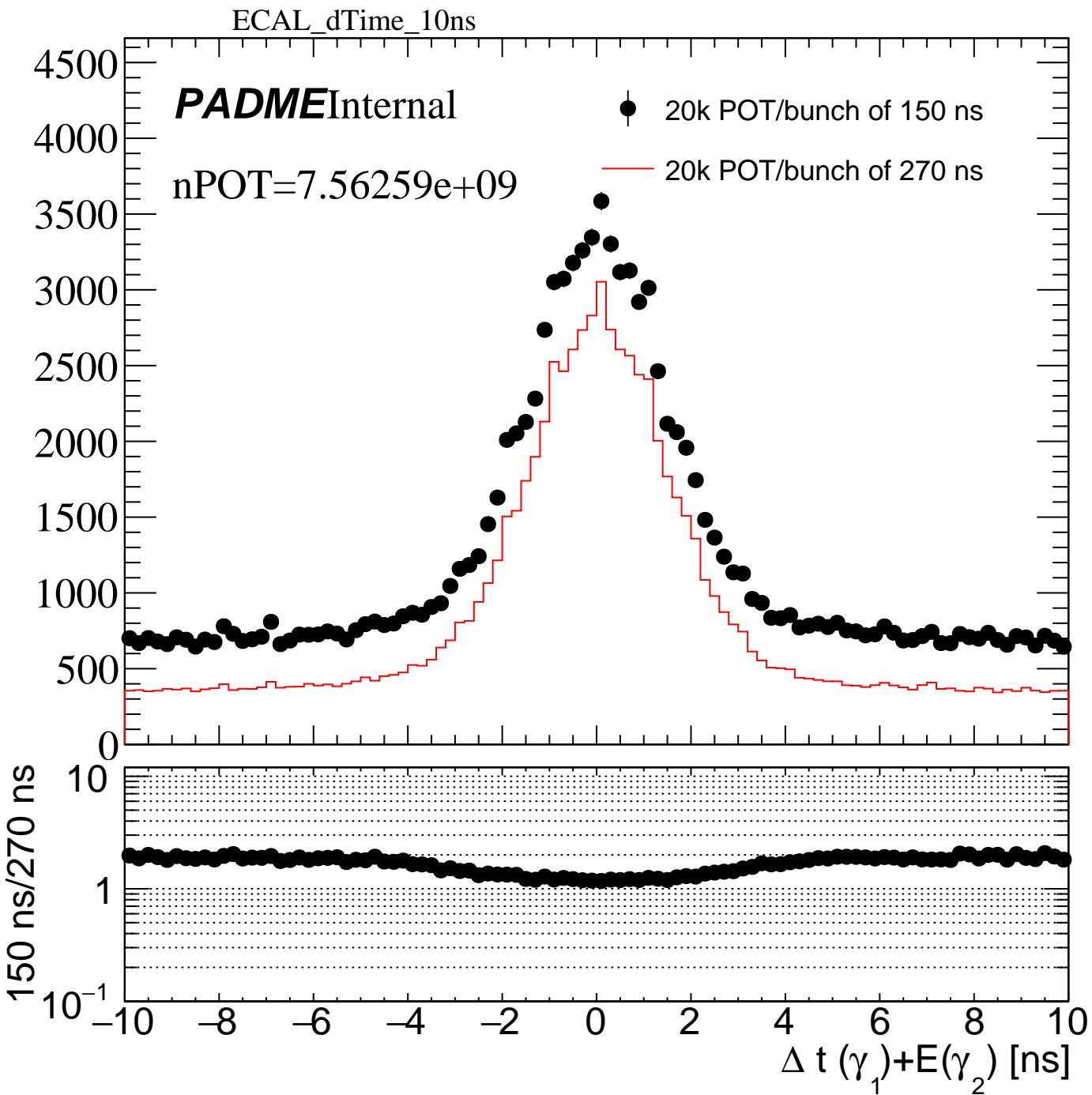


ECAL\_twoPhotonInTime10ns1cmInRadiusRange130\_280

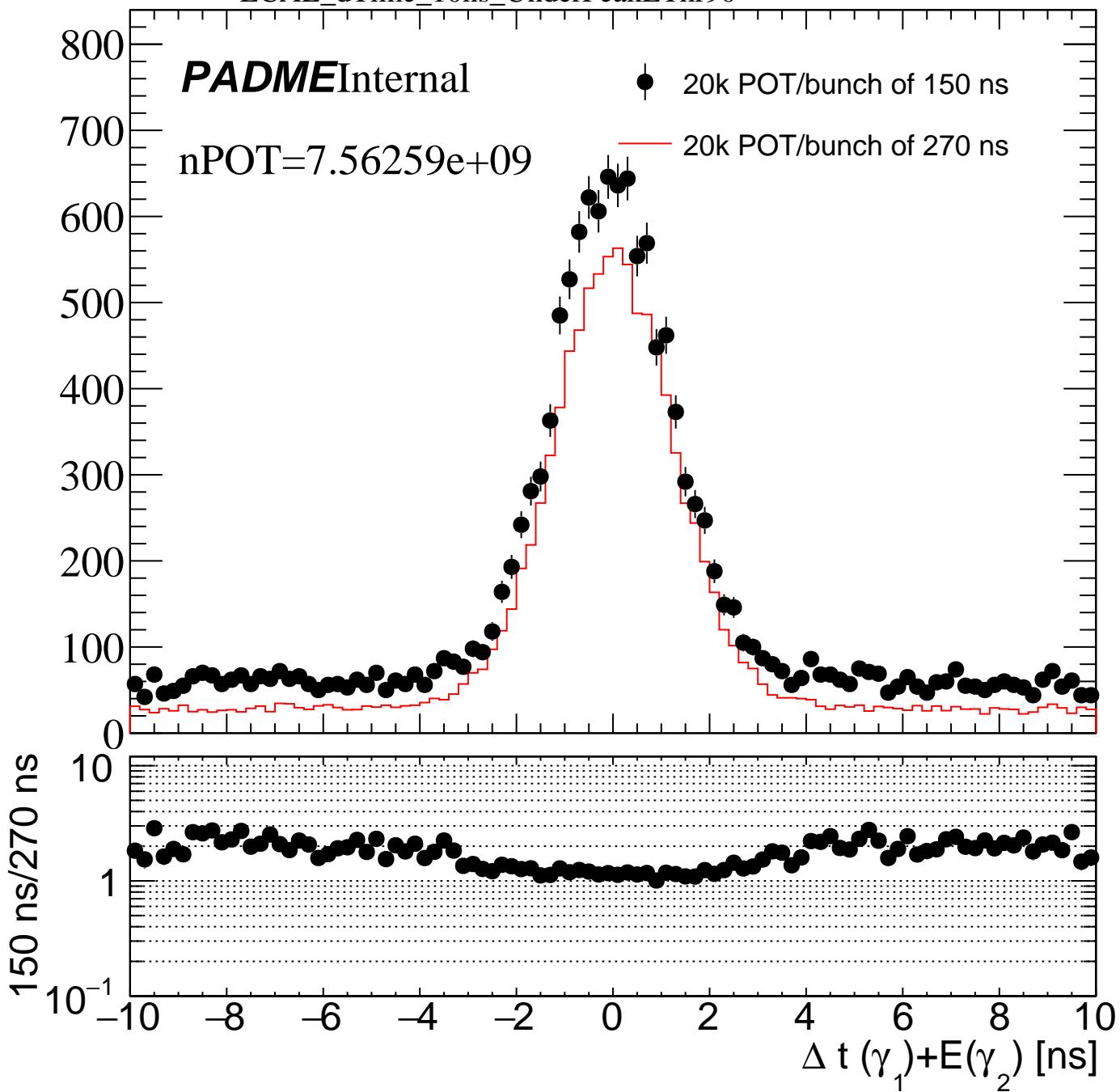


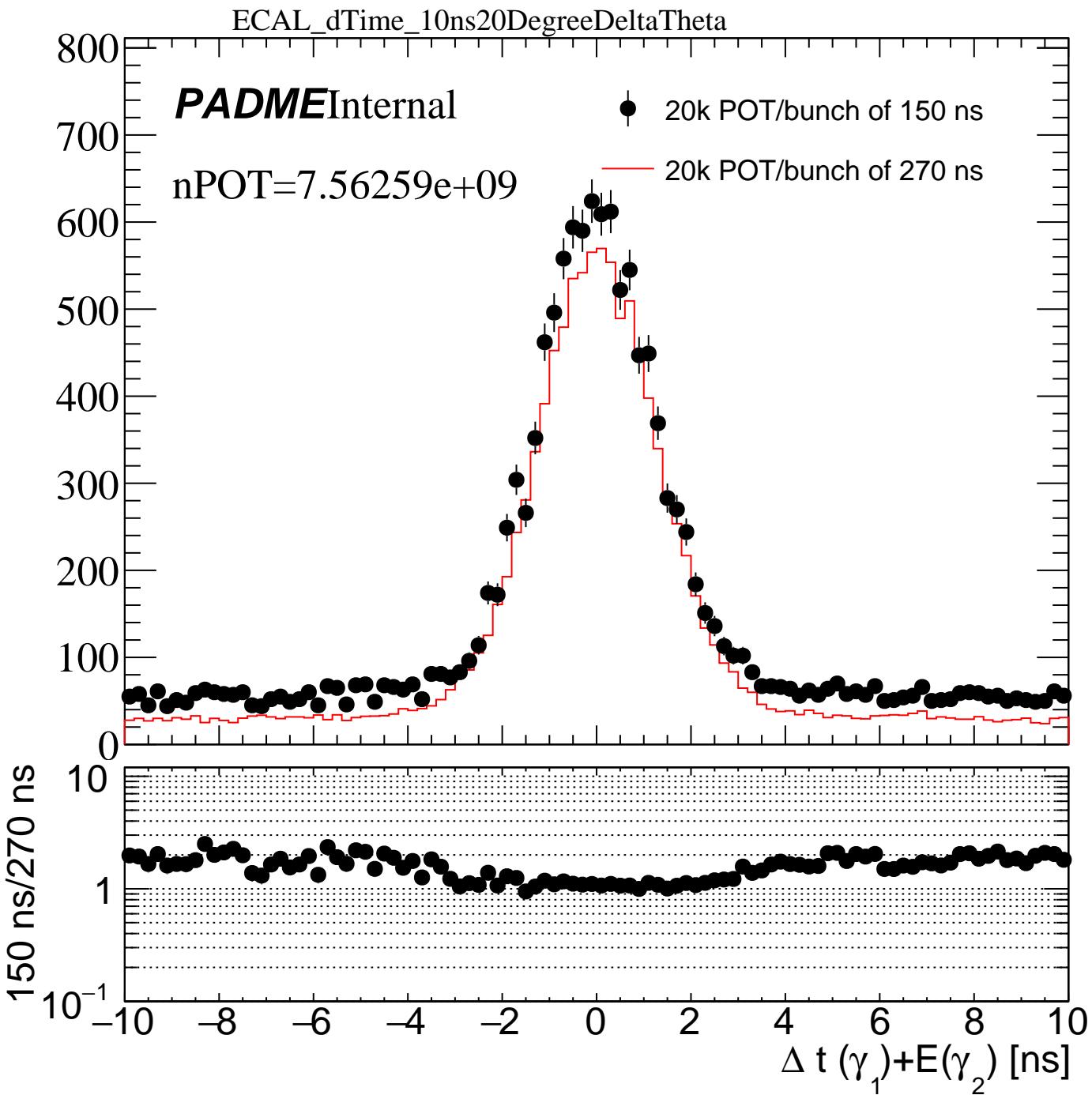




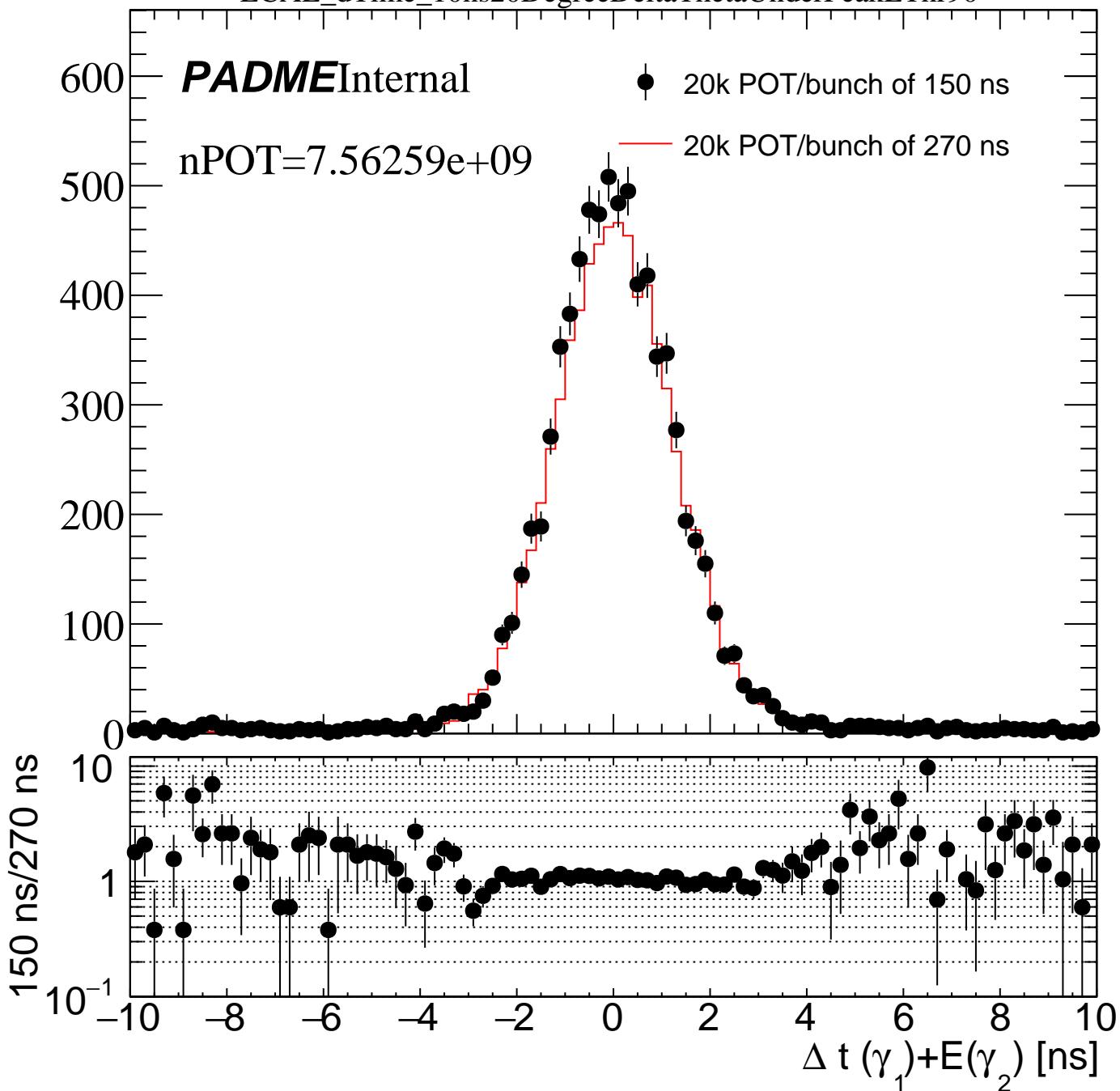


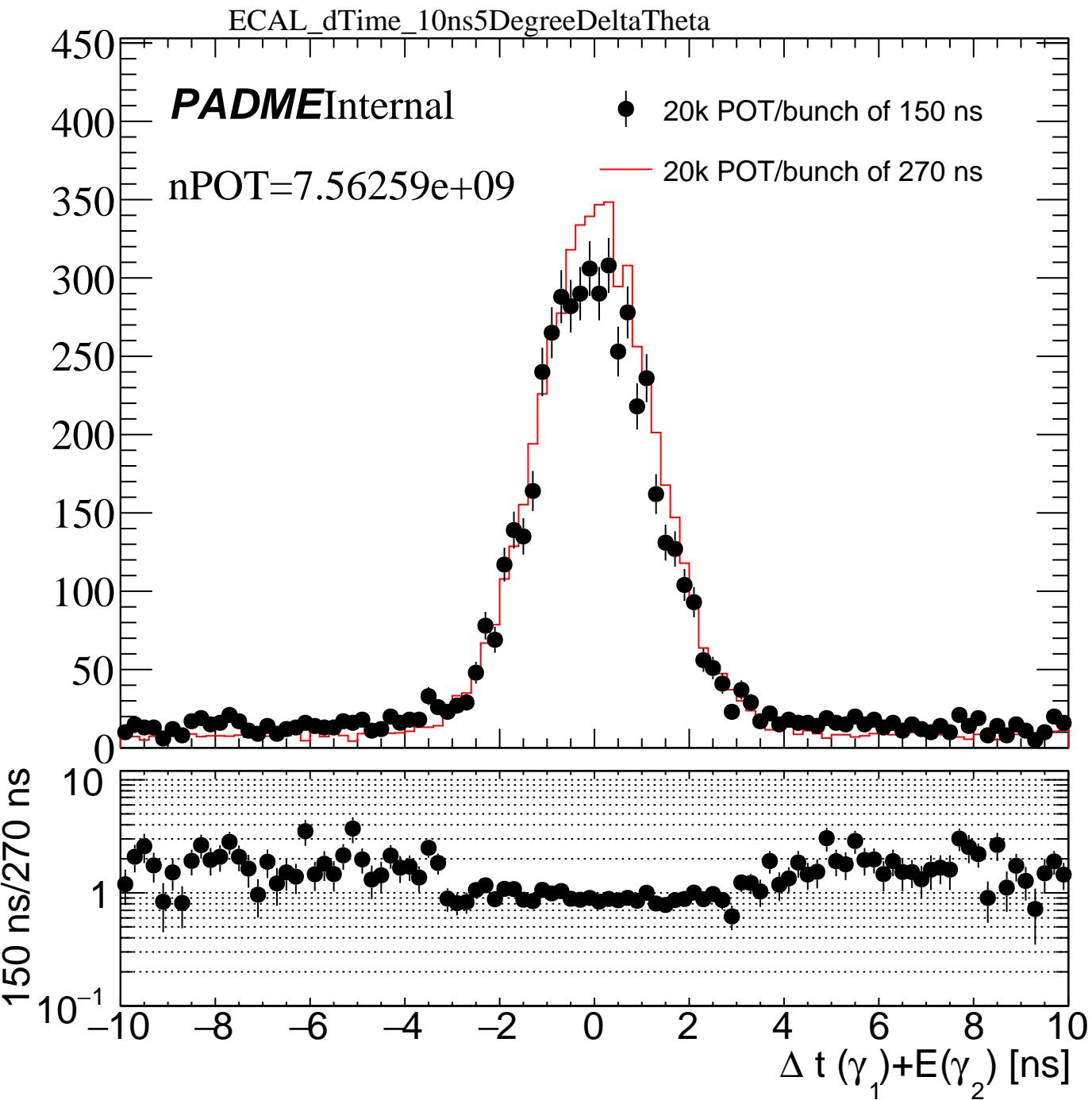
ECAL\_dTime\_10ns\_UnderPeakETHr90

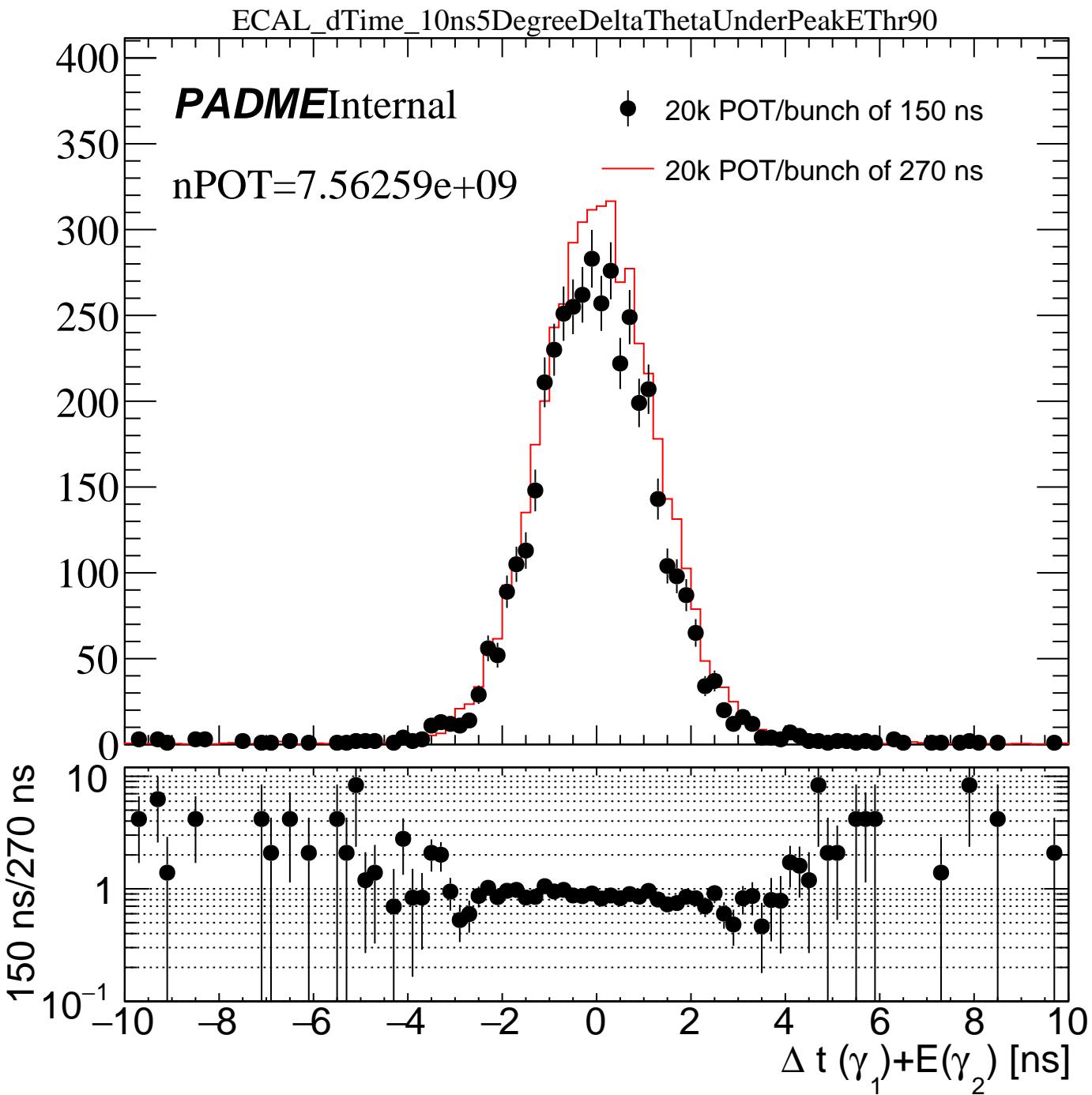




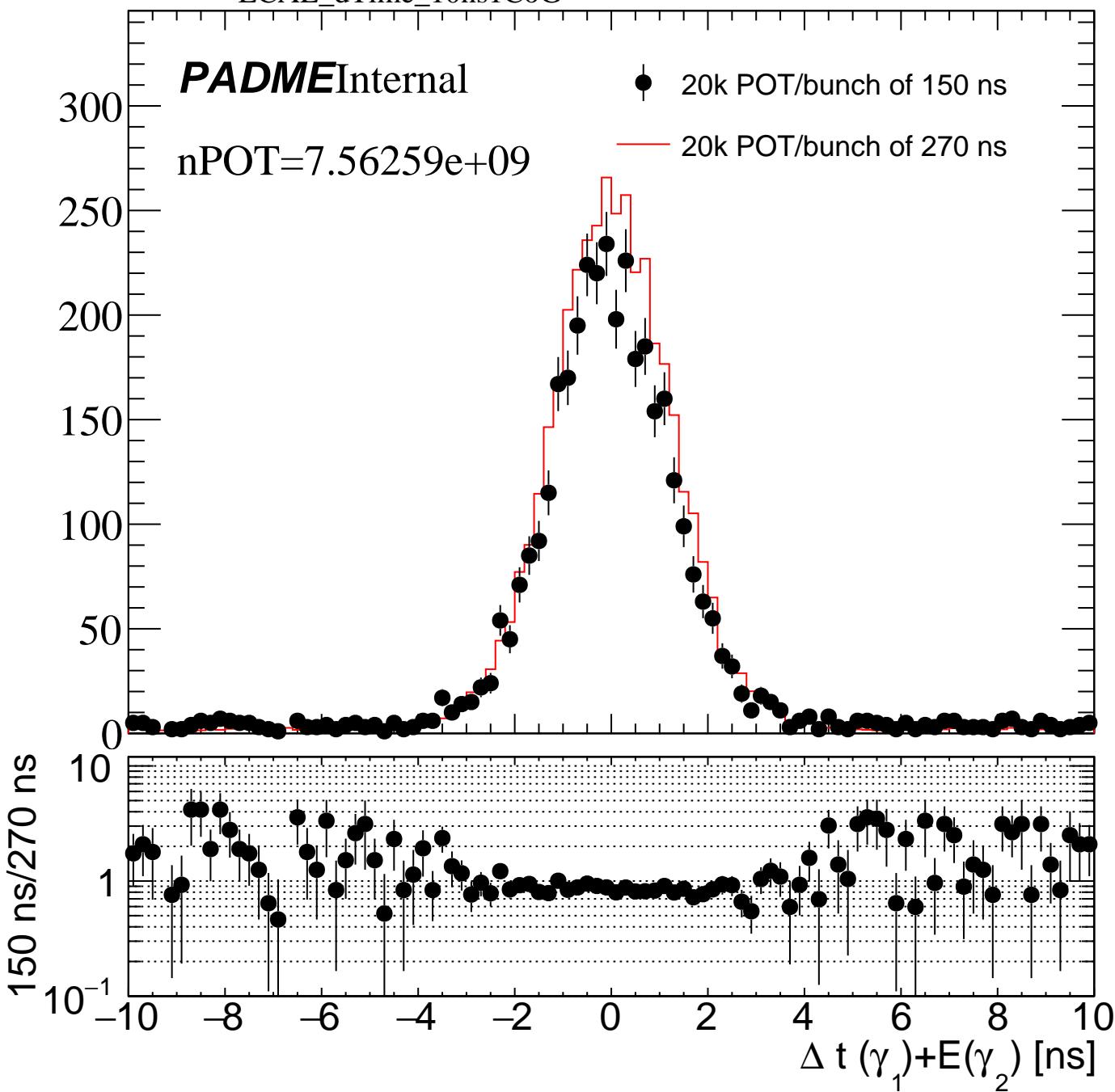
ECAL\_dTime\_10ns20DegreeDeltaThetaUnderPeakEThr90



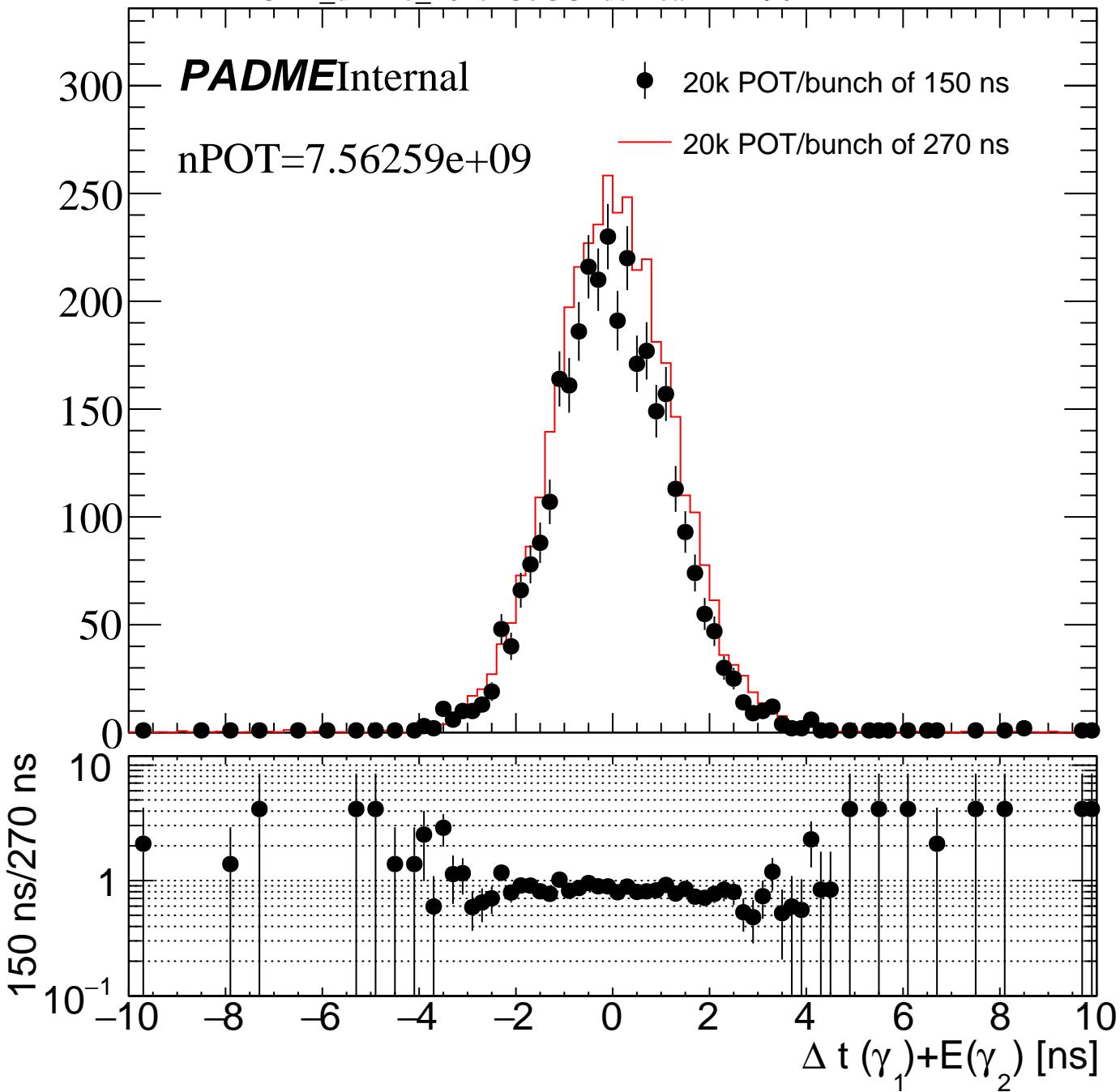


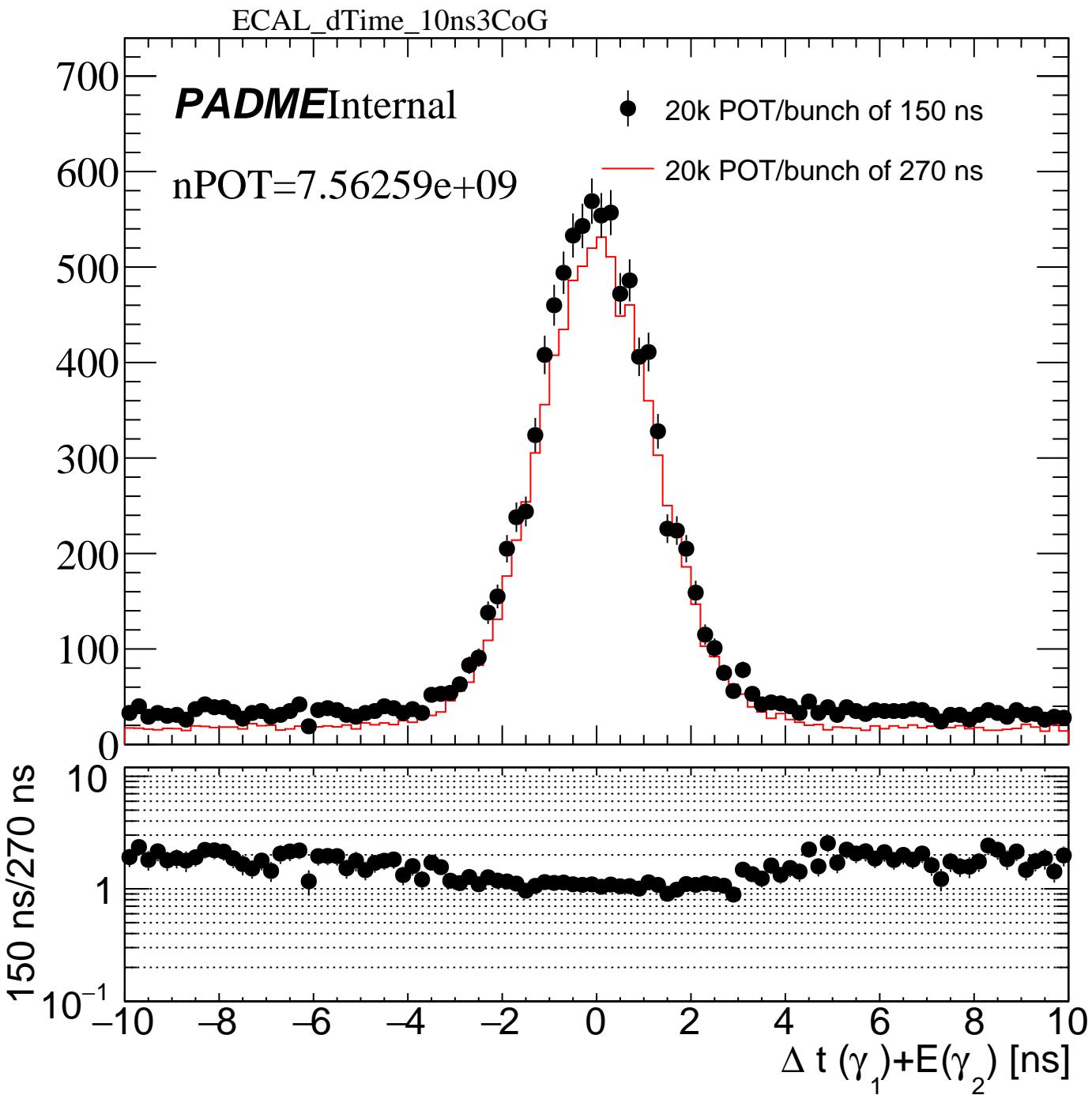


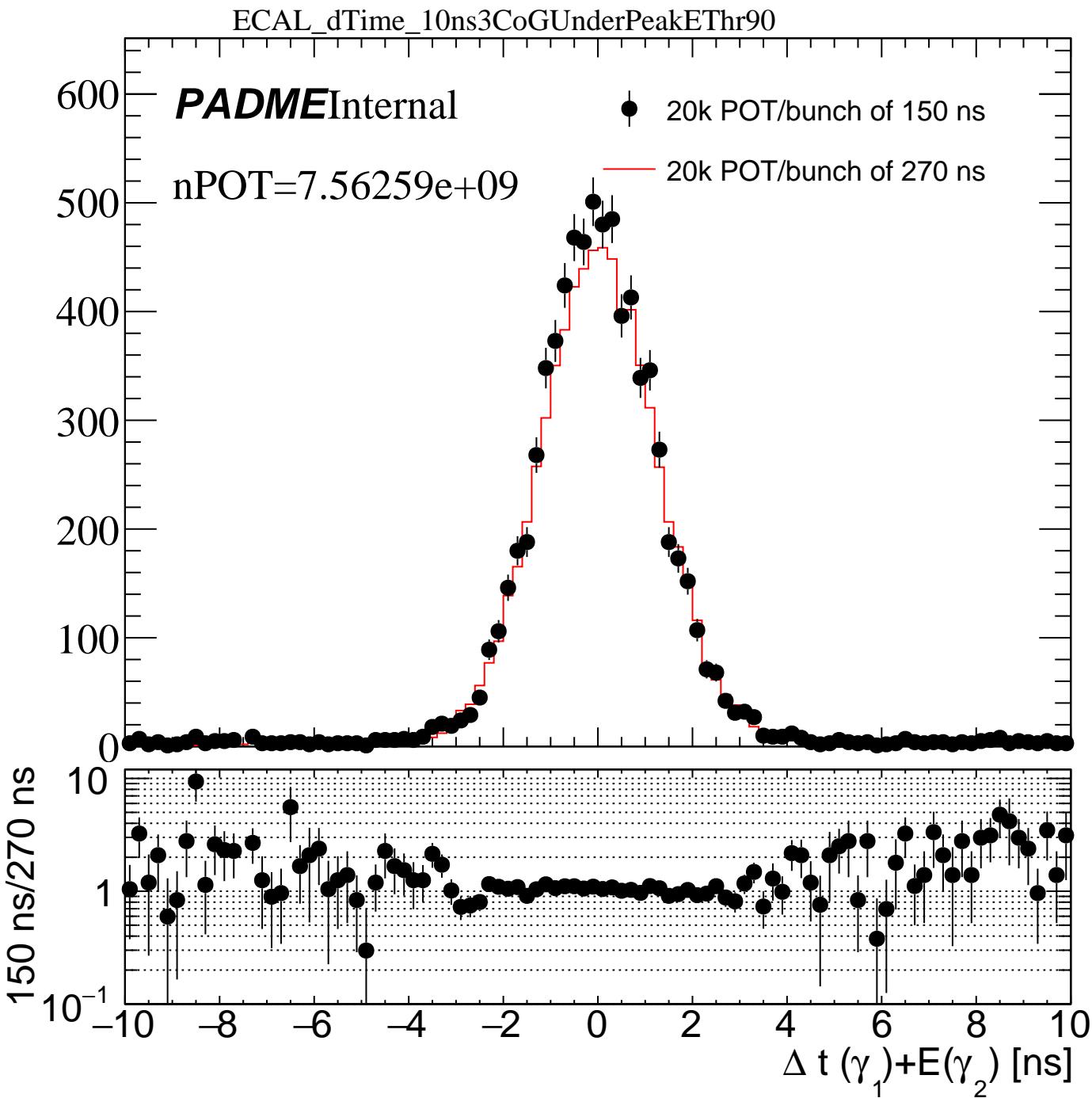
ECAL\_dTime\_10ns1CoG

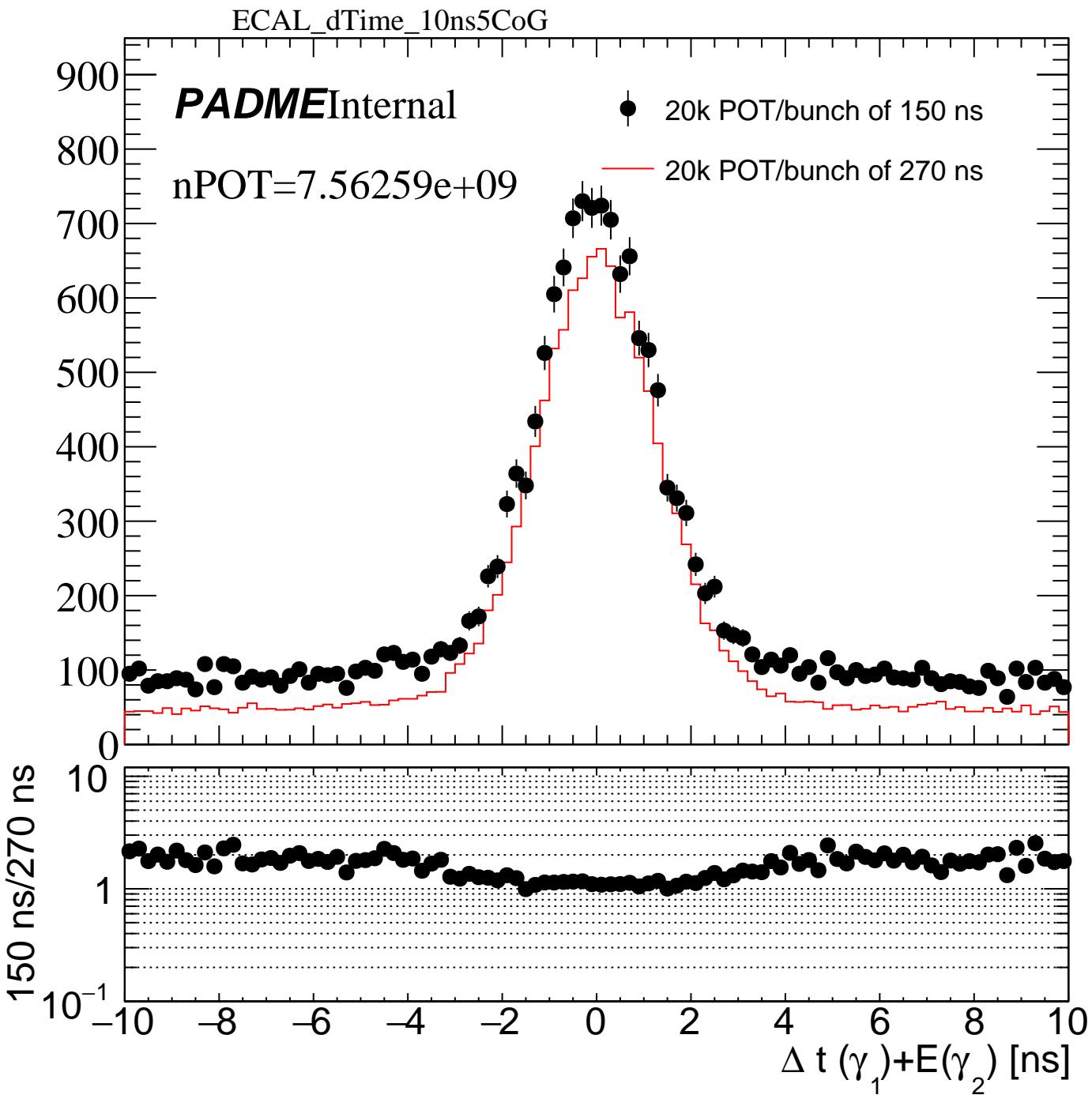


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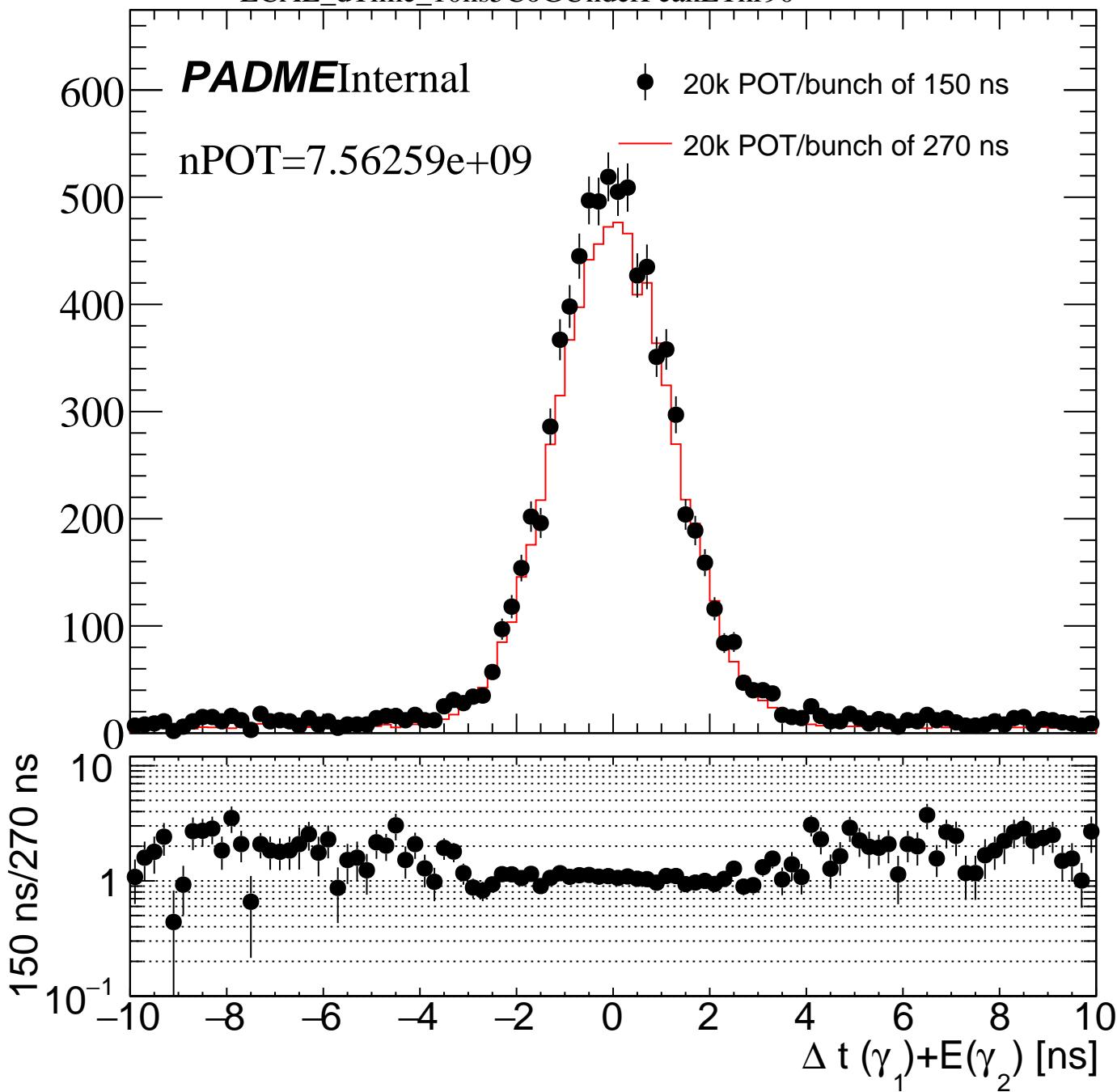




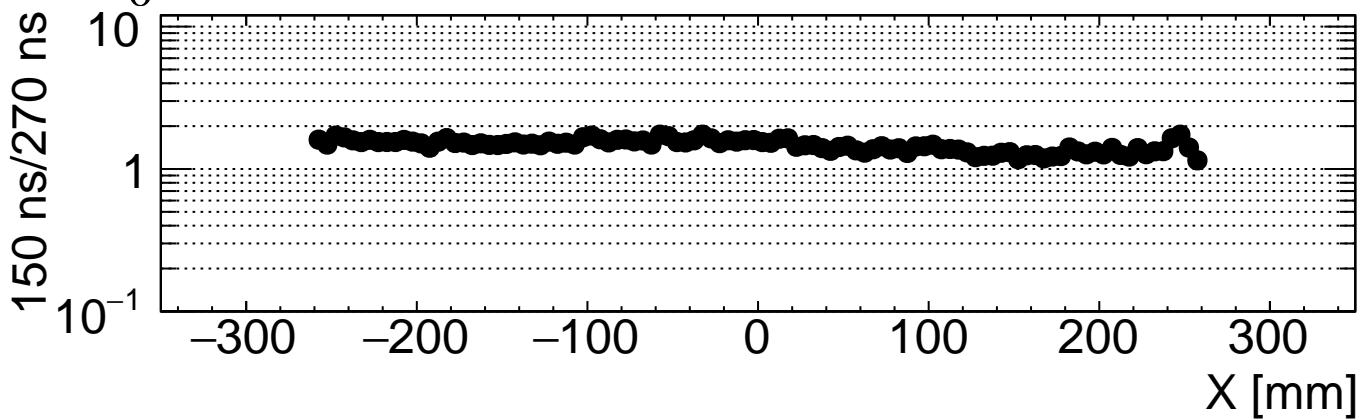
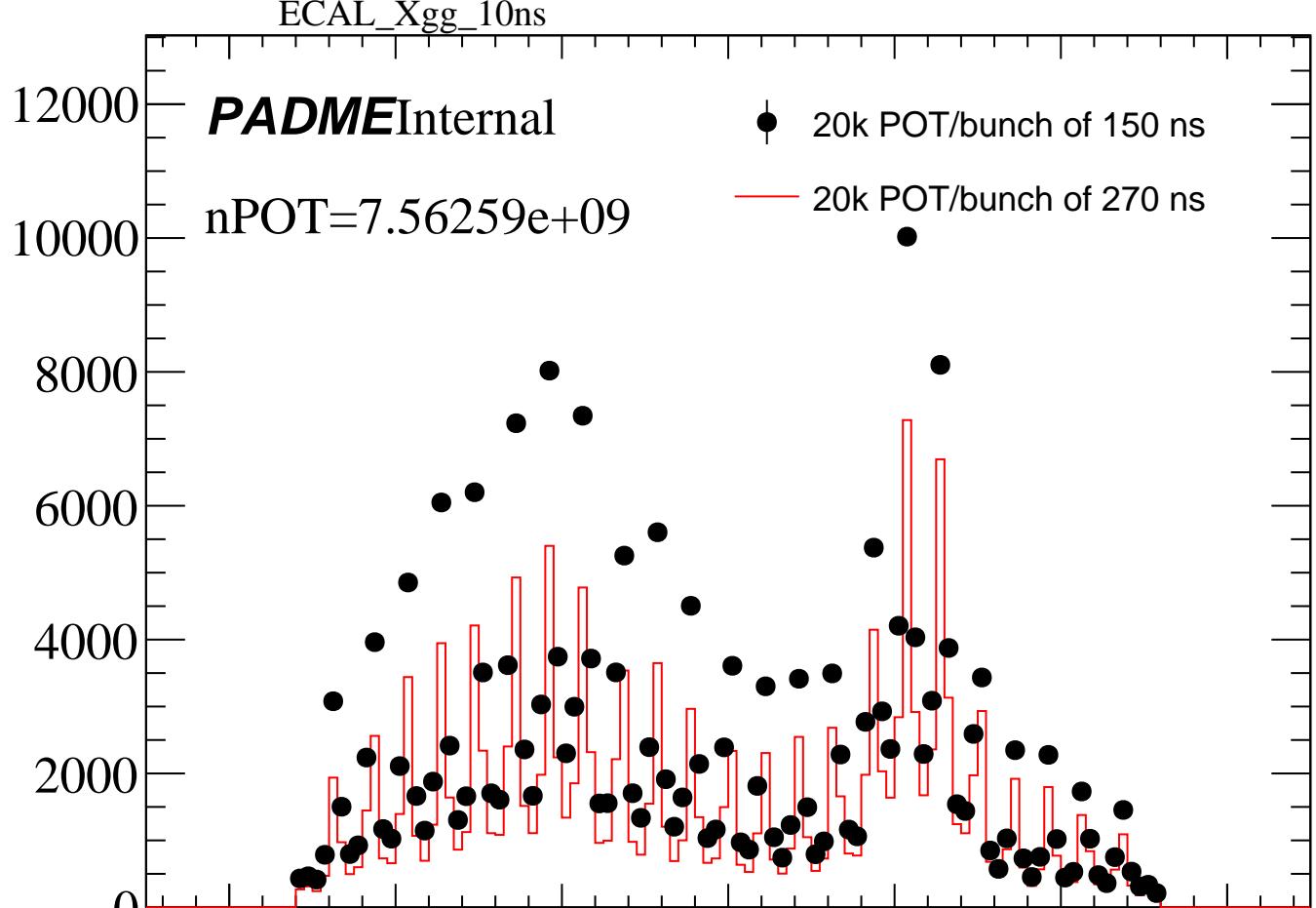


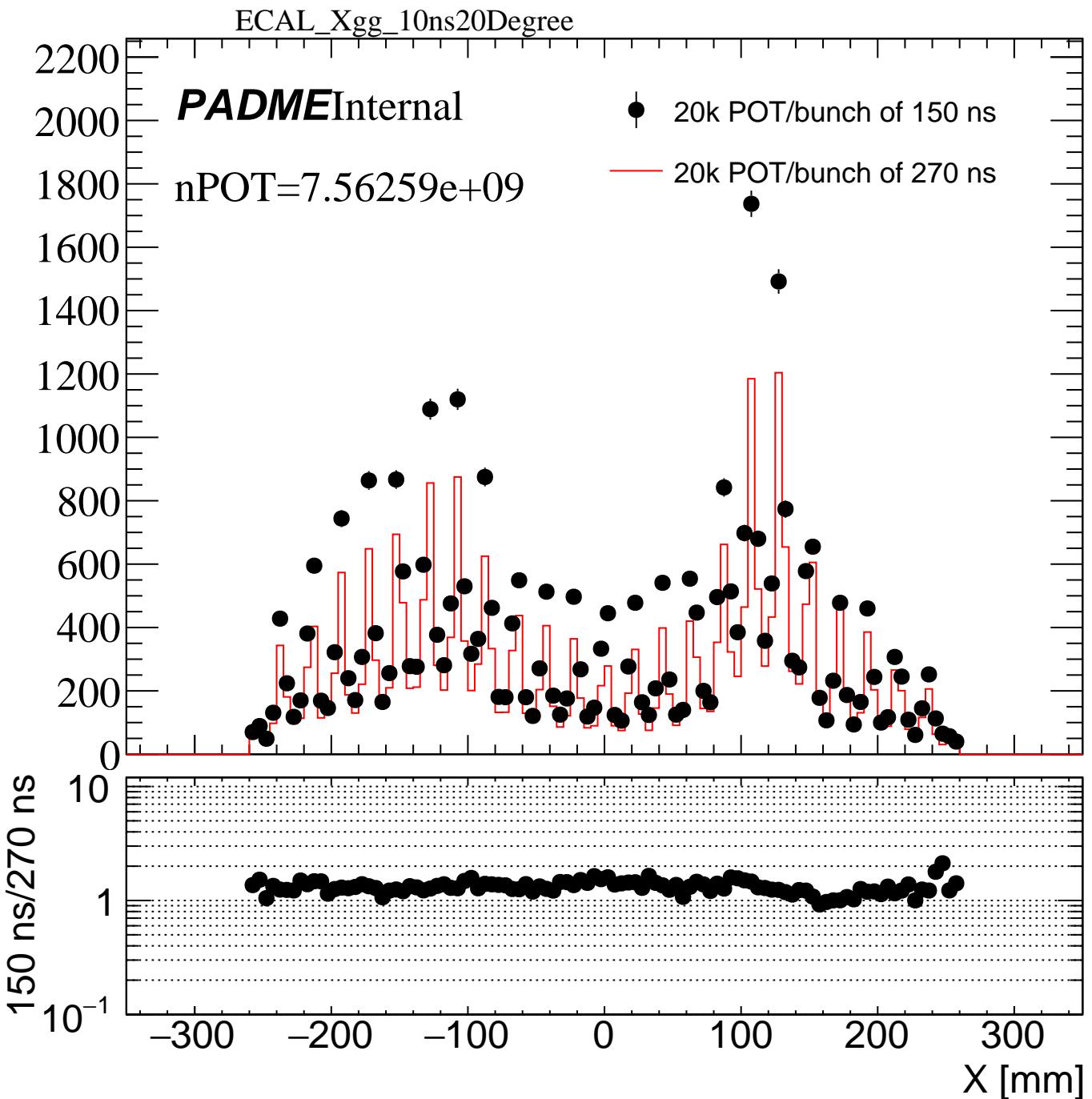


ECAL\_dTime\_10ns5CoGUnderPeakEThr90

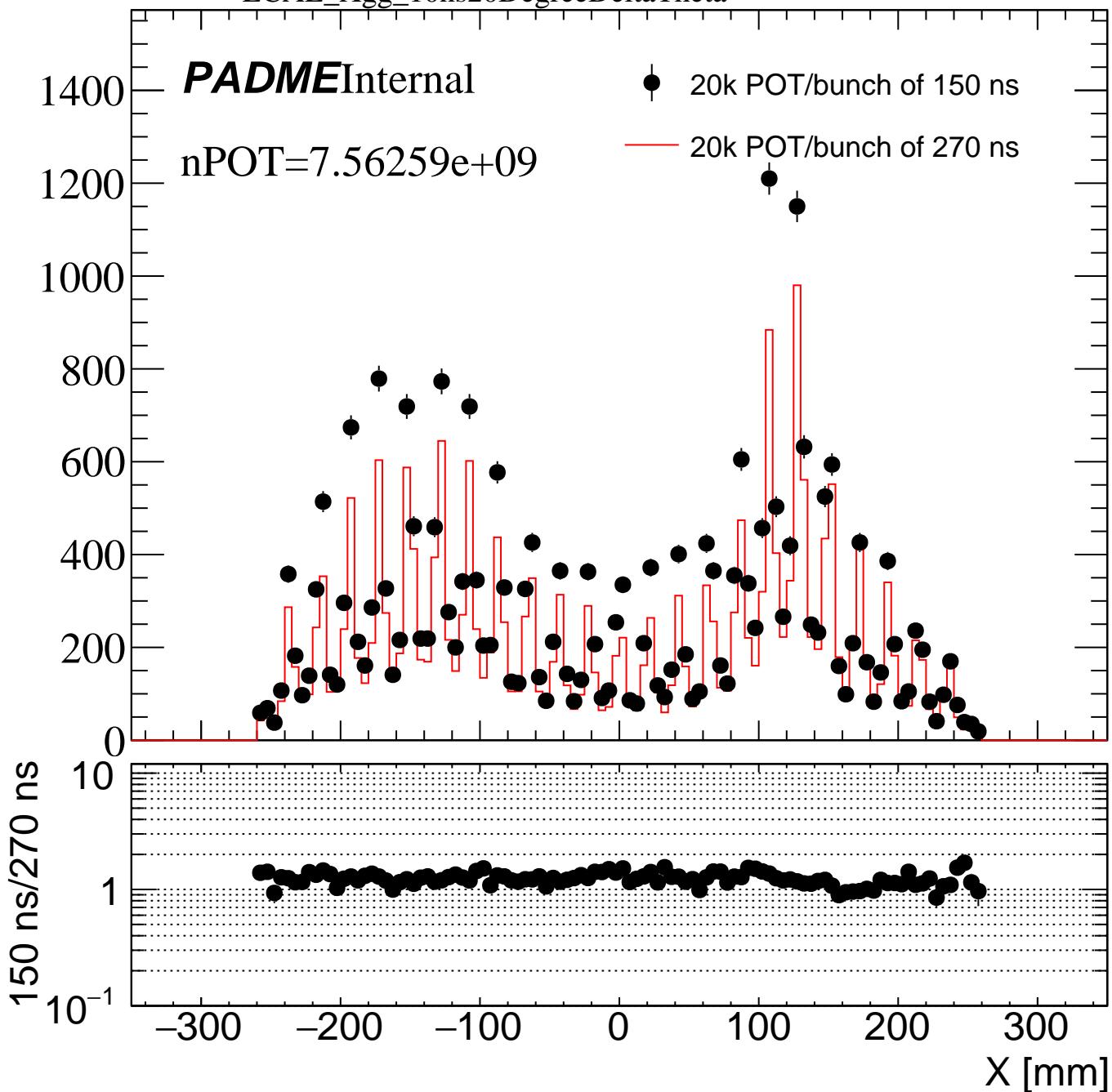


ECAL\_Xgg\_10ns

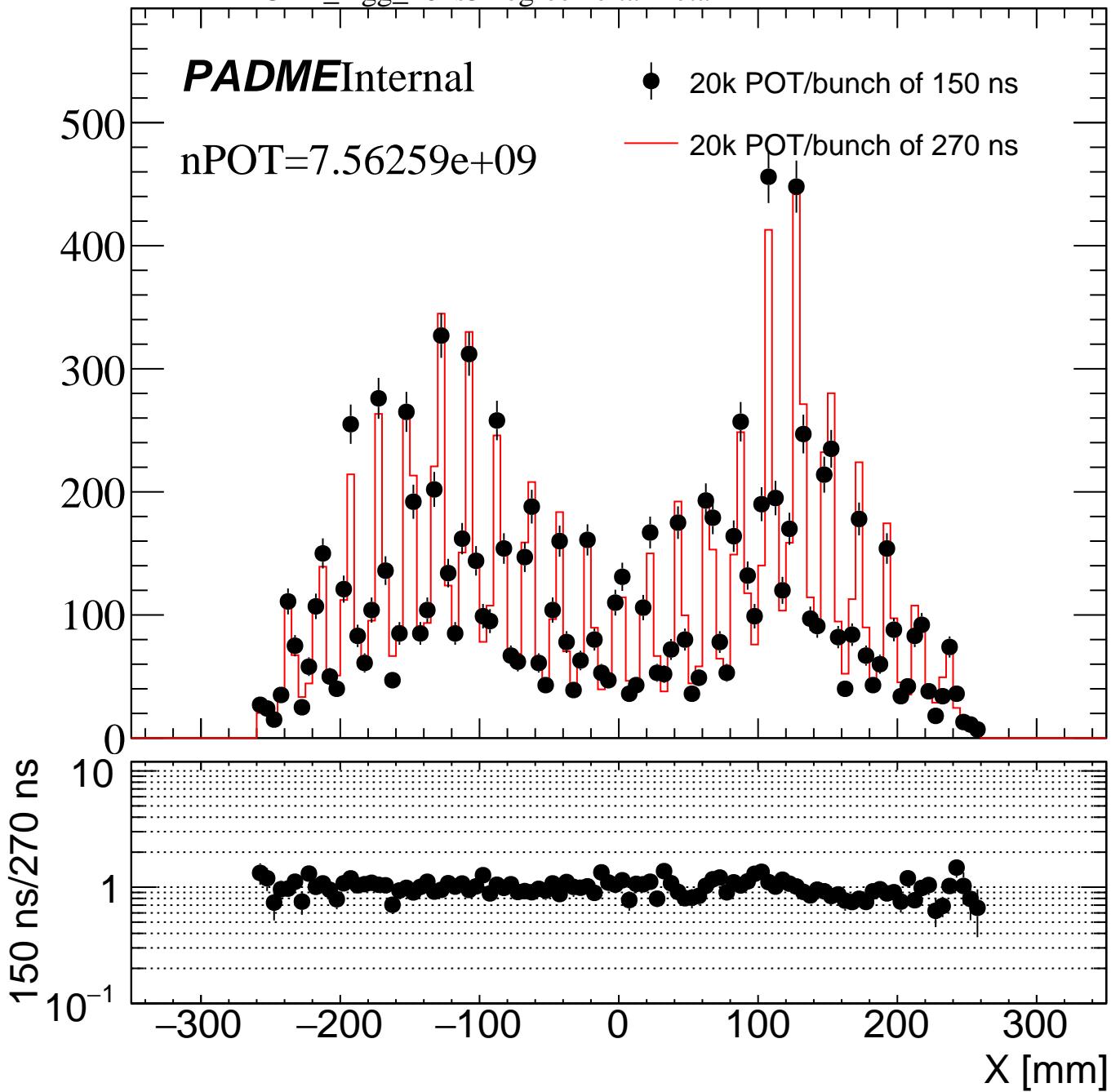




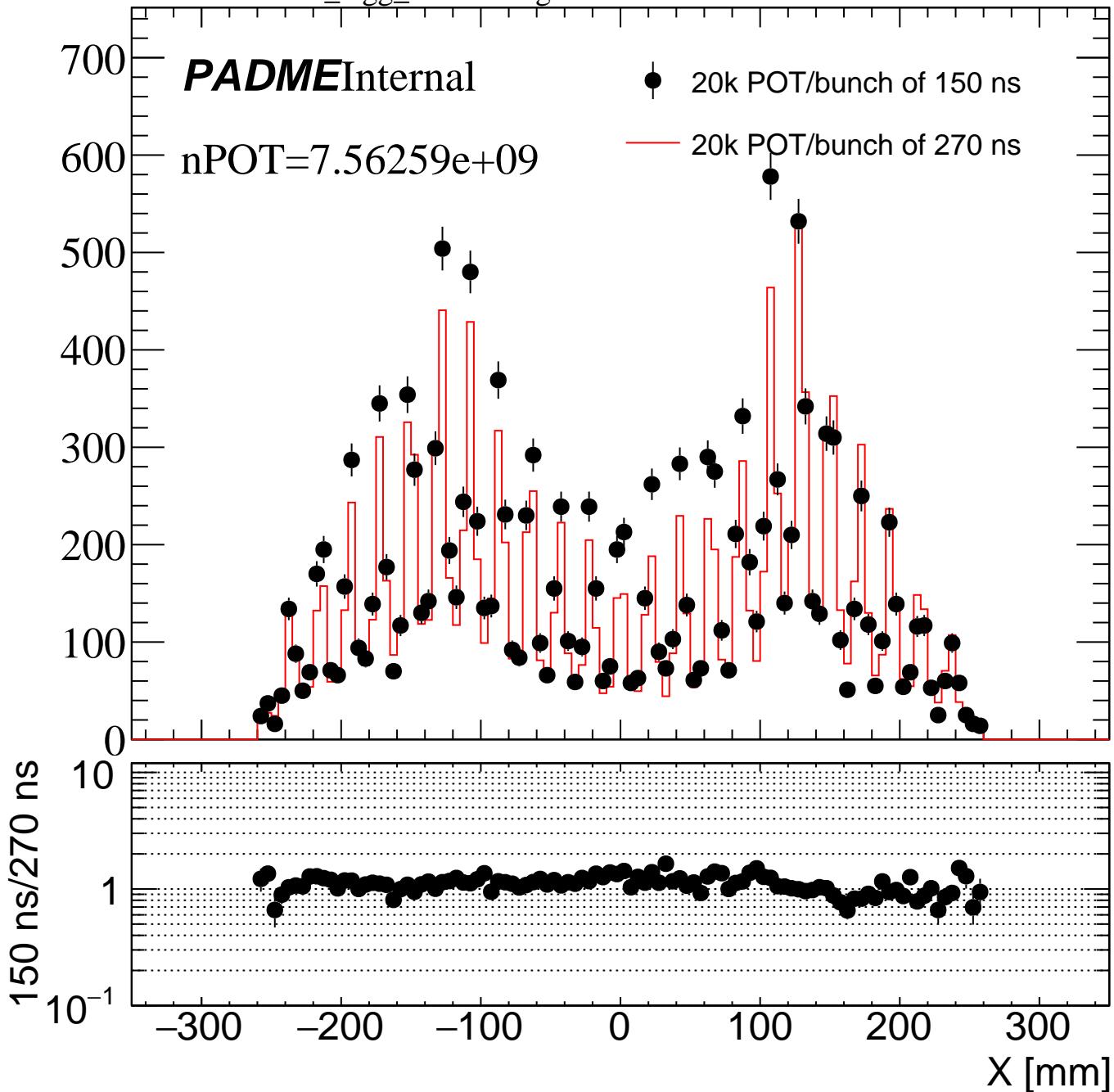
# ECAL\_Xgg\_10ns20DegreeDeltaTheta



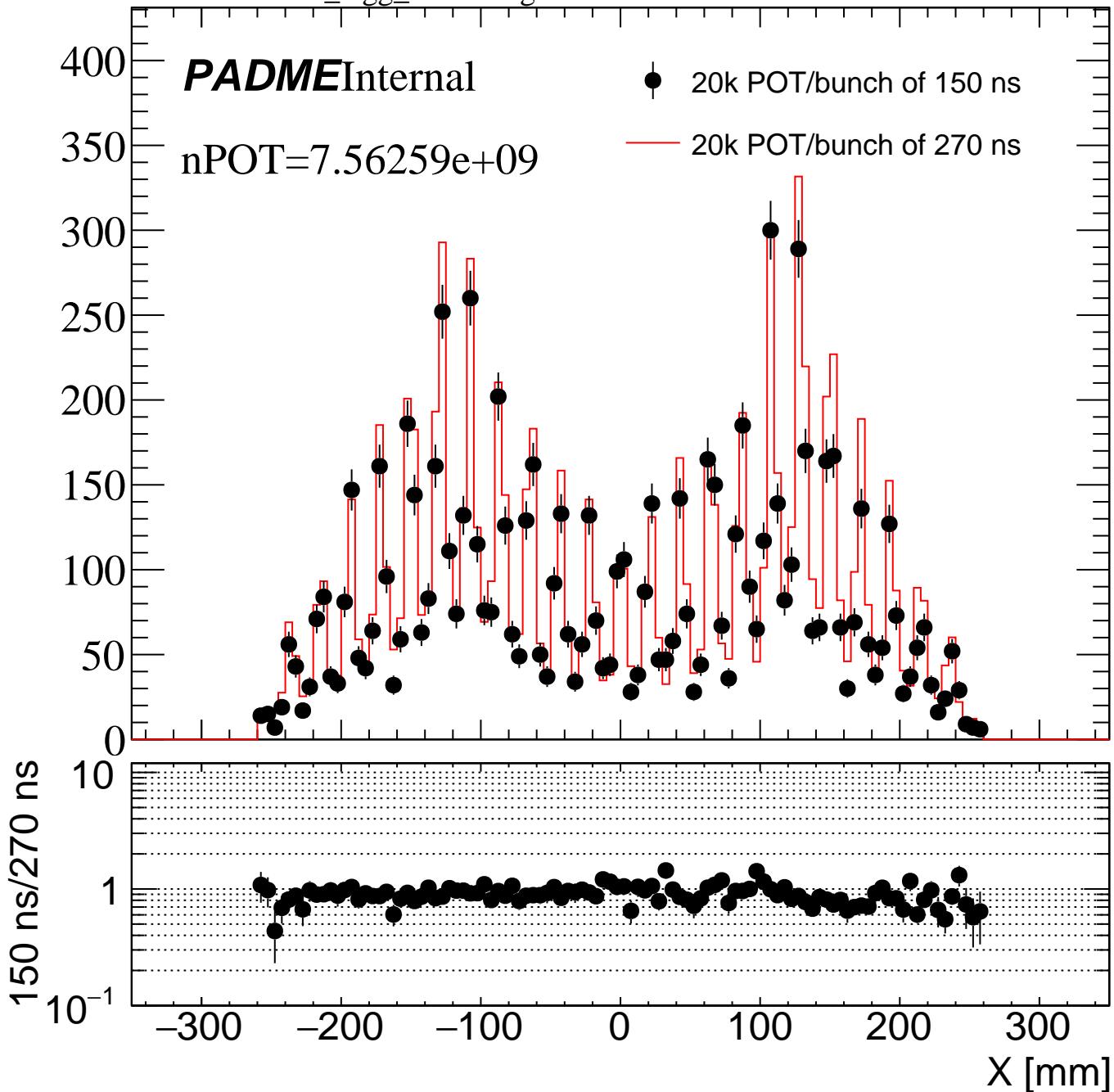
# ECAL\_Xgg\_10ns5DegreeDeltaTheta



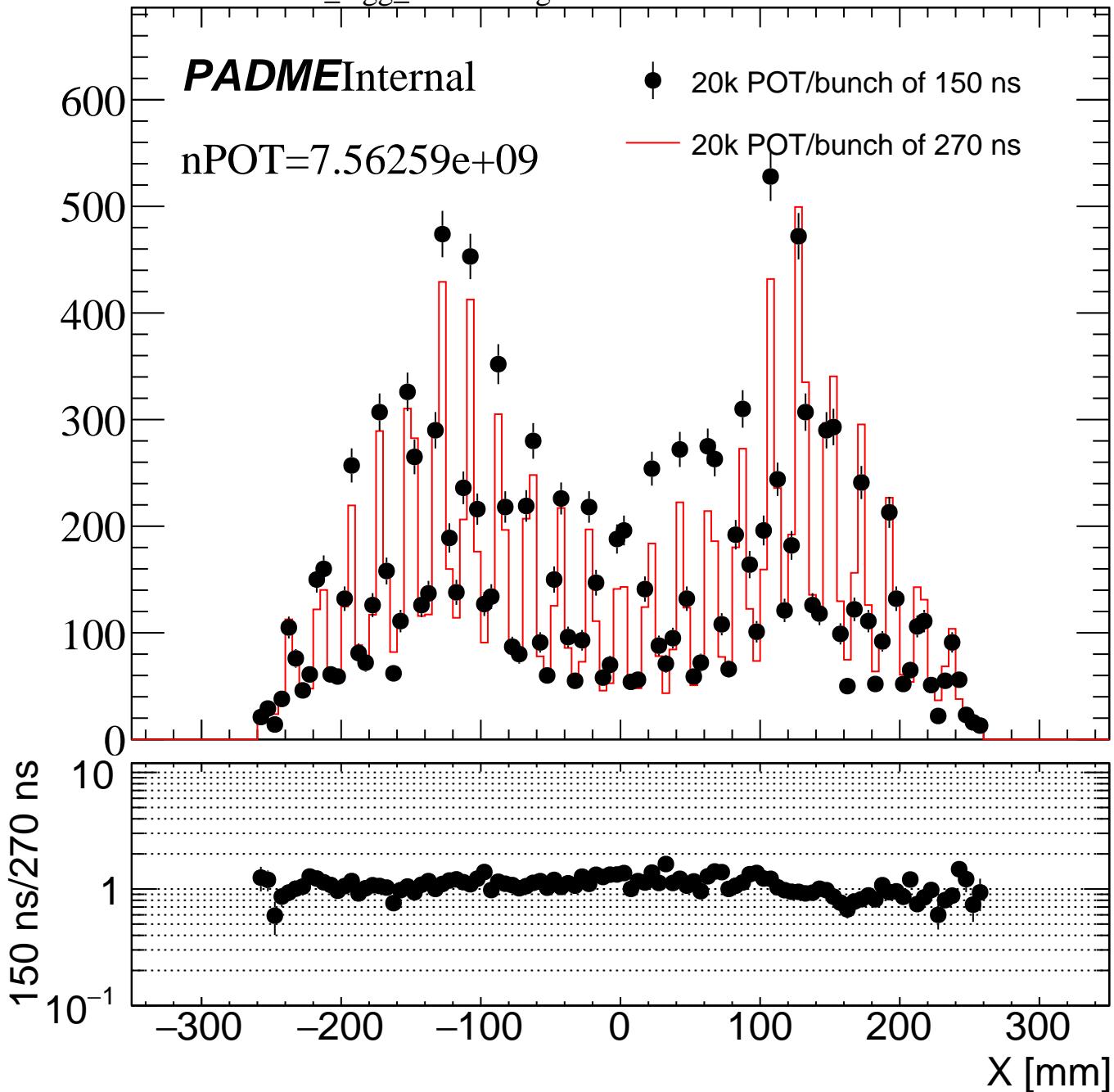
# ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeak



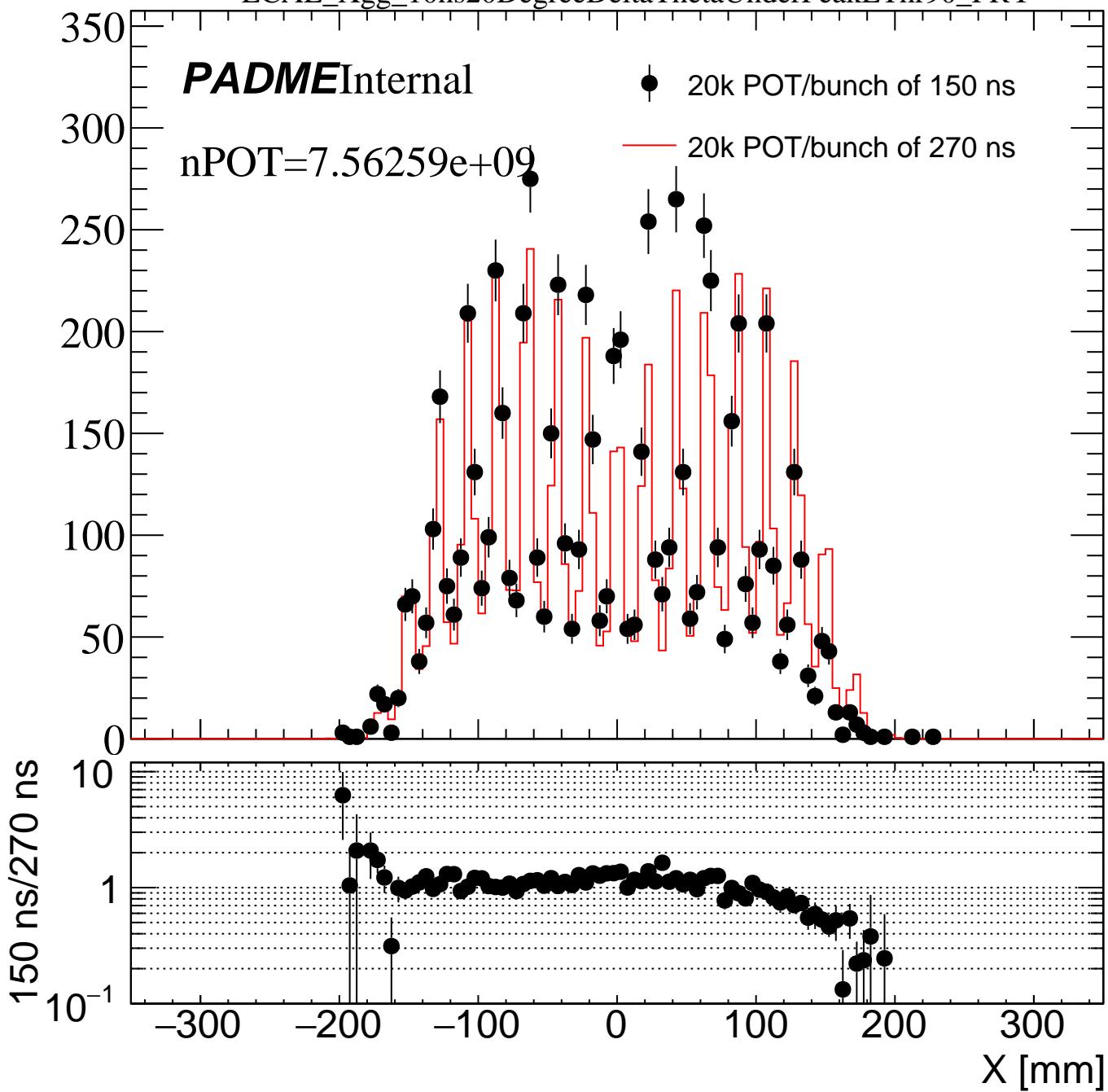
# ECAL\_Xgg\_10ns5DegreeDeltaThetaUnderPeak



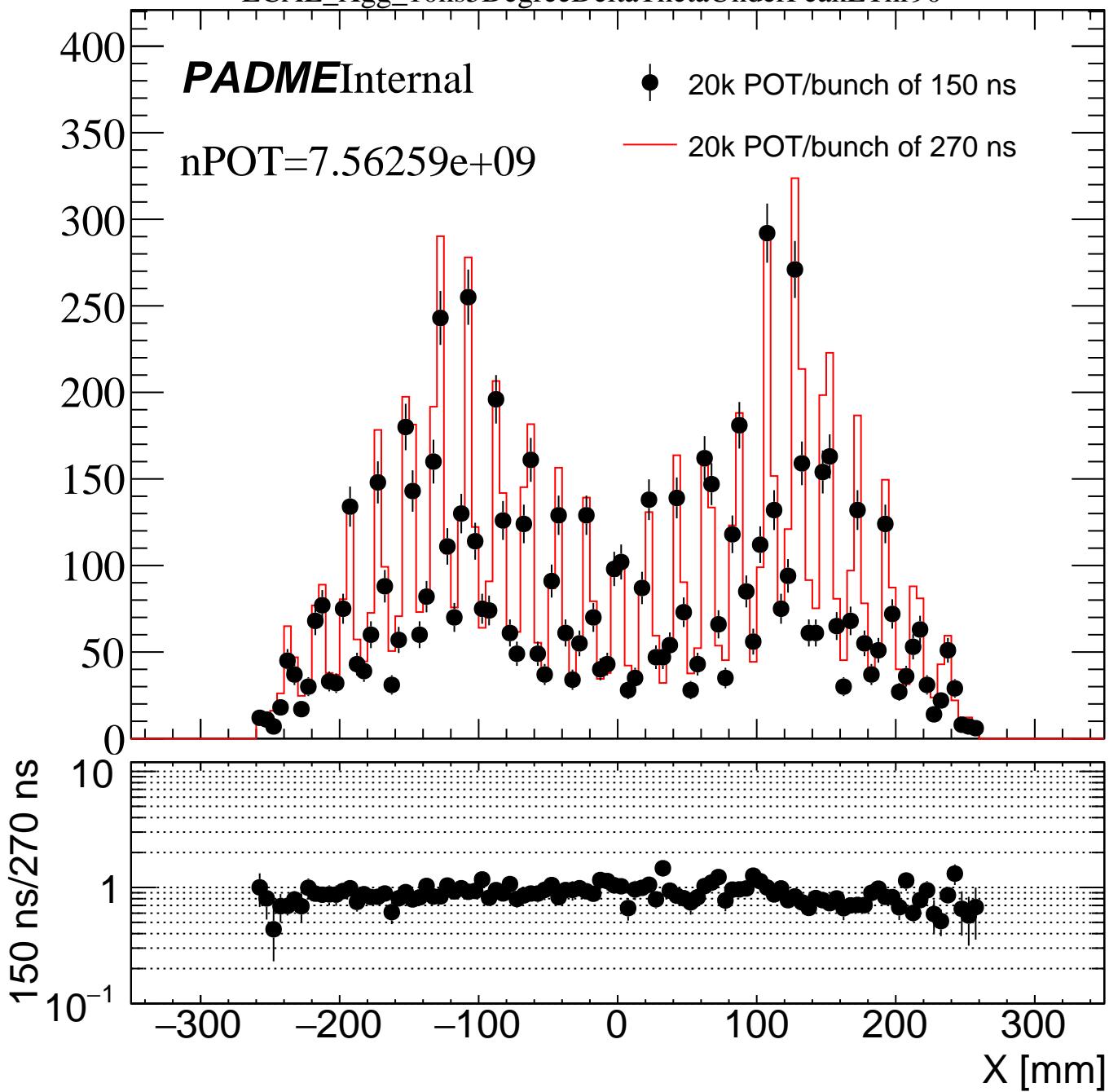
ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeakEThr90



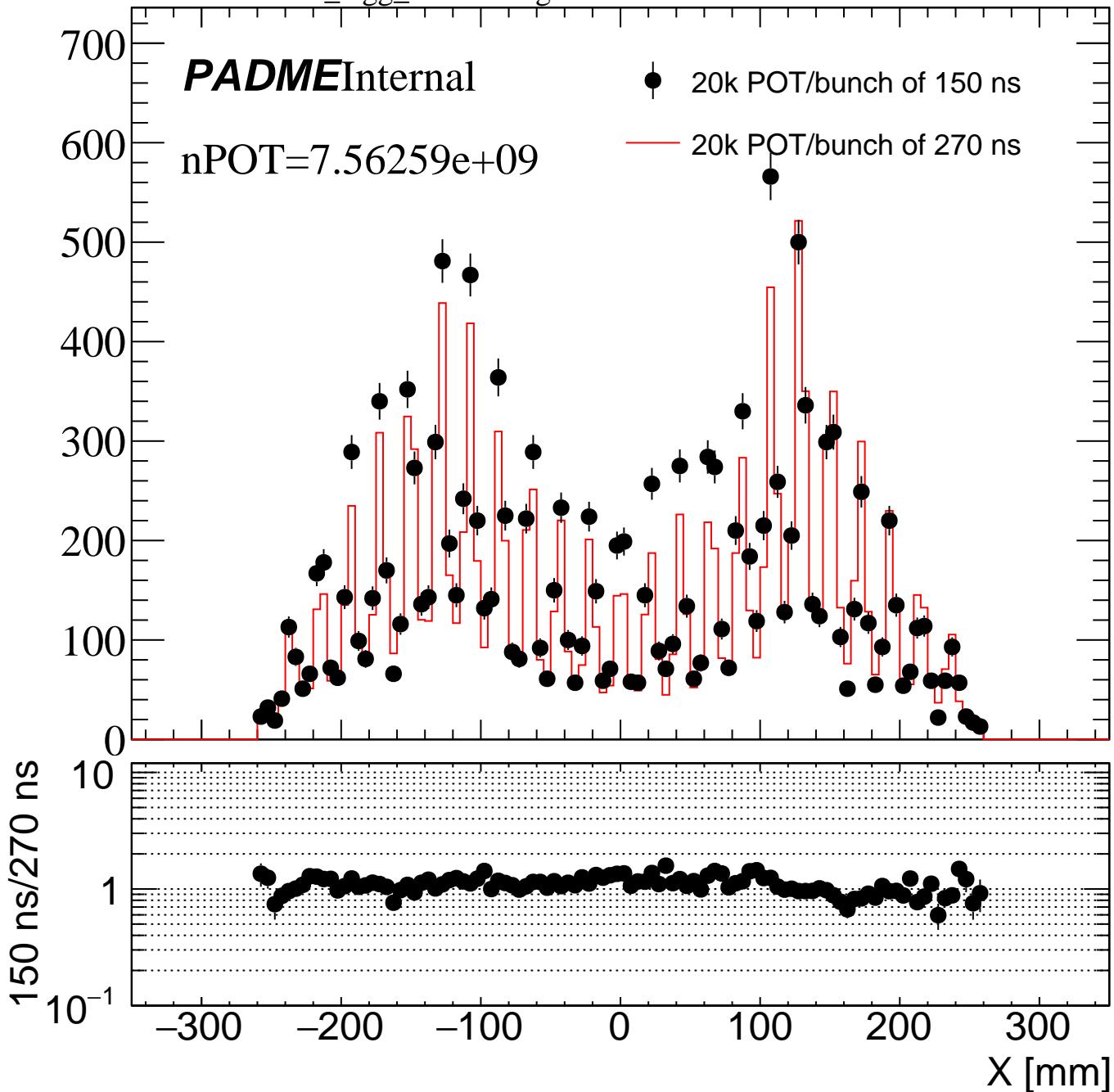
ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY



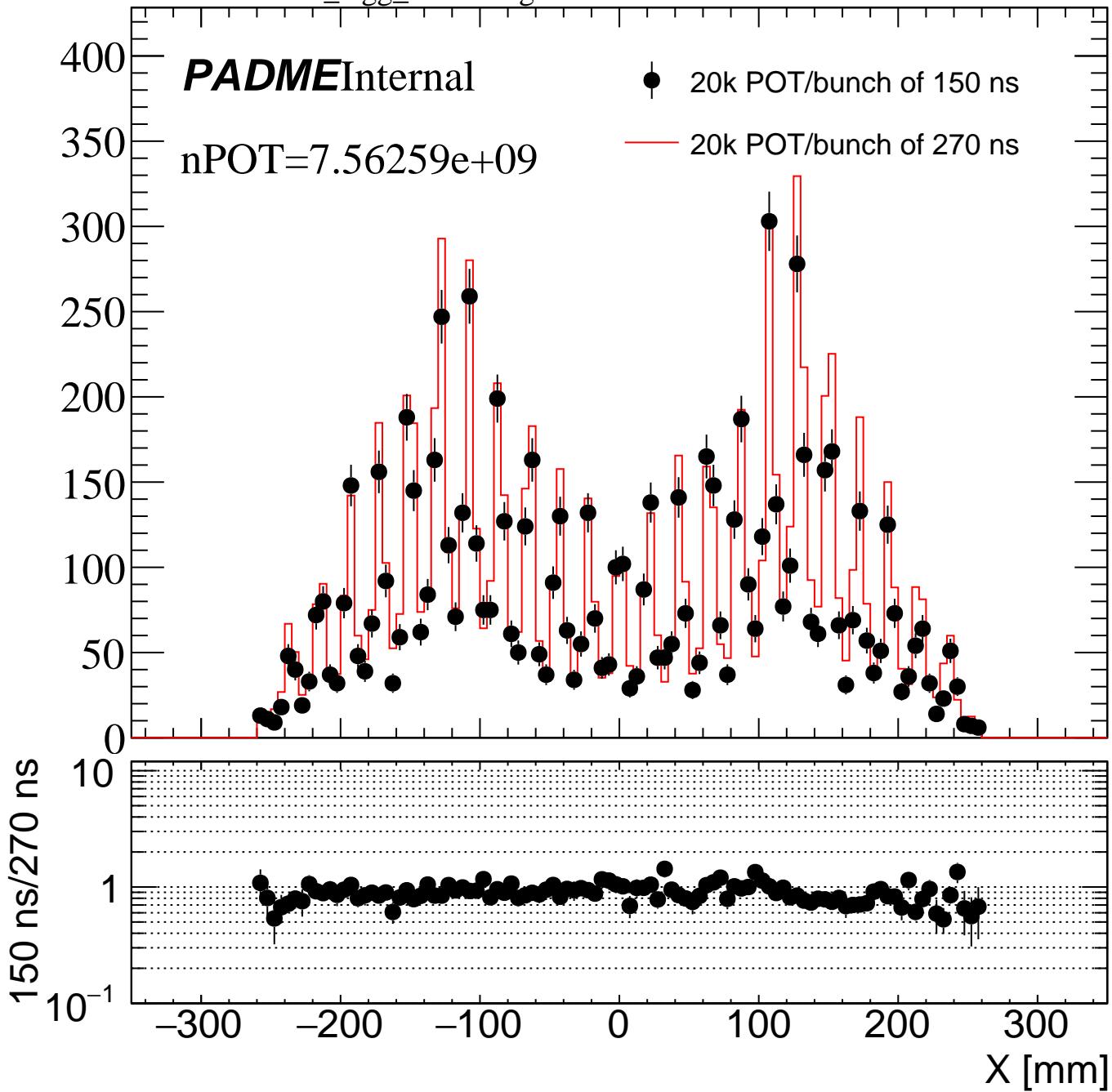
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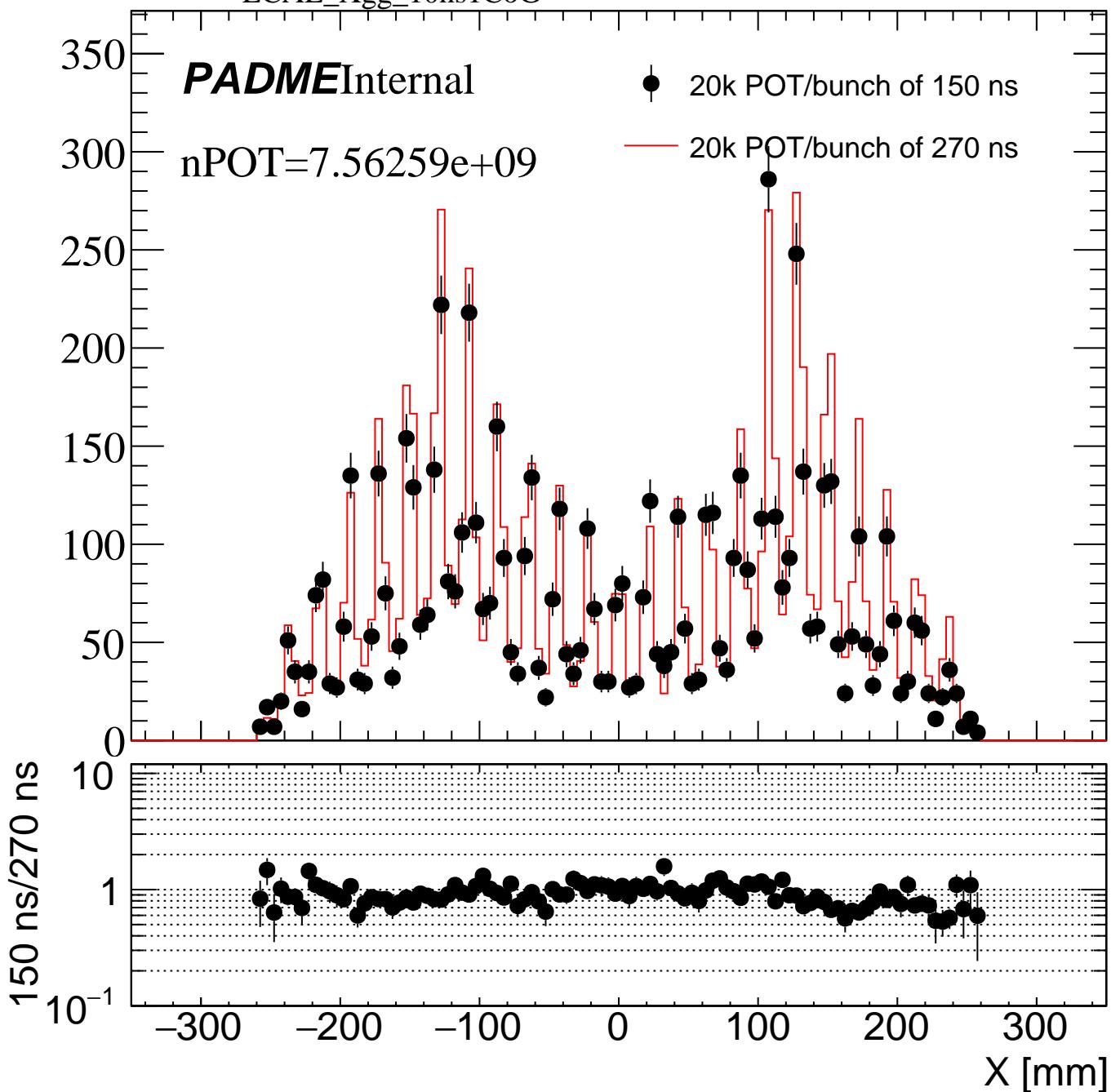
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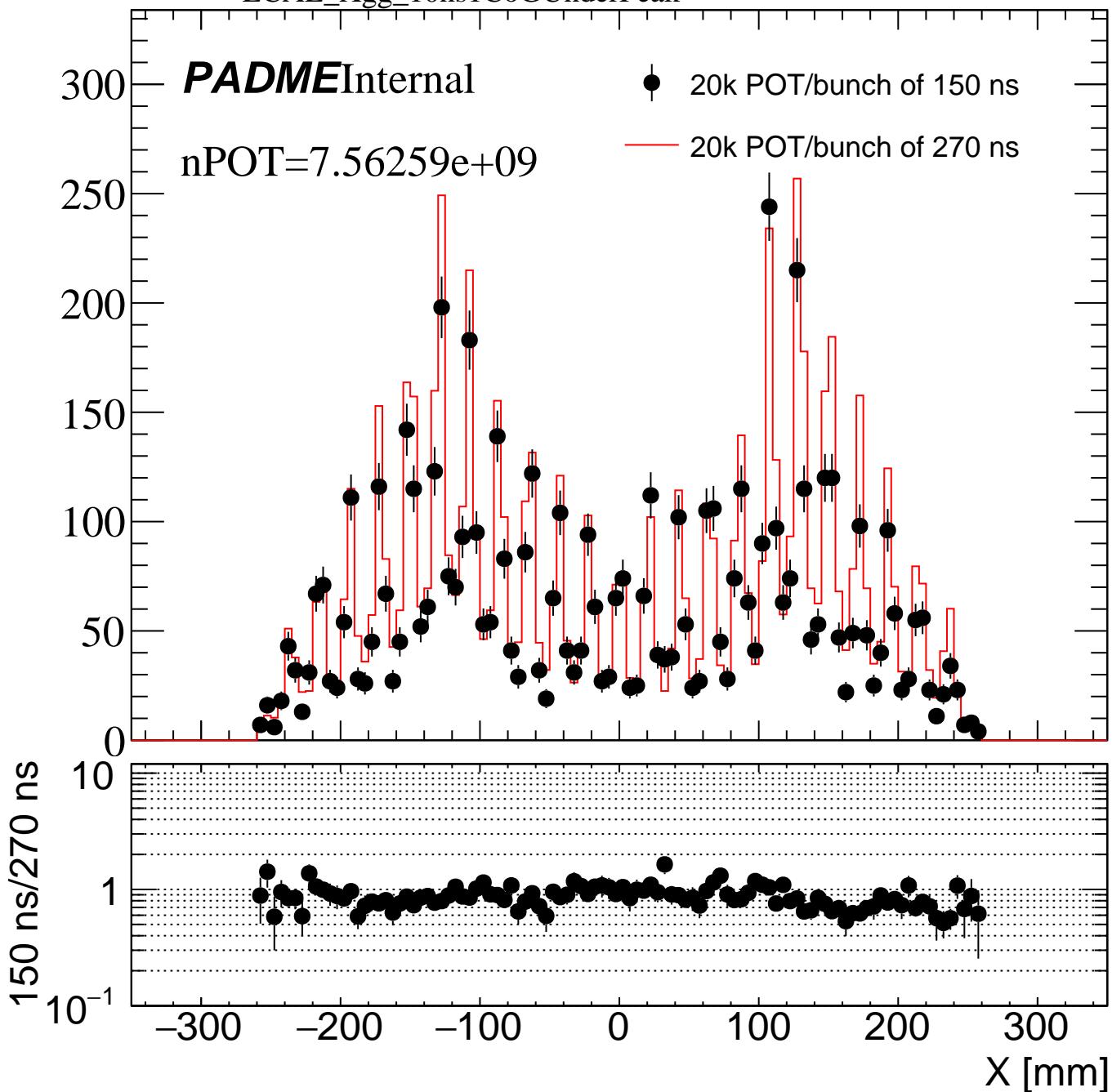
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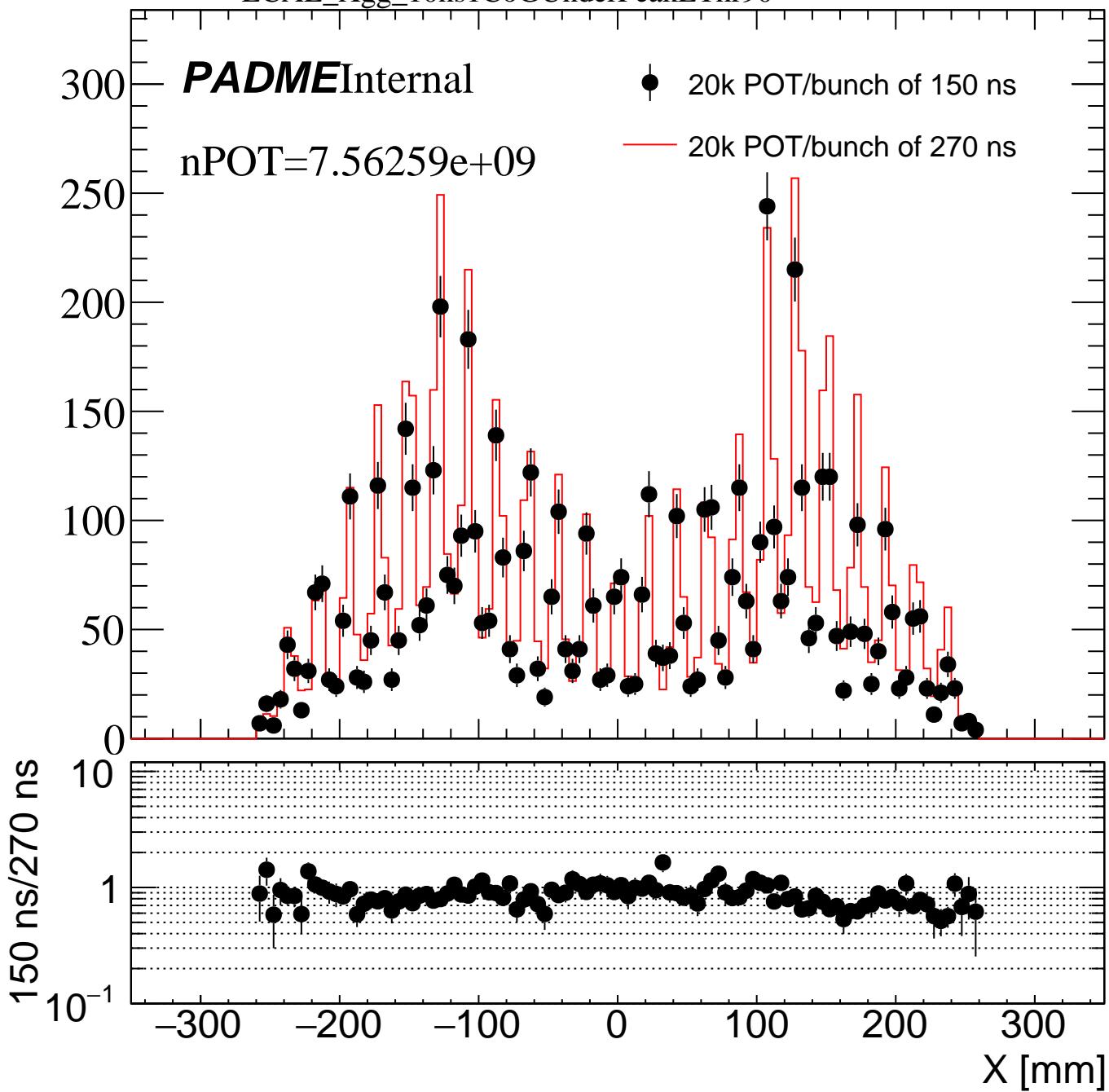
ECAL\_Xgg\_10ns1CoG



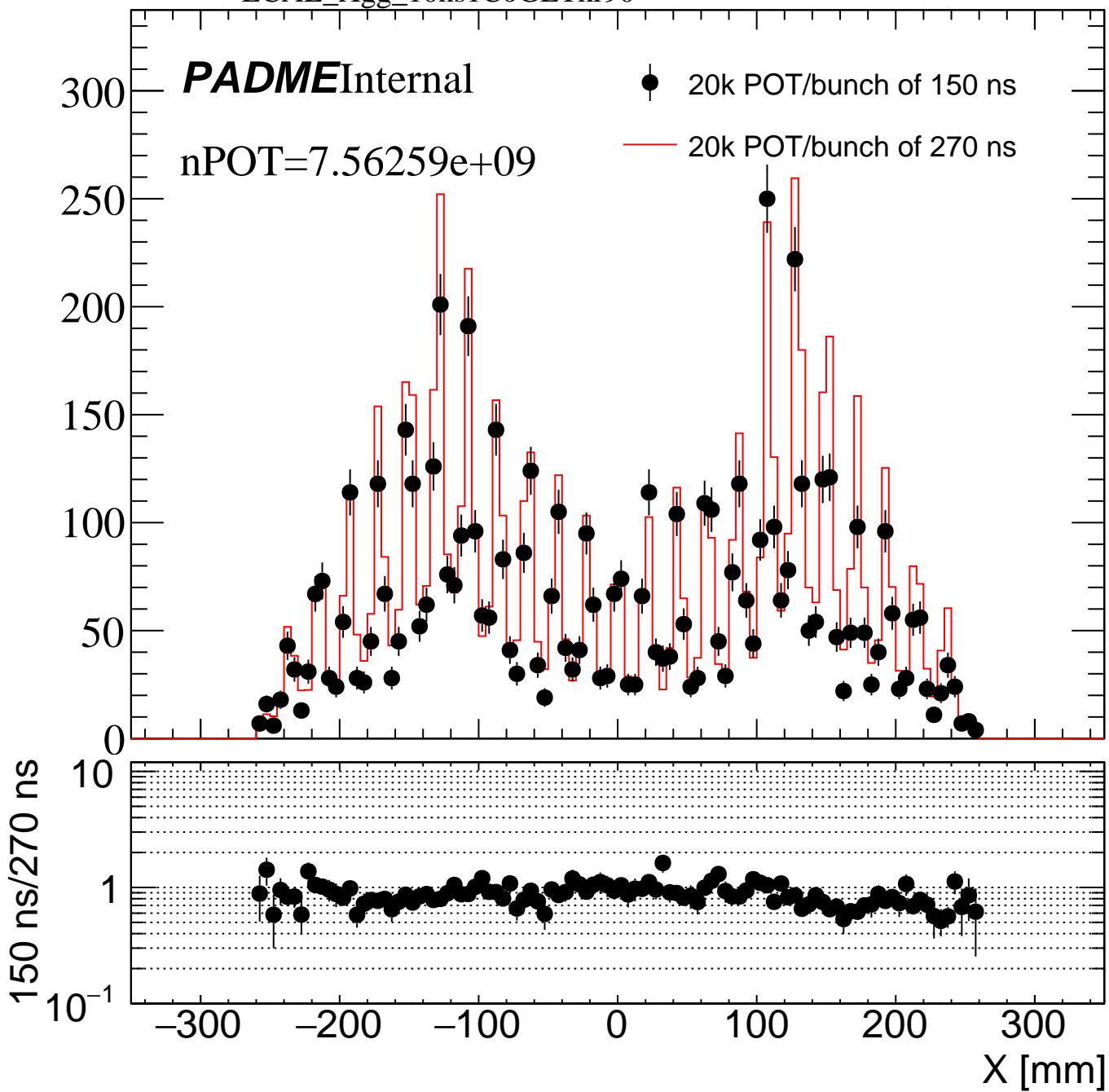
ECAL\_Xgg\_10ns1CoGUnderPeak



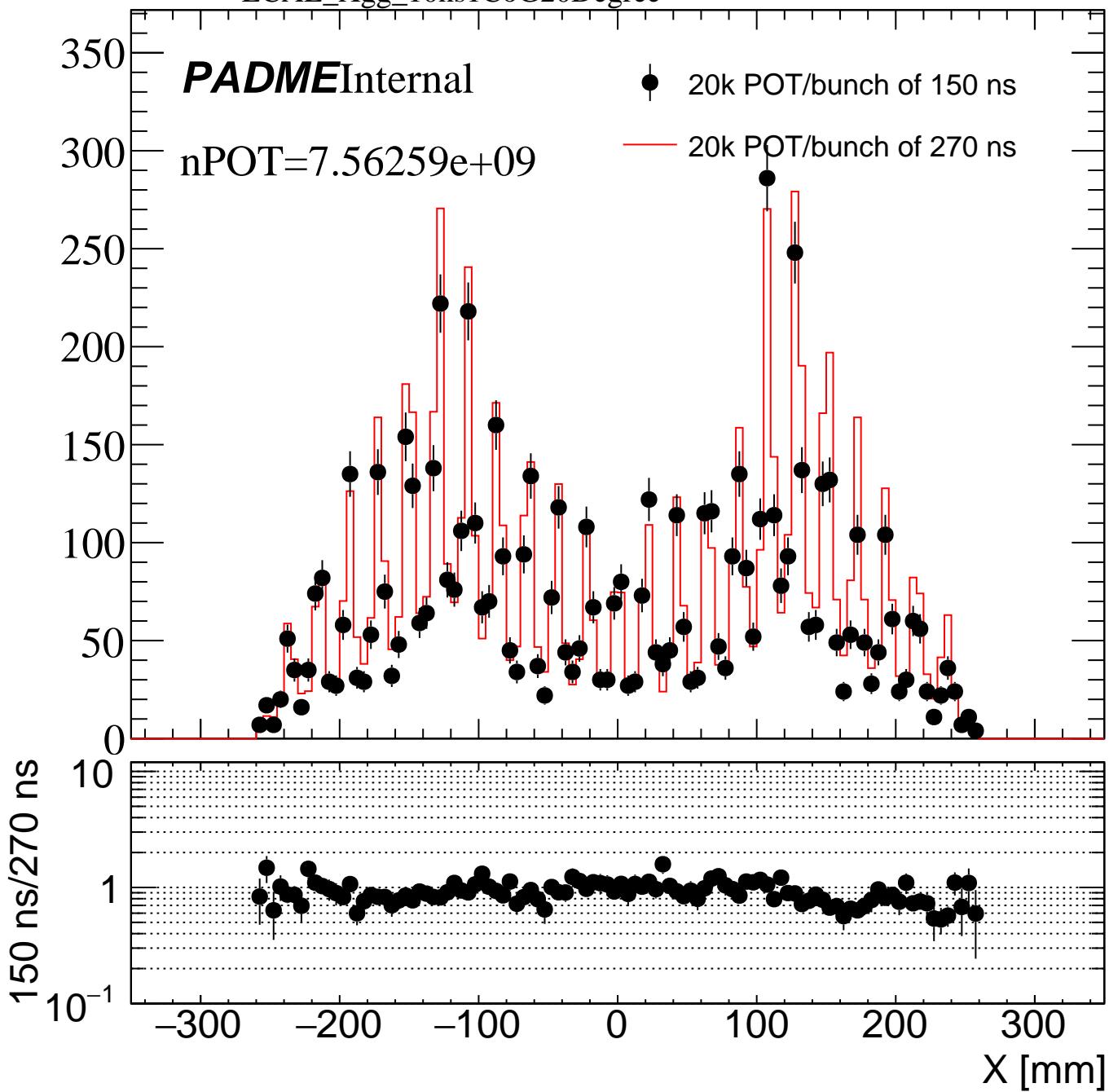
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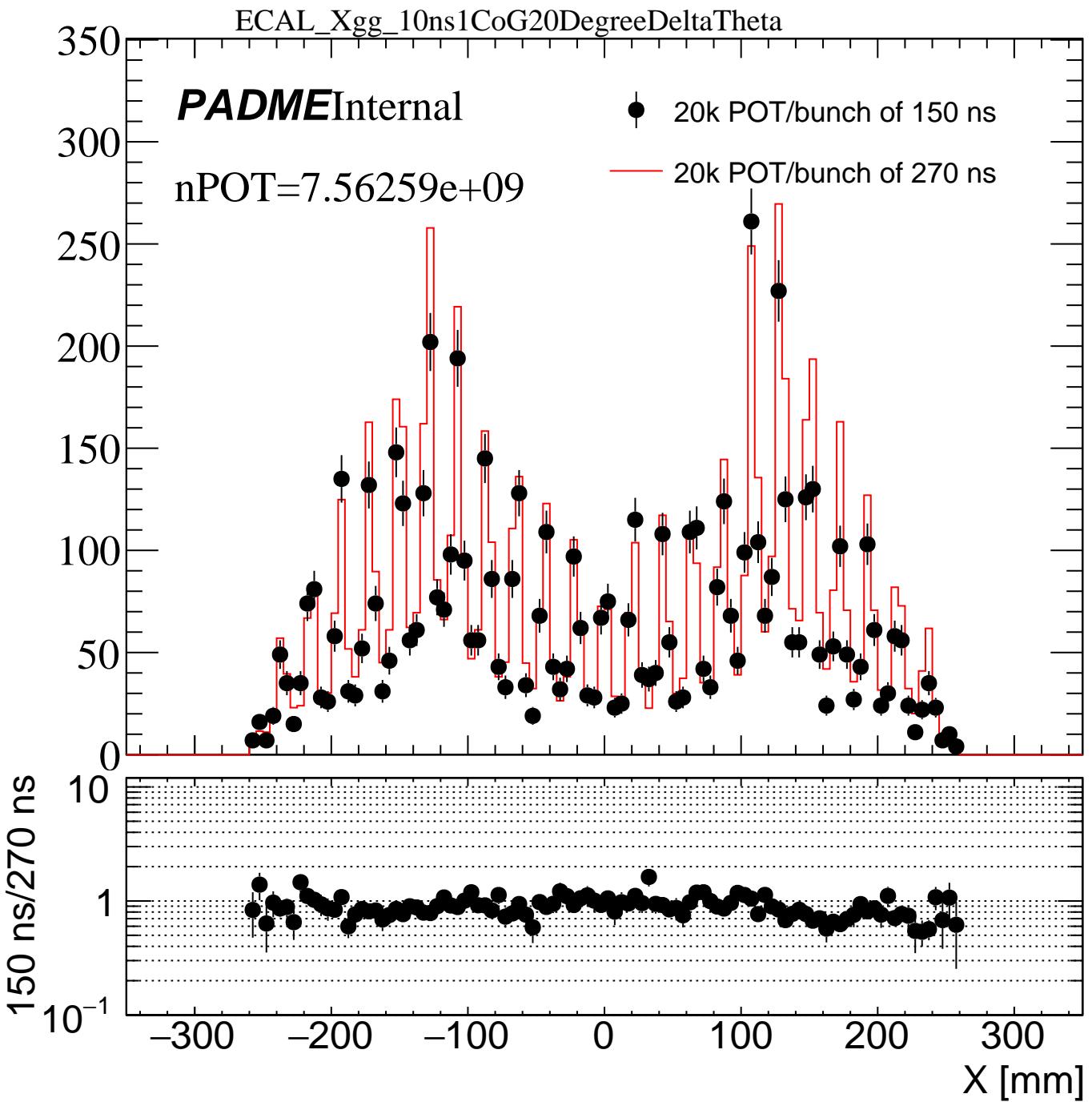


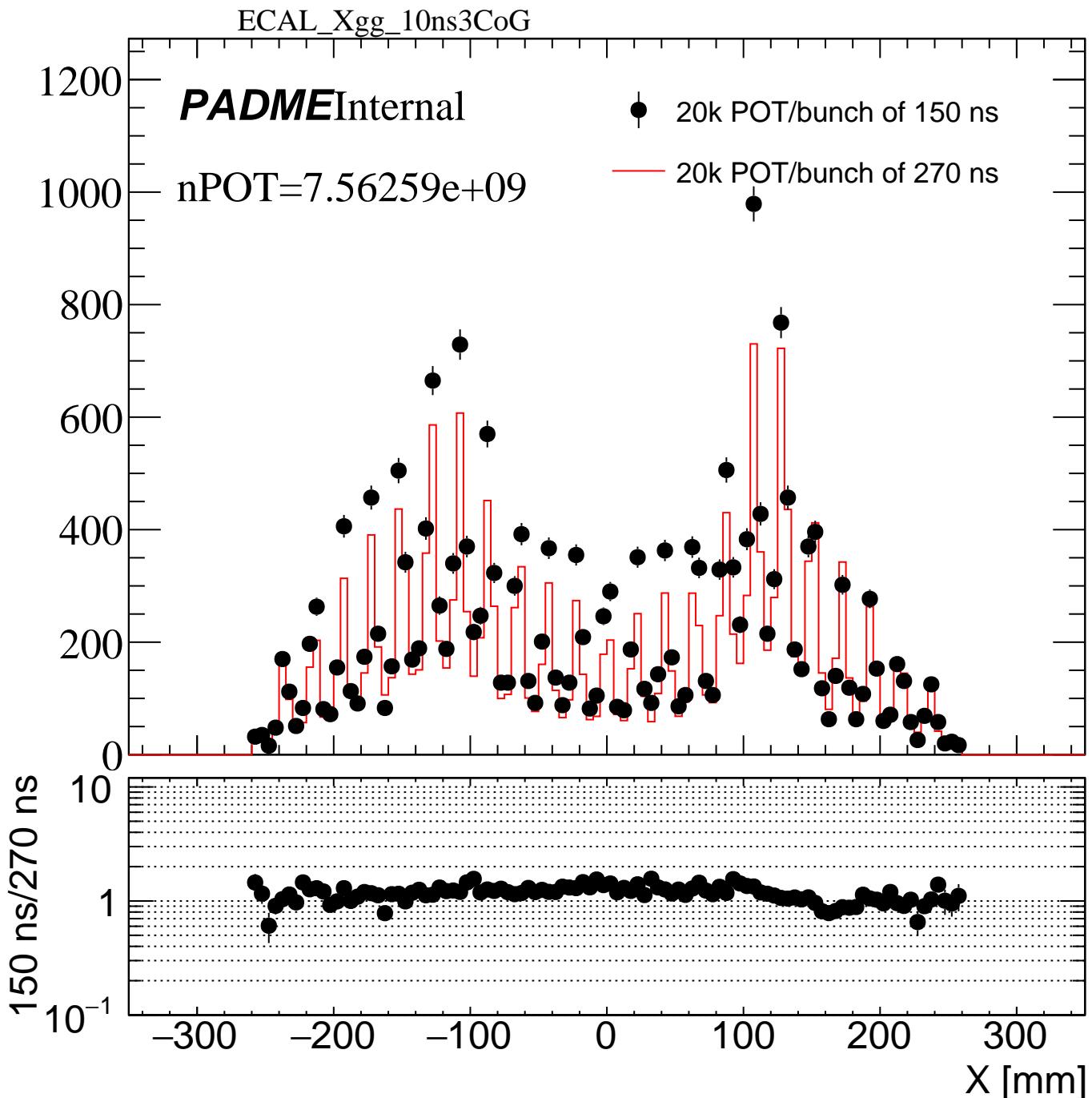
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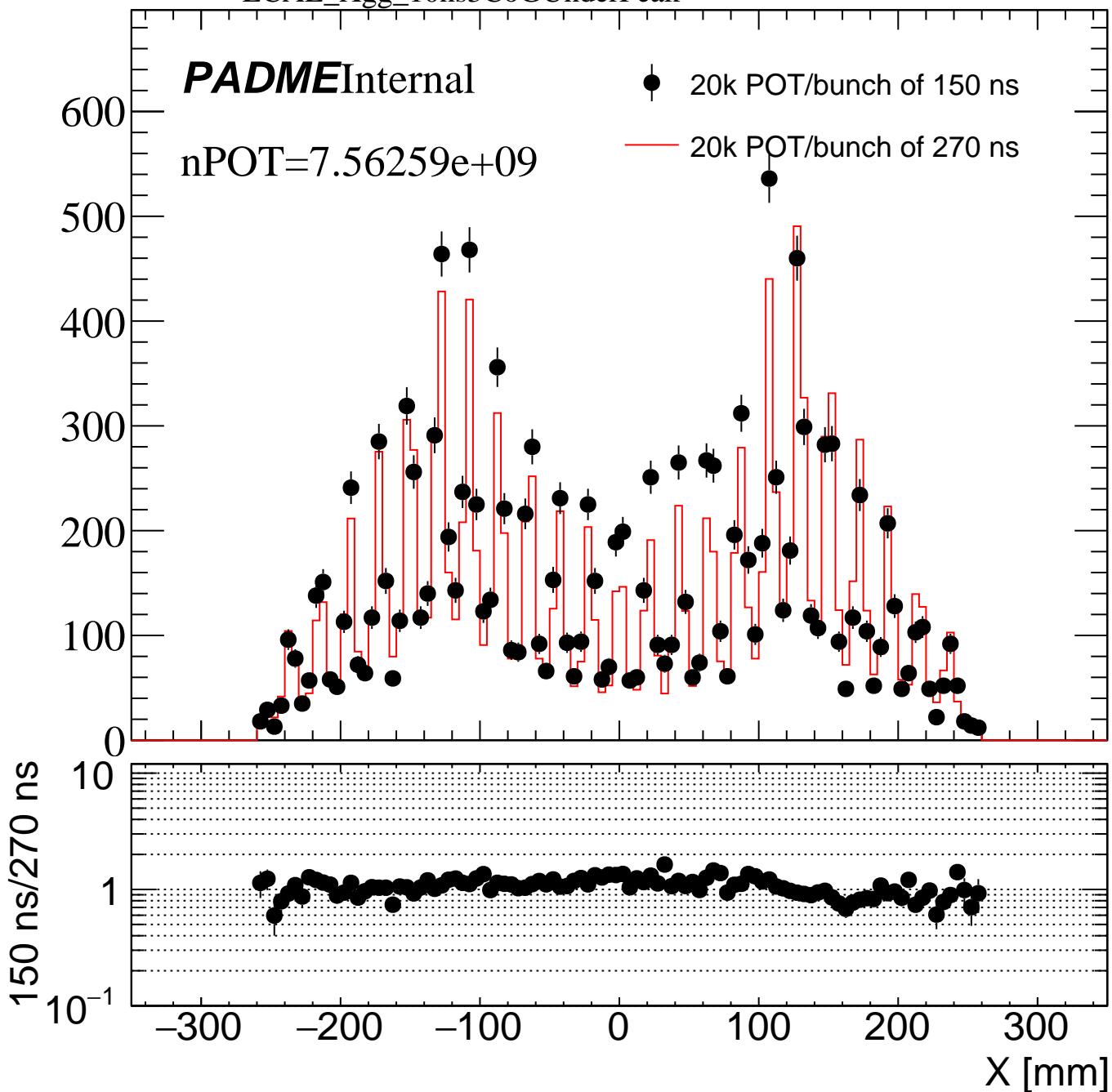
ECAL\_Xgg\_10ns1CoG20Degree



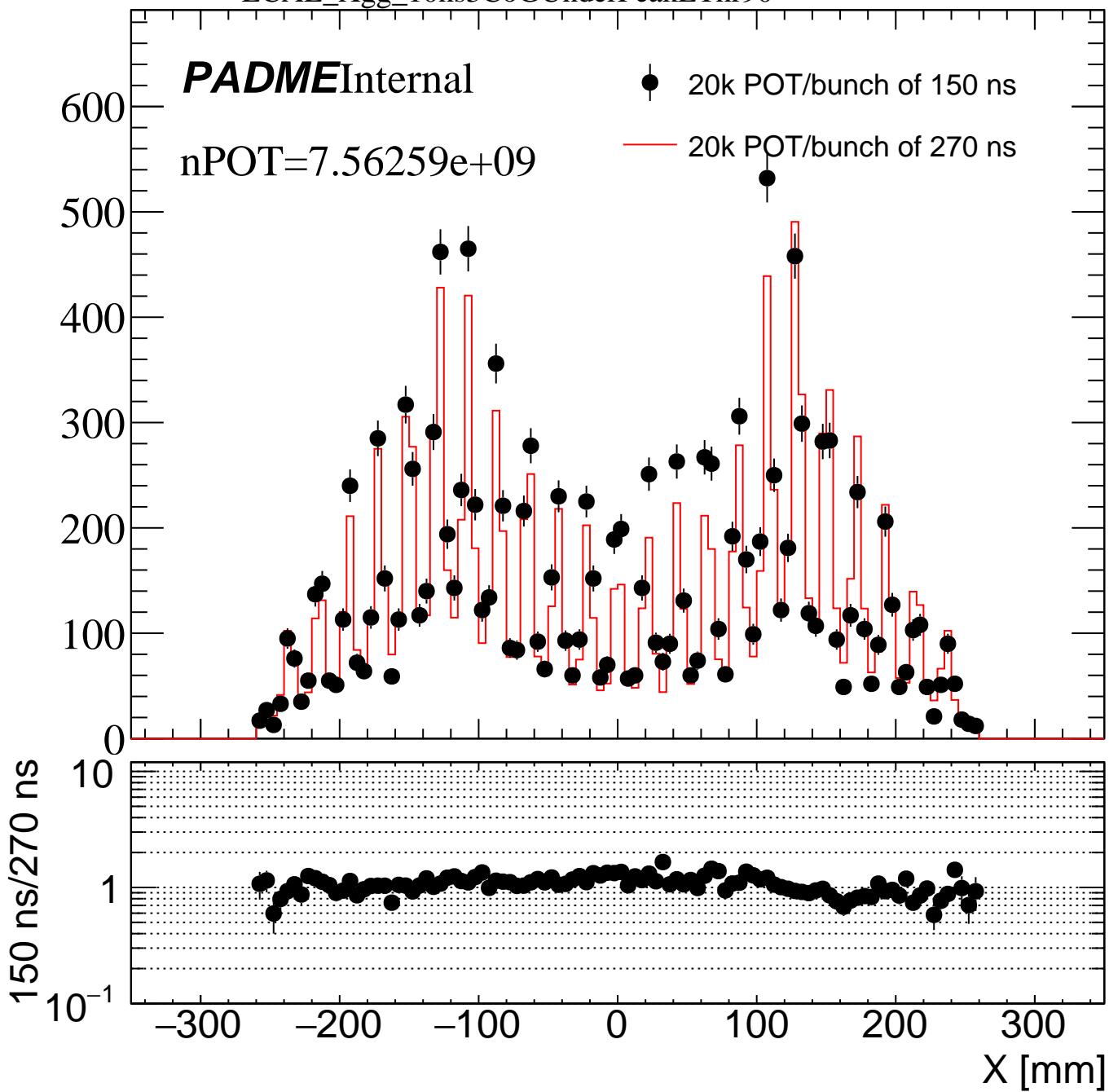




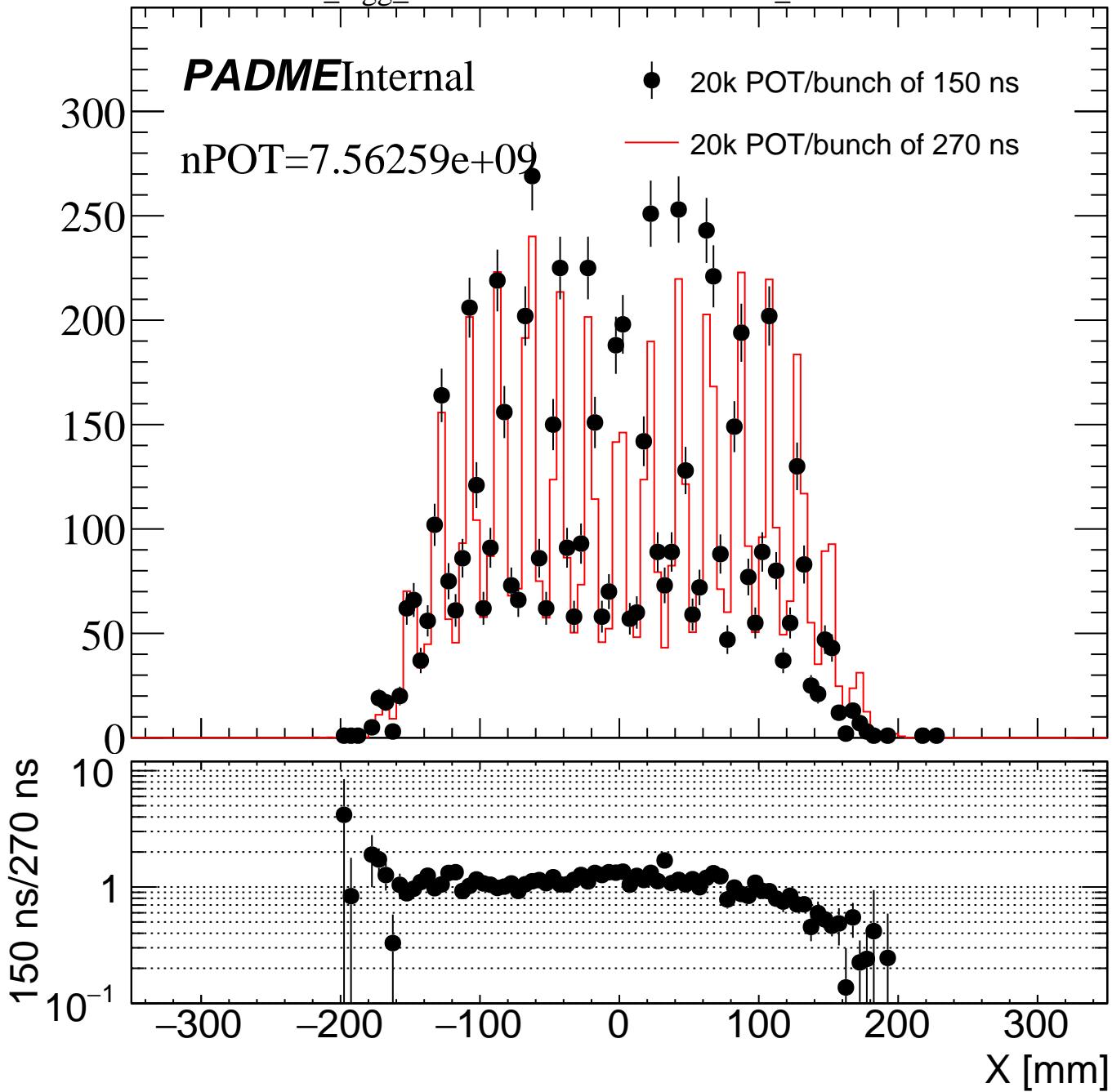
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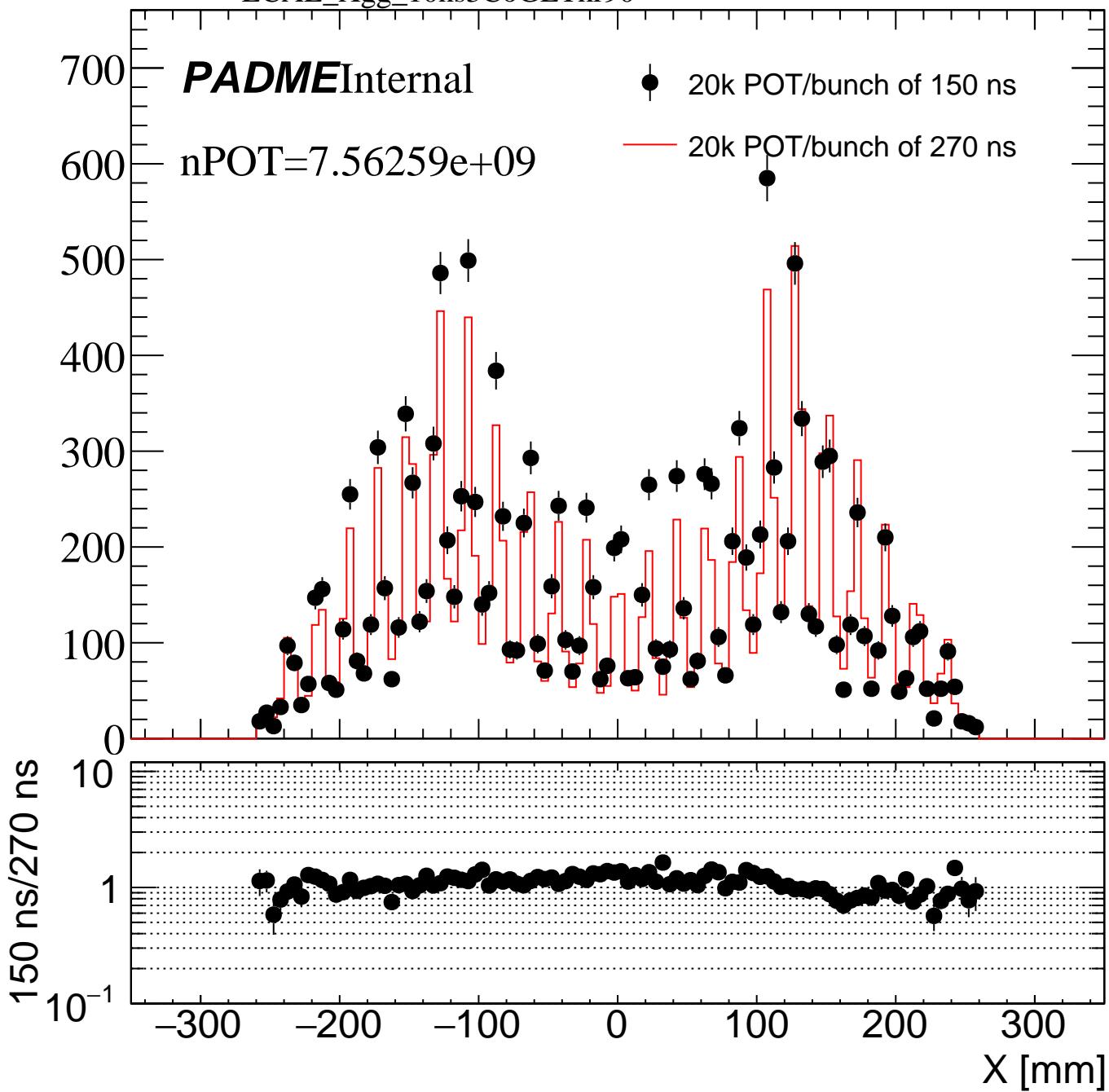
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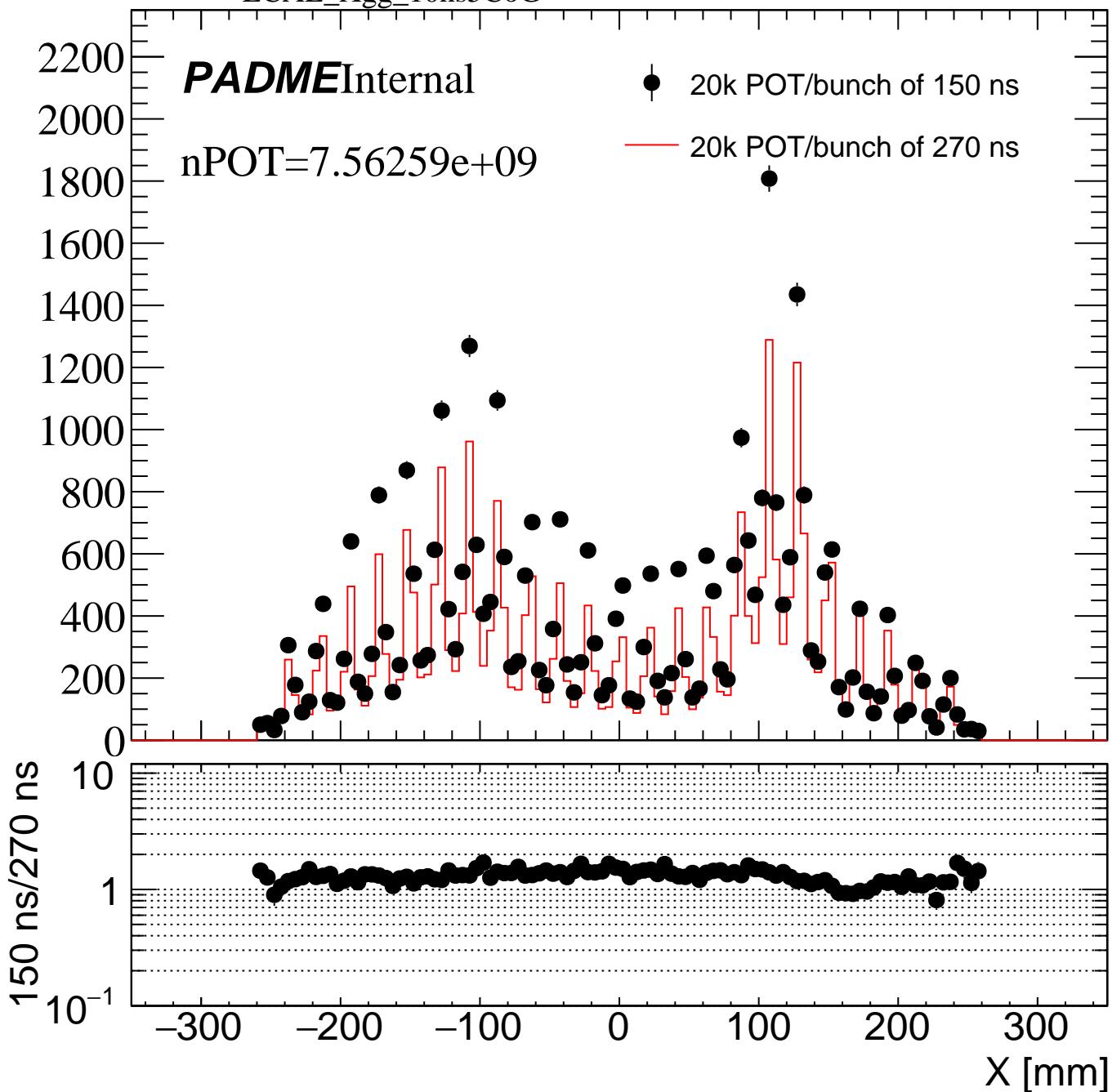
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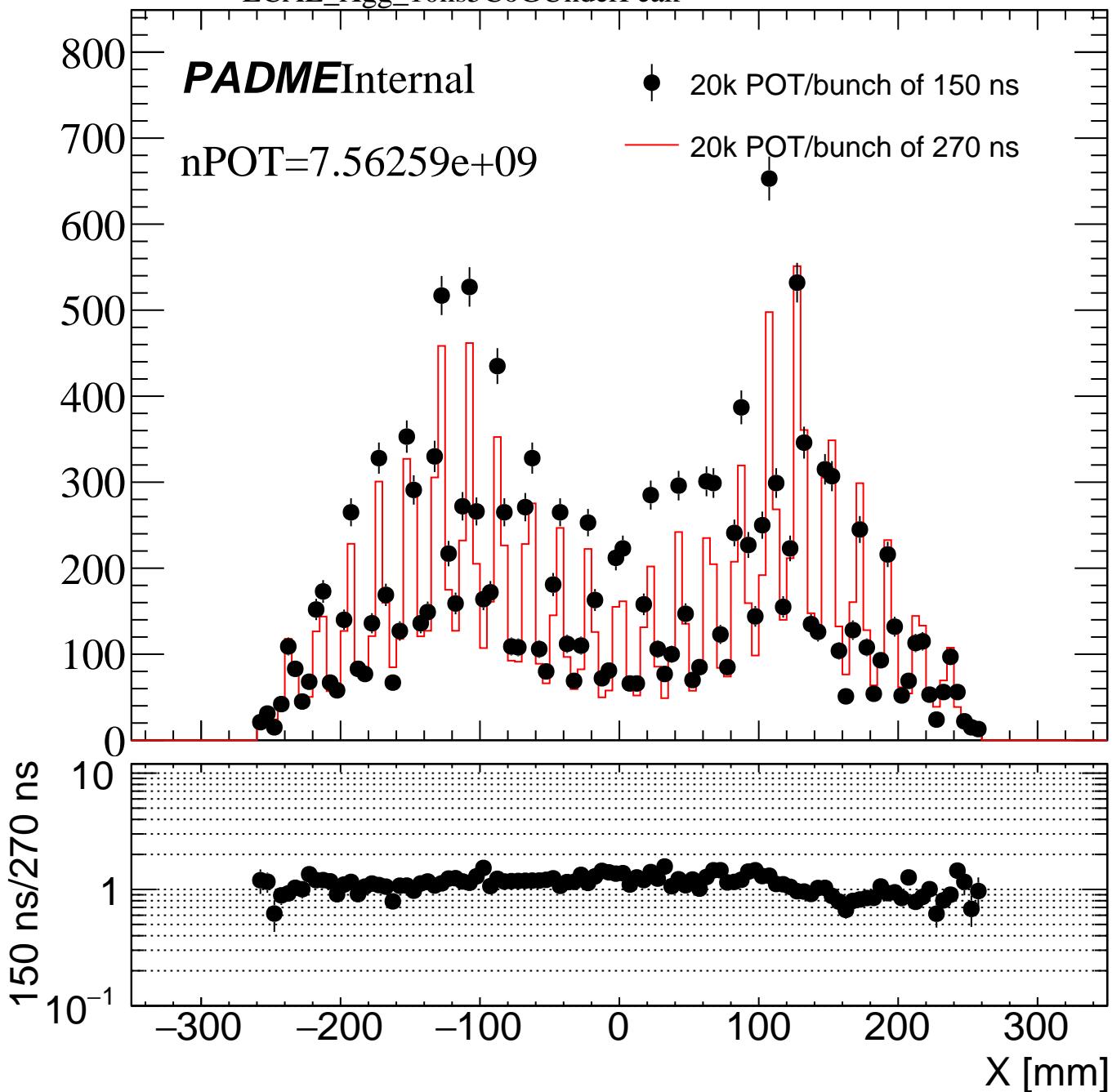
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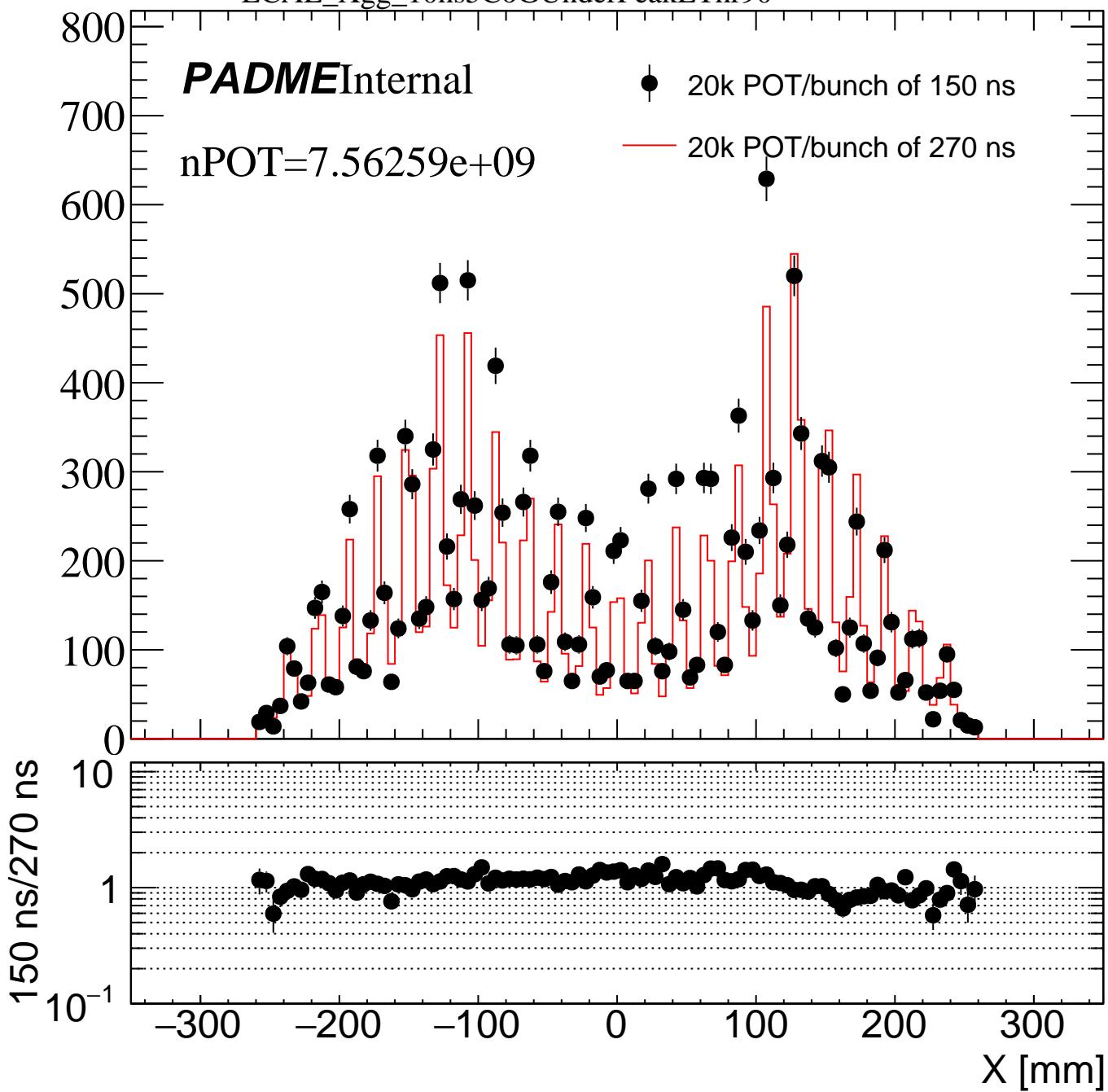
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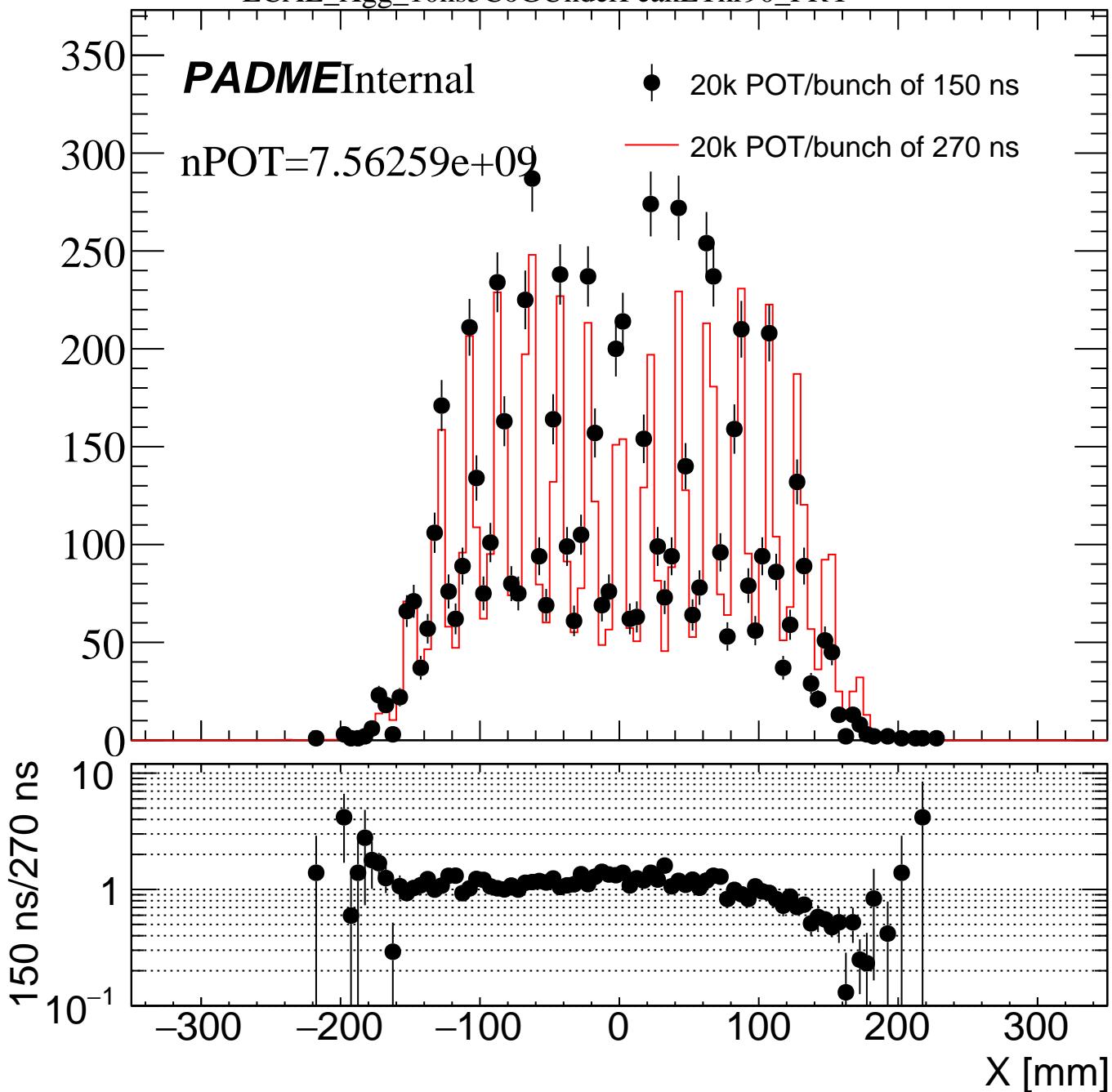
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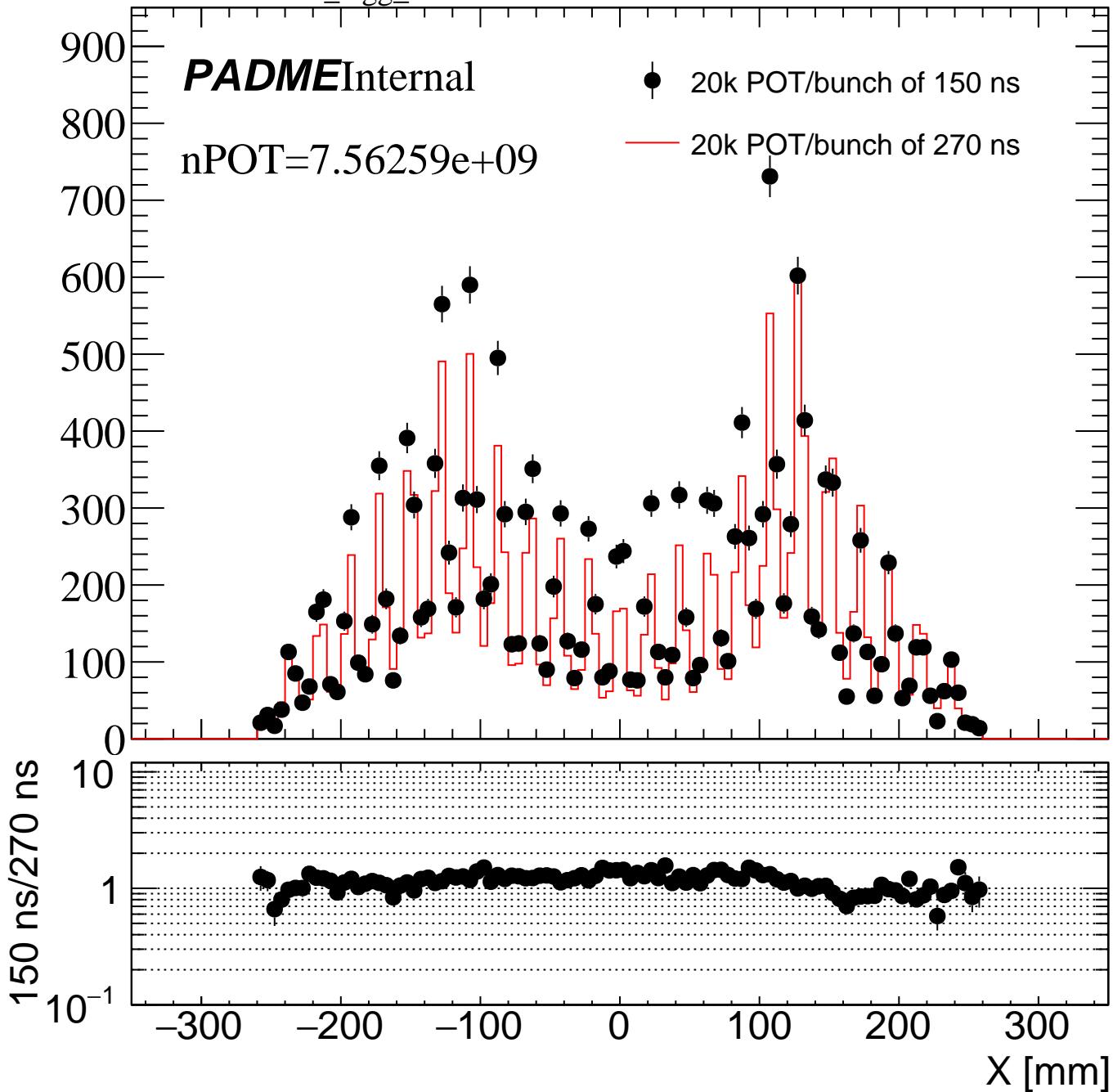
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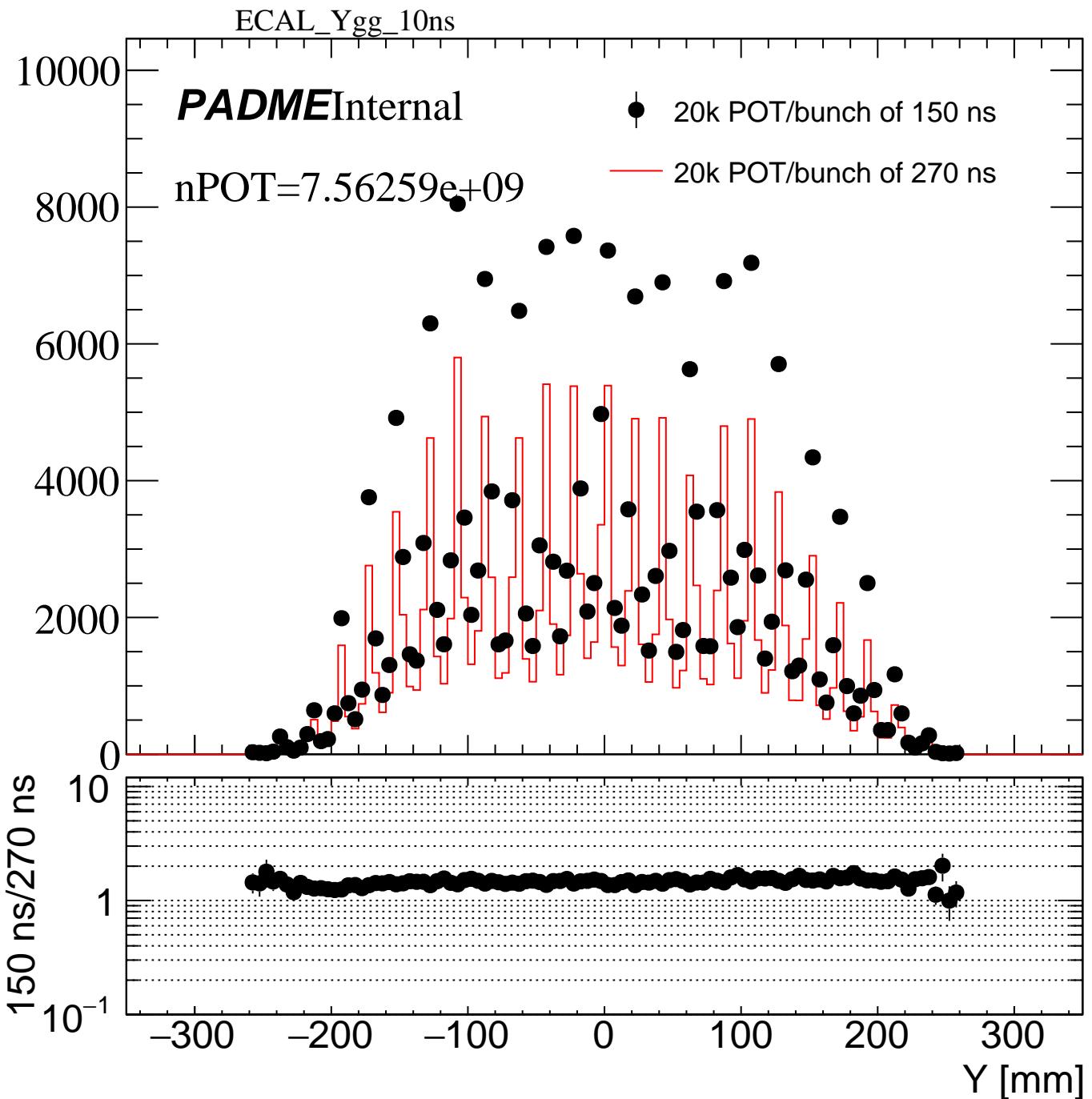


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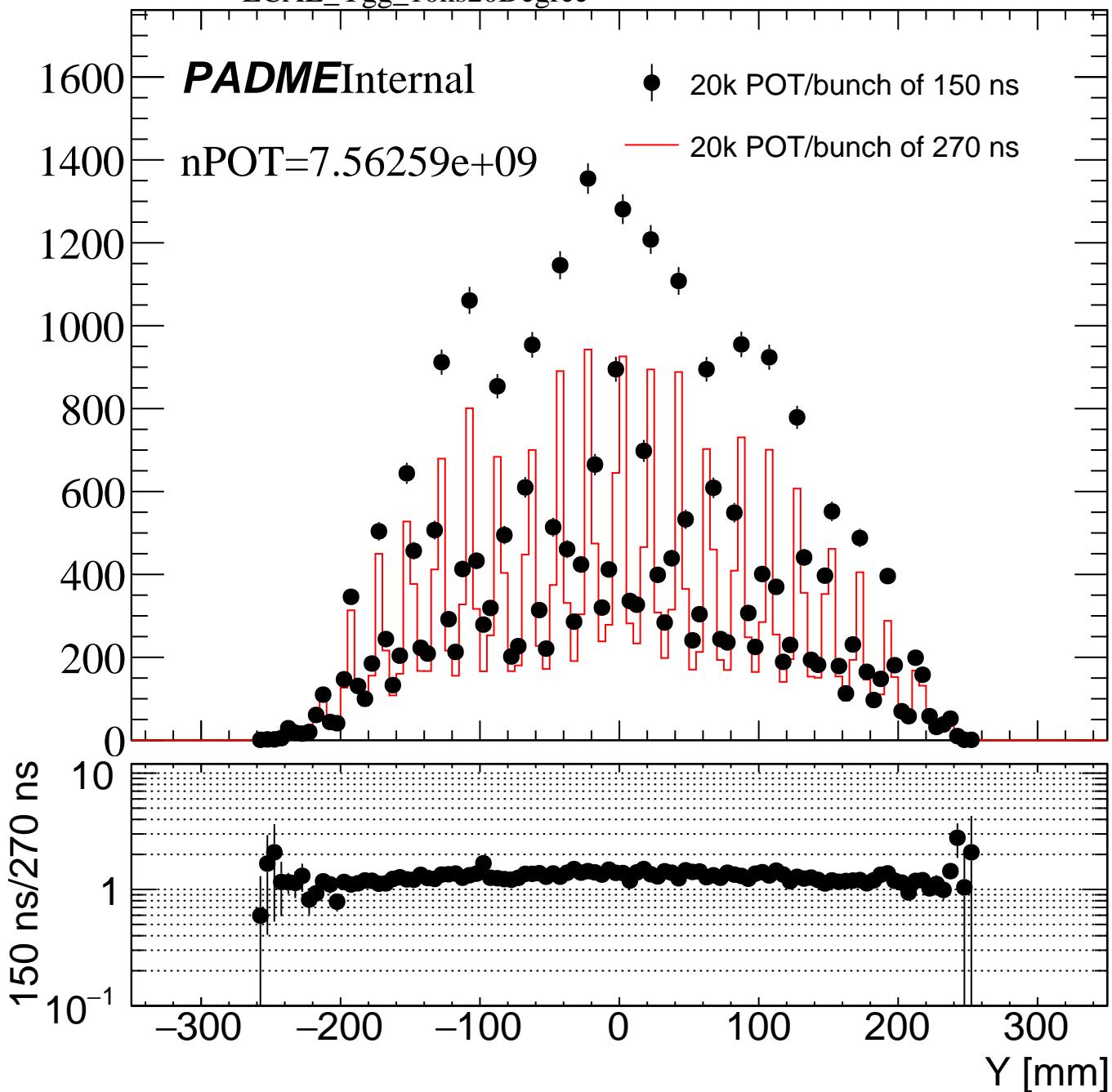


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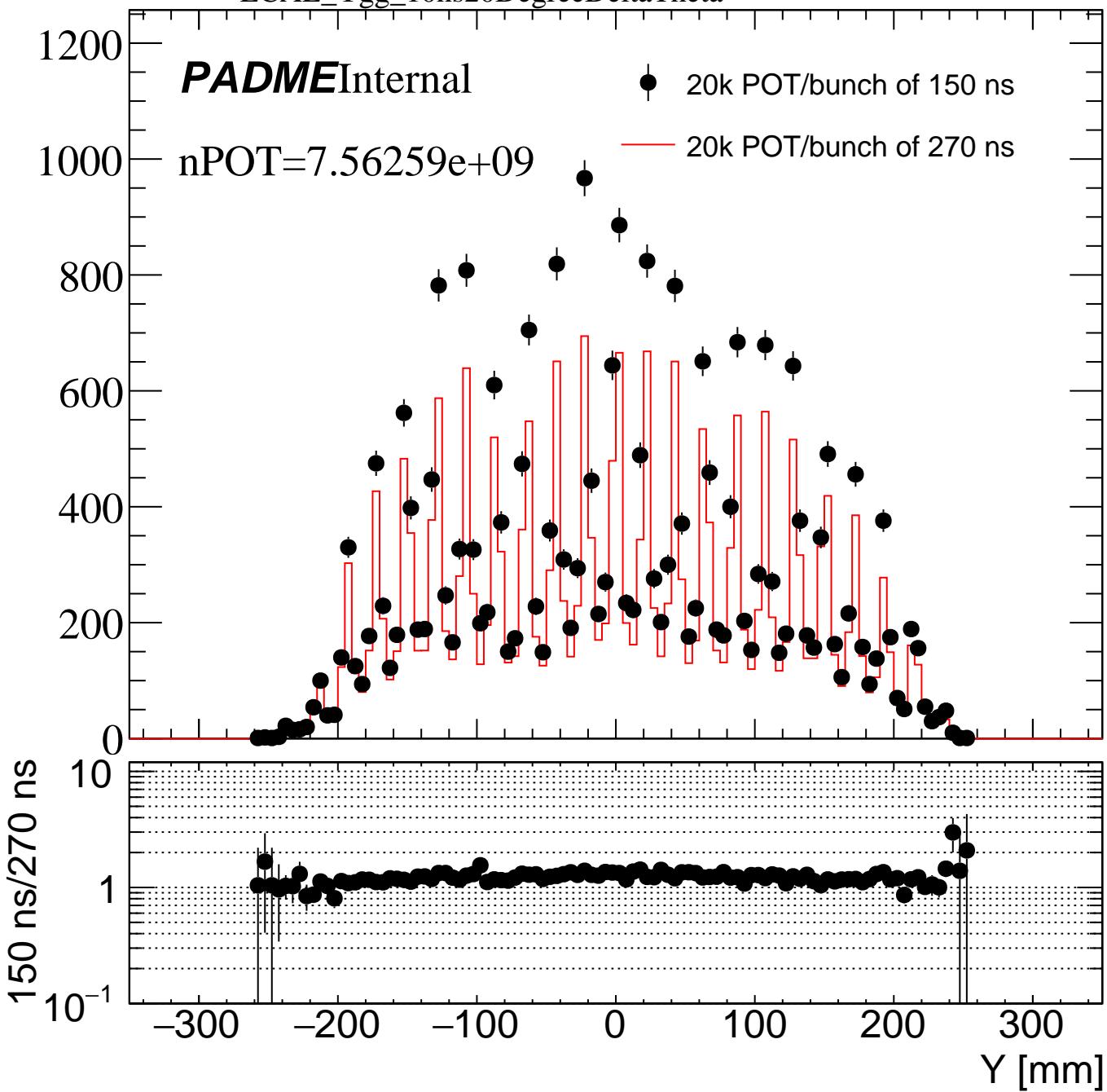




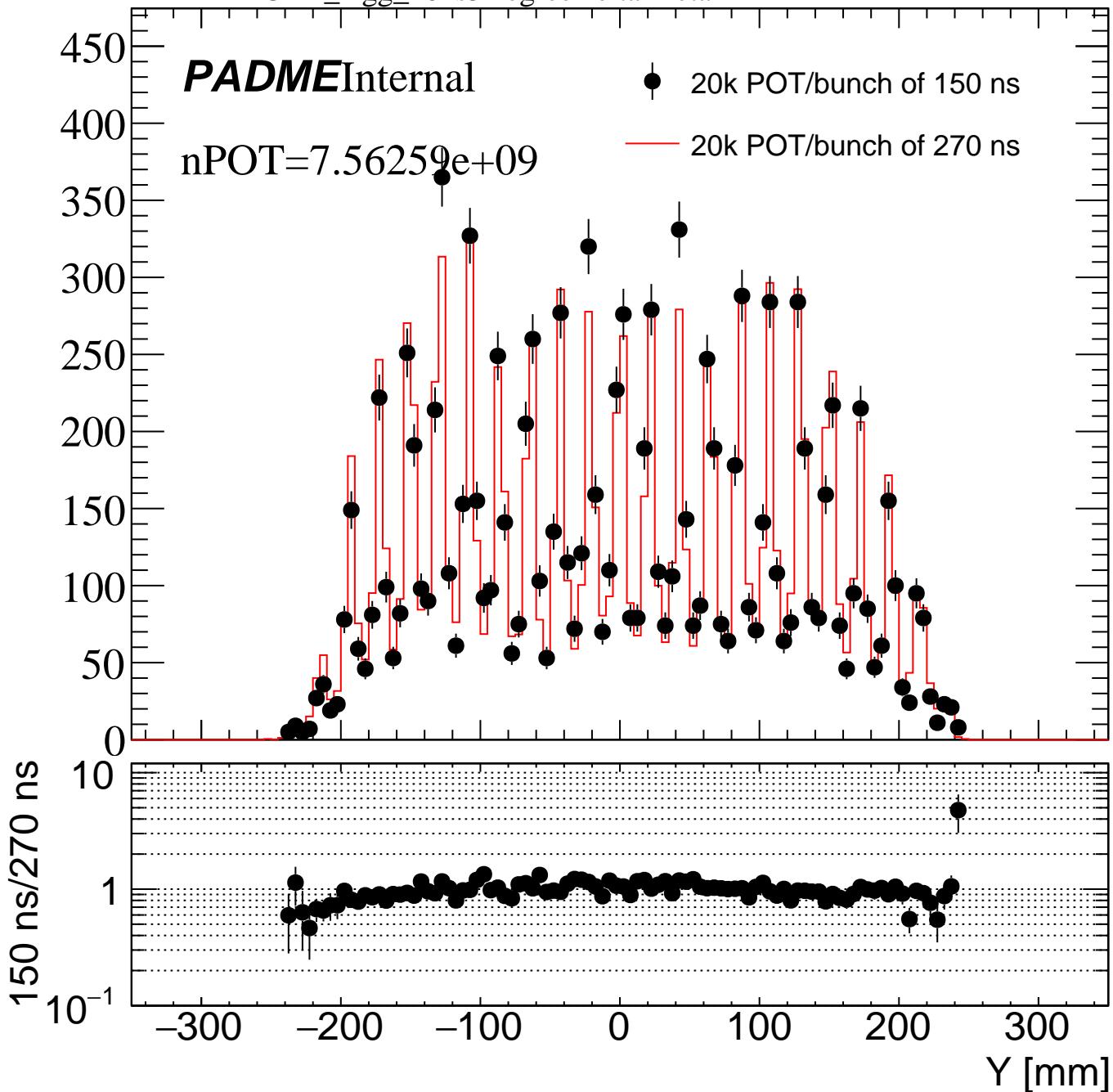
# ECAL\_Ygg\_10ns20Degree



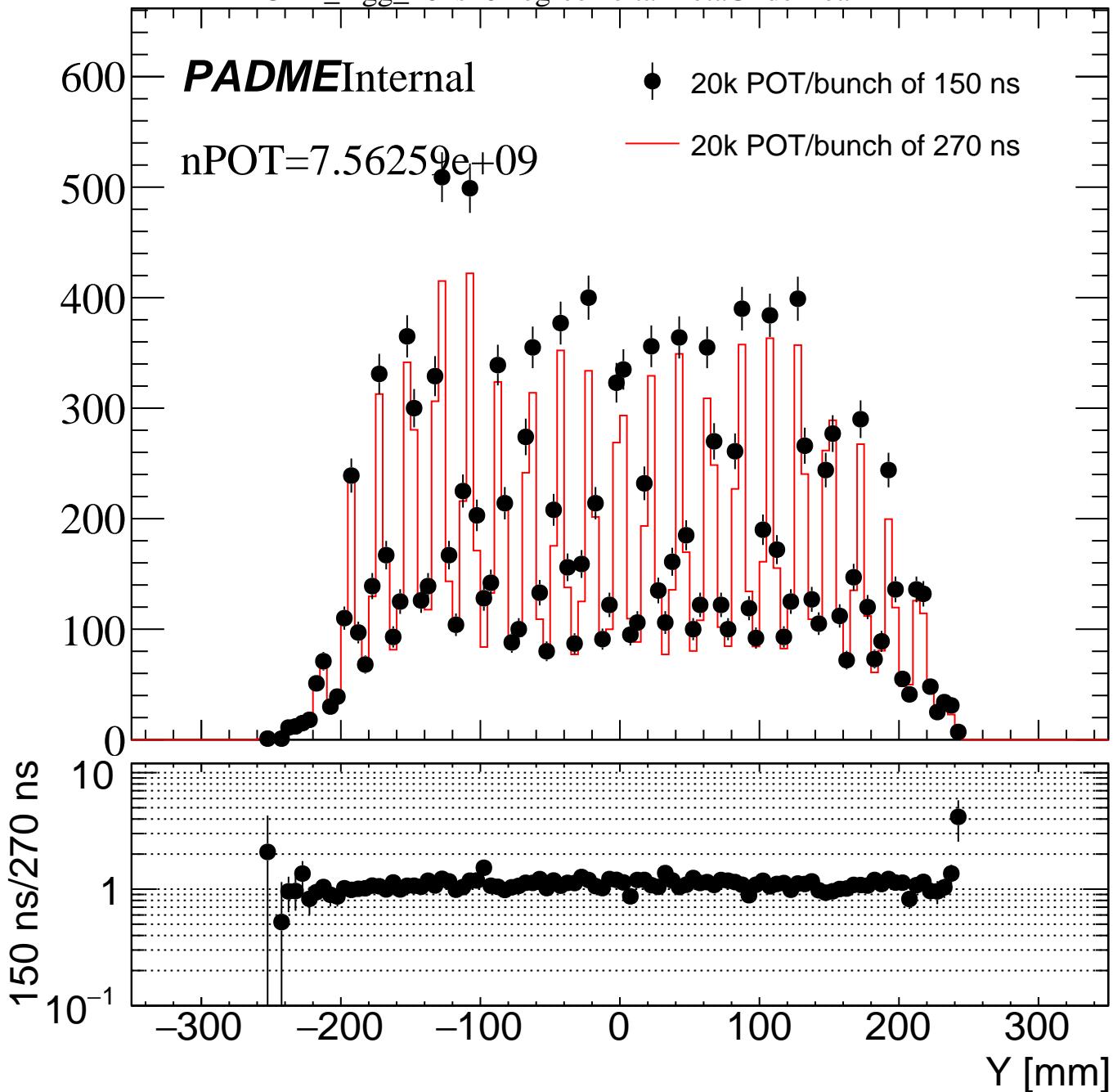
# ECAL\_Ygg\_10ns20DegreeDeltaTheta



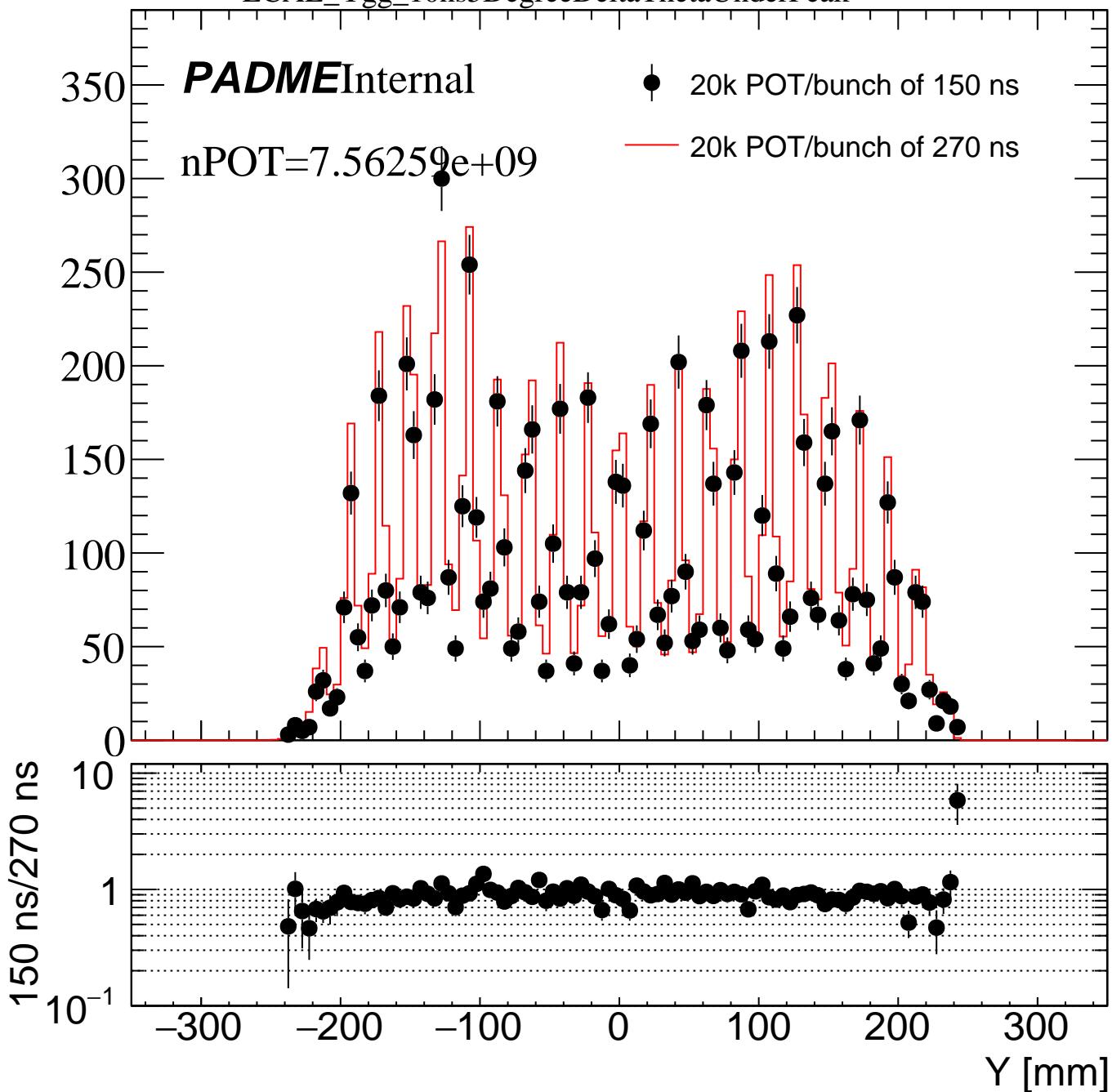
# ECAL\_Ygg\_10ns5DegreeDeltaTheta



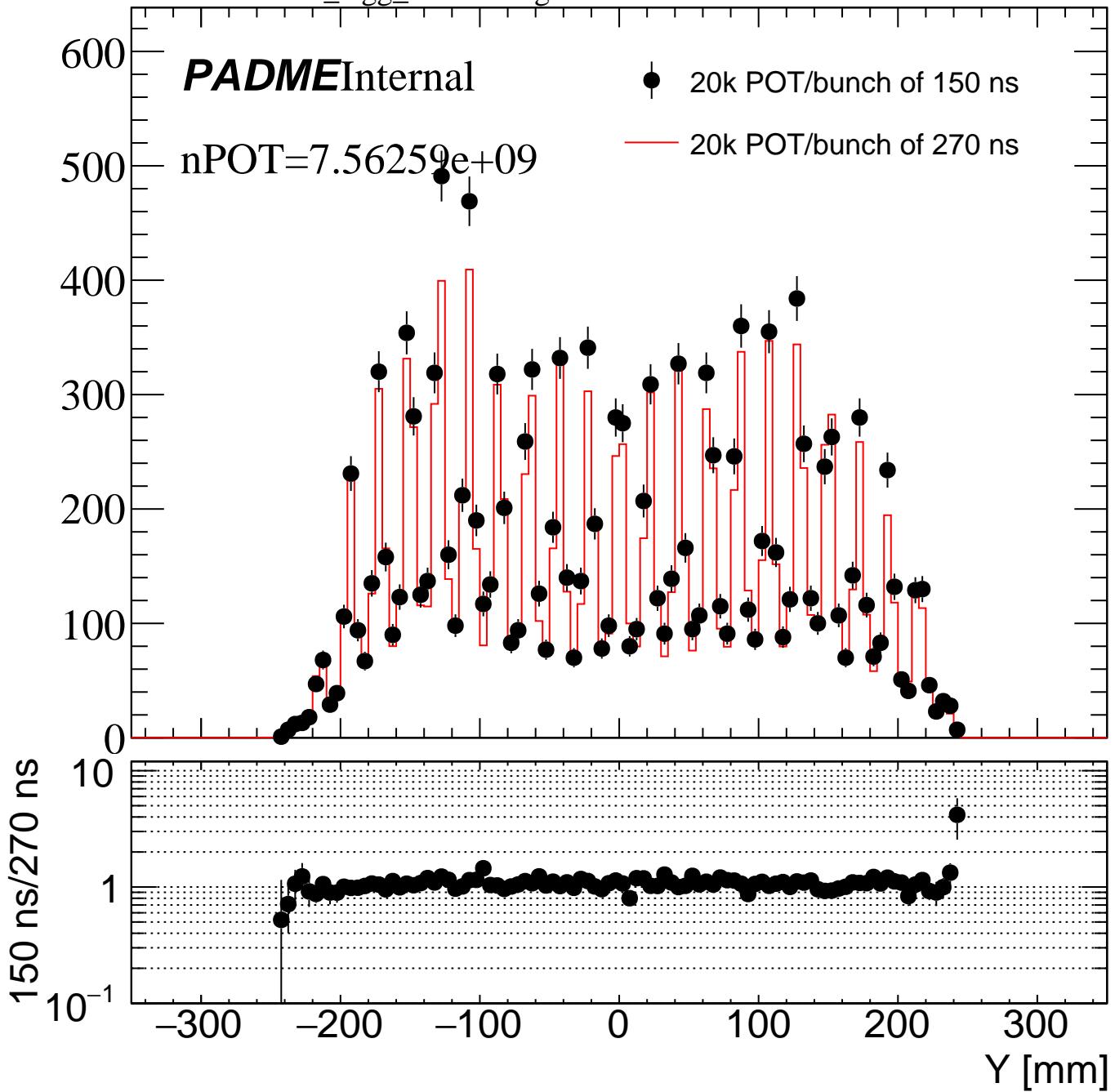
# ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeak

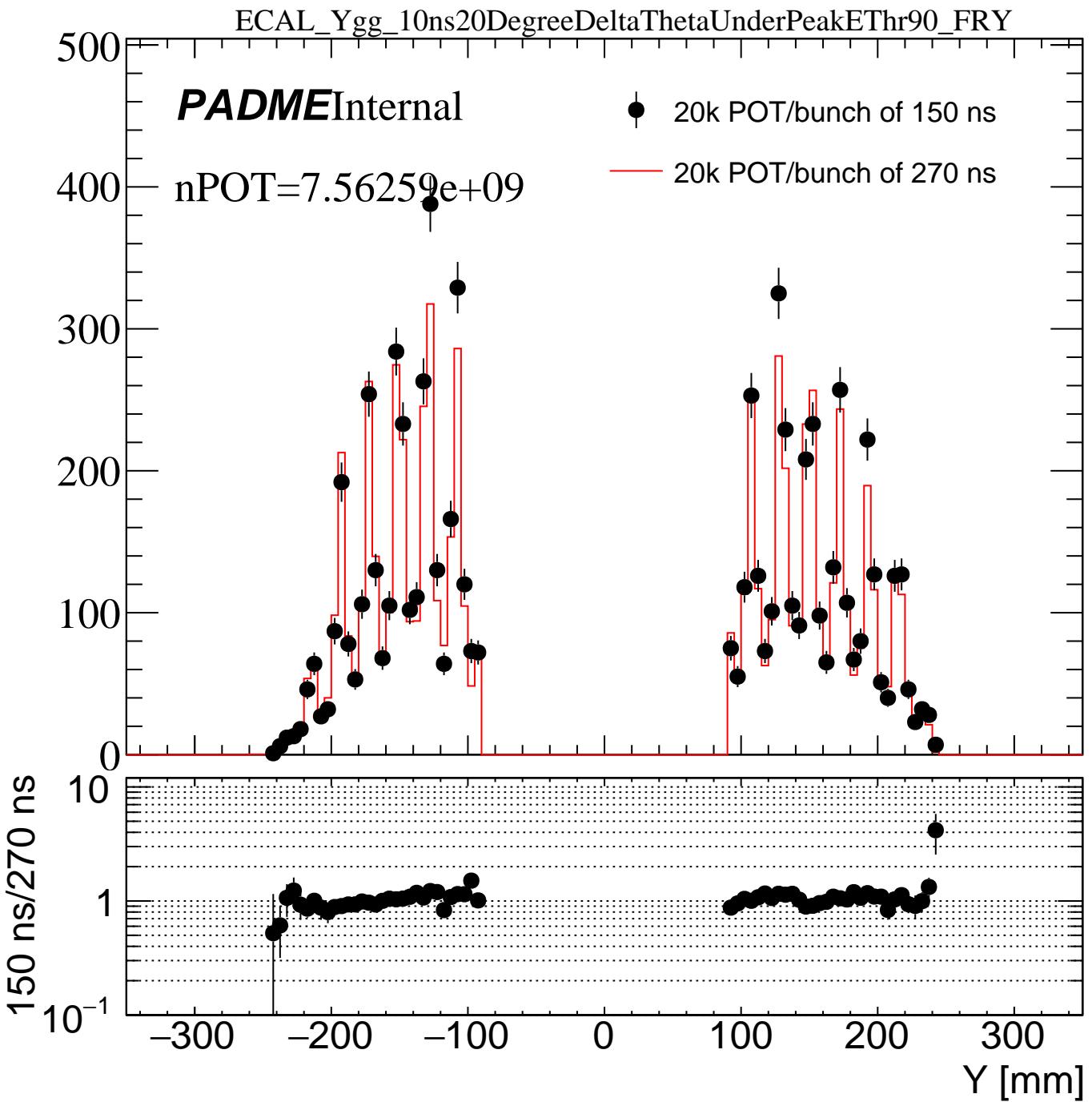


# ECAL\_Ygg\_10ns5DegreeDeltaThetaUnderPeak

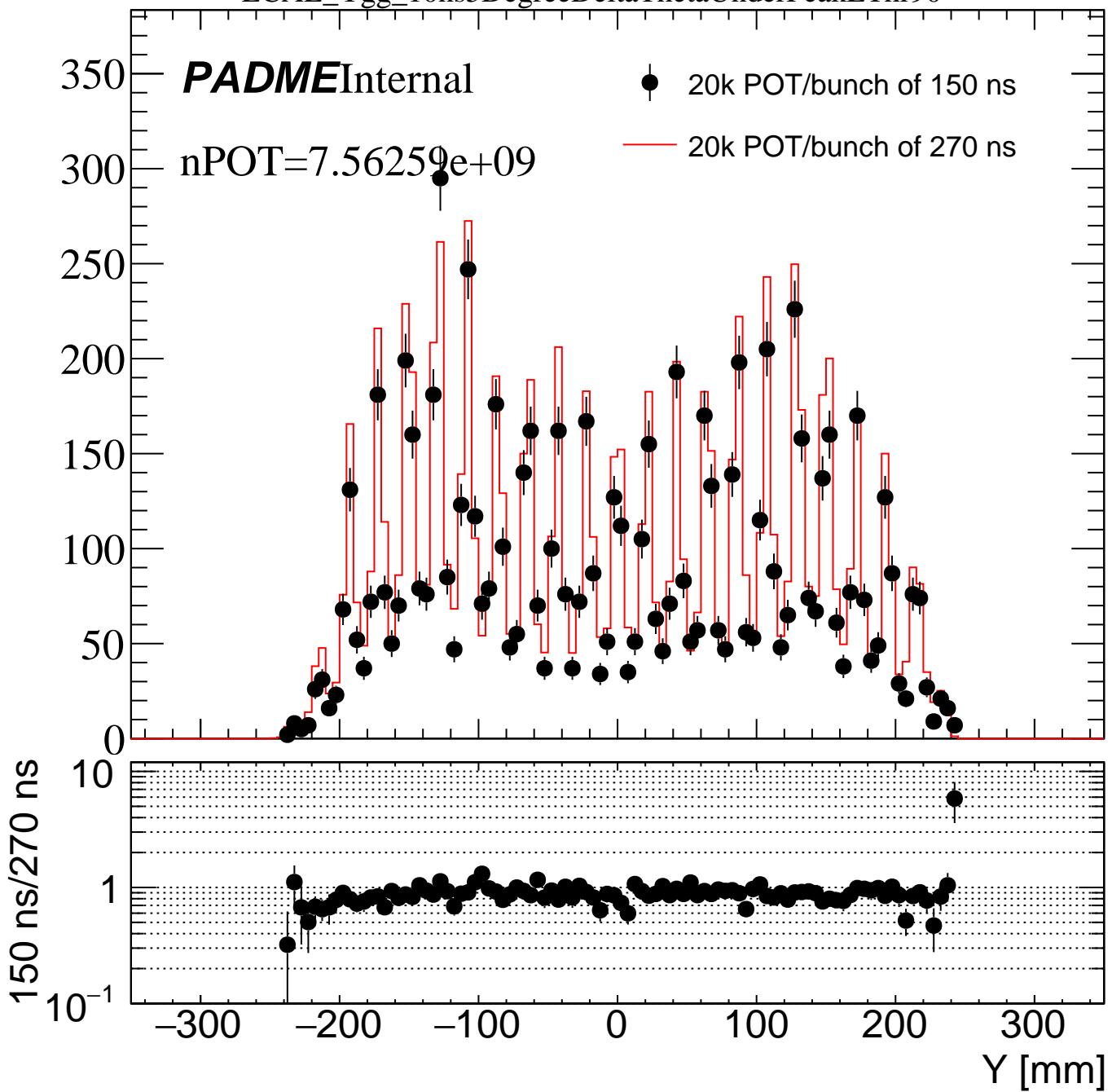


ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeakEThr90

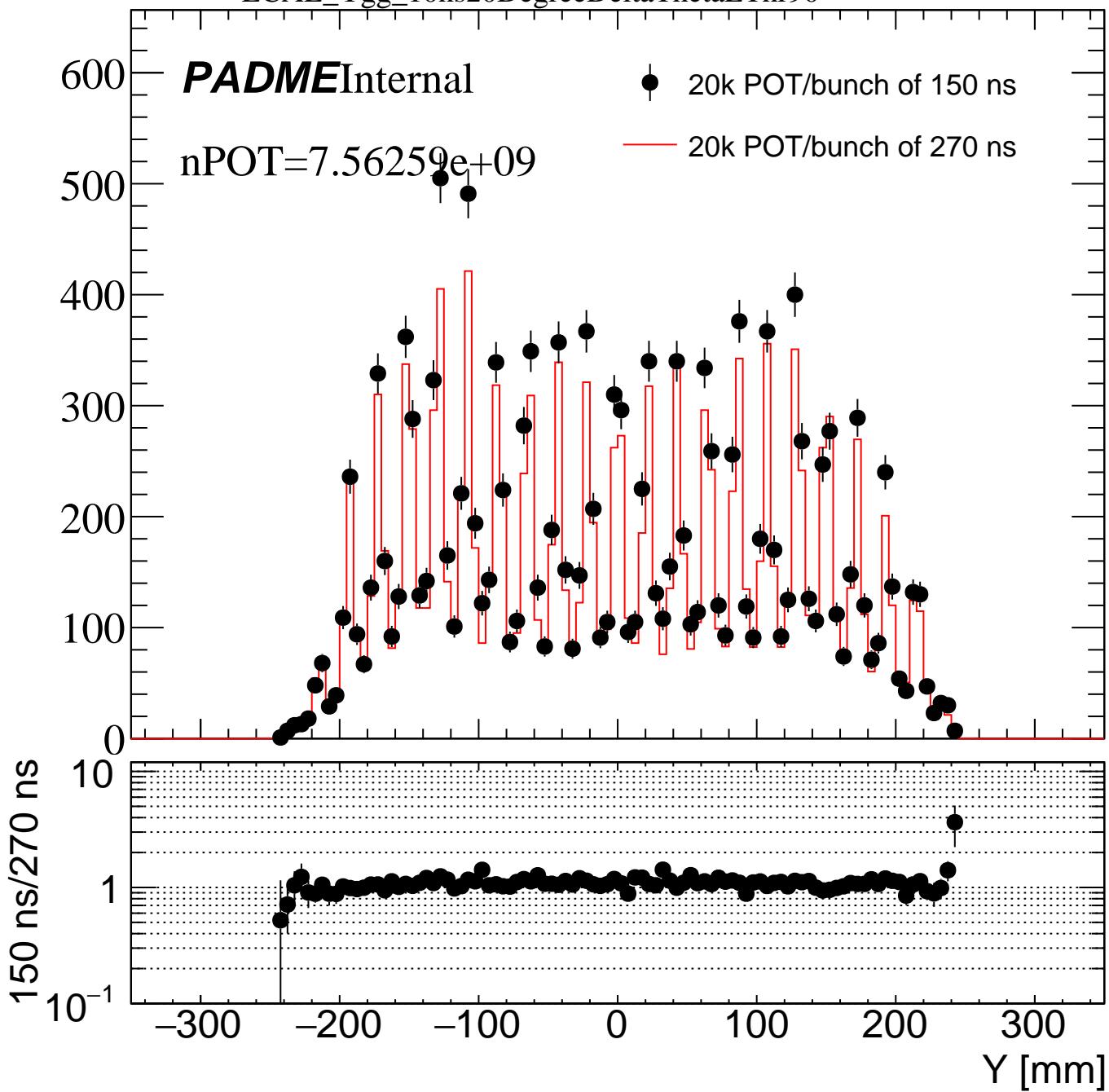




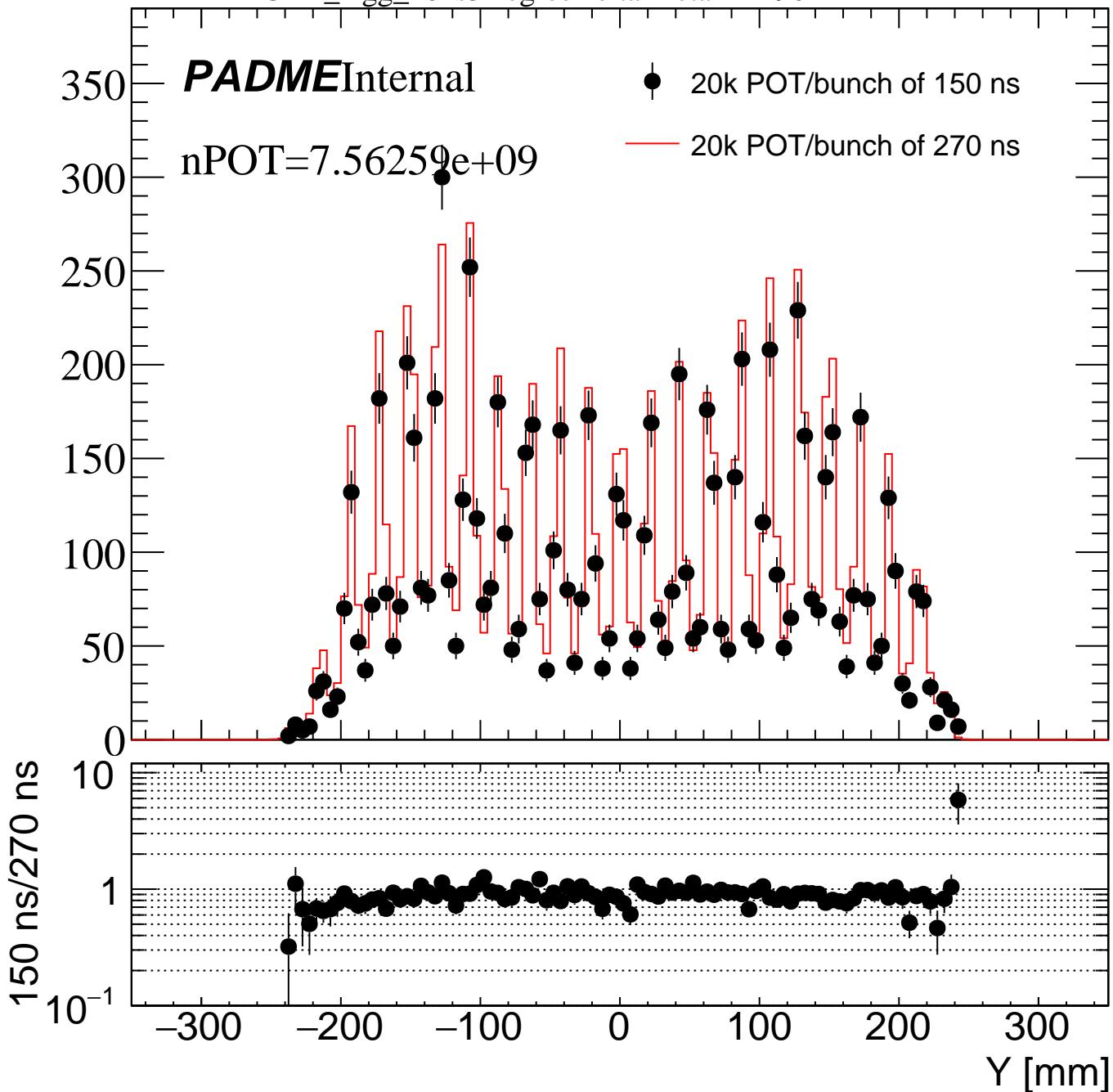
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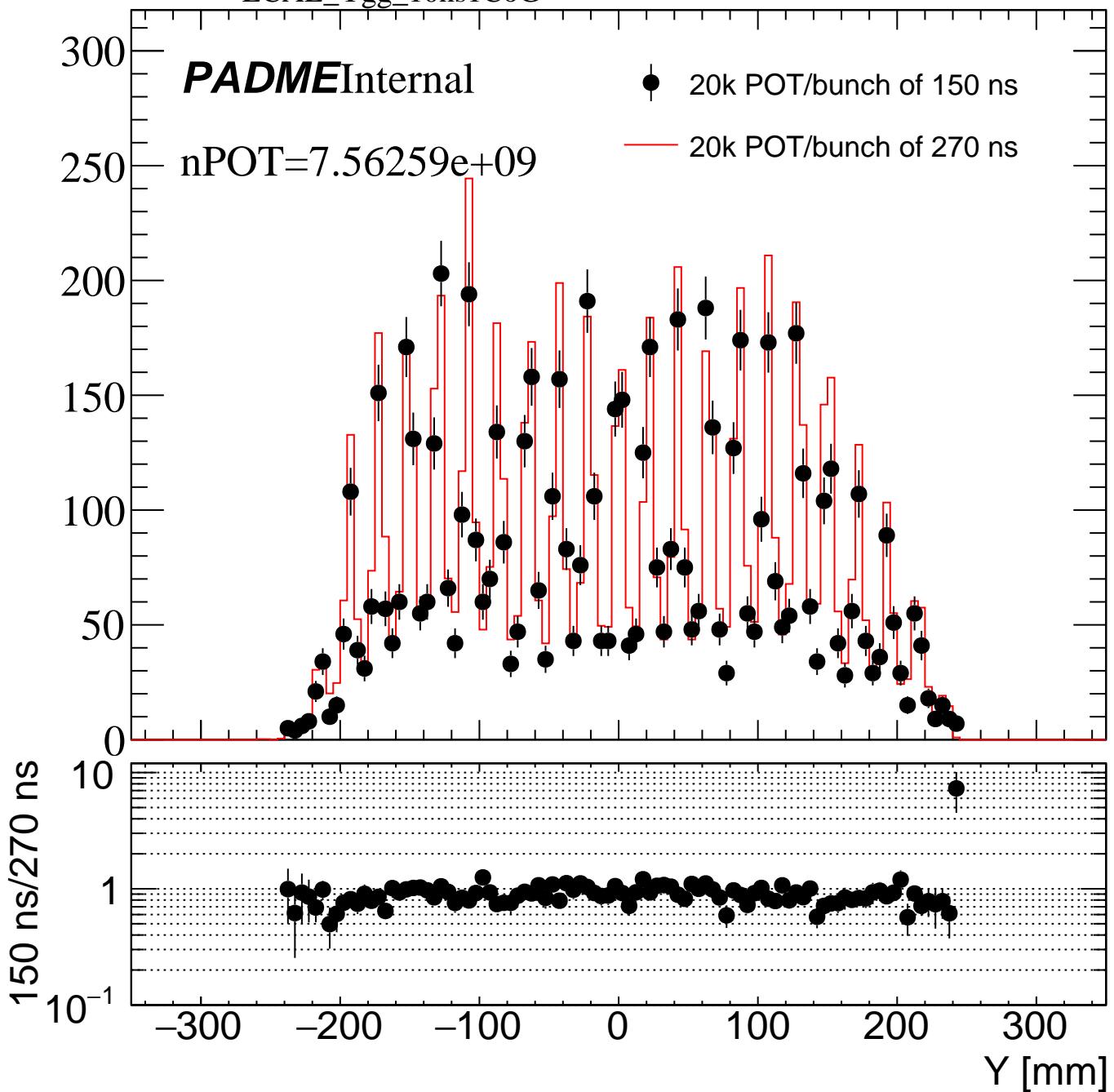
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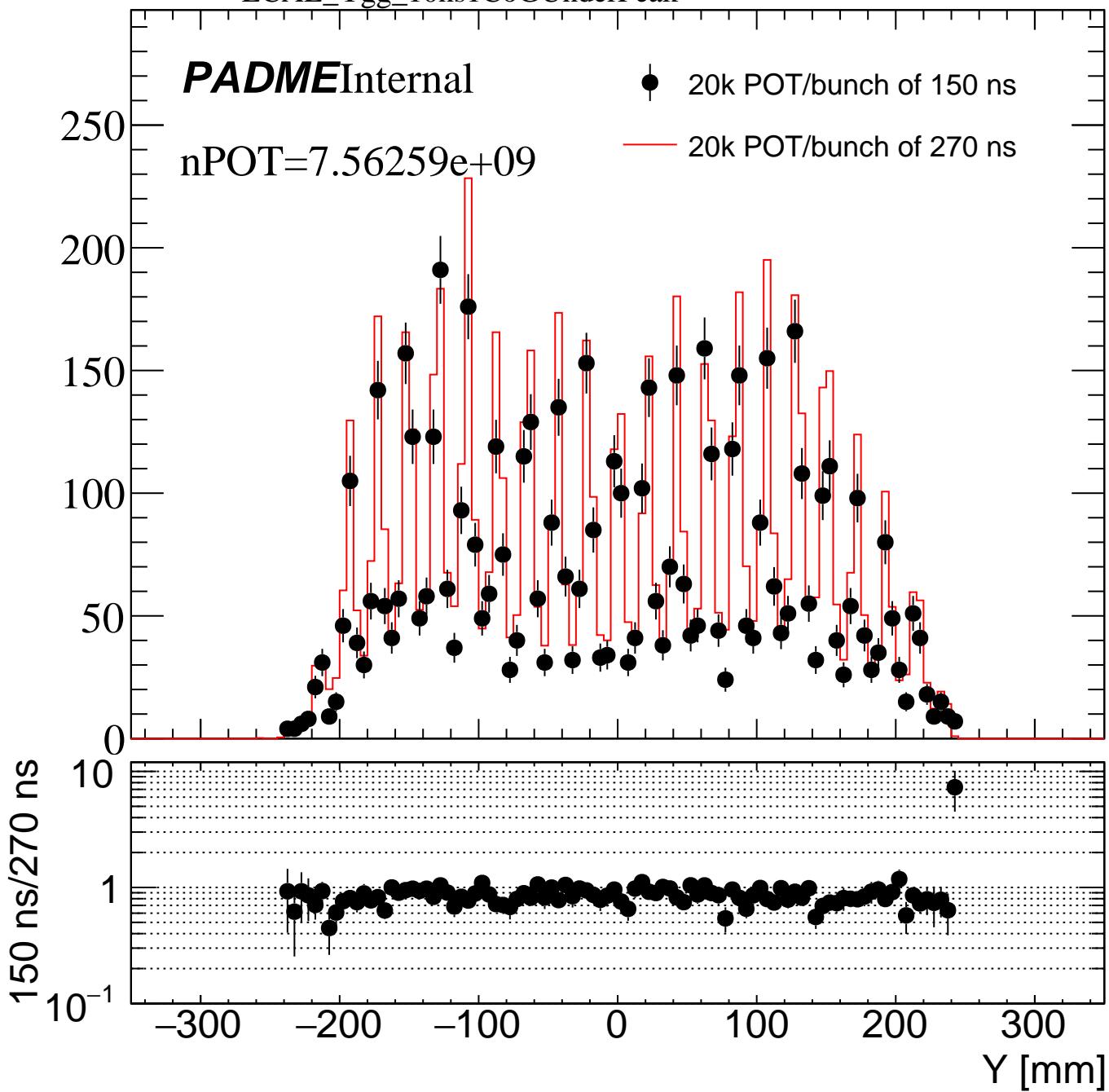
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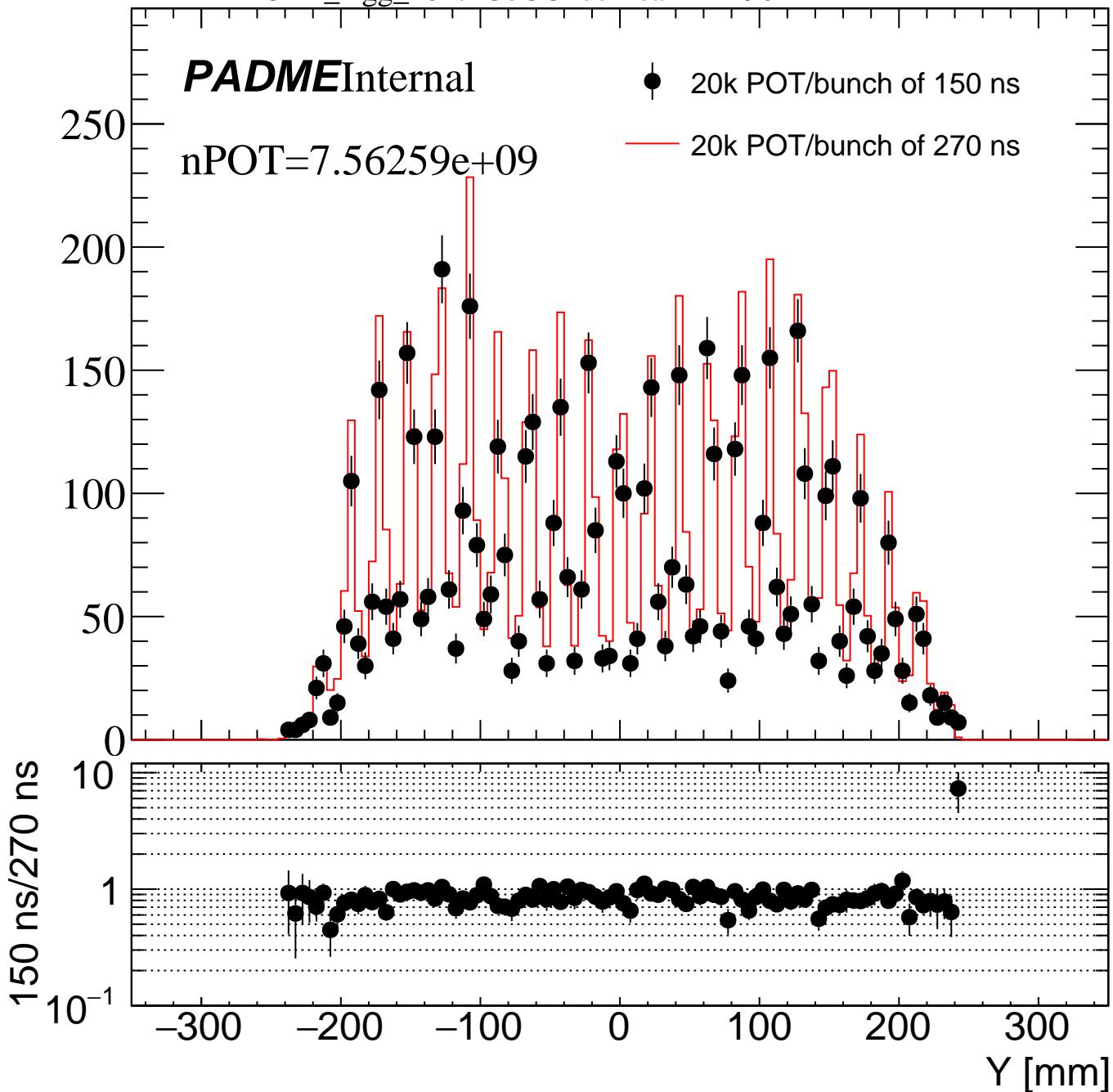
ECAL\_Ygg\_10ns1CoG



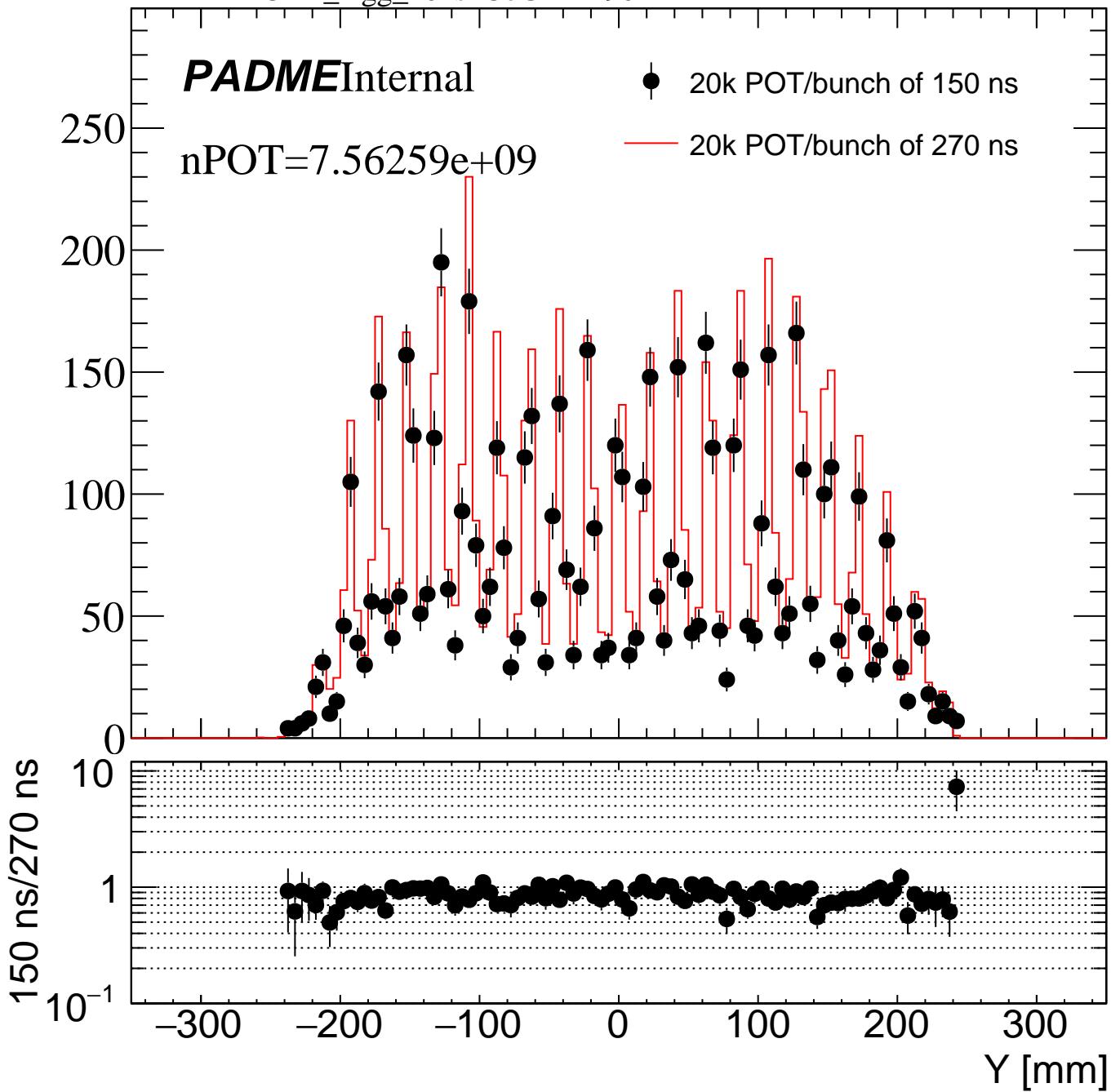
ECAL\_Ygg\_10ns1CoGUnderPeak



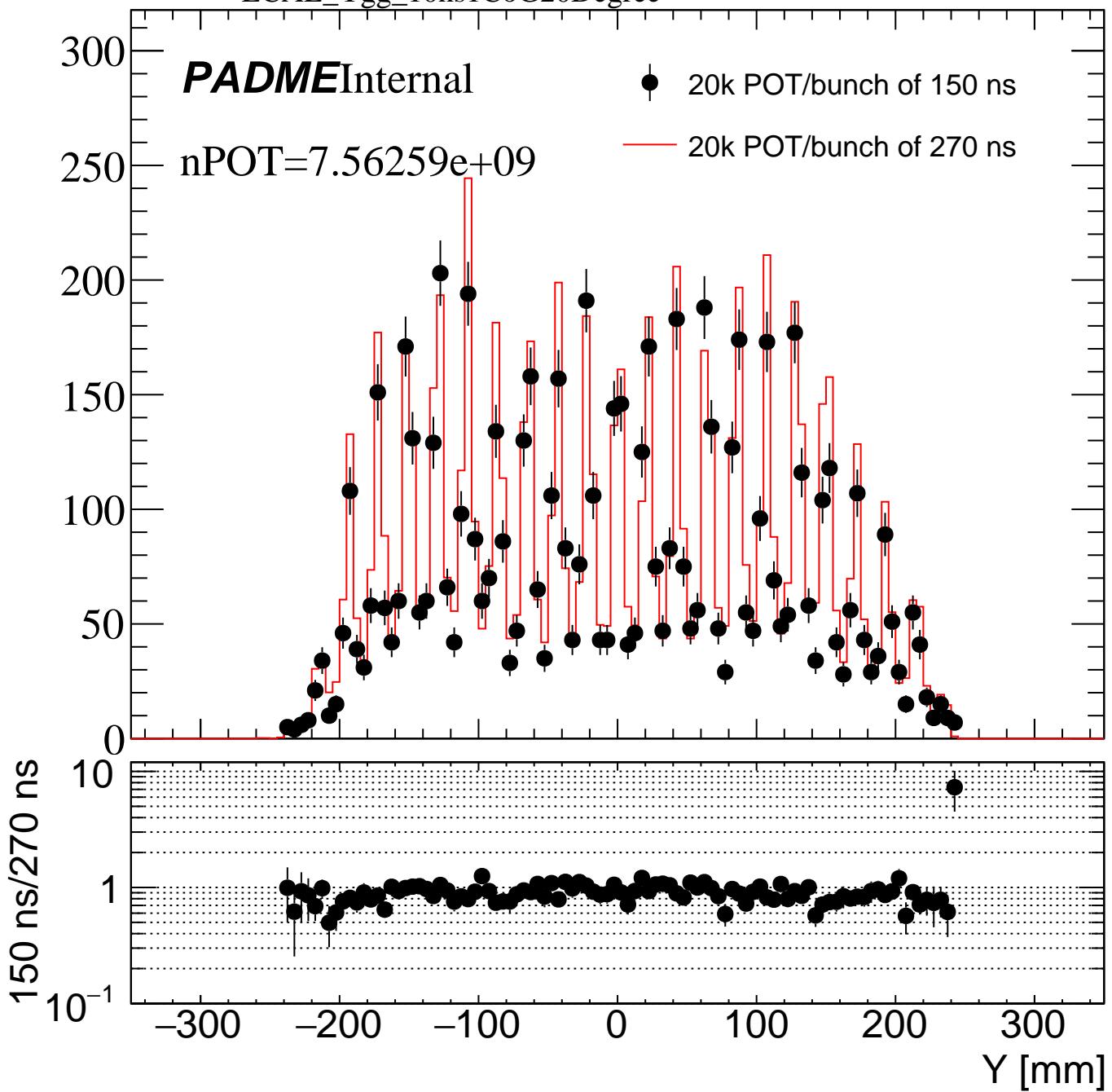
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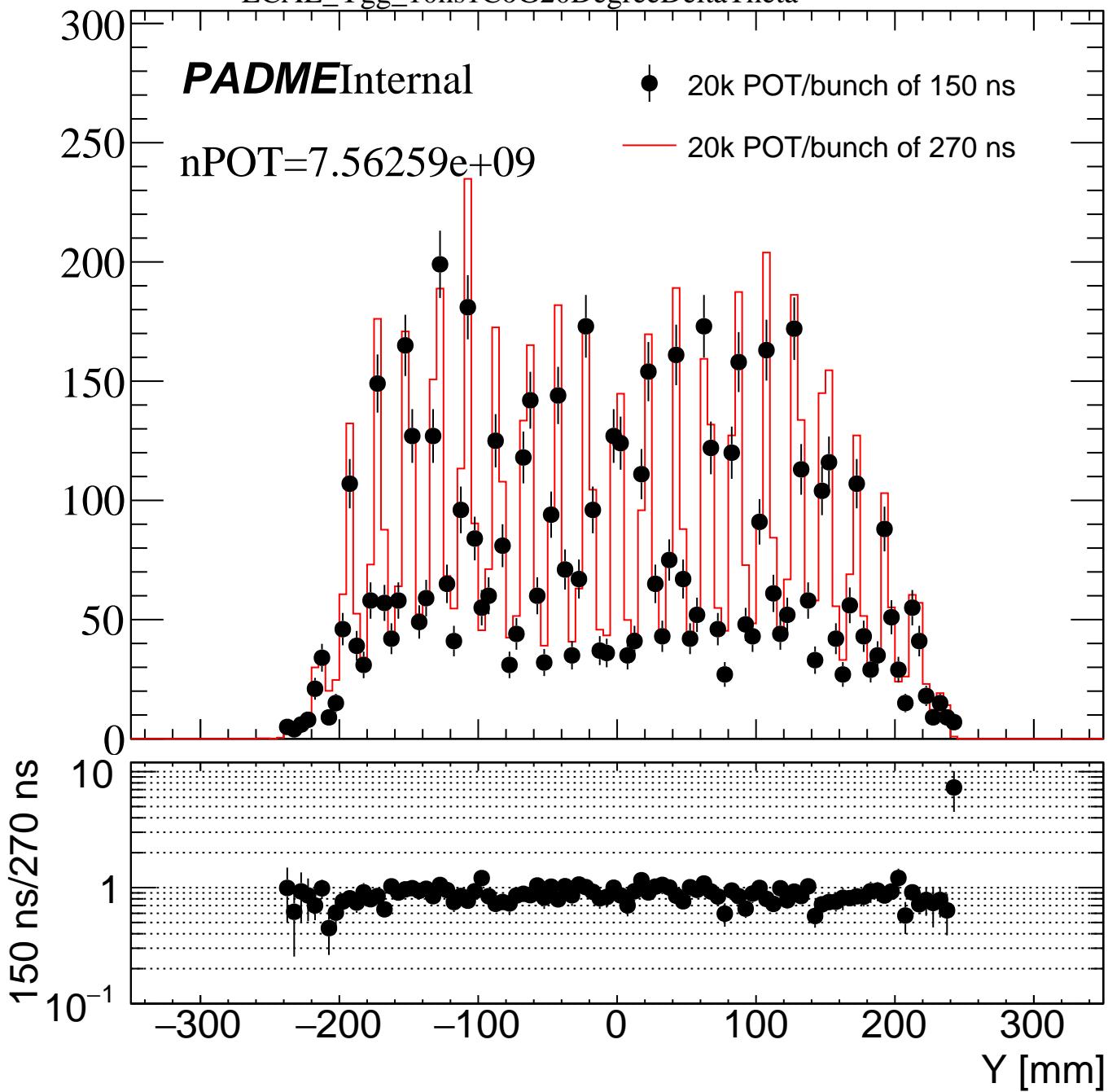
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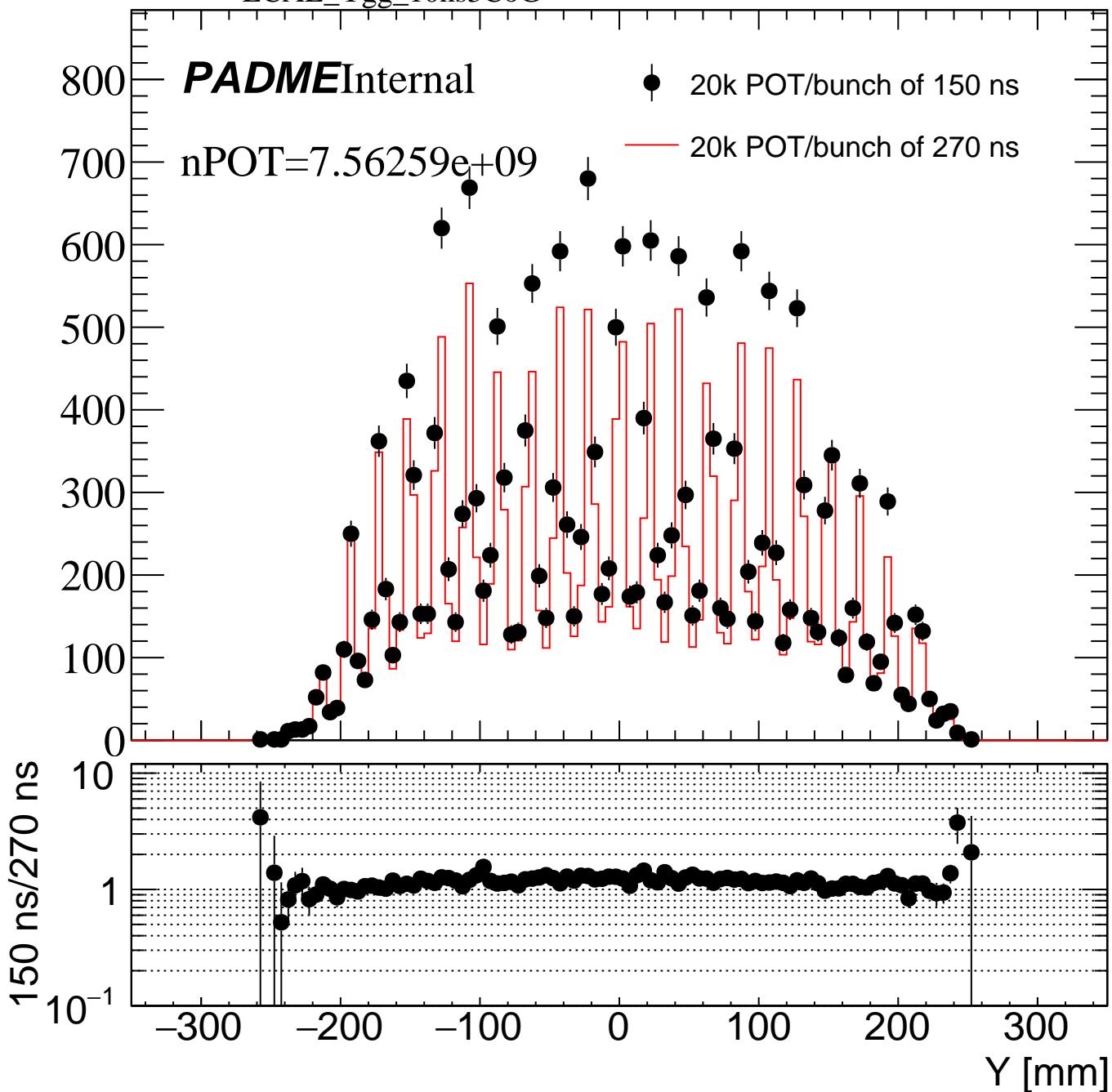
ECAL\_Ygg\_10ns1CoG20Degree

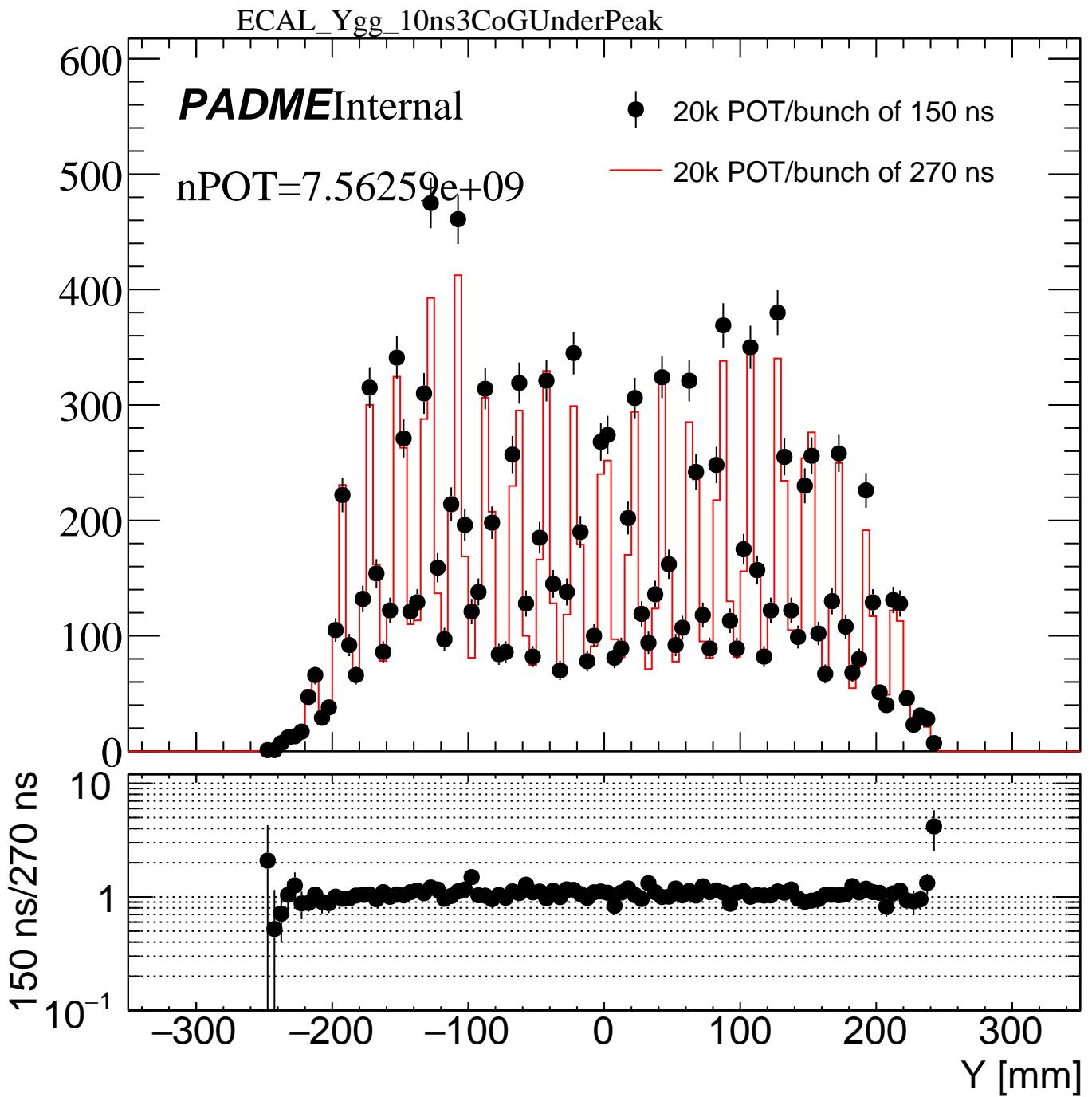


ECAL\_Ygg\_10ns1CoG20DegreeDeltaTheta

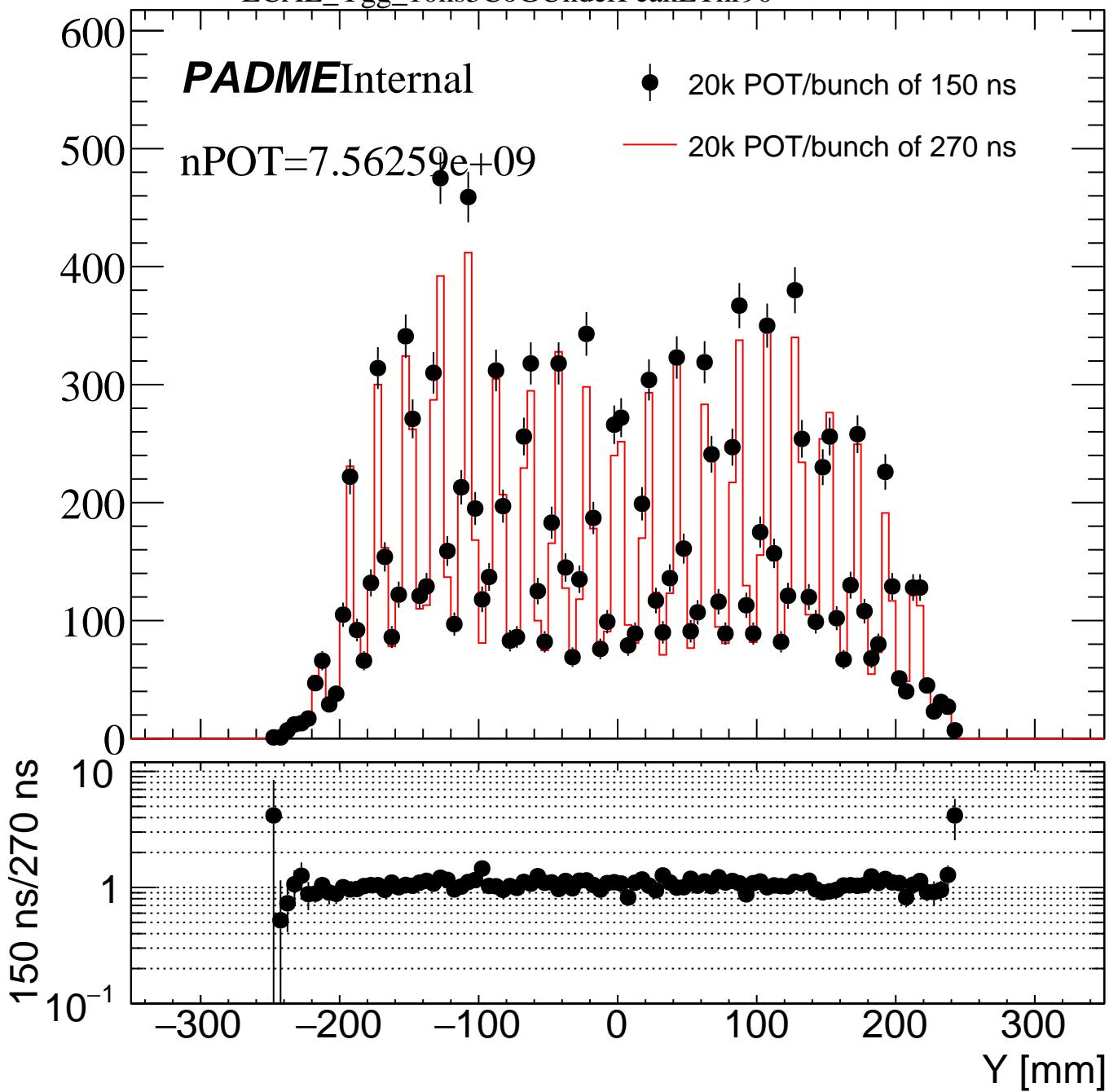


# ECAL\_Ygg\_10ns3CoG

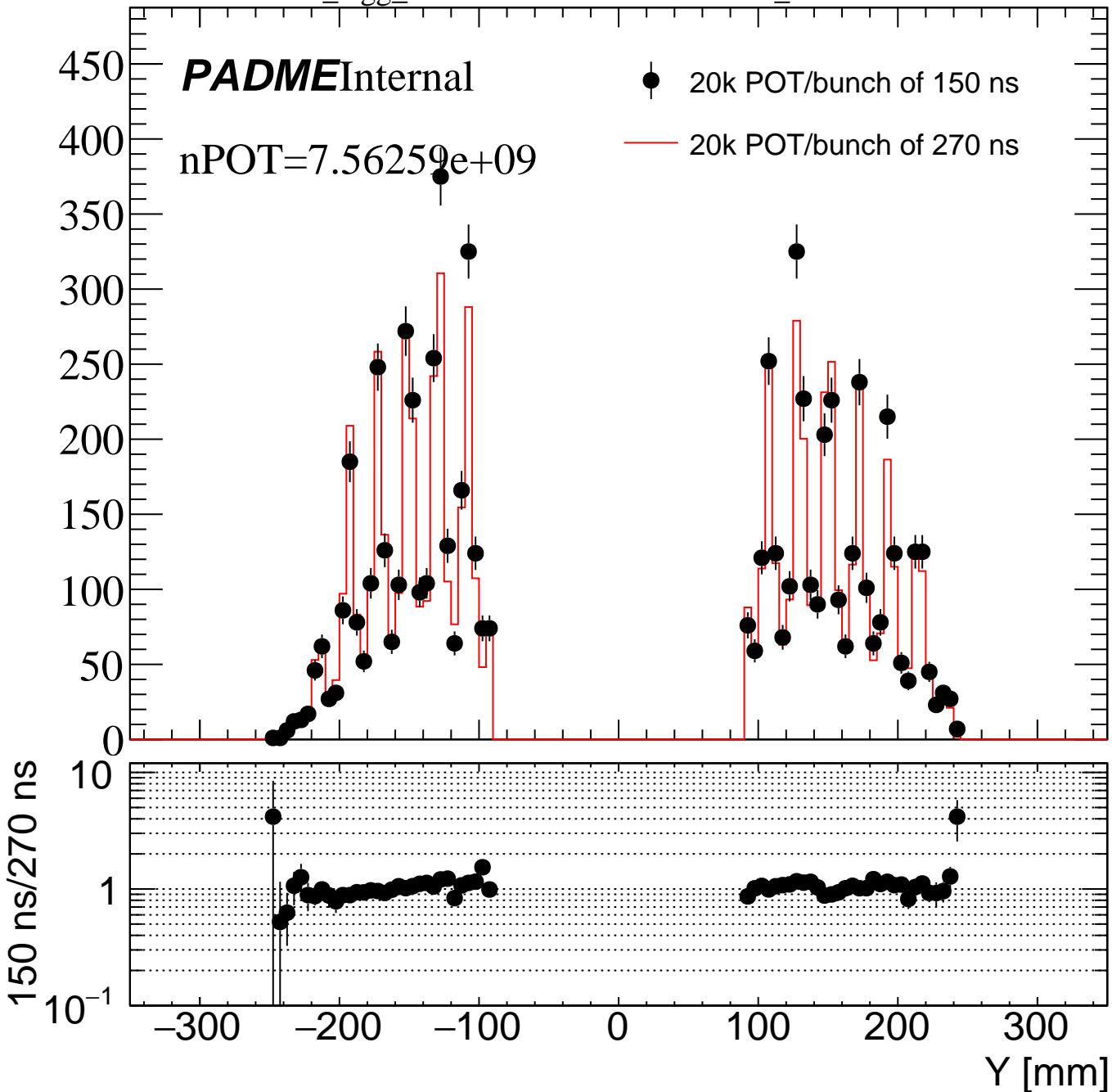




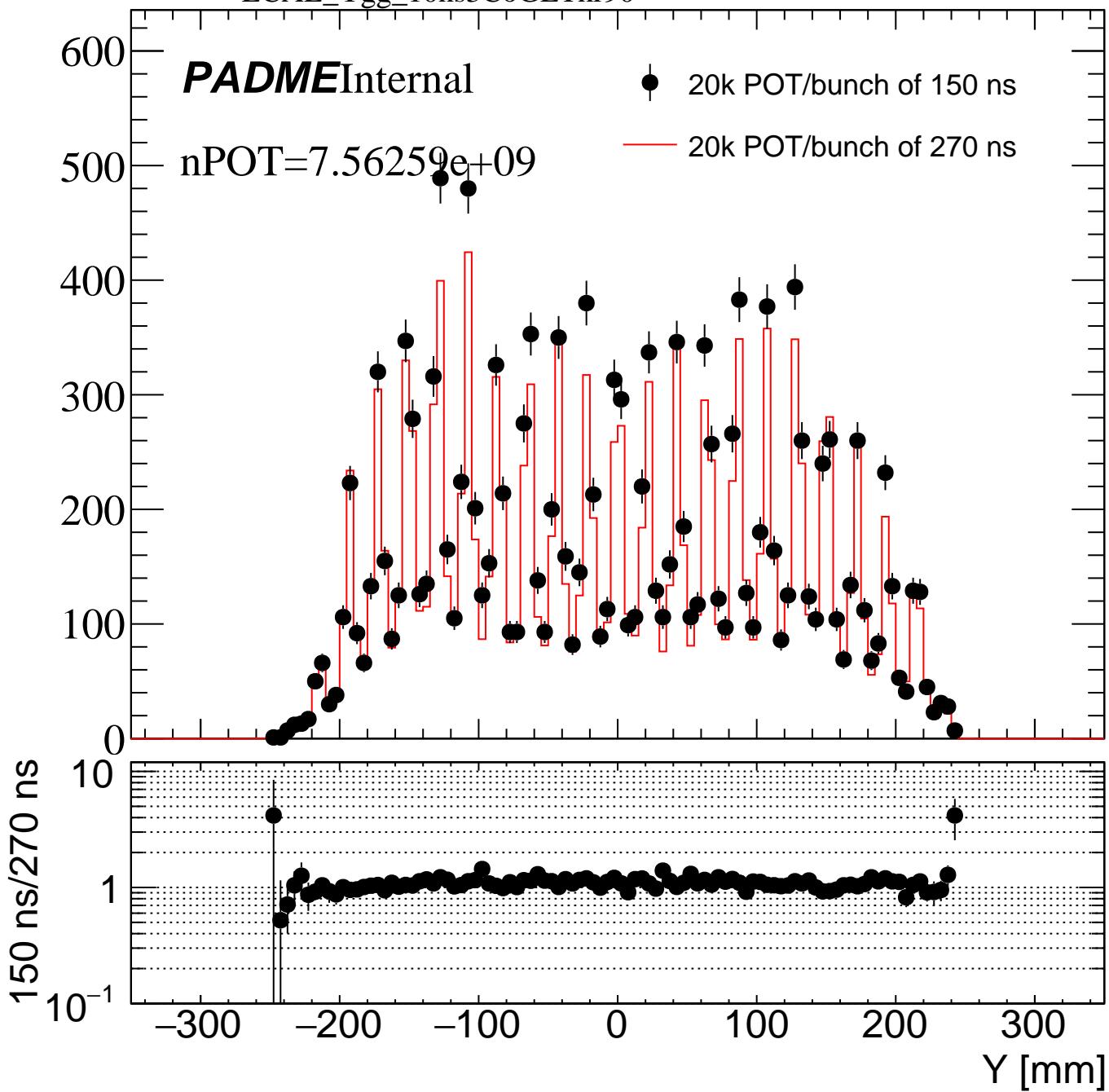
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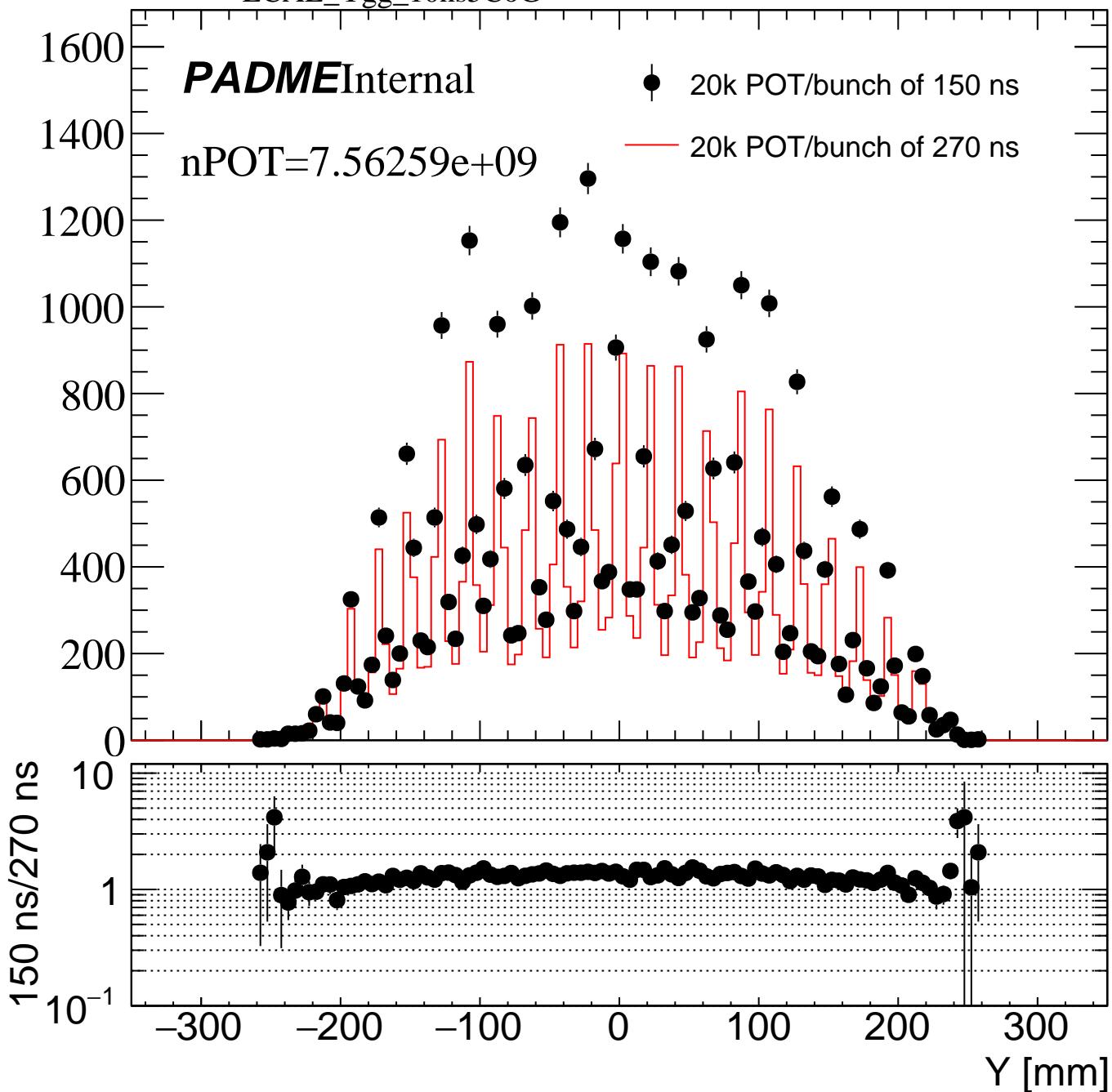
ECAL\_Ygg\_10ns3CoGUnderPeakEThr90\_FRY



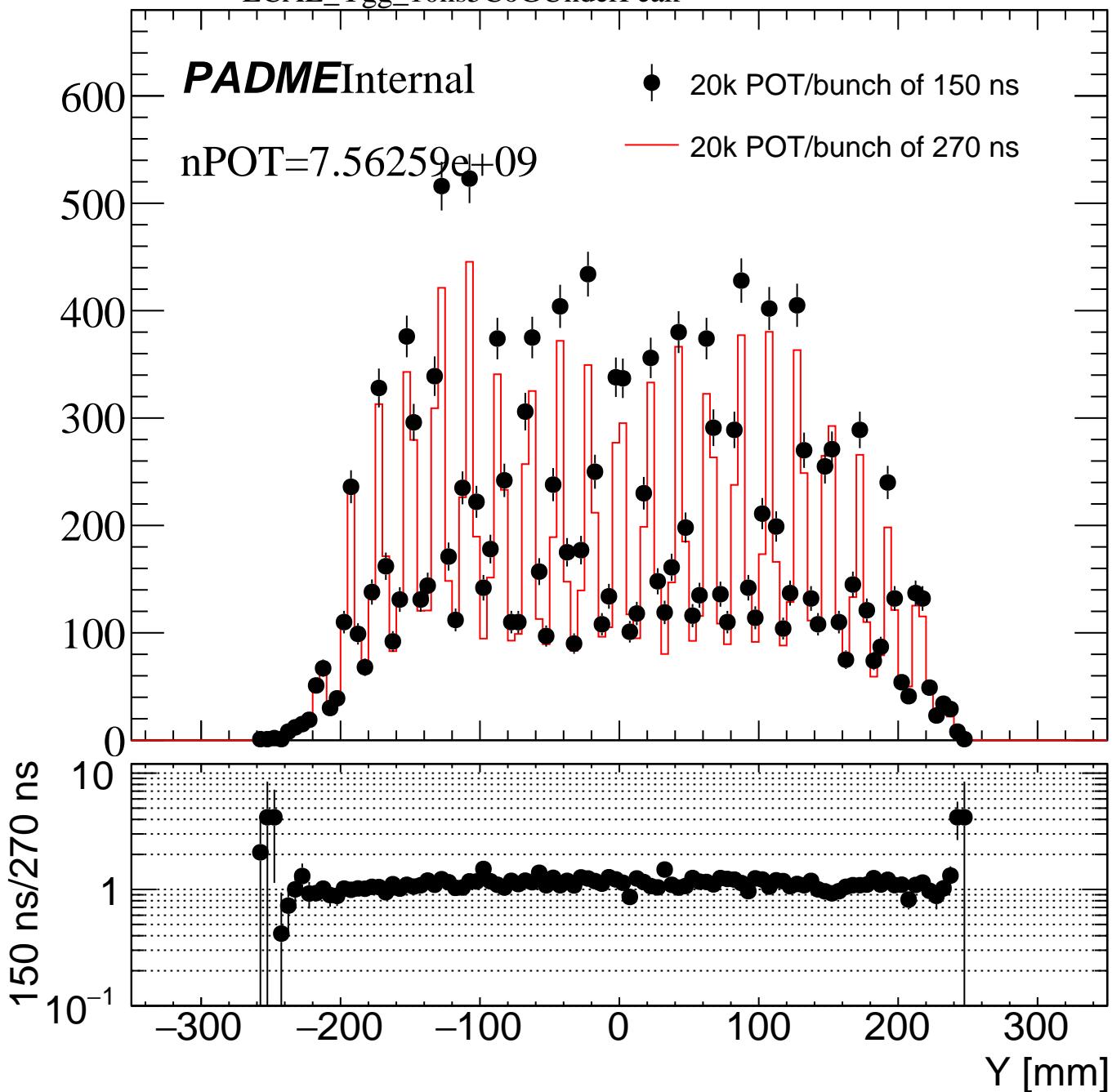
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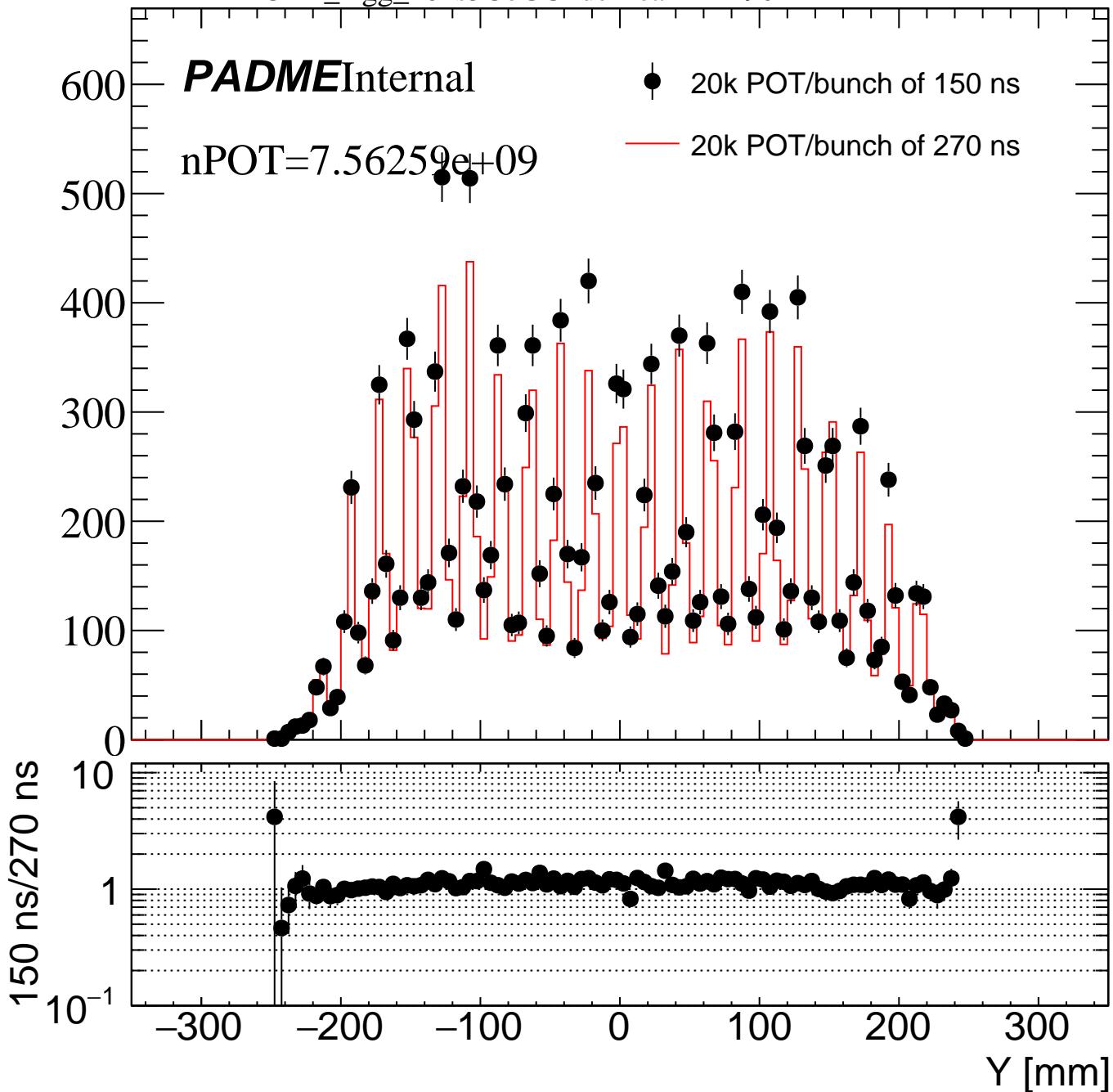
## ECAL\_Ygg\_10ns5CoG



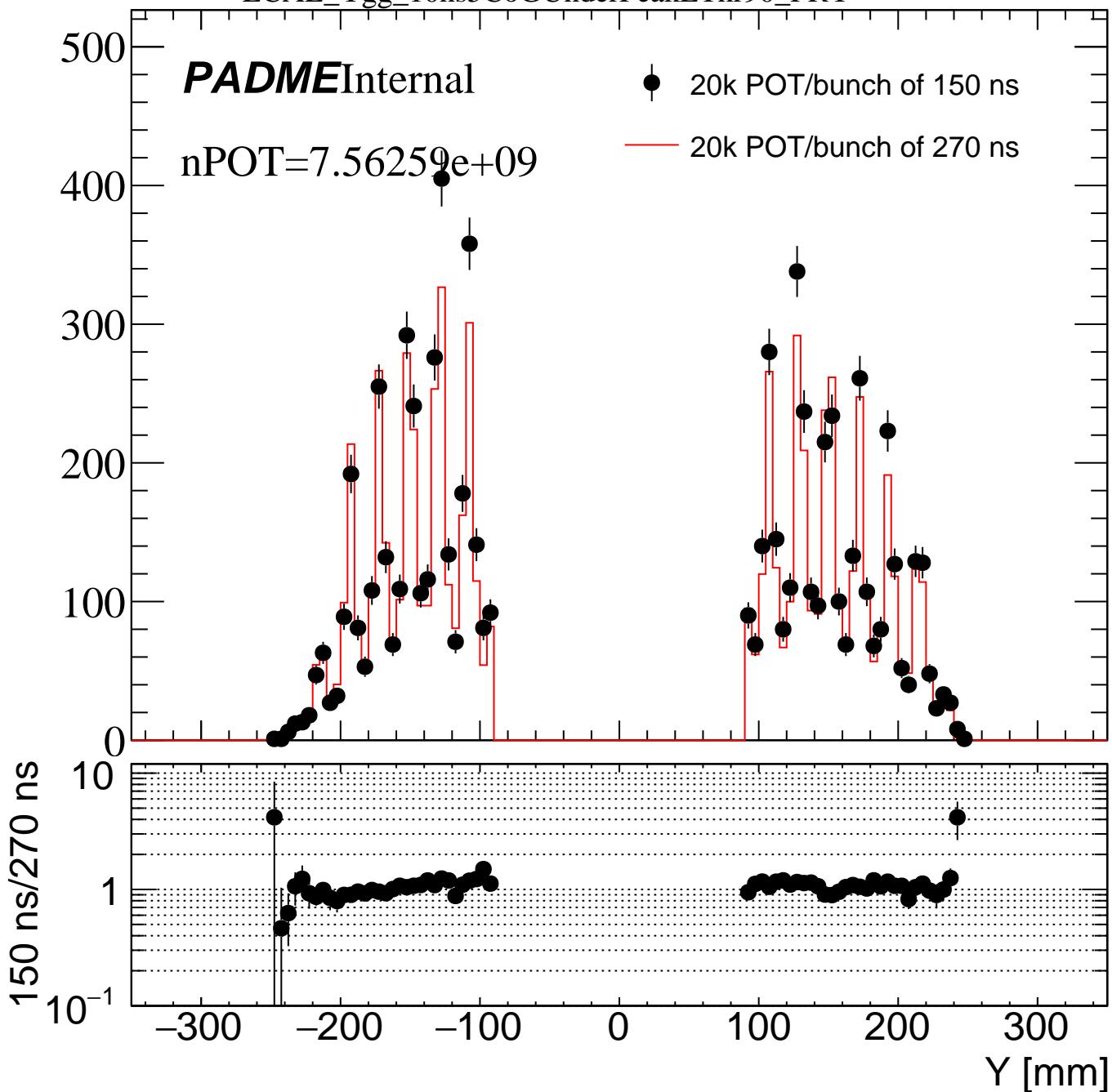
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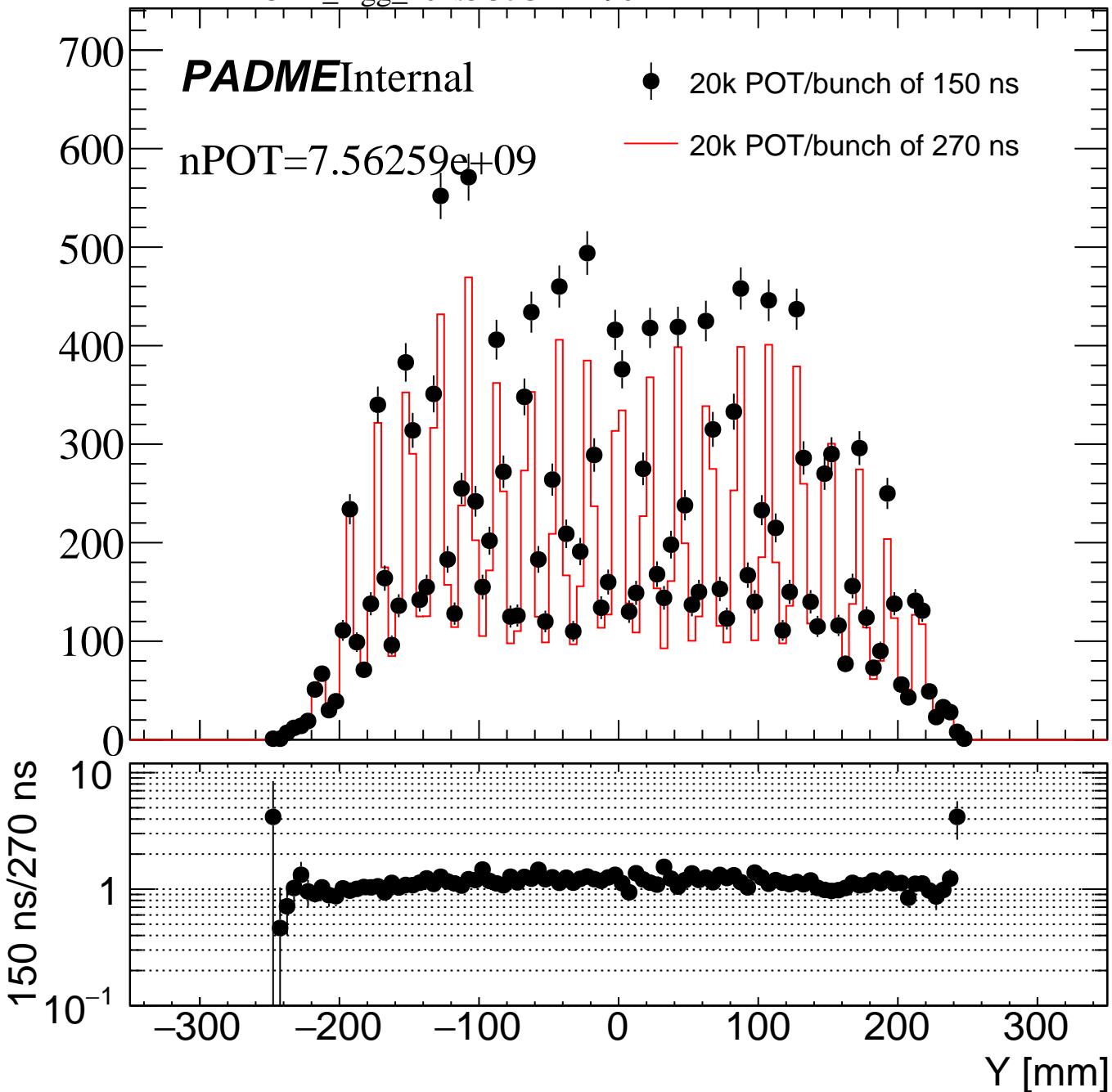
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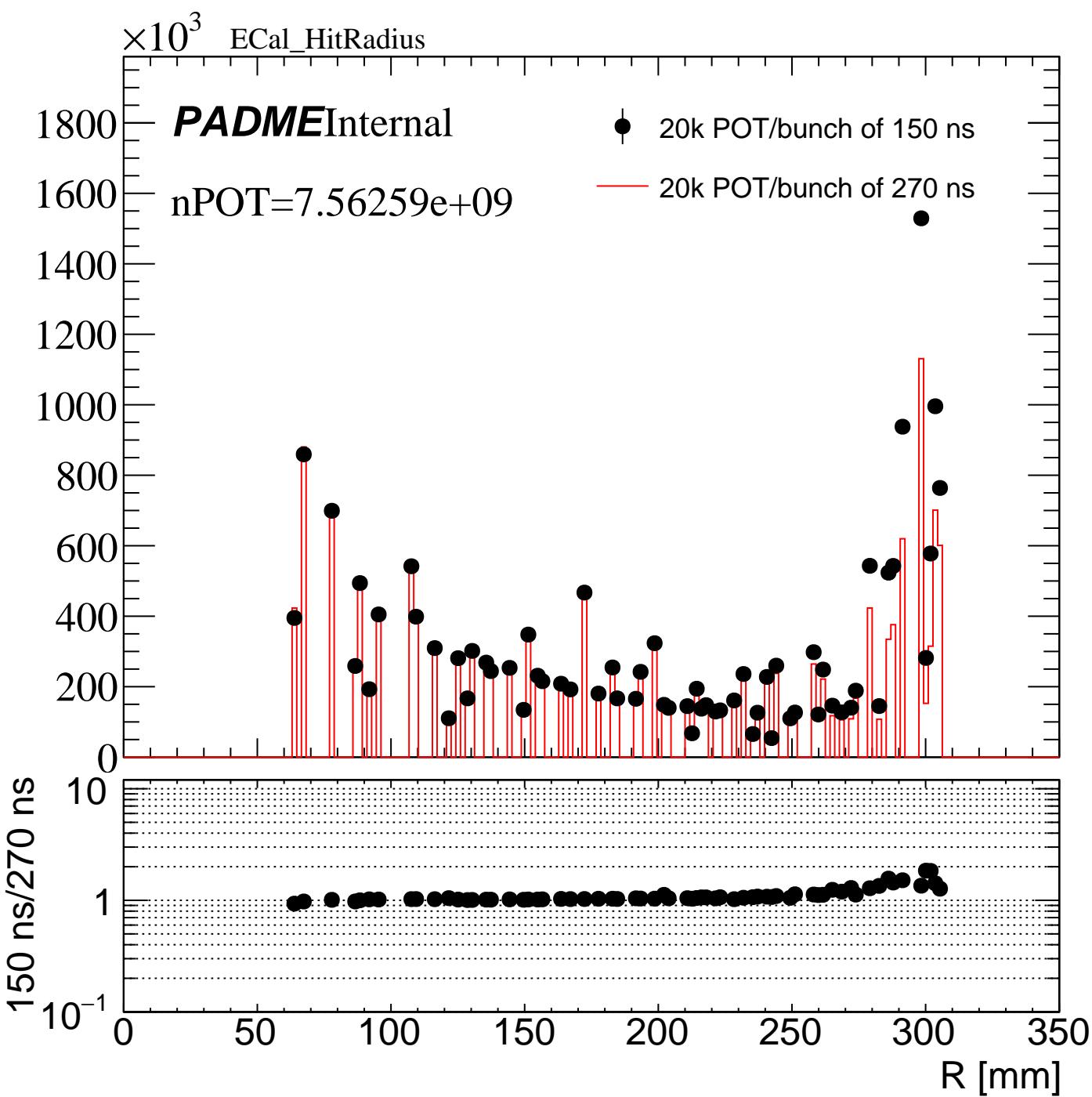


ECAL\_Ygg\_10ns5CoGUnderPeakEThr90\_FRY



ECAL\_Ygg\_10ns5CoGEThr90





ECAL\_RggAllClusters

**PADMEInternal**

nPOT=7.56259e+09

• 20k POT/bunch of 150 ns

— 20k POT/bunch of 270 ns

50000

40000

30000

20000

10000

0

150 ns/270 ns

10

1

10<sup>-1</sup>

0

50

100

150

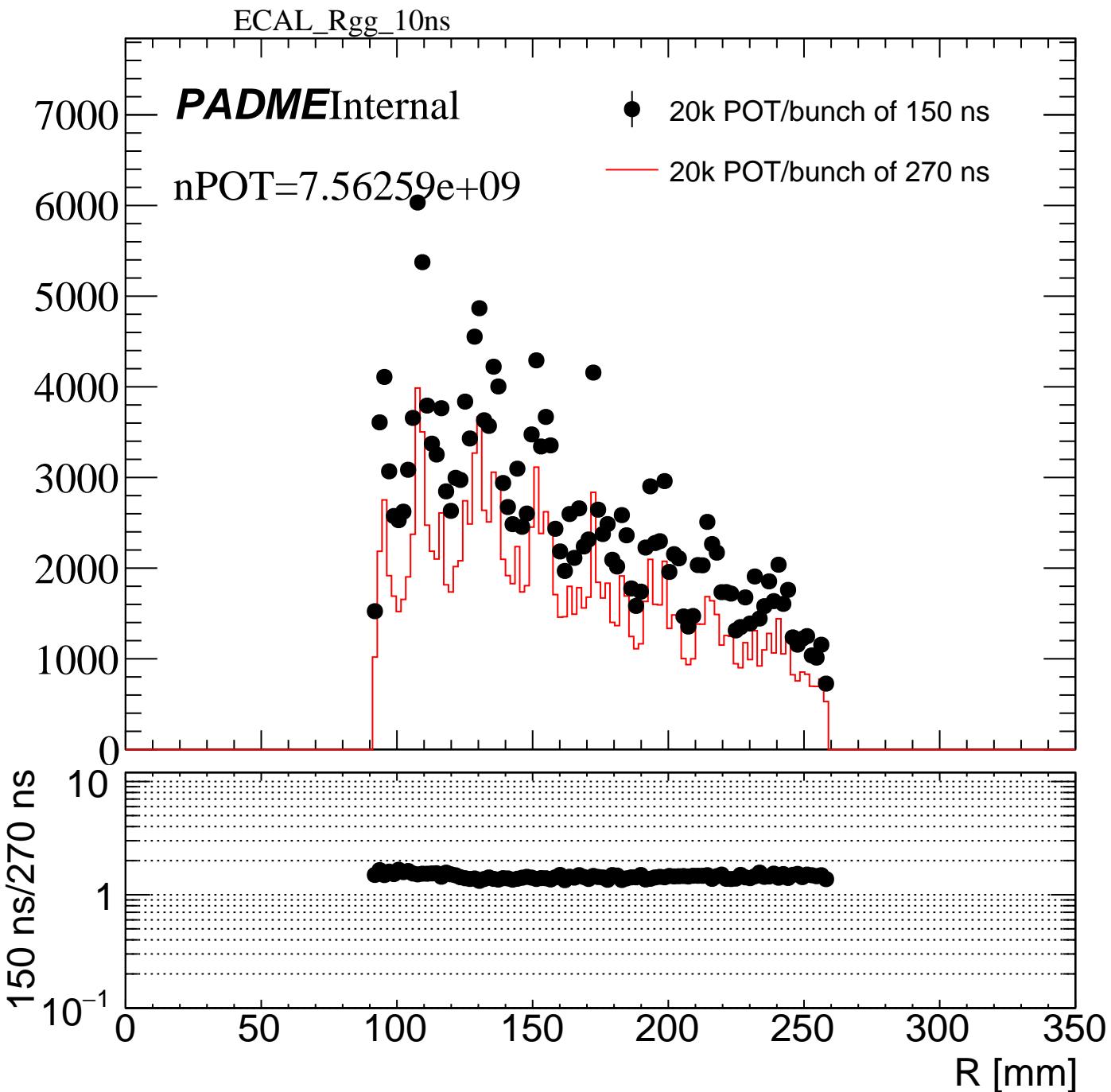
200

250

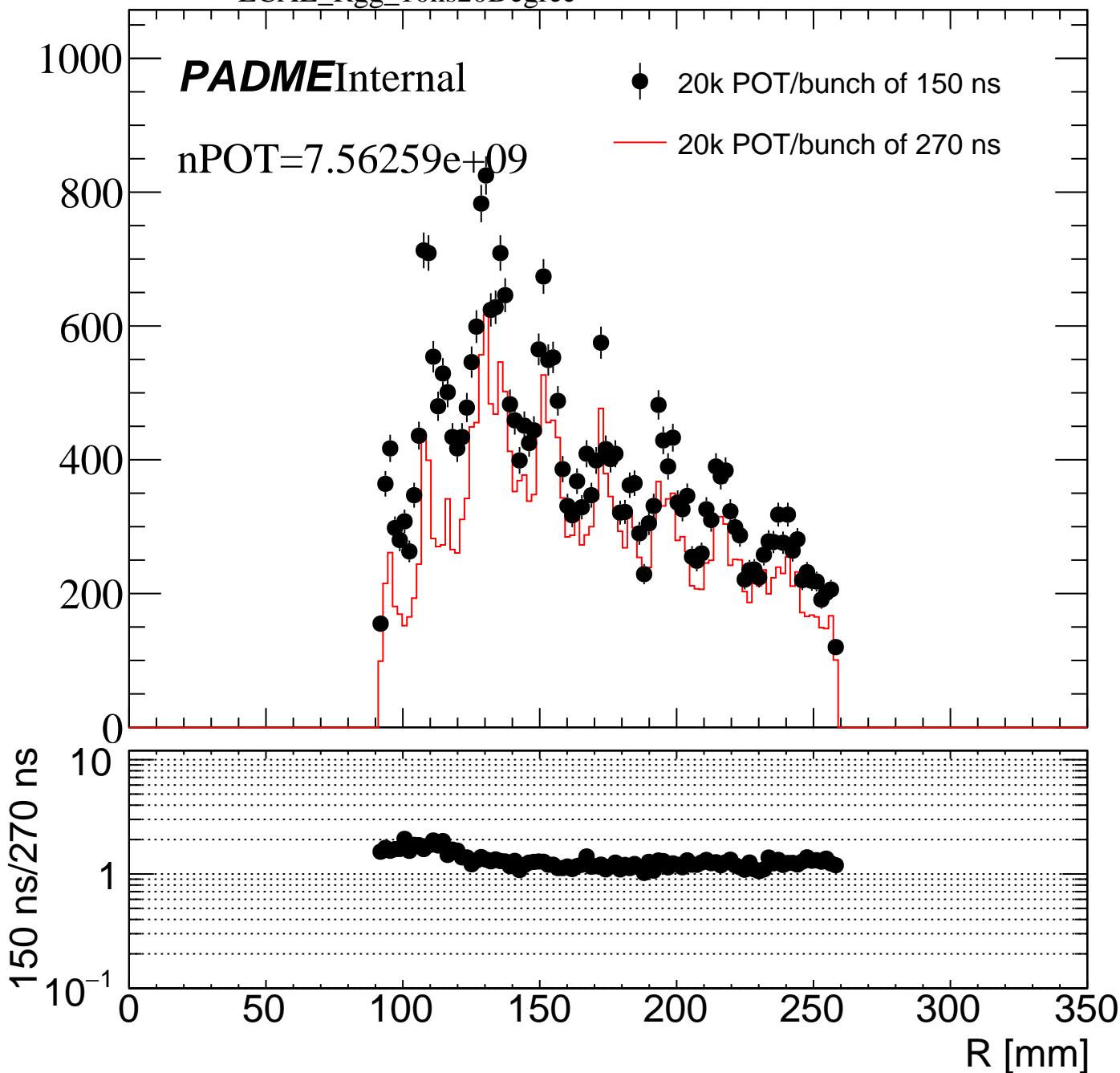
300

350

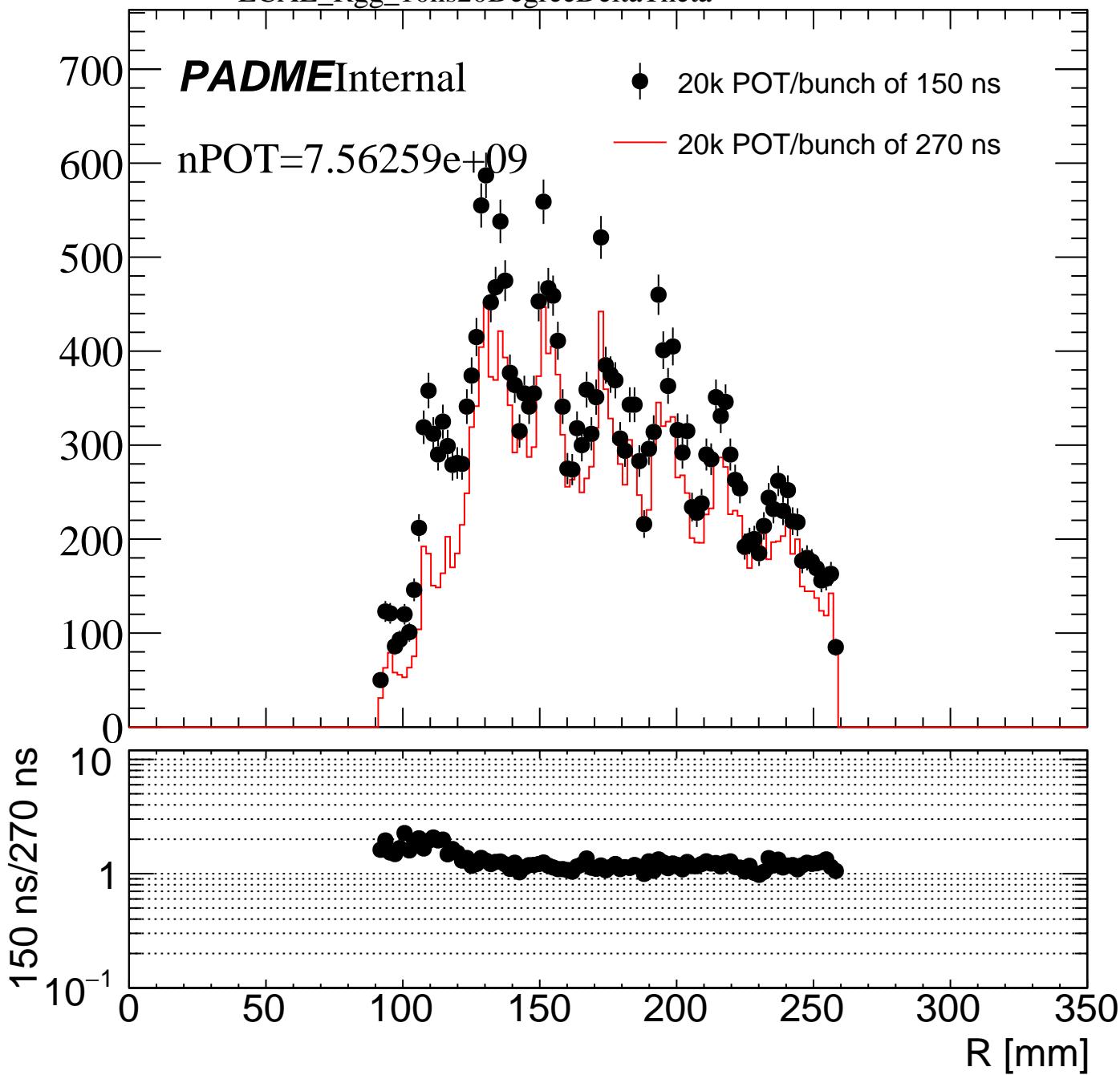
R [mm]



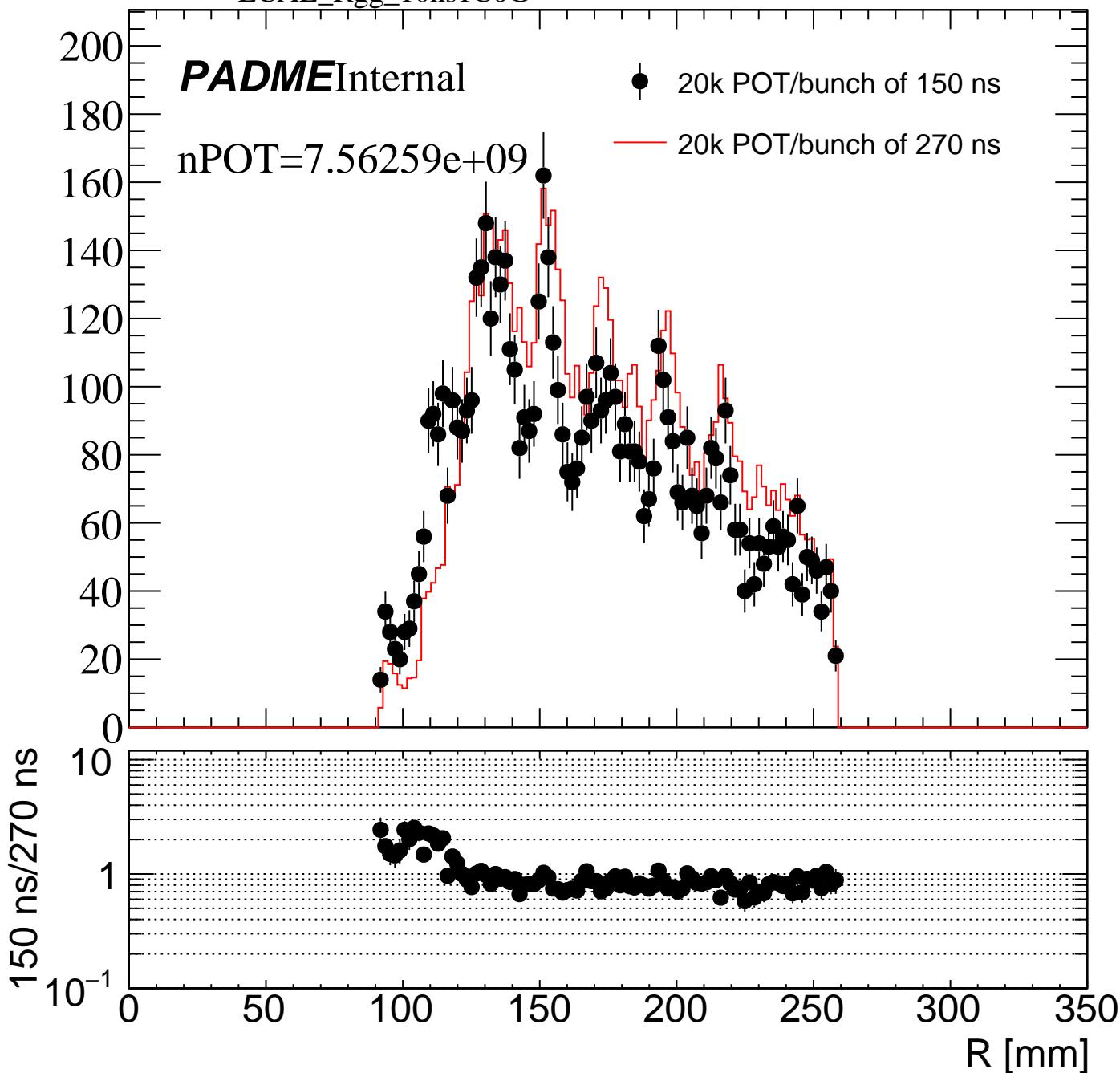
ECAL\_Rgg\_10ns20Degree



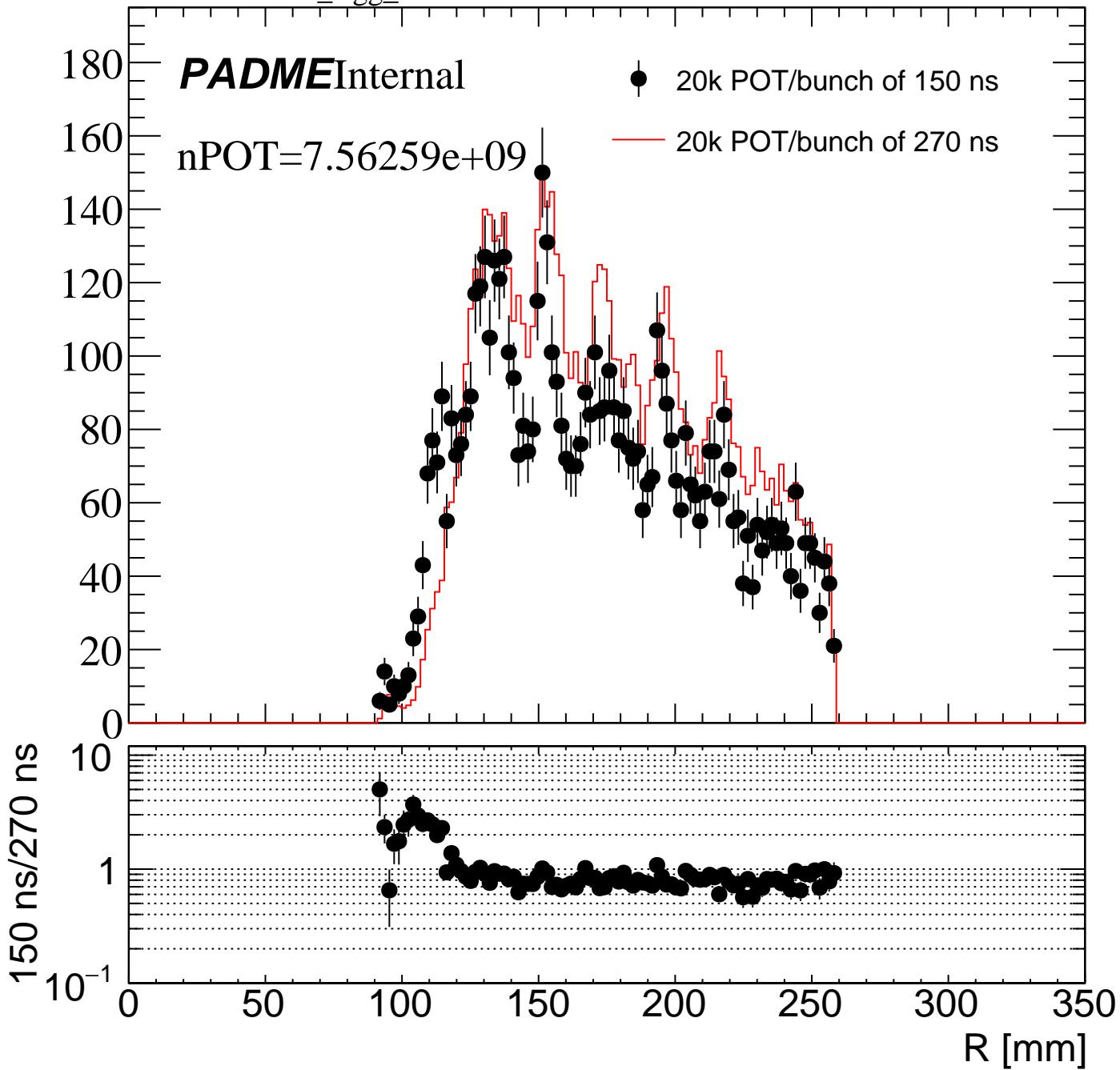
ECAL\_Rgg\_10ns20DegreeDeltaTheta



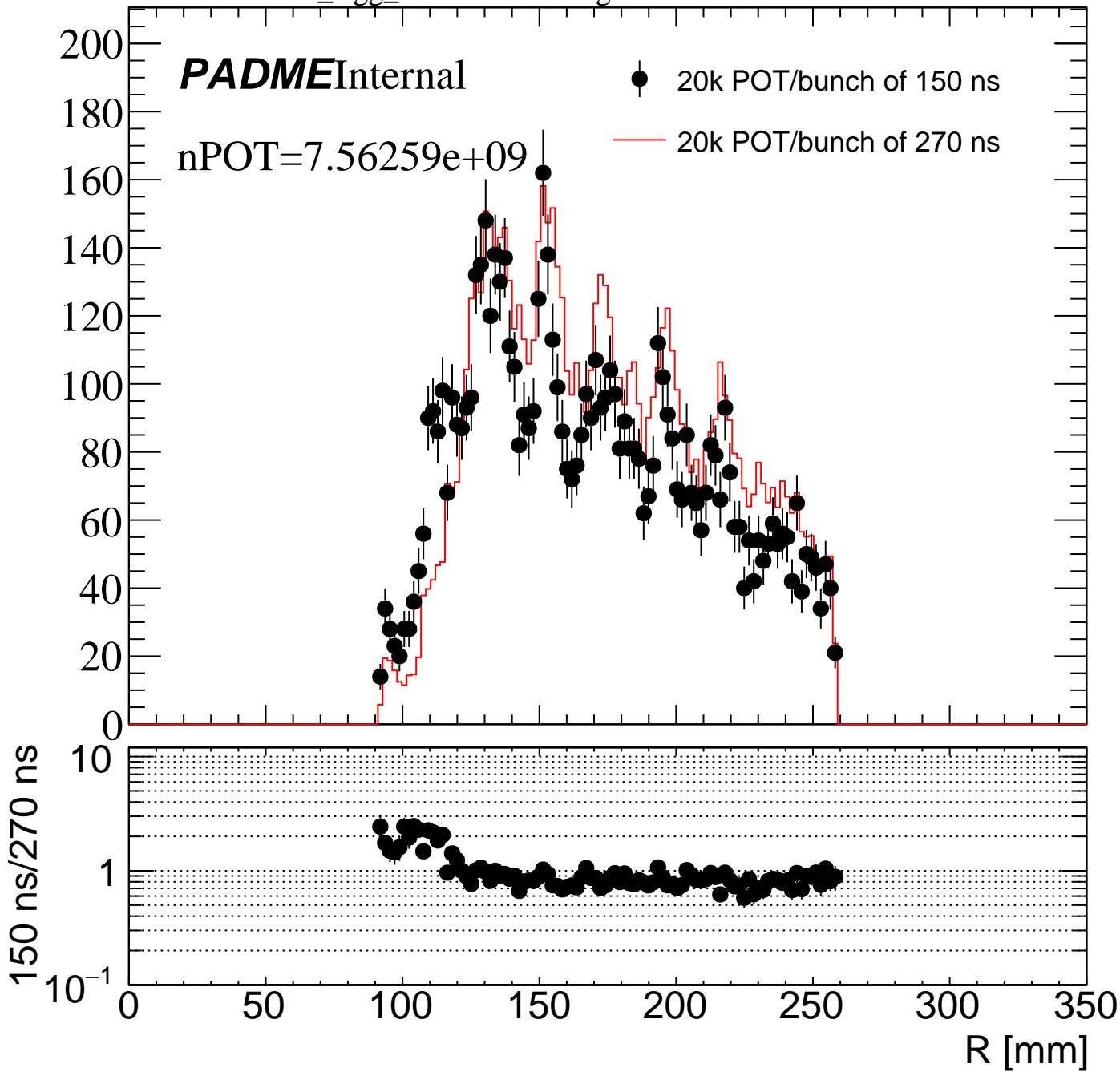
ECAL\_Rgg\_10ns1CoG



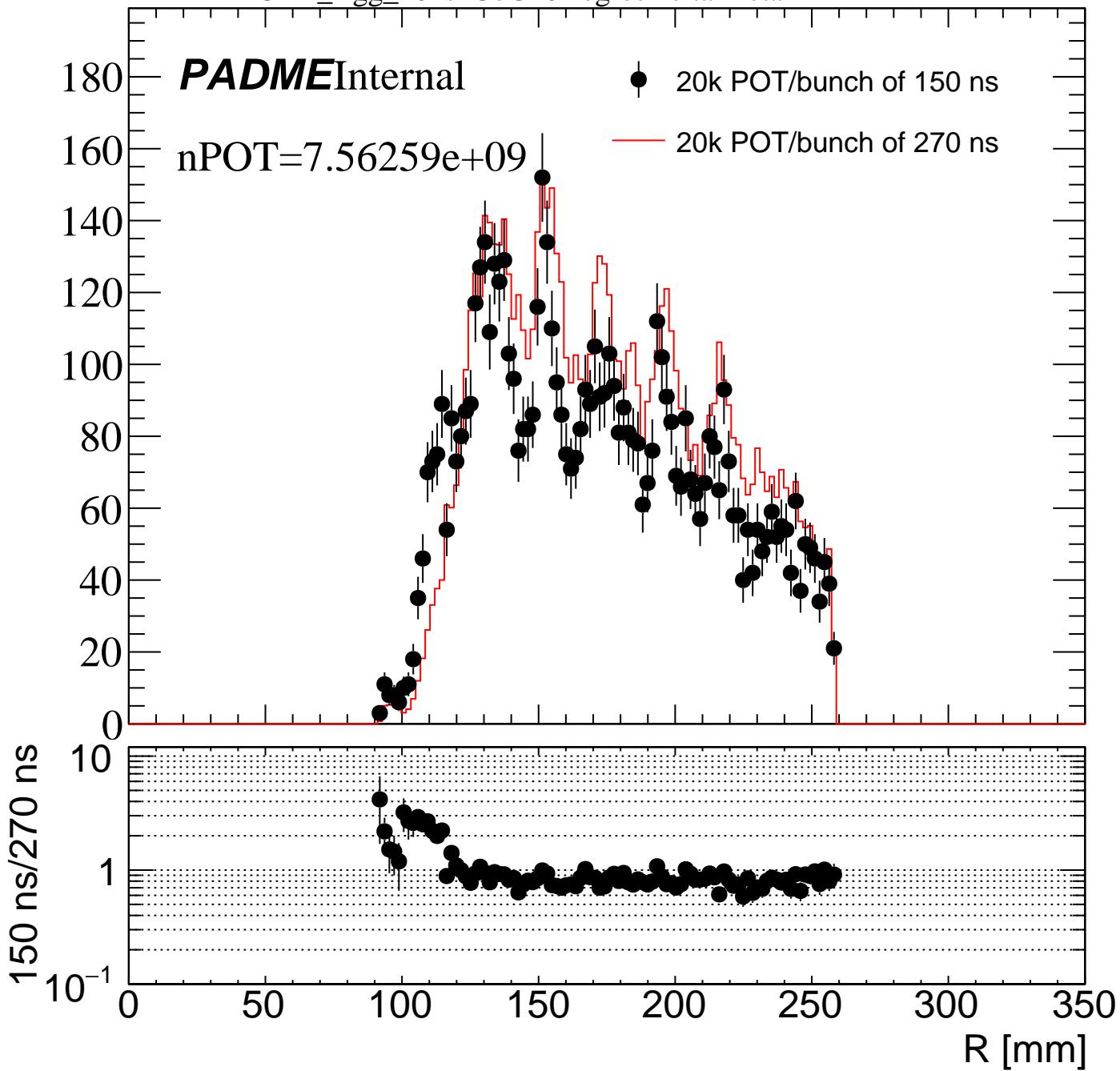
ECAL\_Rgg\_10ns1CoGEThr90



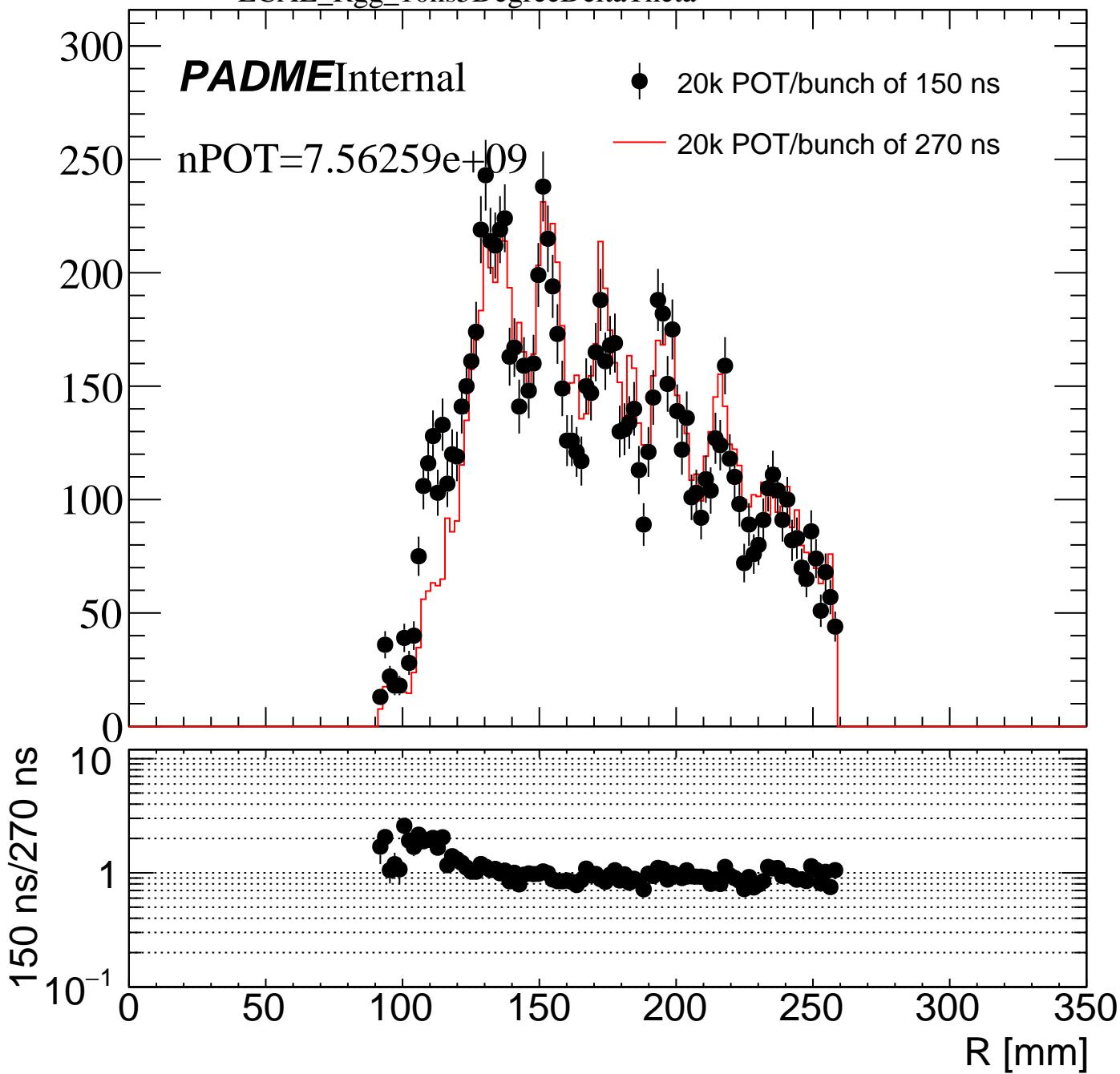
ECAL\_Rgg\_10ns1CoG20Degree

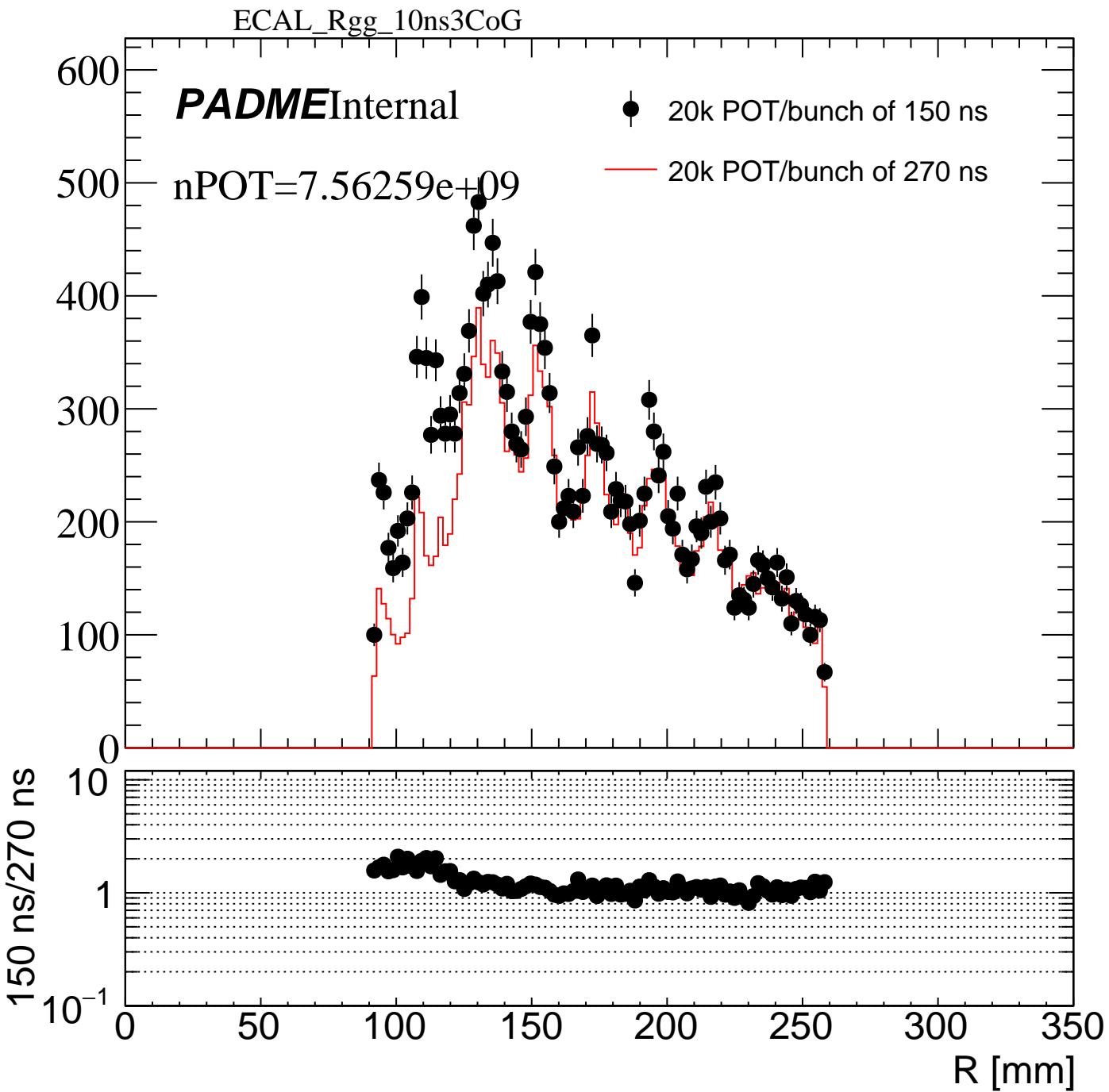


ECAL\_Rgg\_10ns1CoG20DegreeDeltaTheta

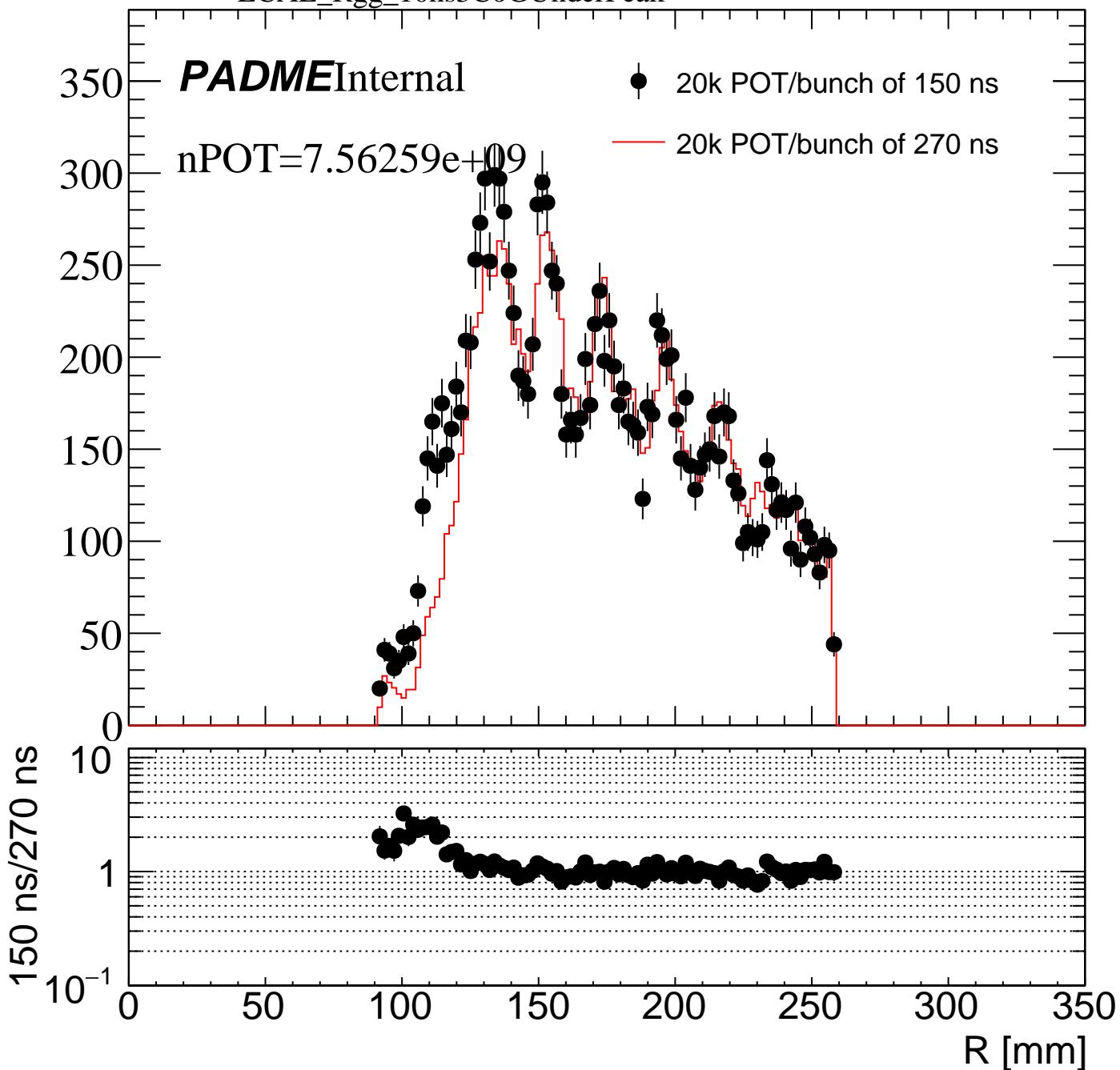


ECAL\_Rgg\_10ns5DegreeDeltaTheta

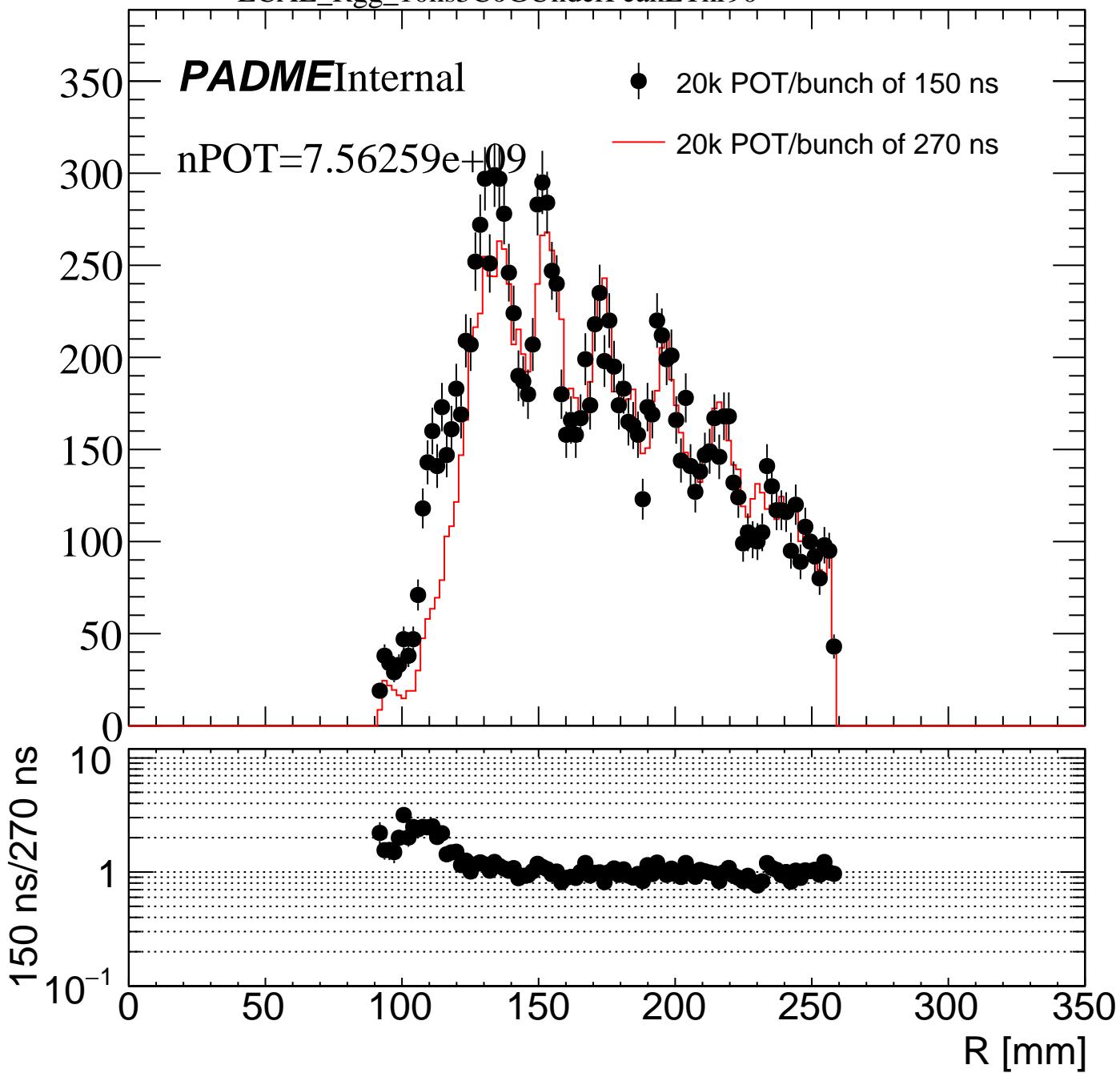




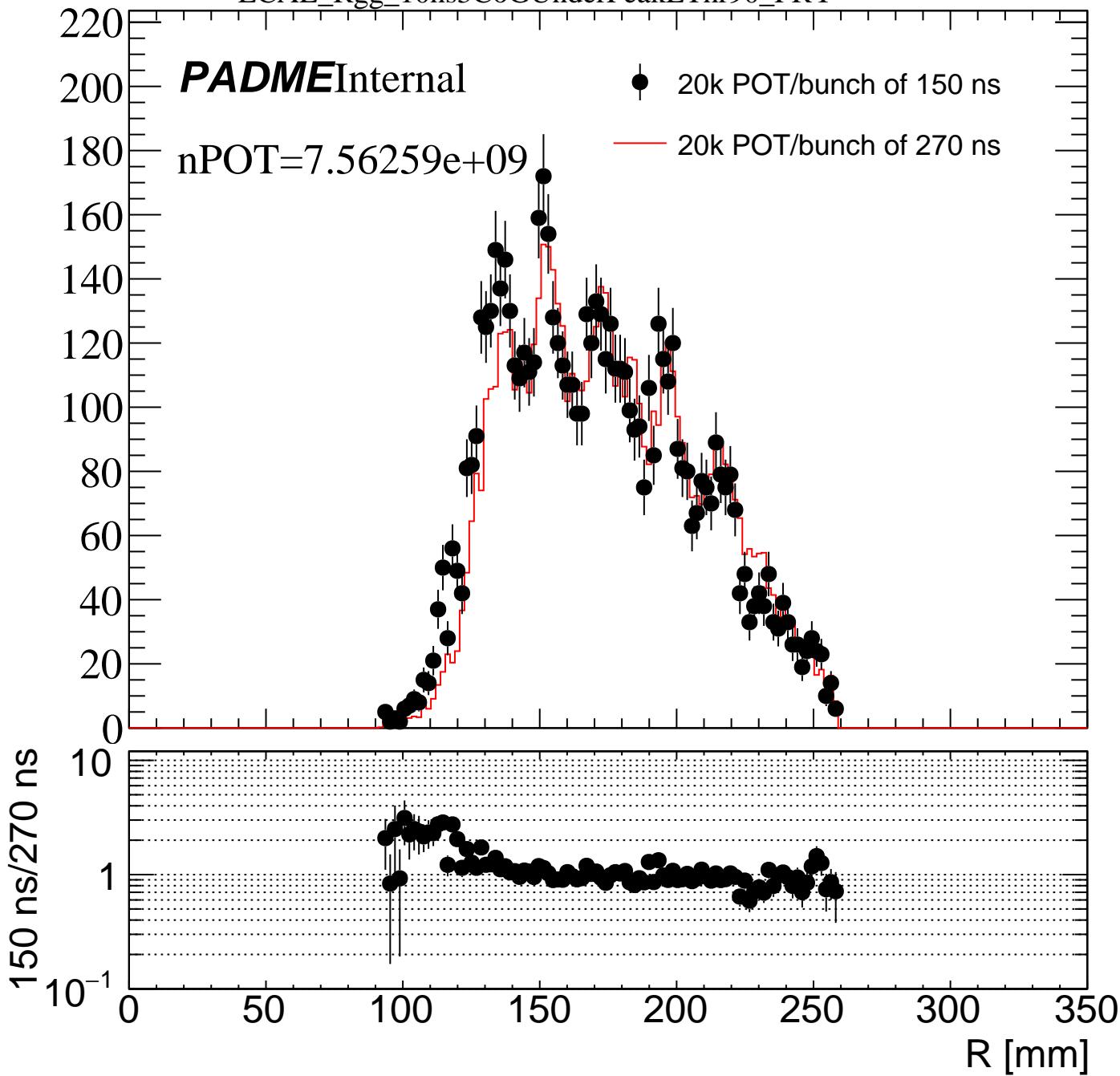
ECAL\_Rgg\_10ns3CoGUnderPeak



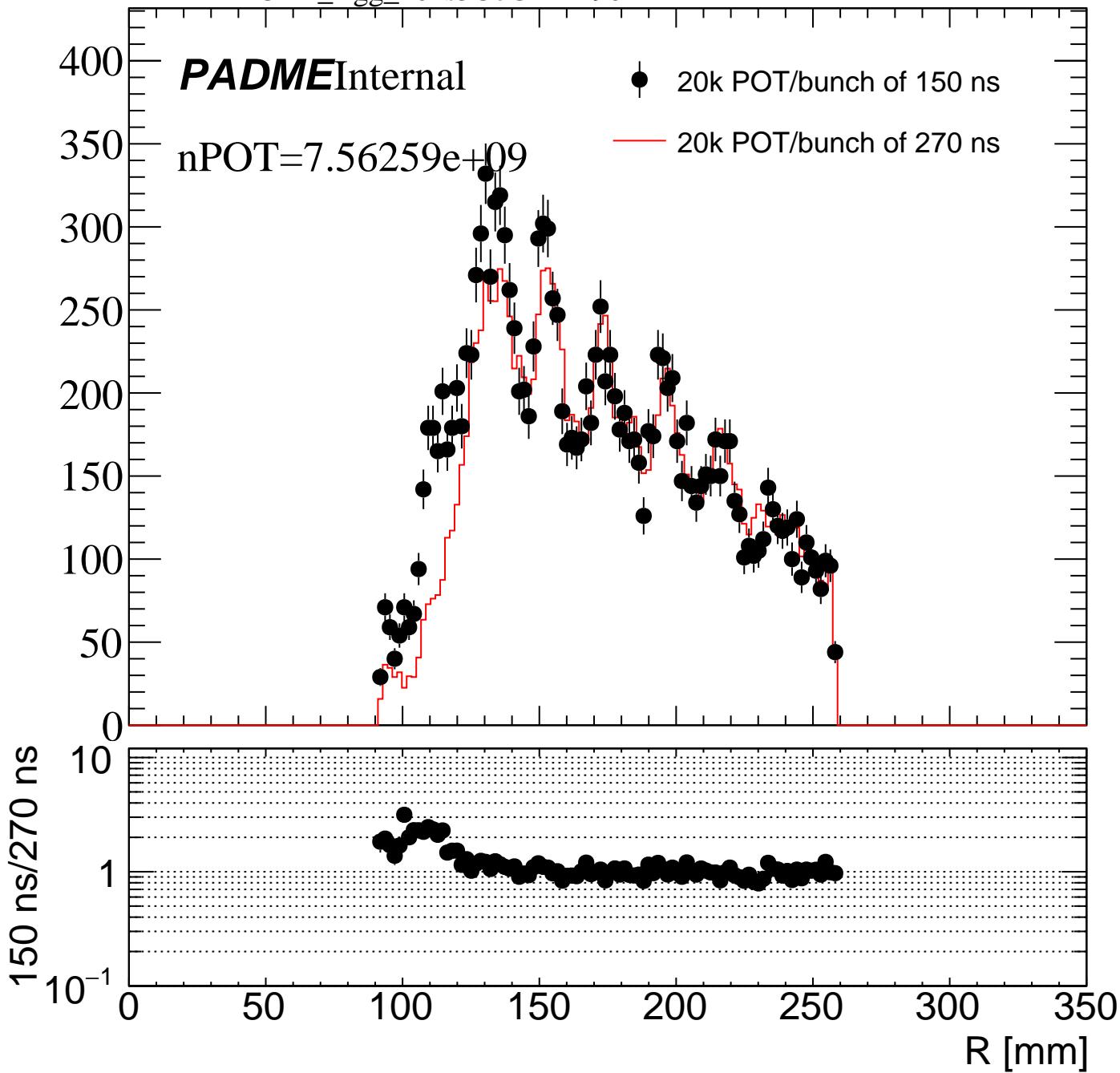
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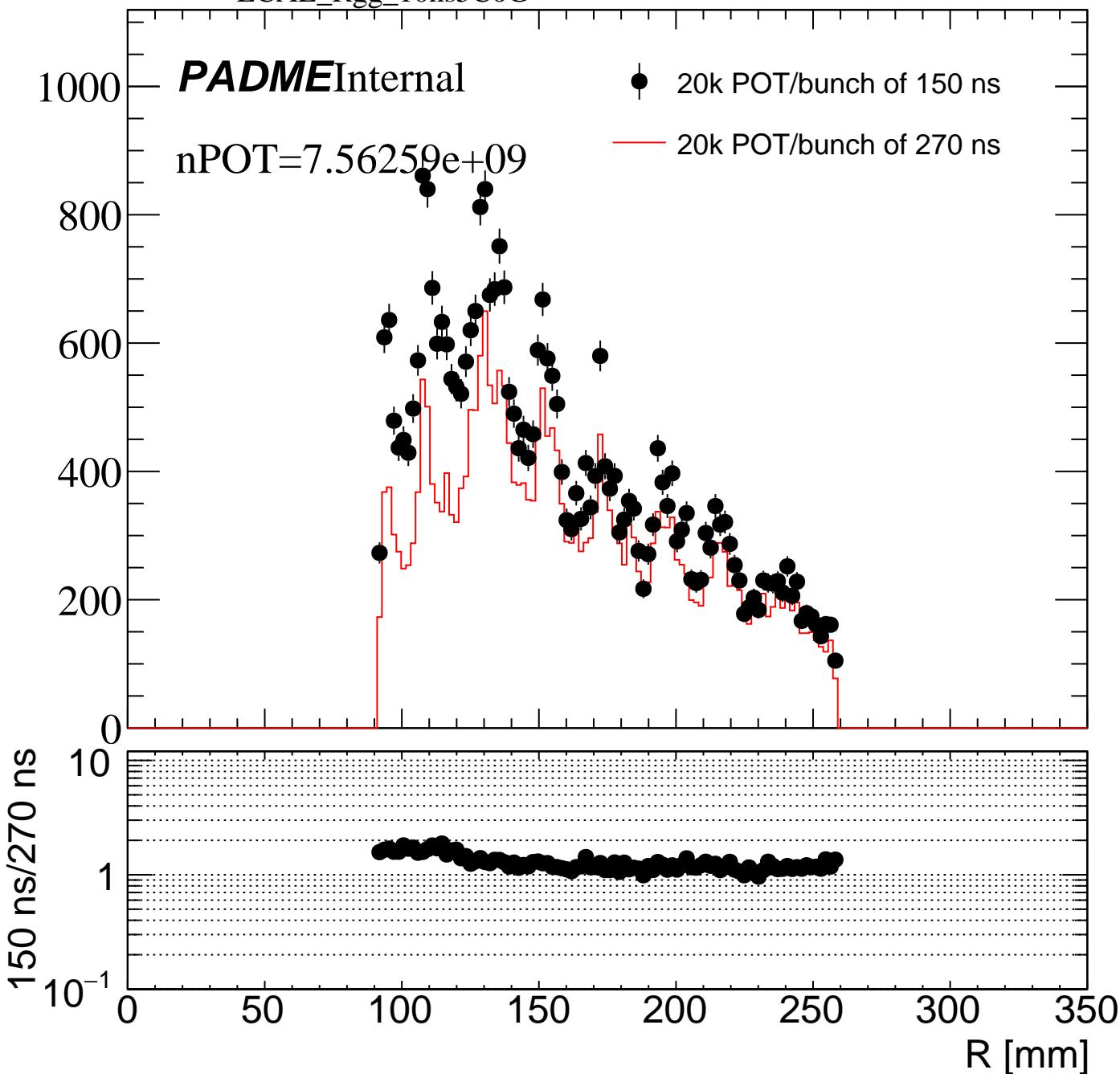
ECAL\_Rgg\_10ns3CoGUnderPeakEThr90\_FRY



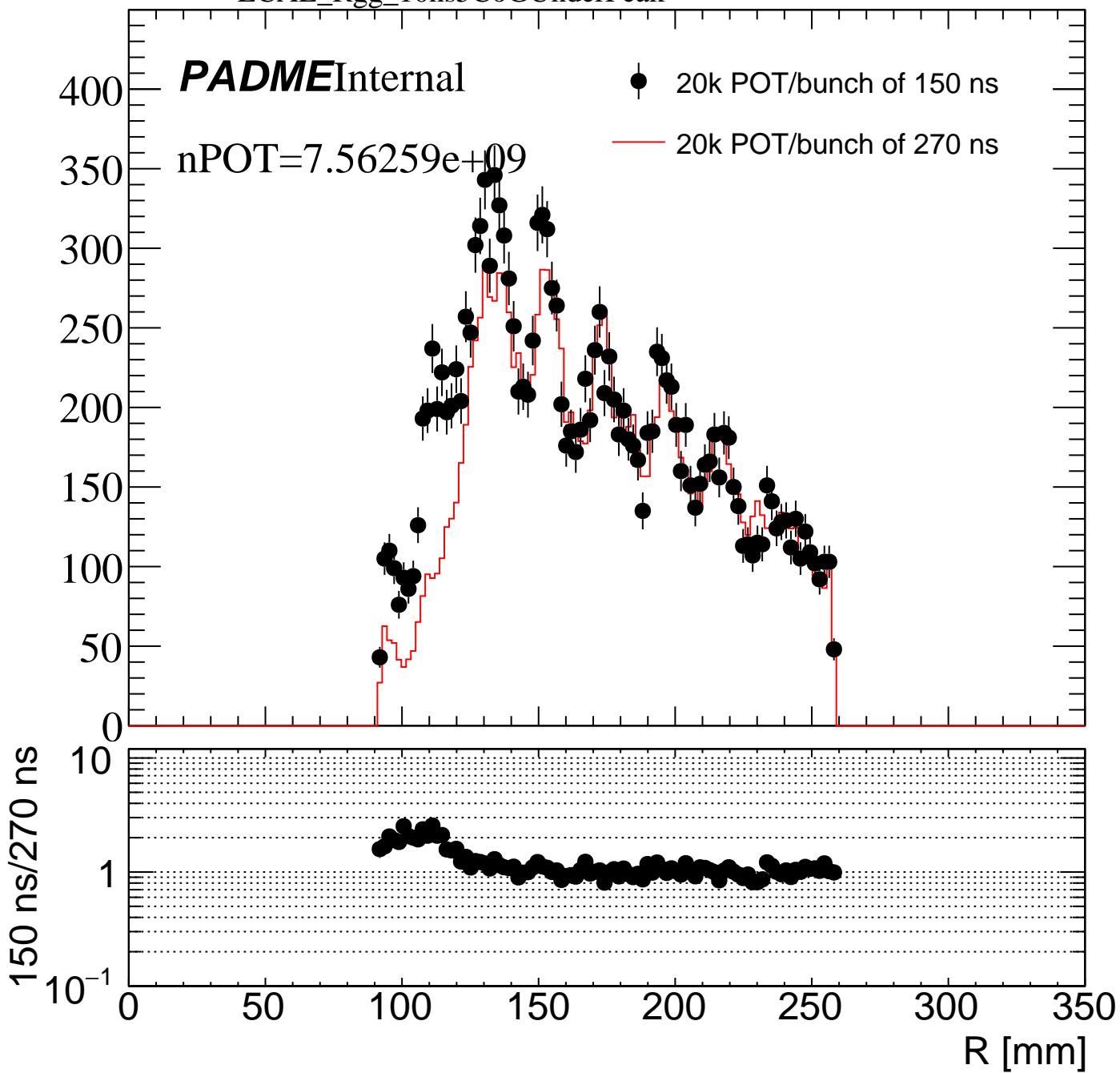
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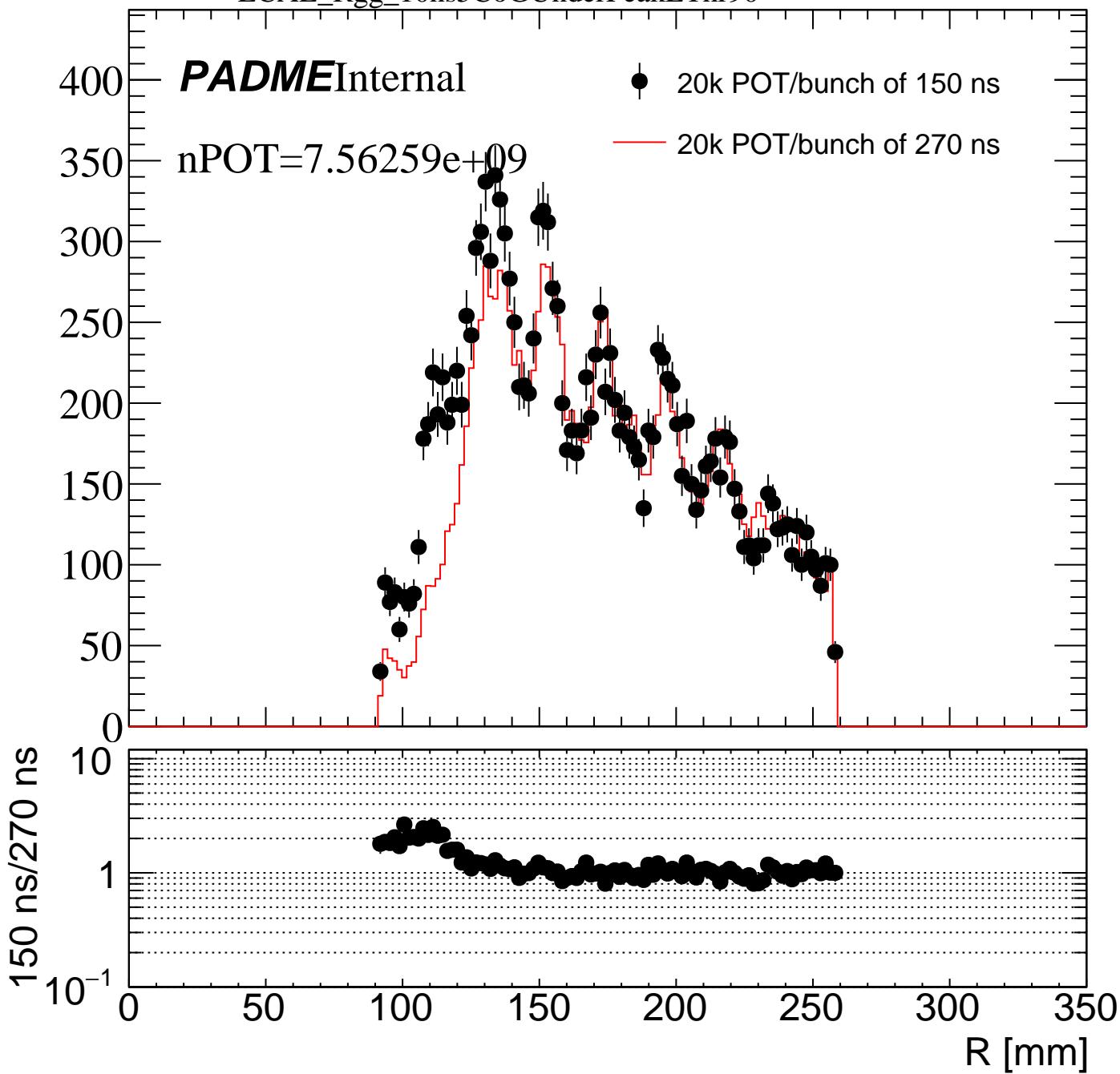
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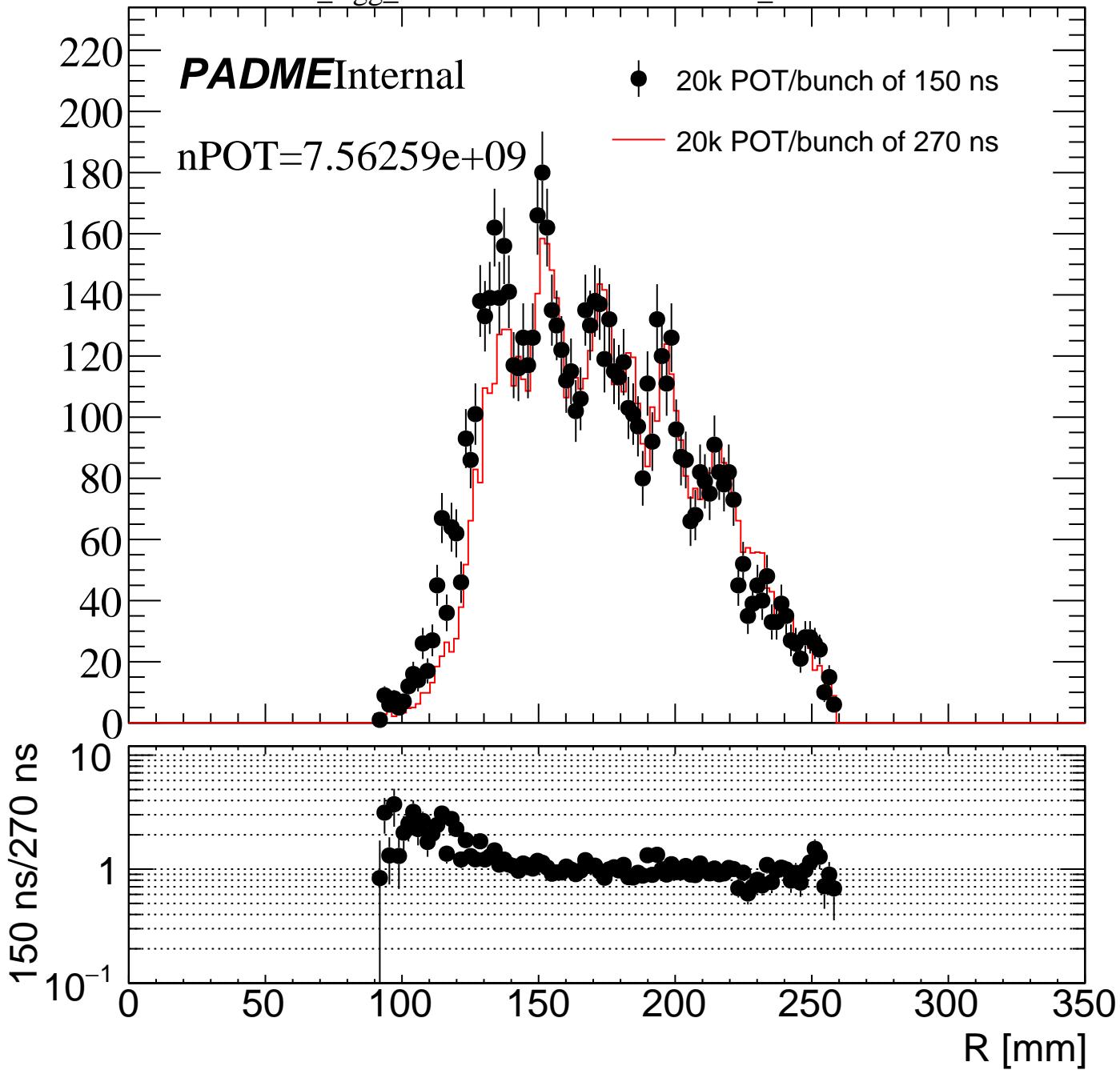
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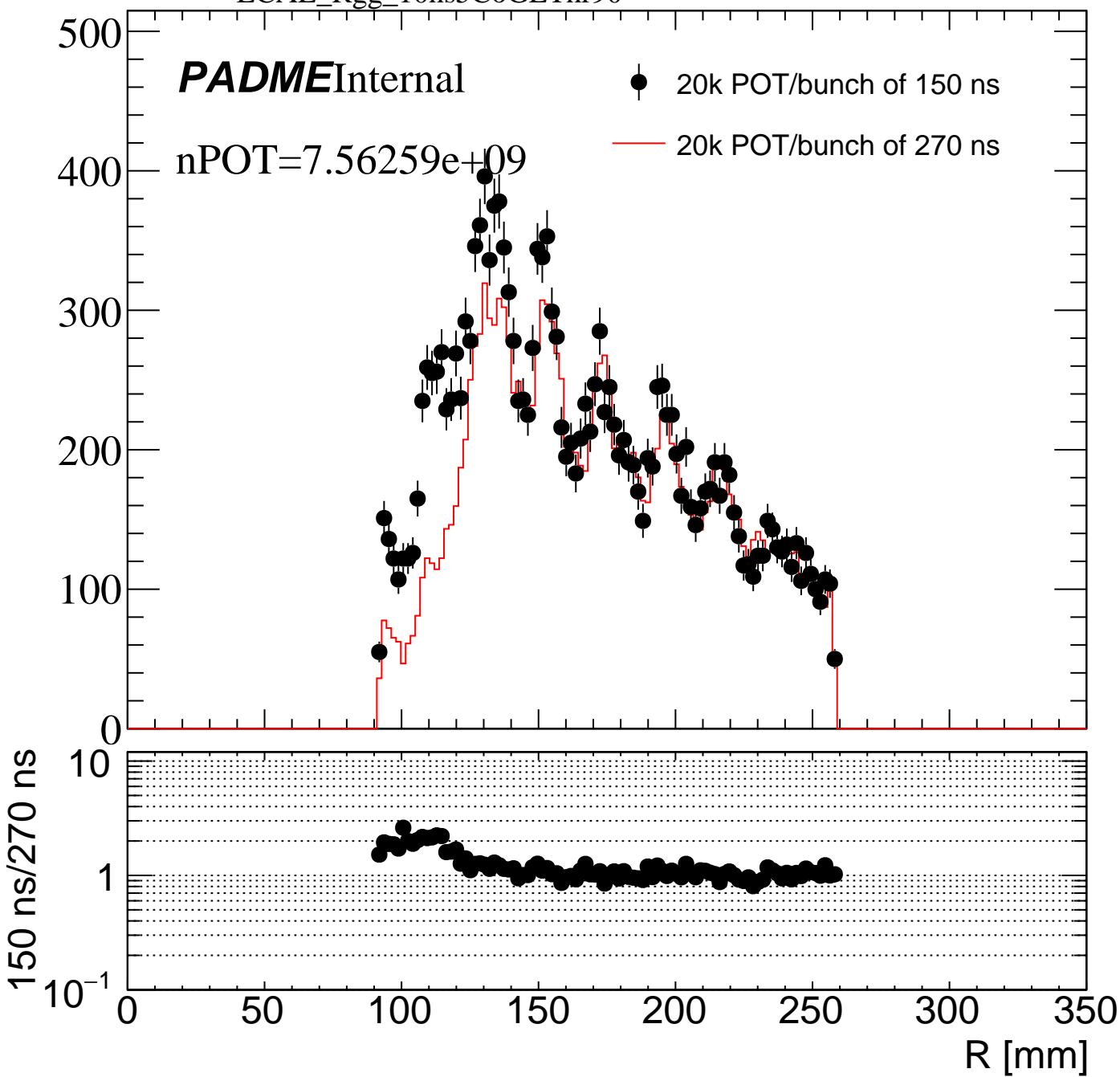
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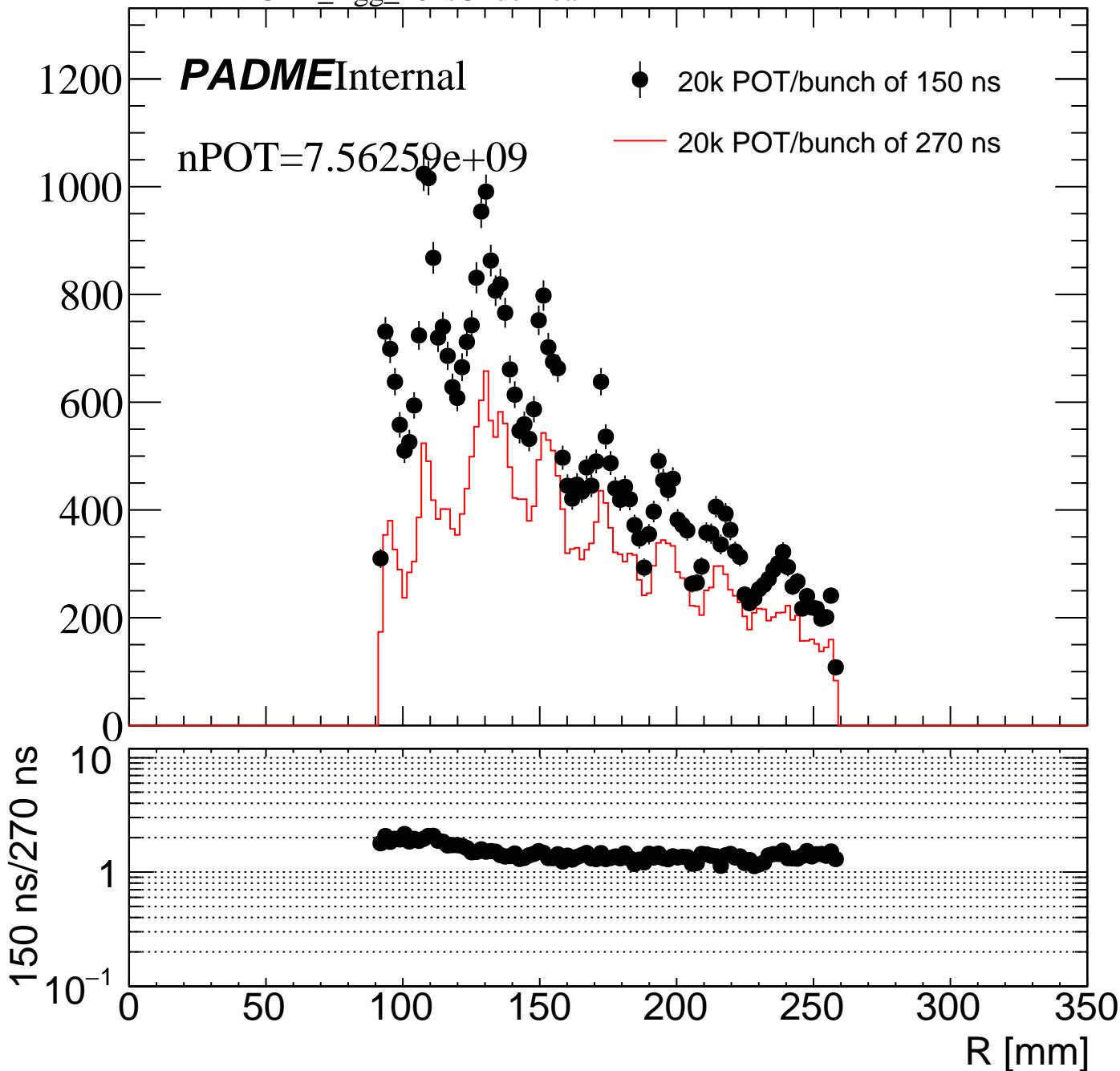
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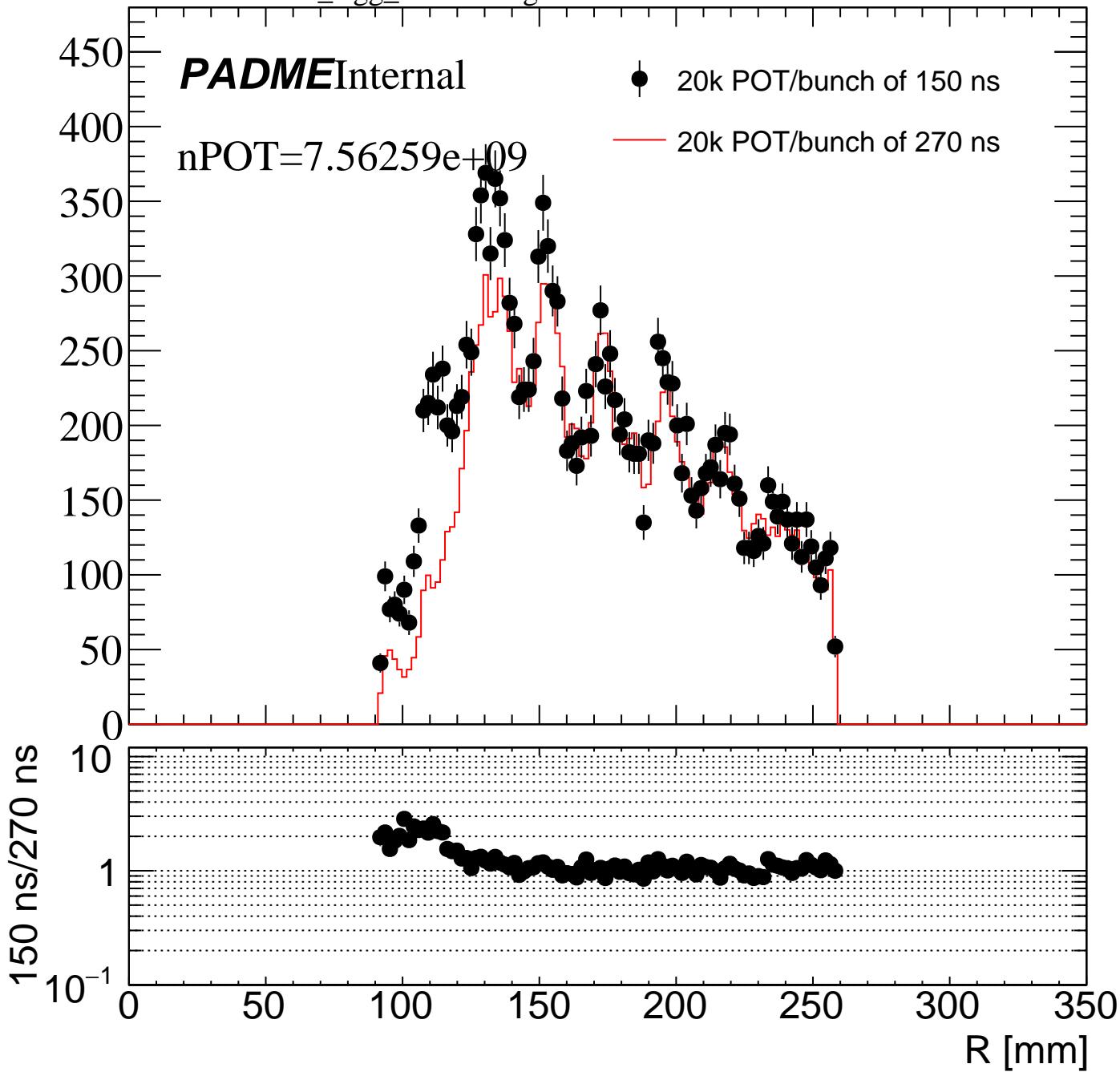
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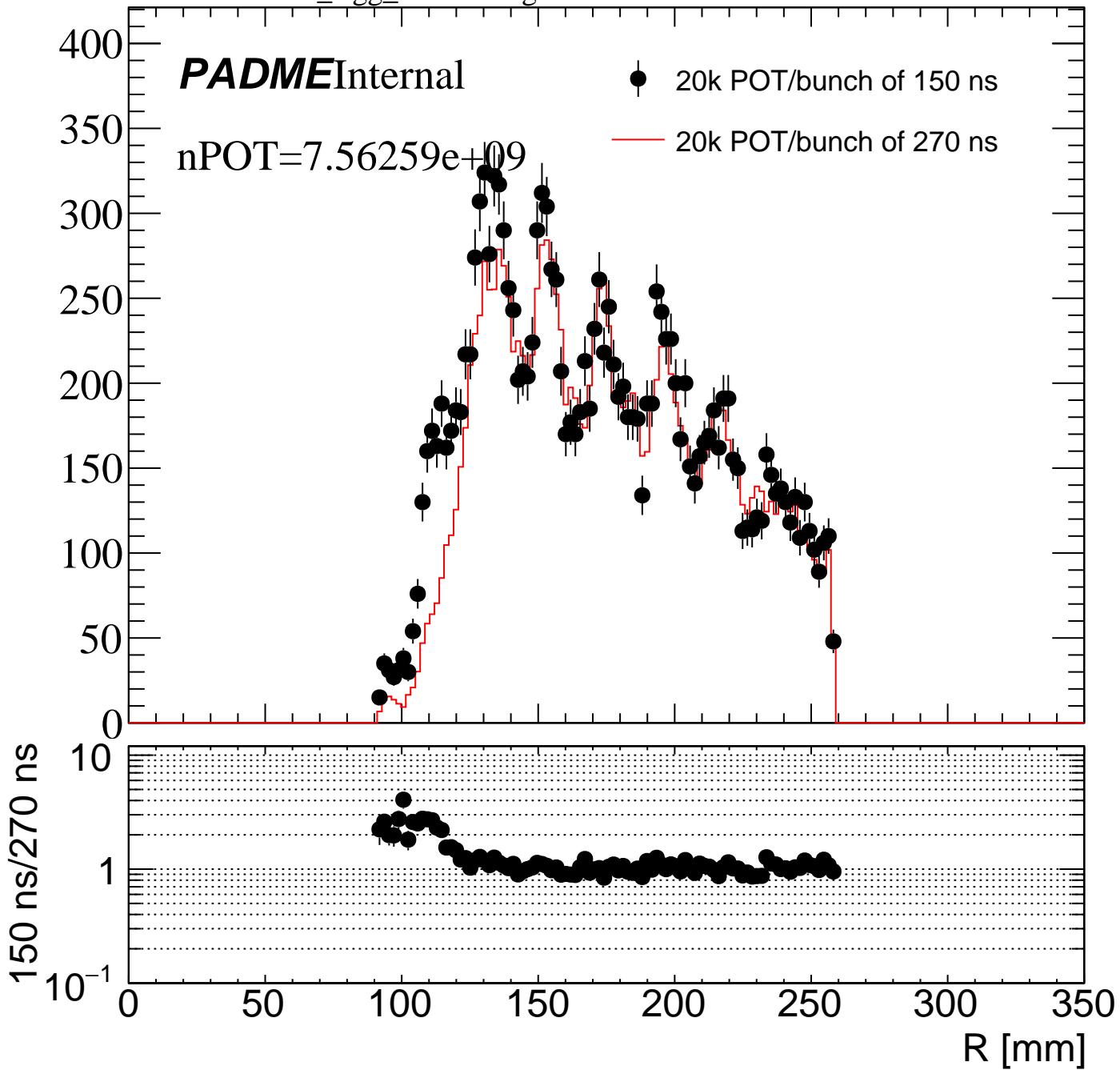
ECAL\_Rgg\_10nsUnderPeak



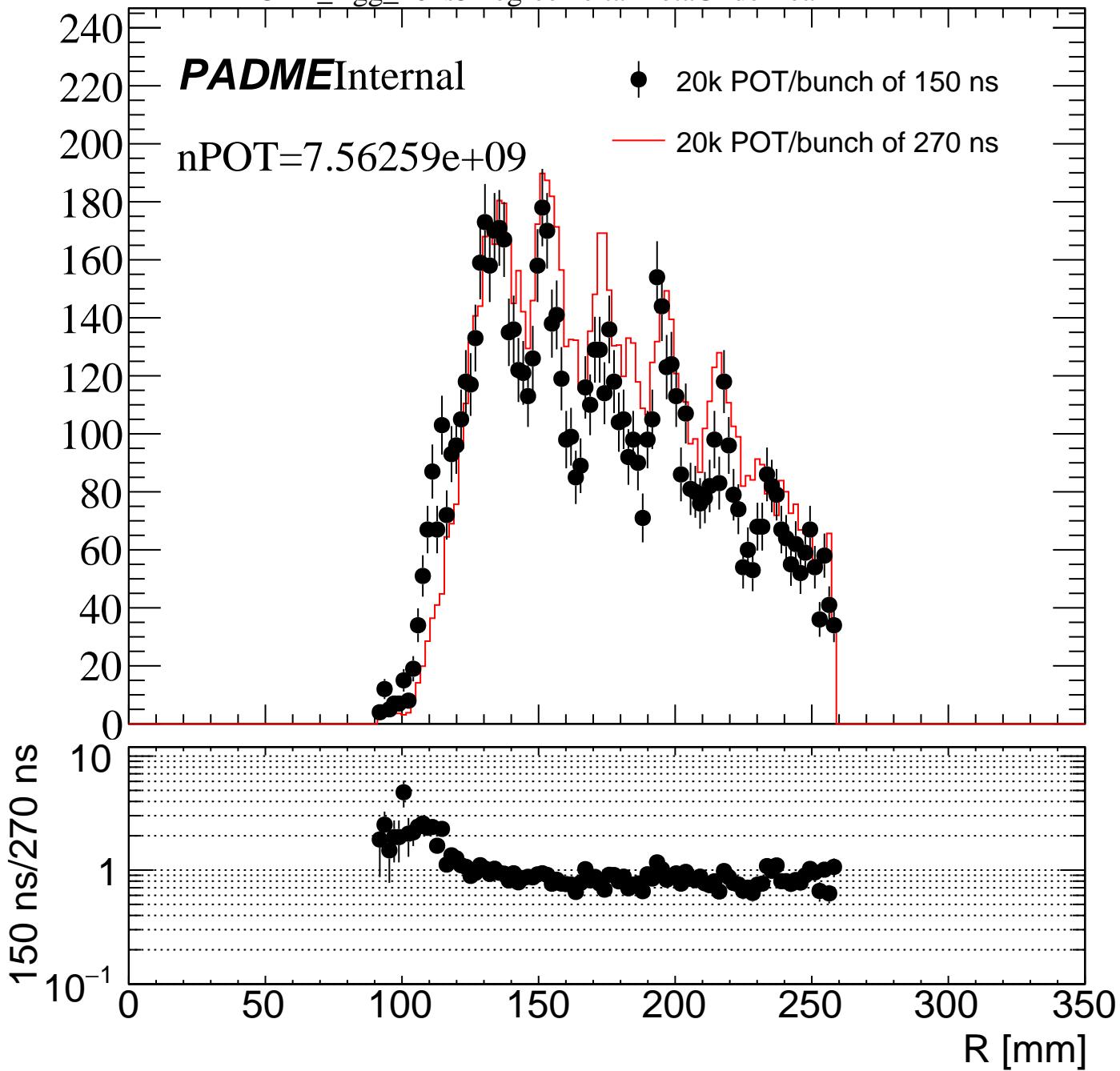
ECAL\_Rgg\_10ns20DegreeUnderPeak



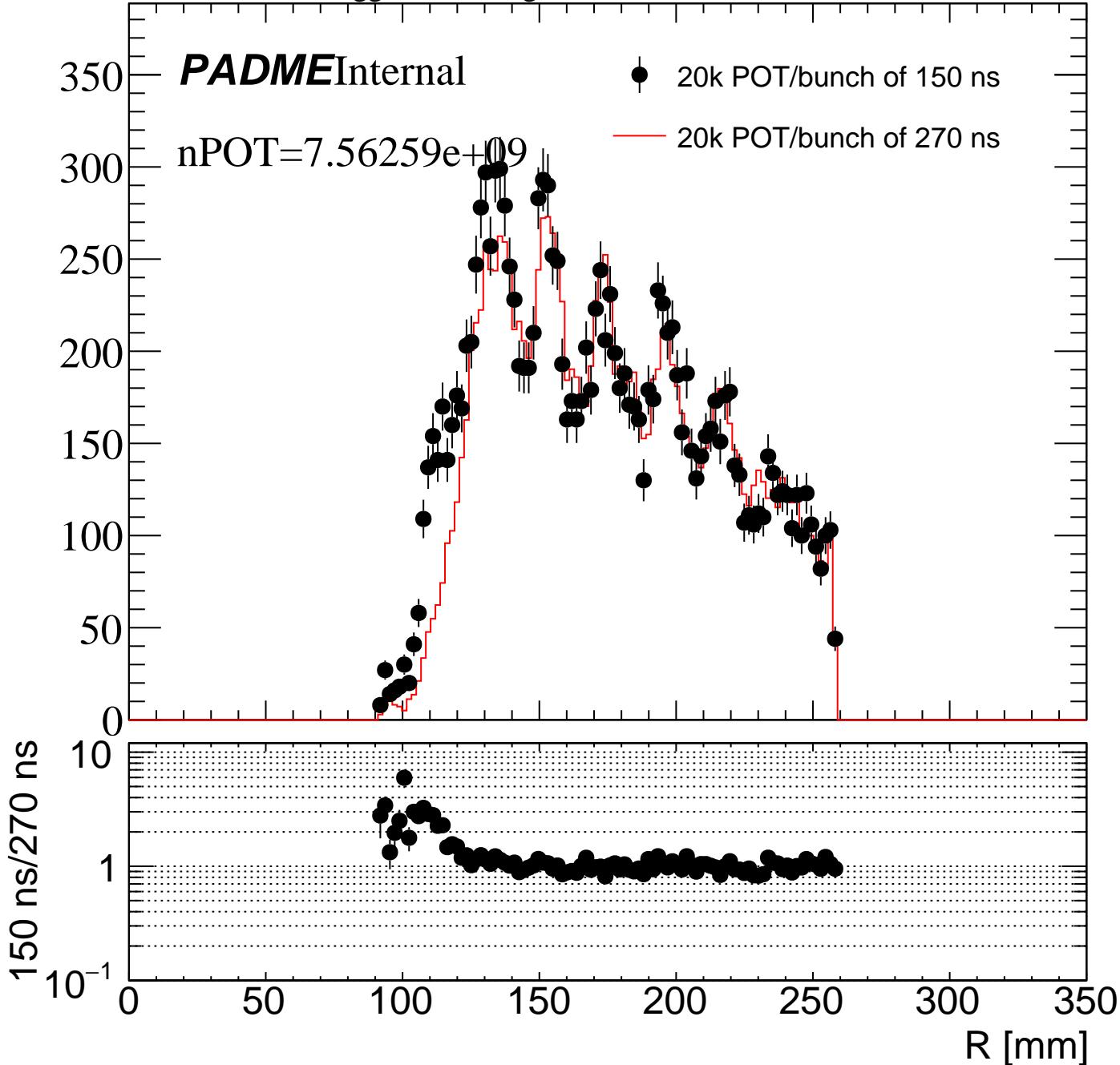
ECAL\_Rgg\_10ns20DegreeDeltaThetaUnderPeak

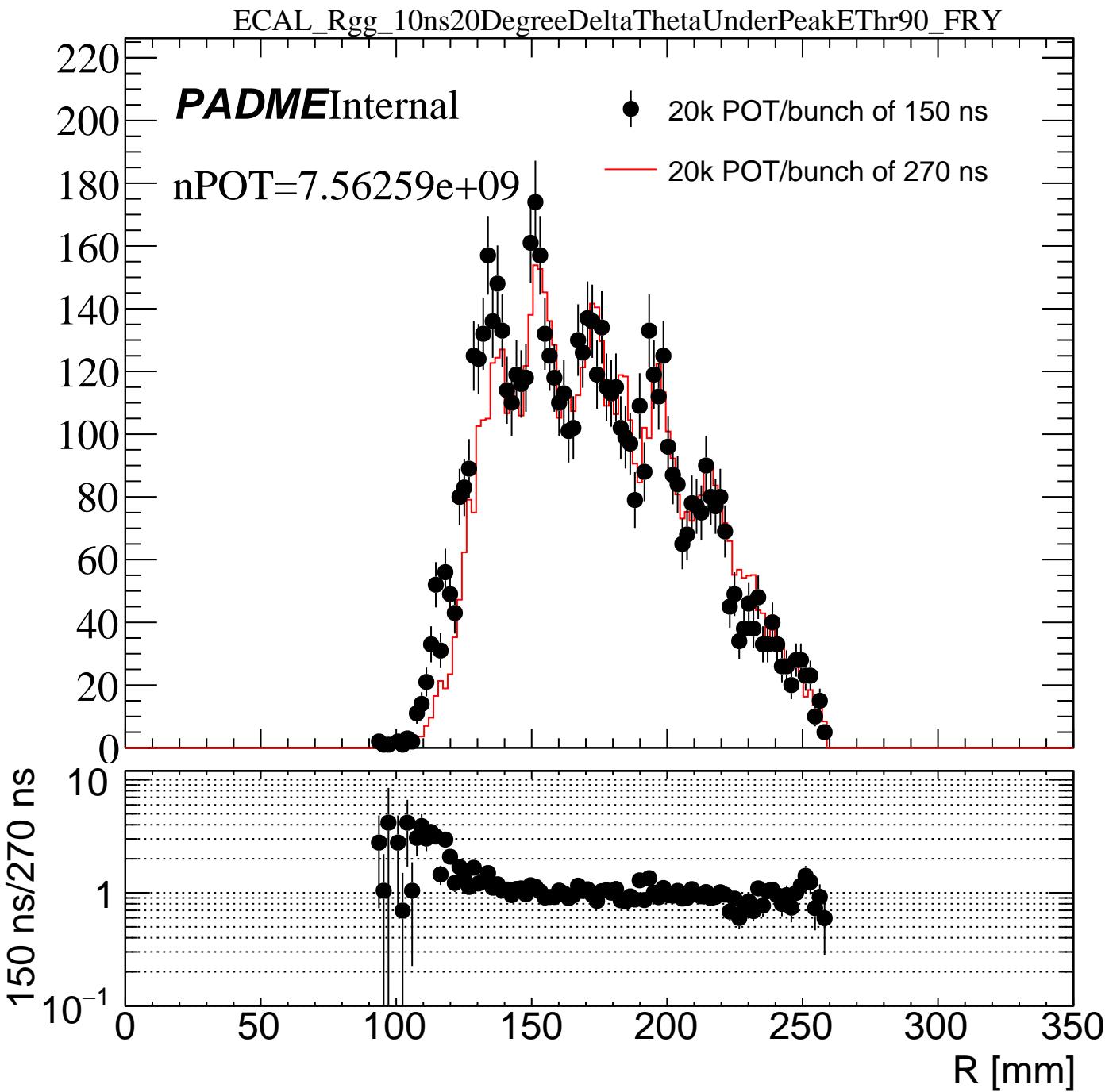


ECAL\_Rgg\_10ns5DegreeDeltaThetaUnderPeak

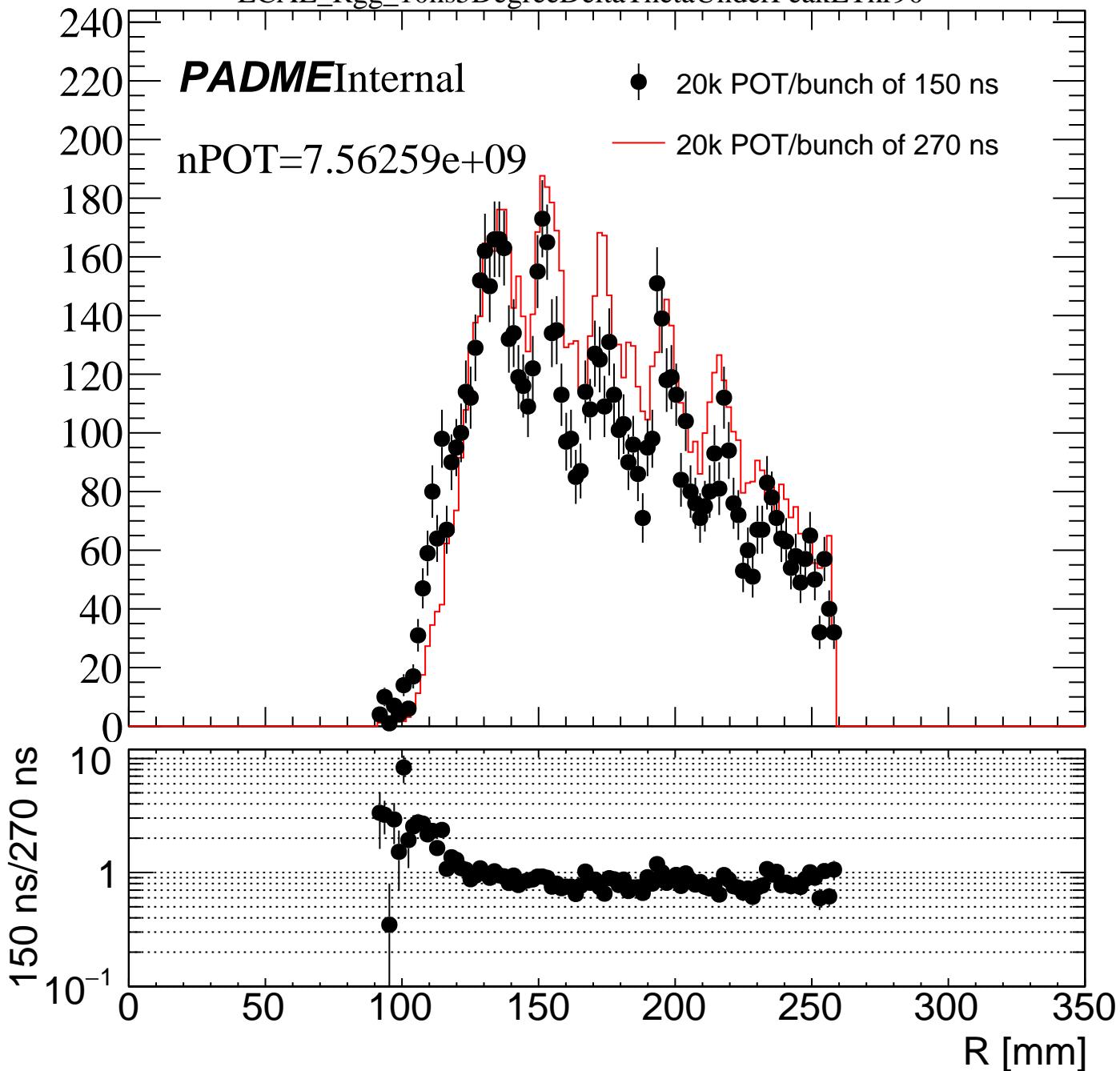


## ECAL\_Rgg\_10ns20DegreeDeltaThetaUnderPeakEThr90

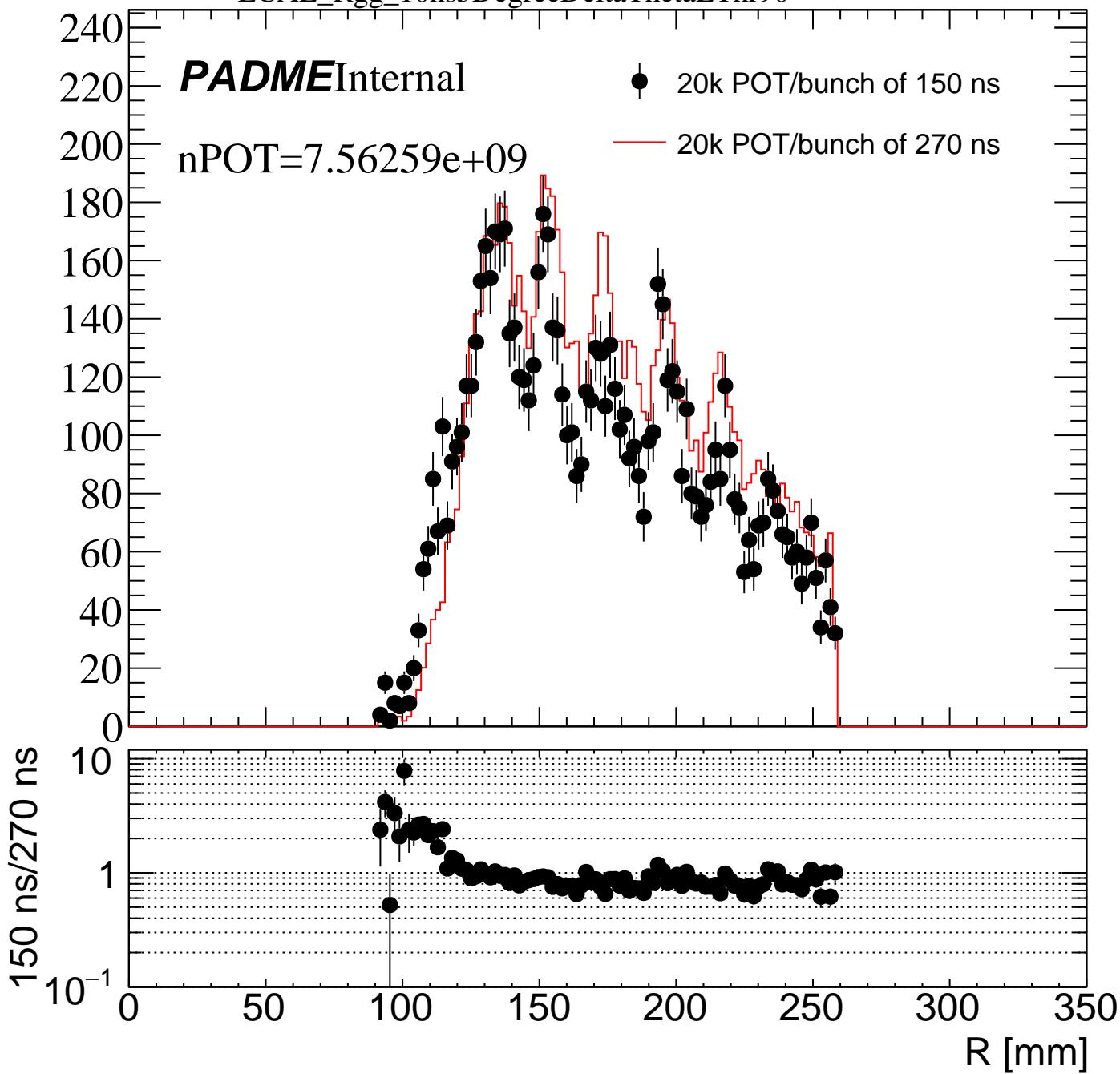




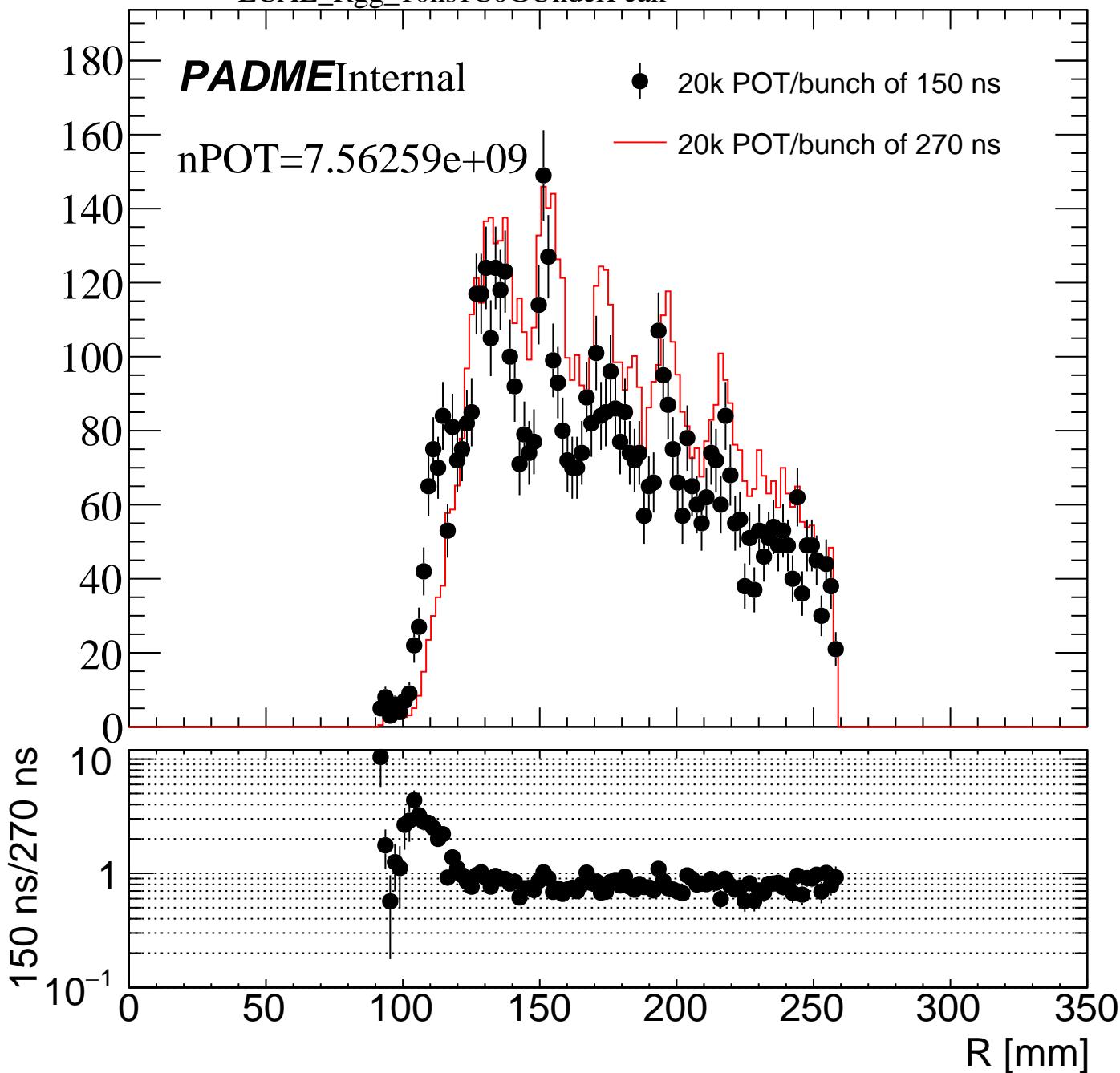
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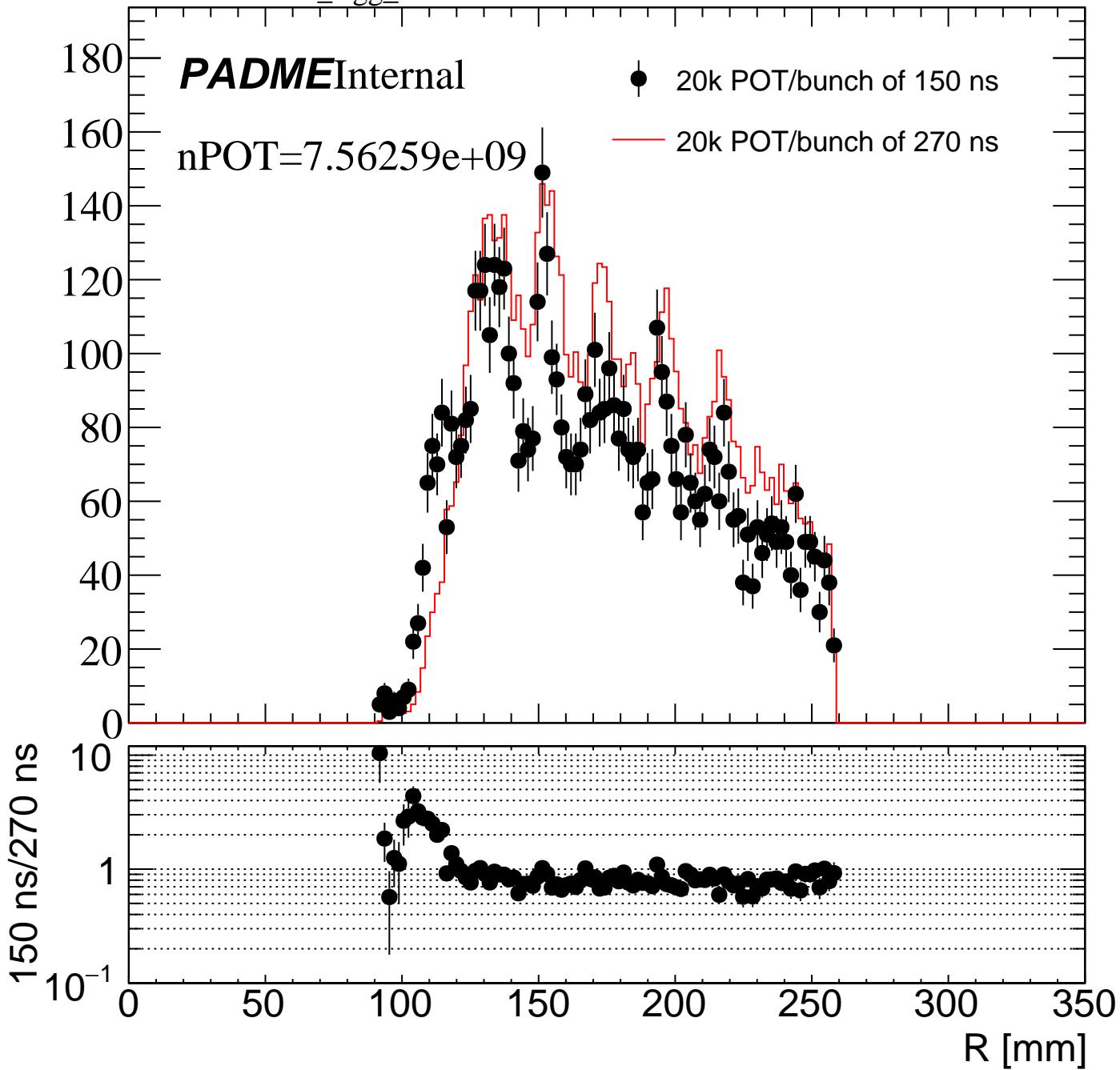
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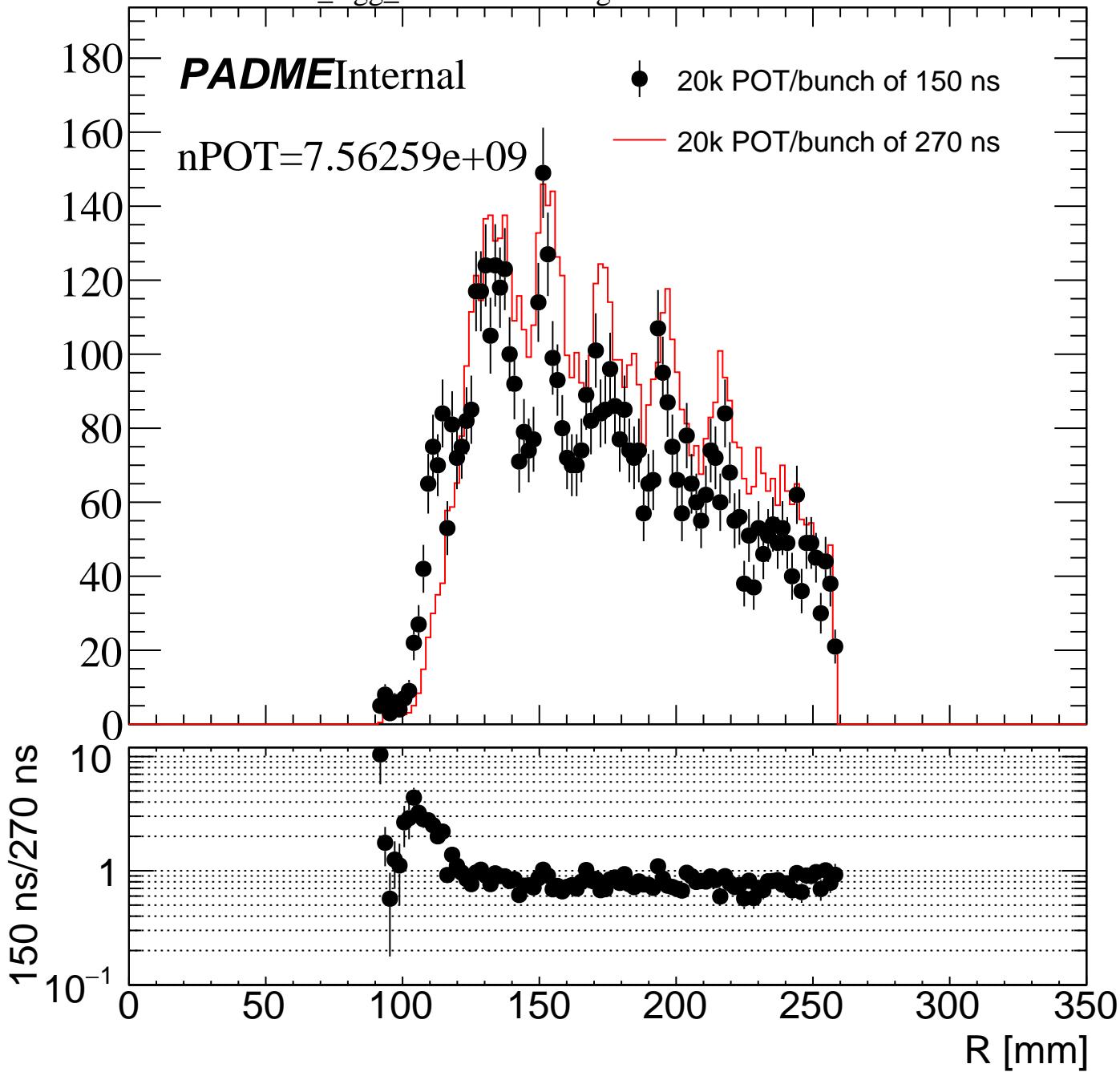
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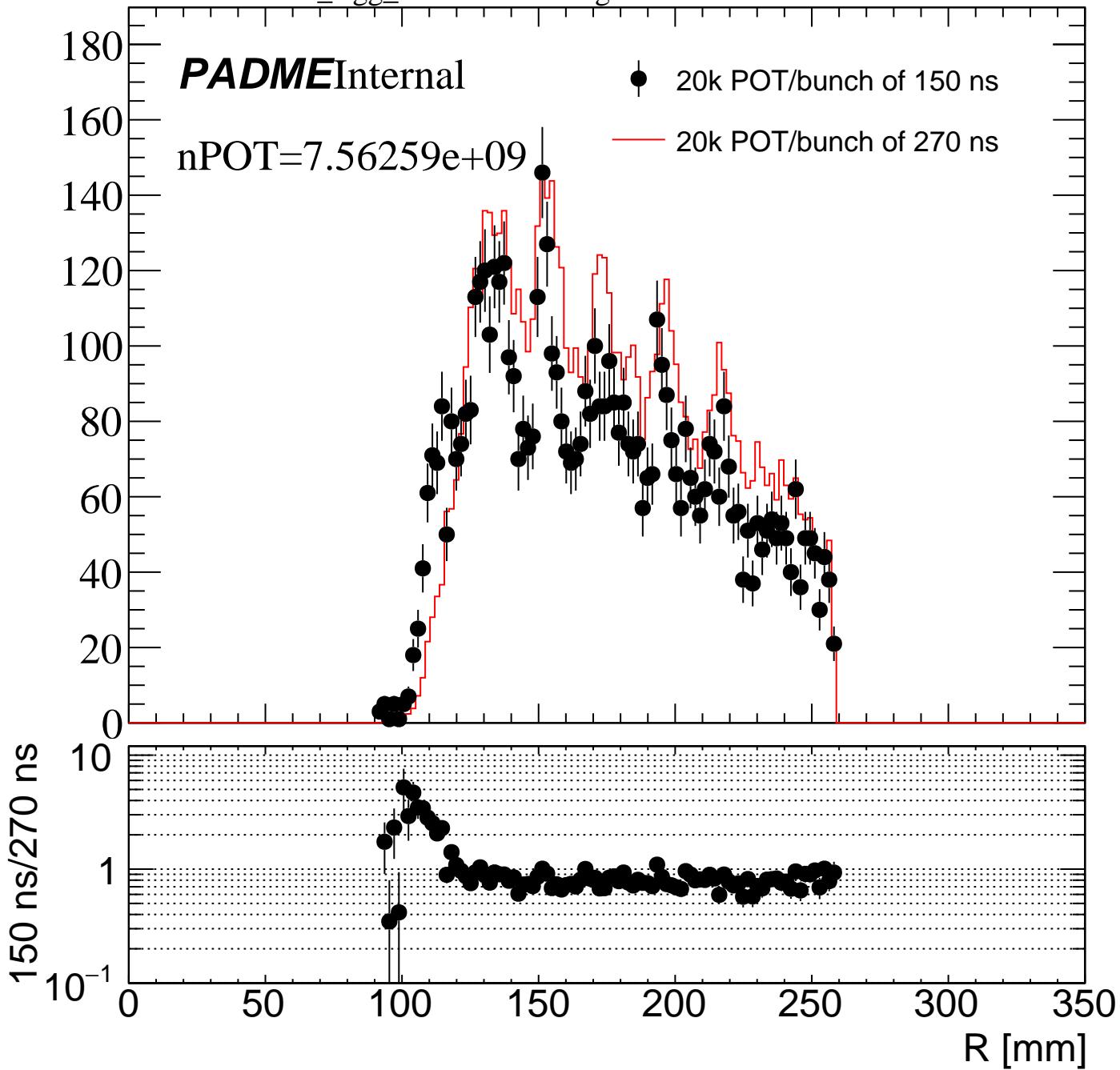
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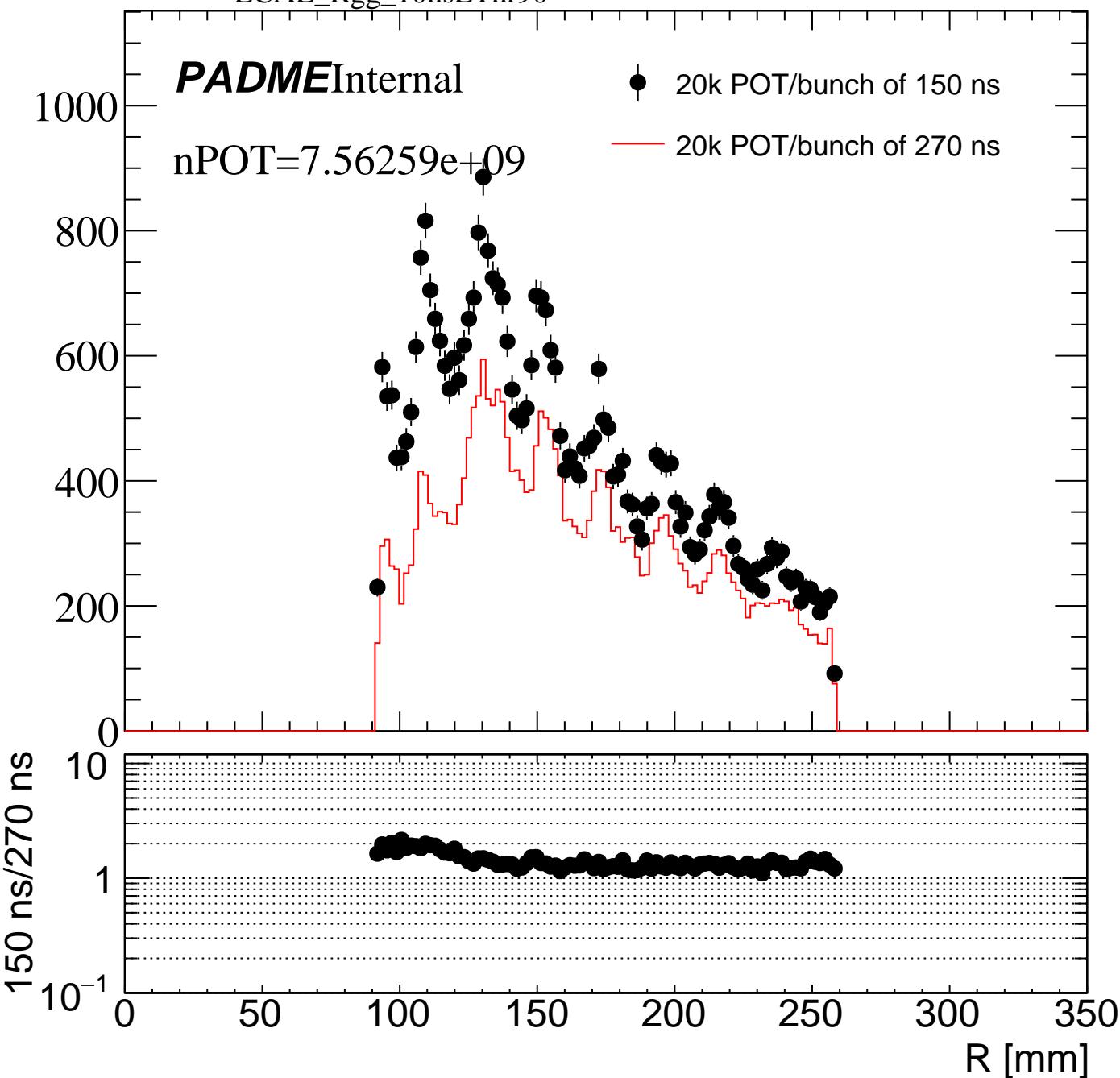
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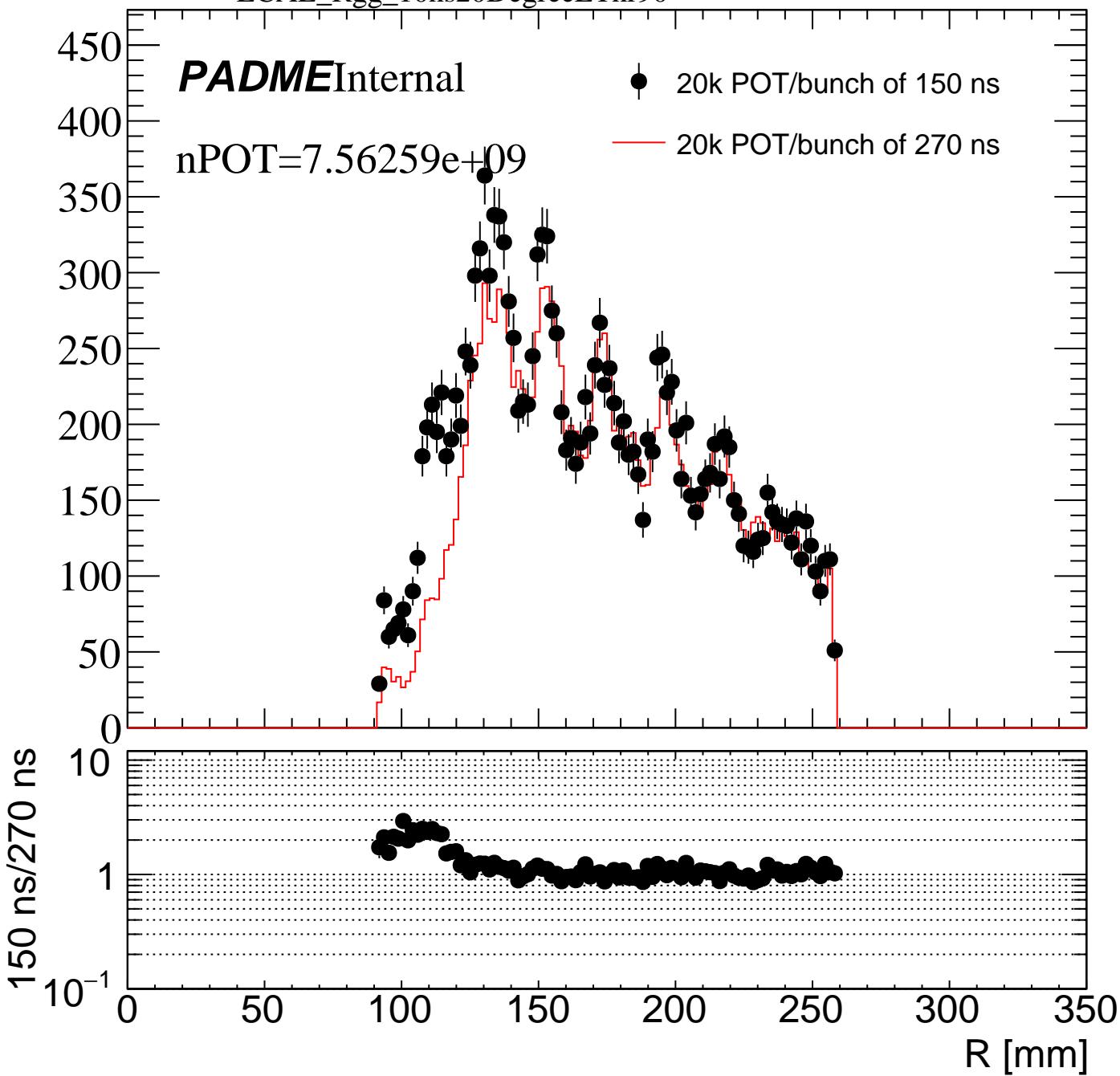
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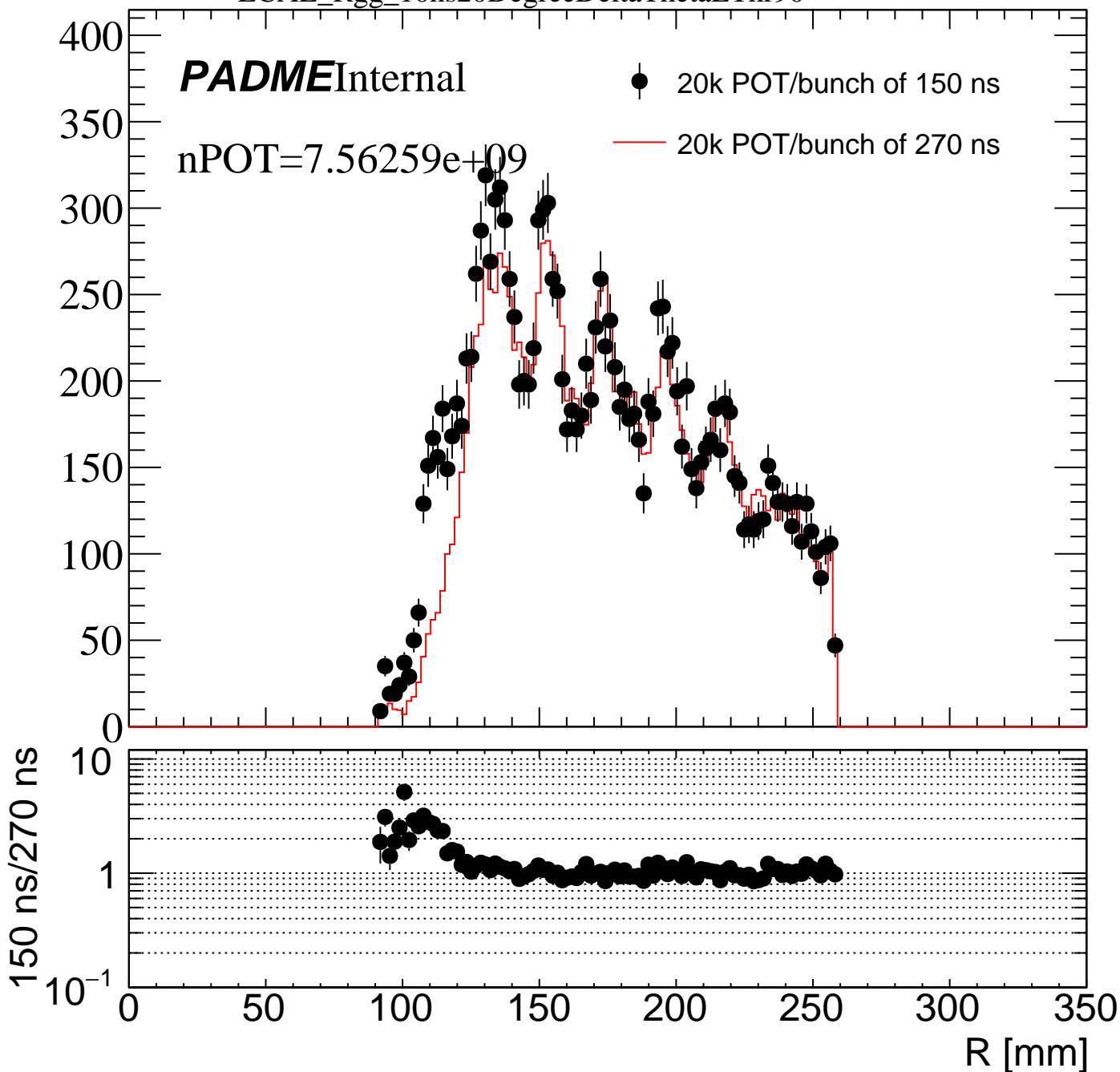
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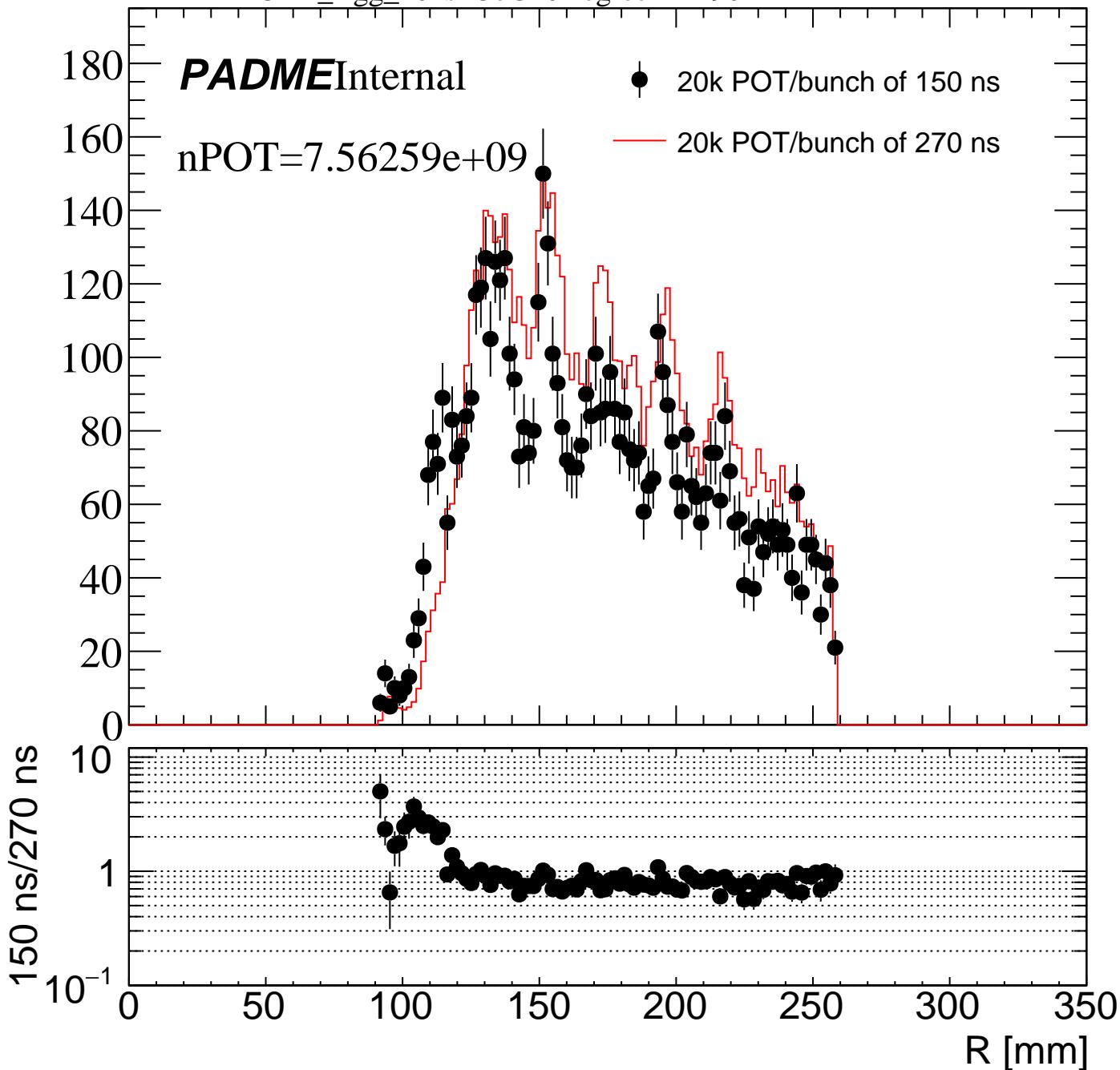
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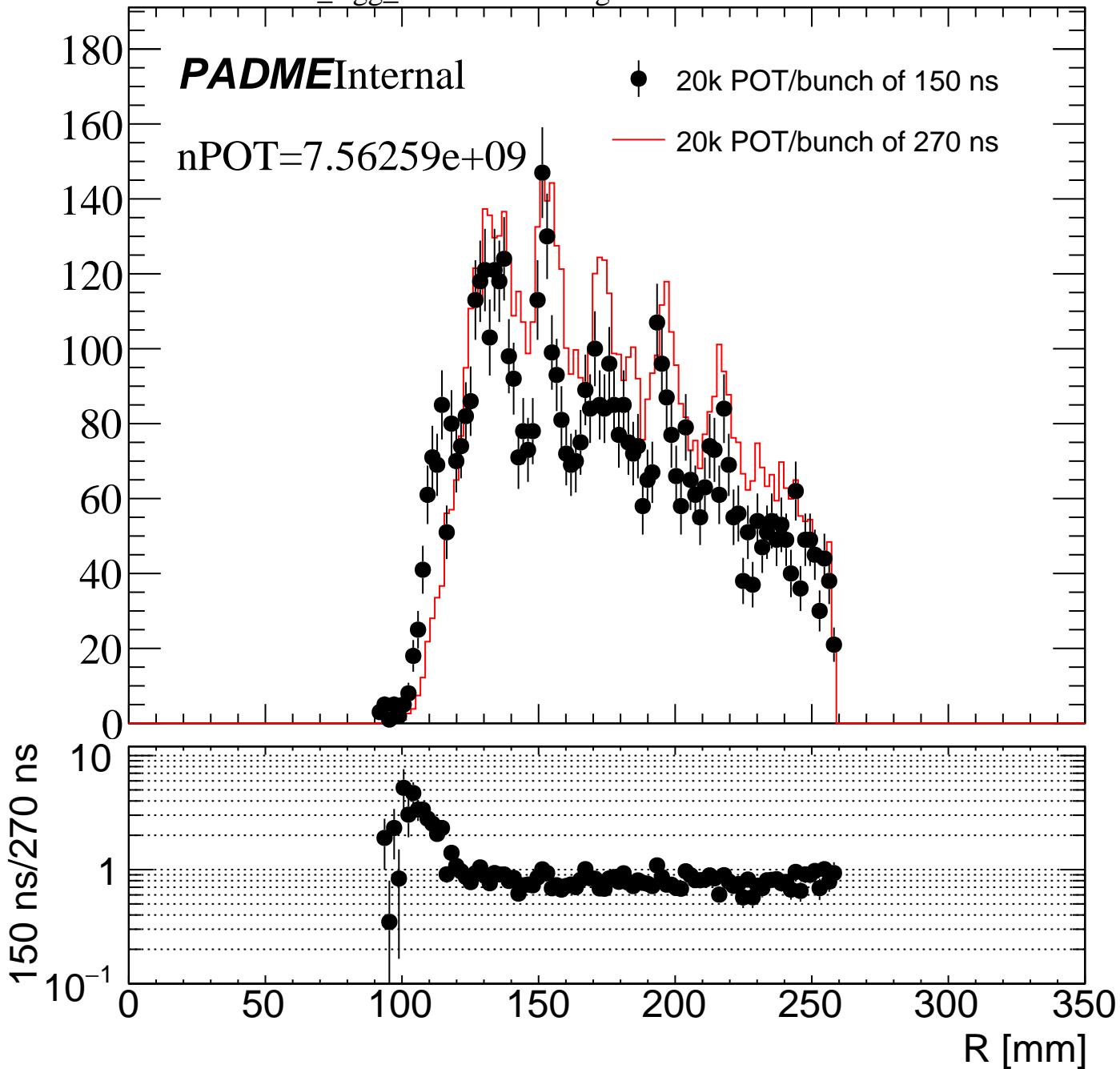
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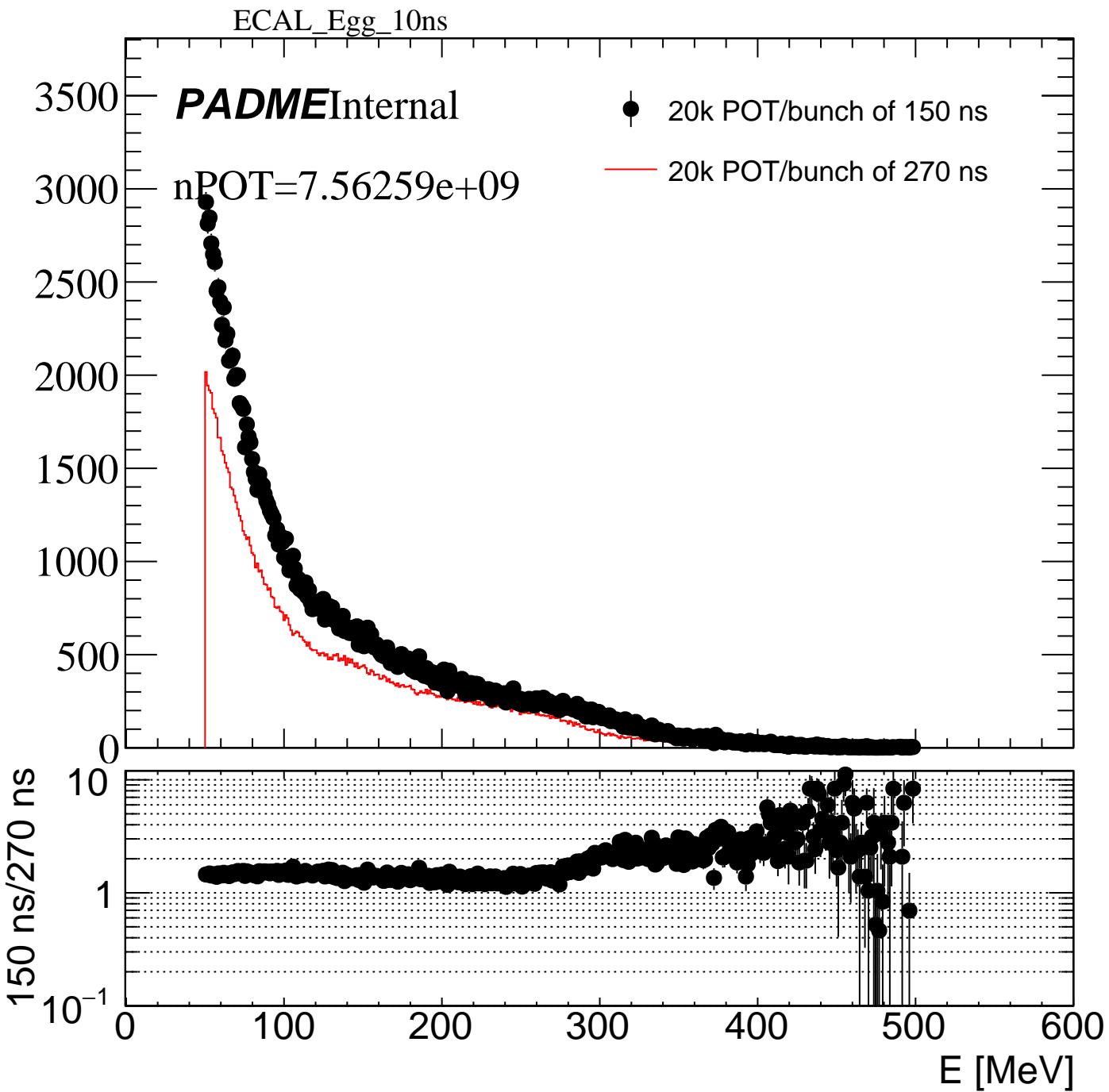


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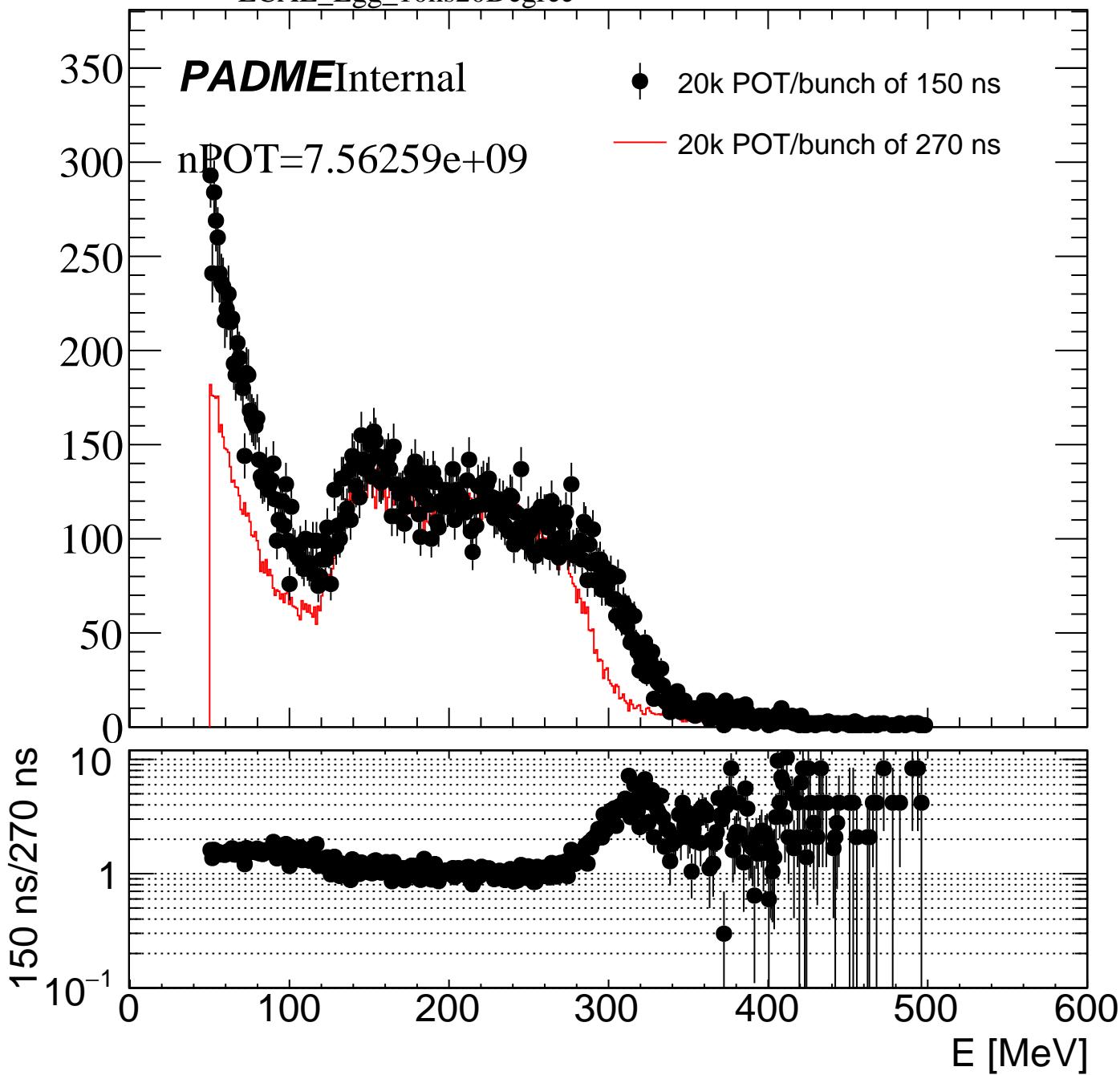


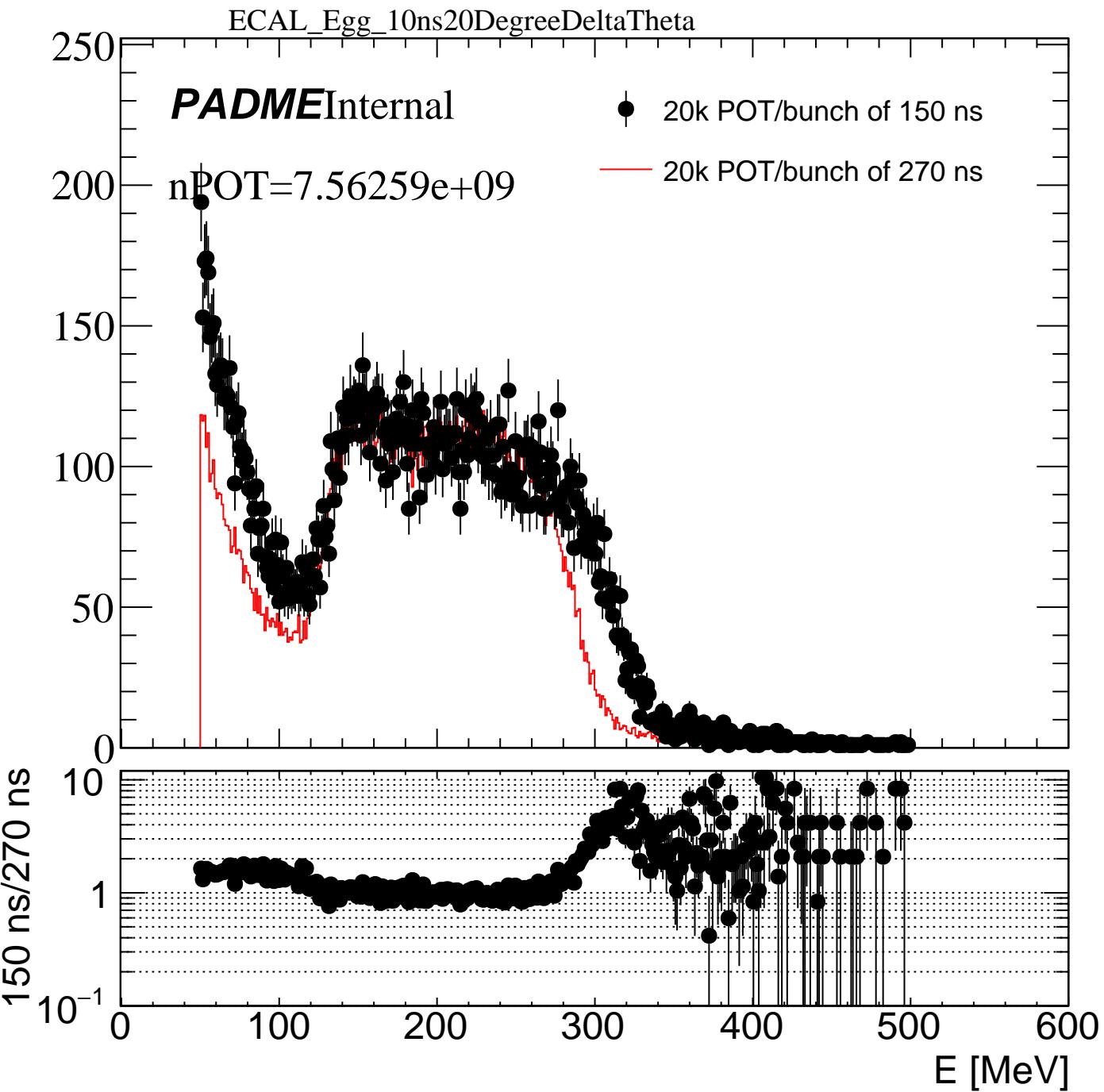
ECAL\_Rgg\_10ns1CoG20DegreeDeltaThetaETHr90



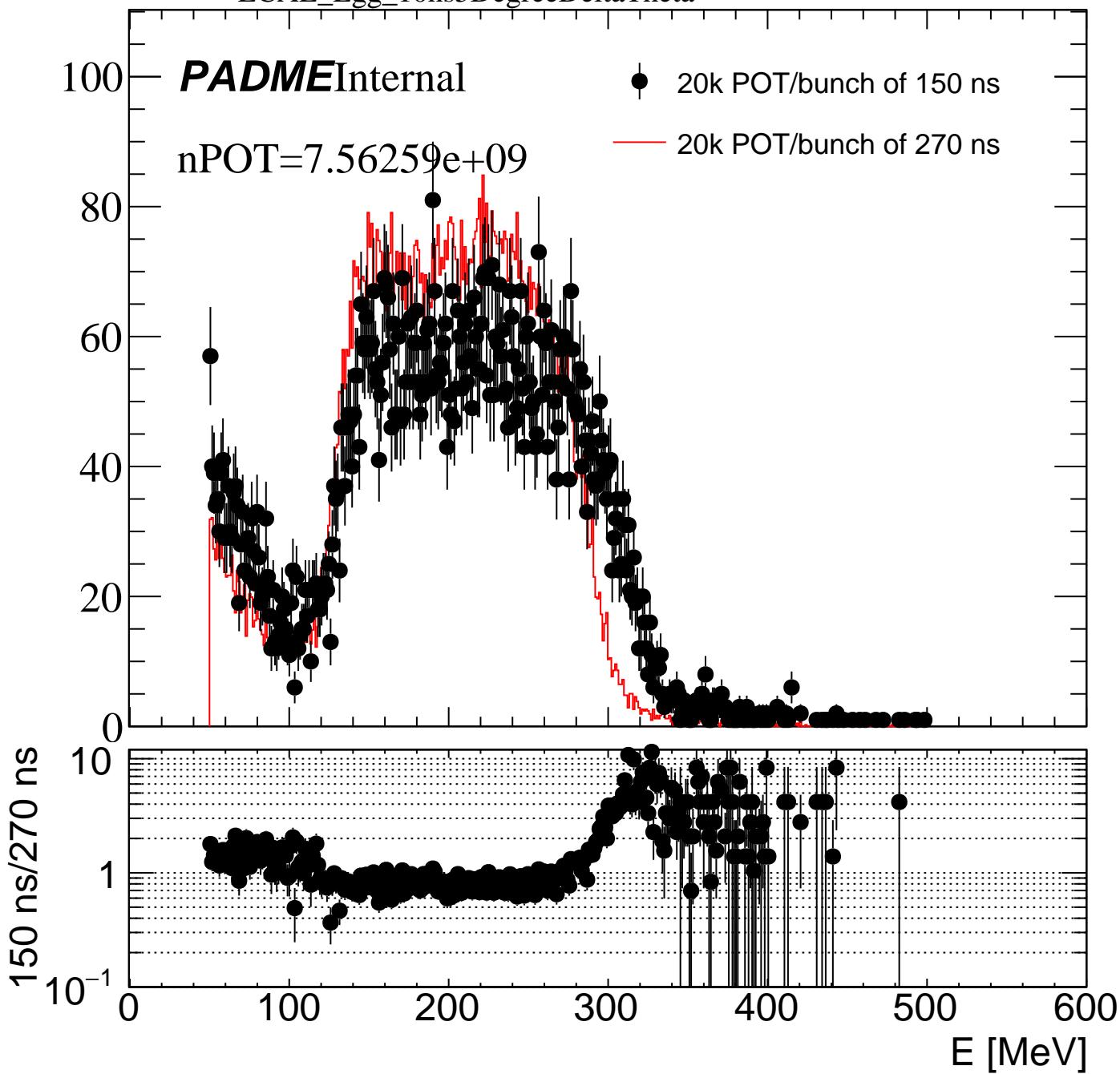


ECAL\_Egg\_10ns20Degree

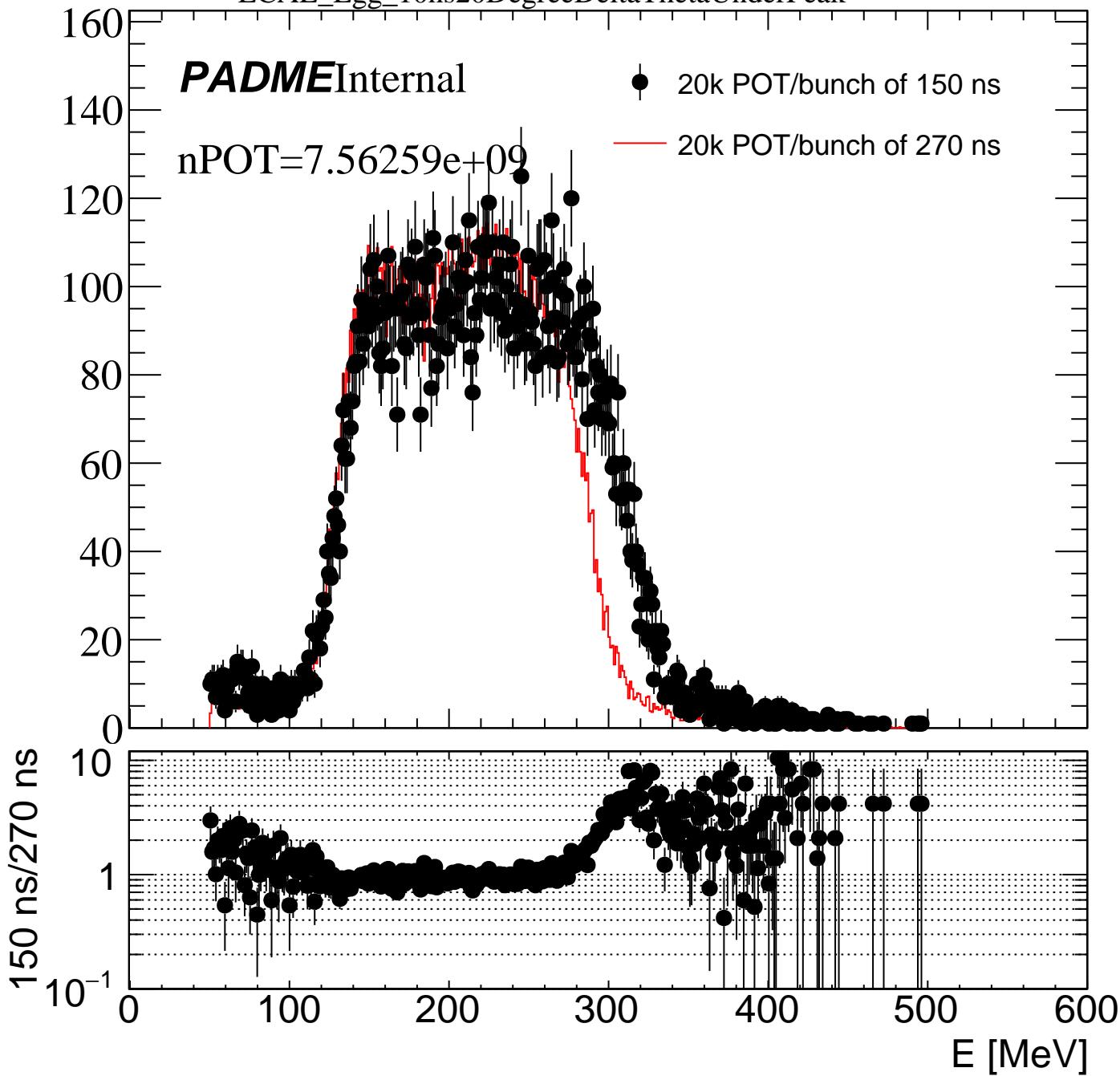




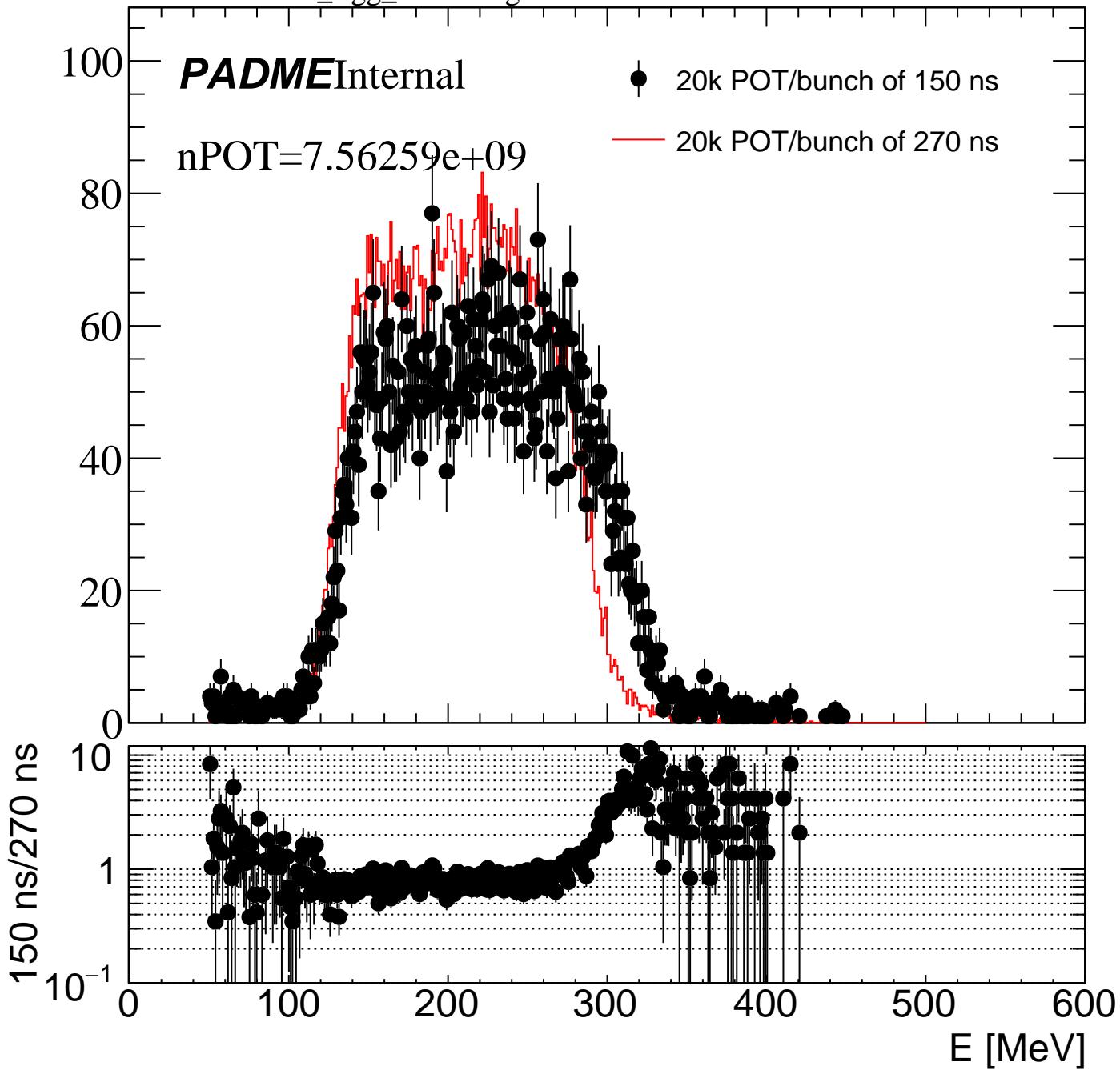
ECAL\_Egg\_10ns5DegreeDeltaTheta

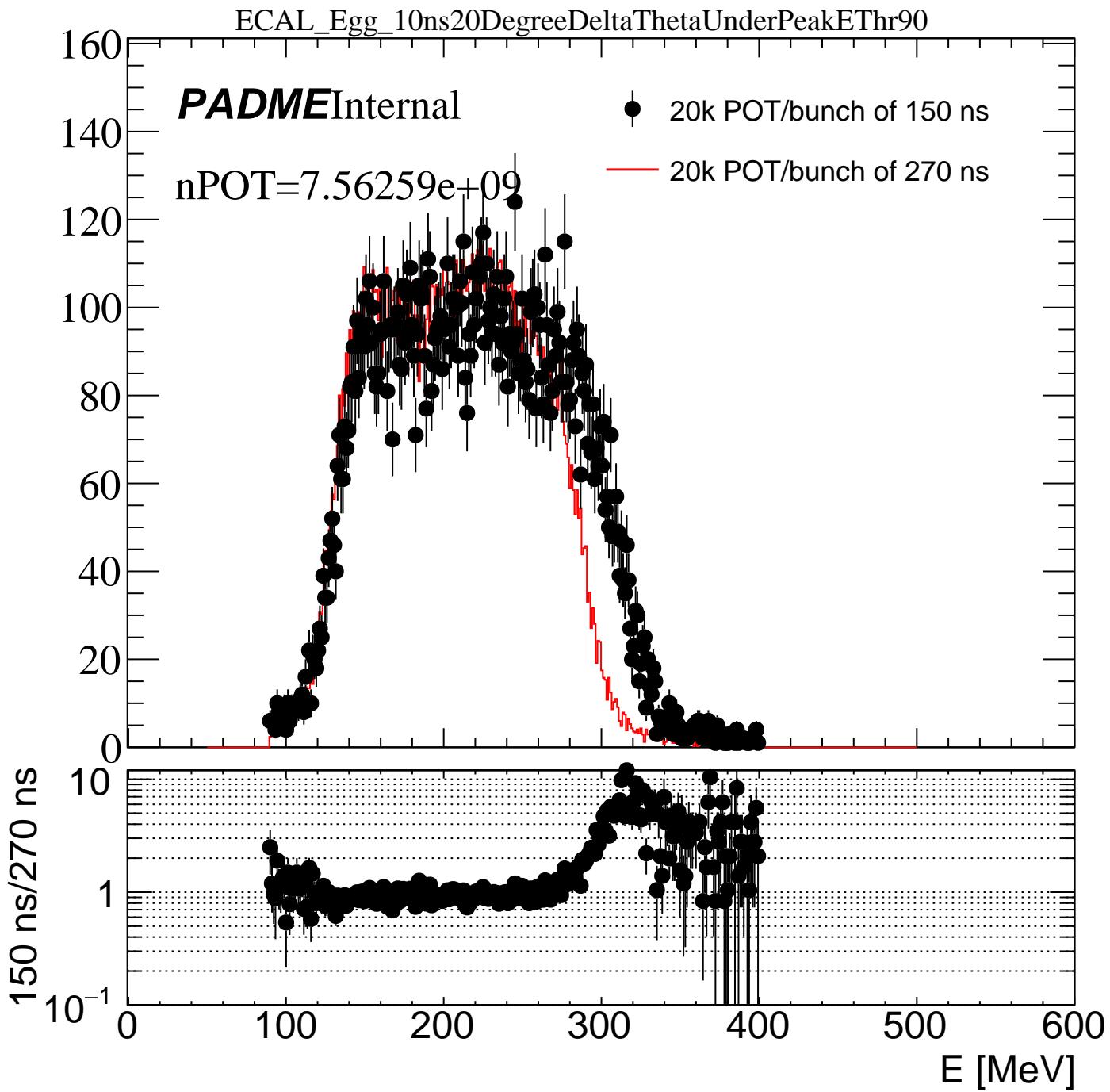


ECAL\_Egg\_10ns20DegreeDeltaThetaUnderPeak

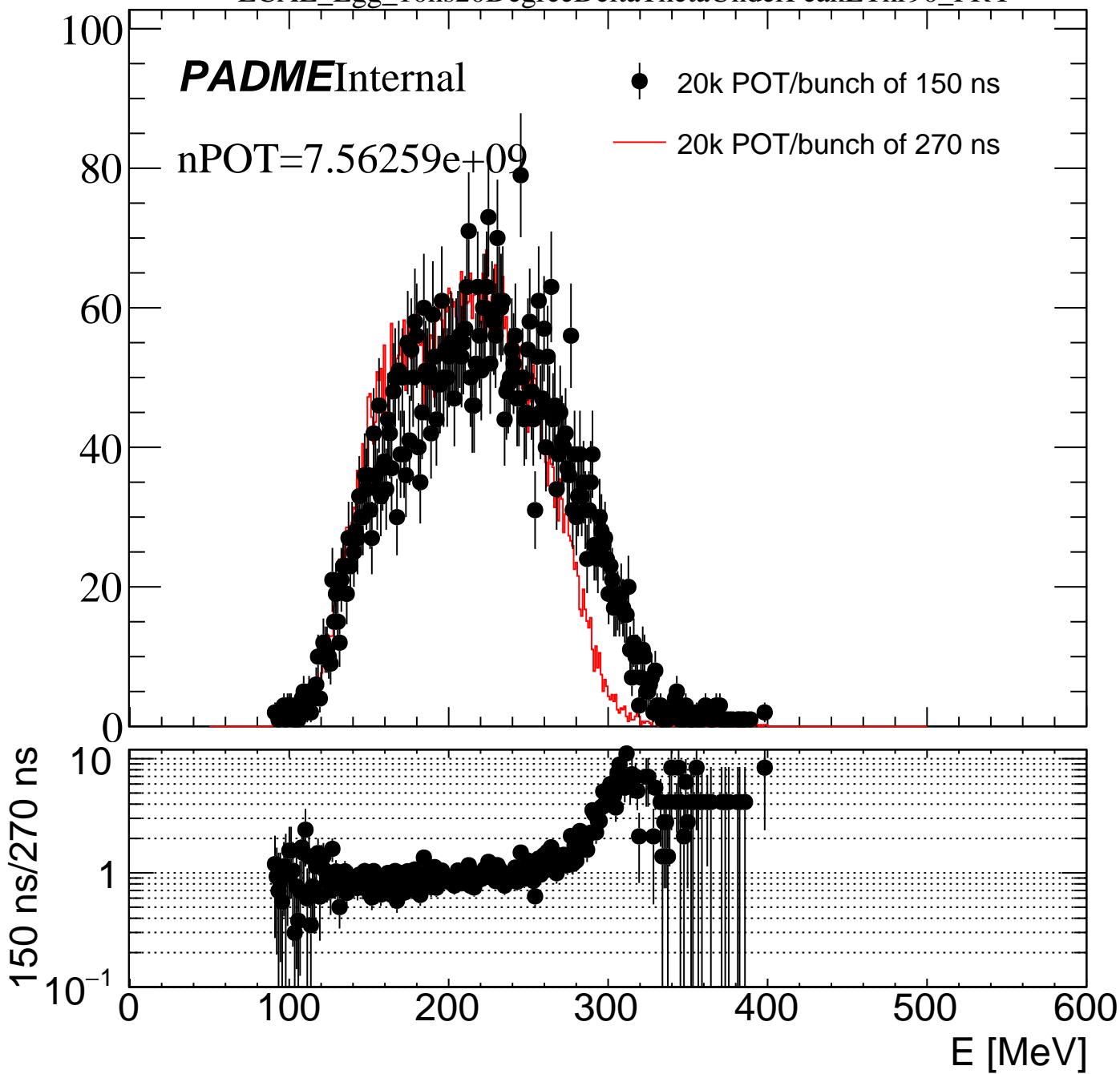


ECAL\_Egg\_10ns5DegreeDeltaThetaUnderPeak

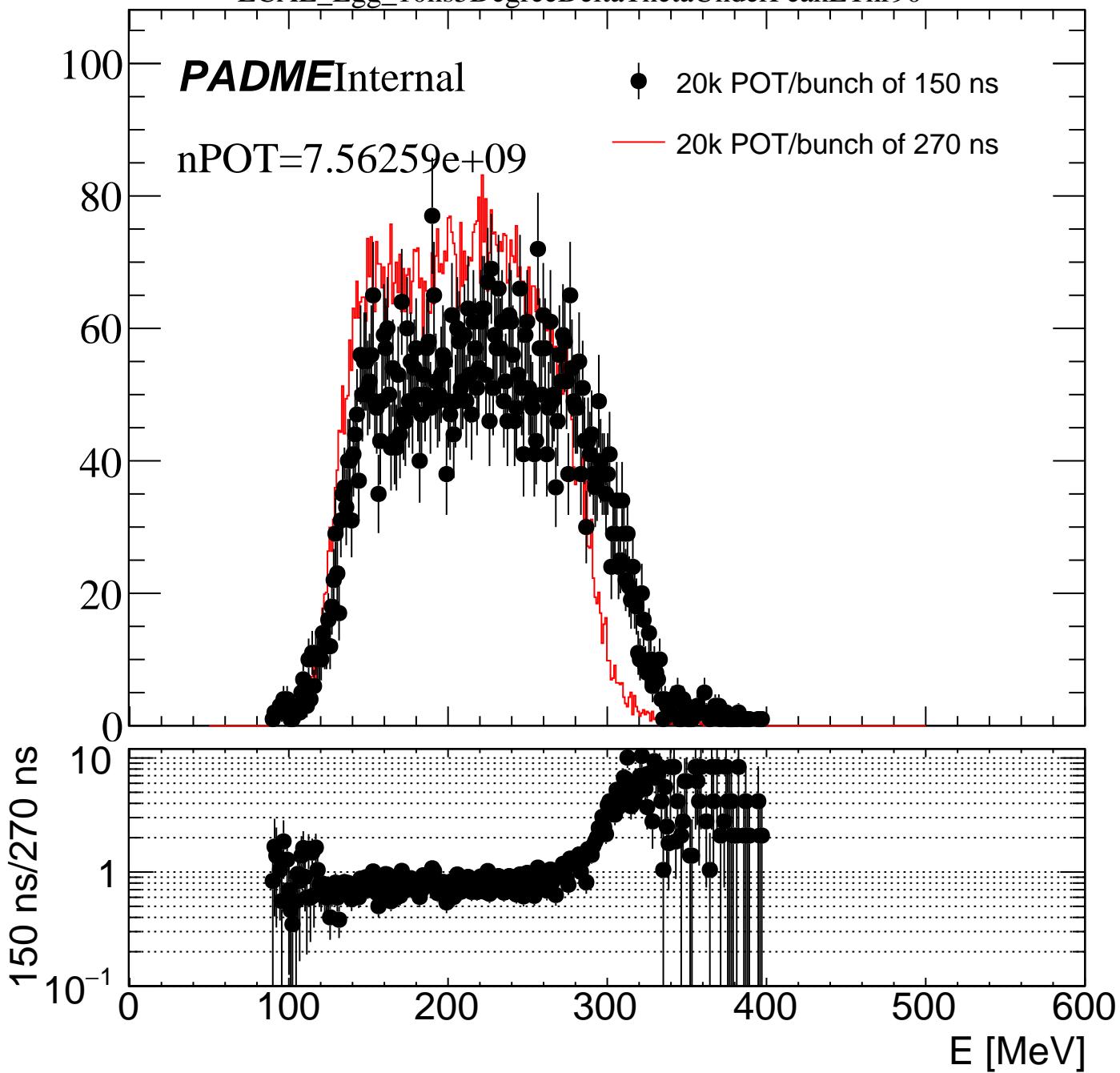


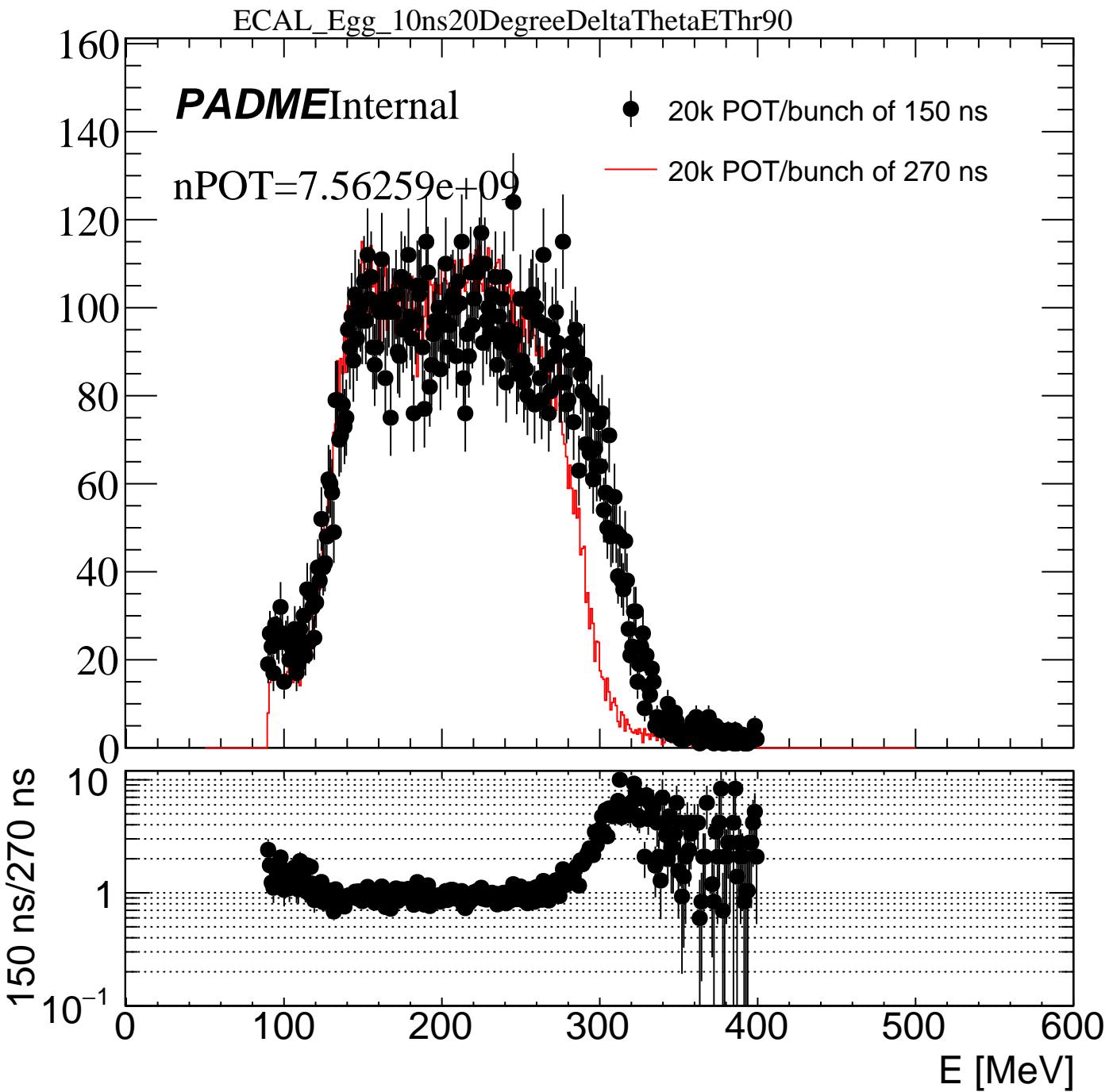


ECAL\_Egg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY

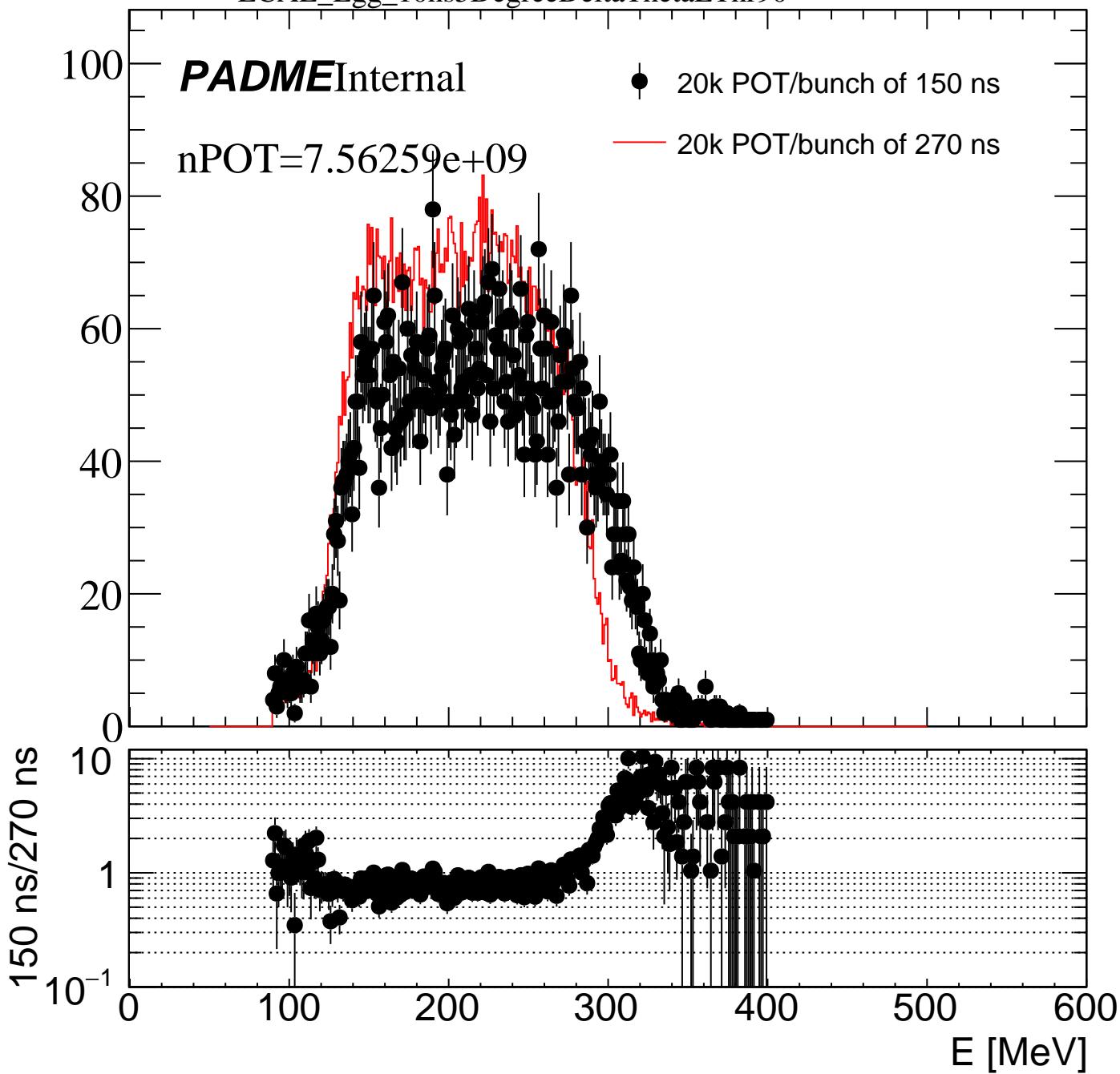


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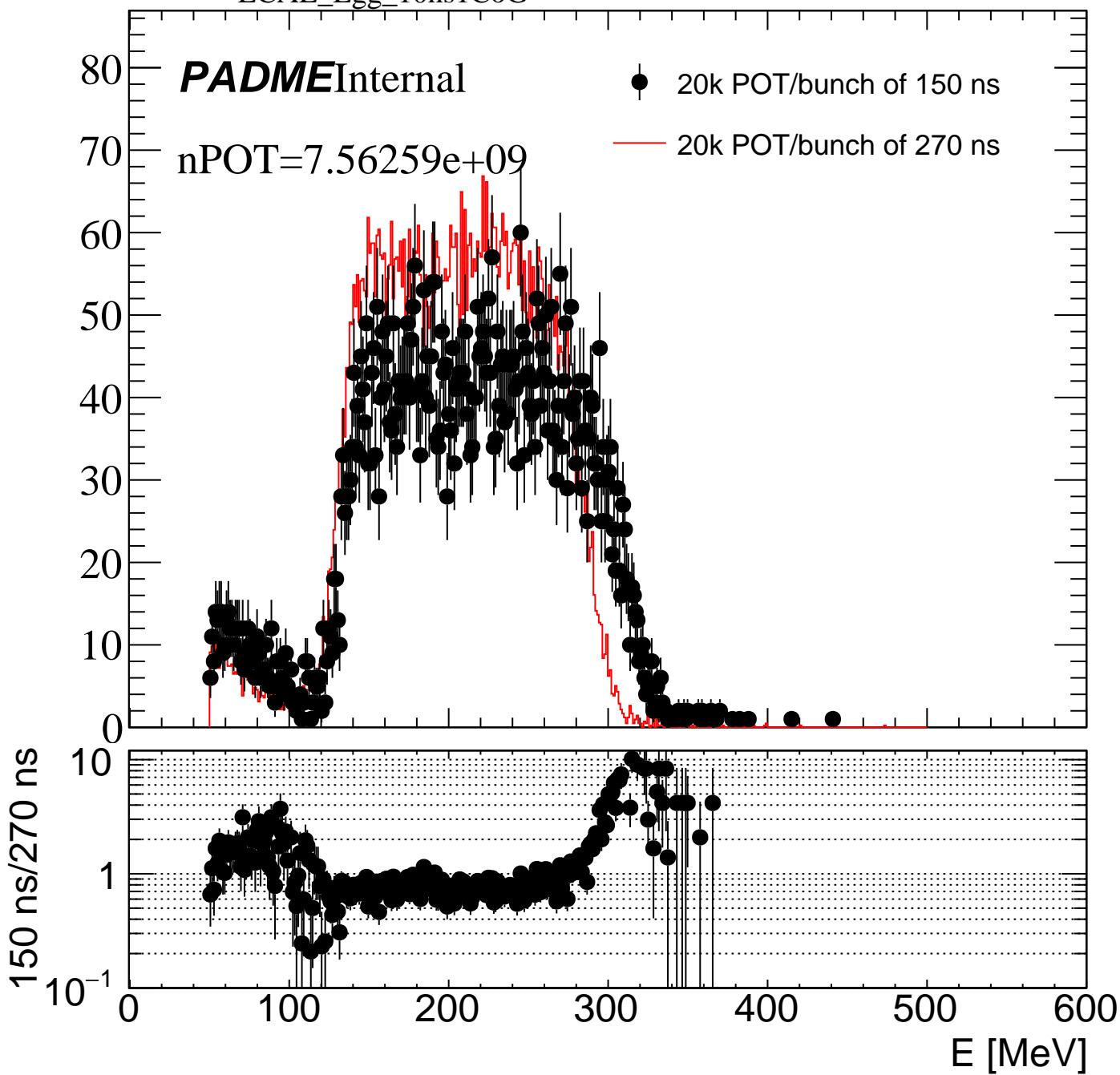




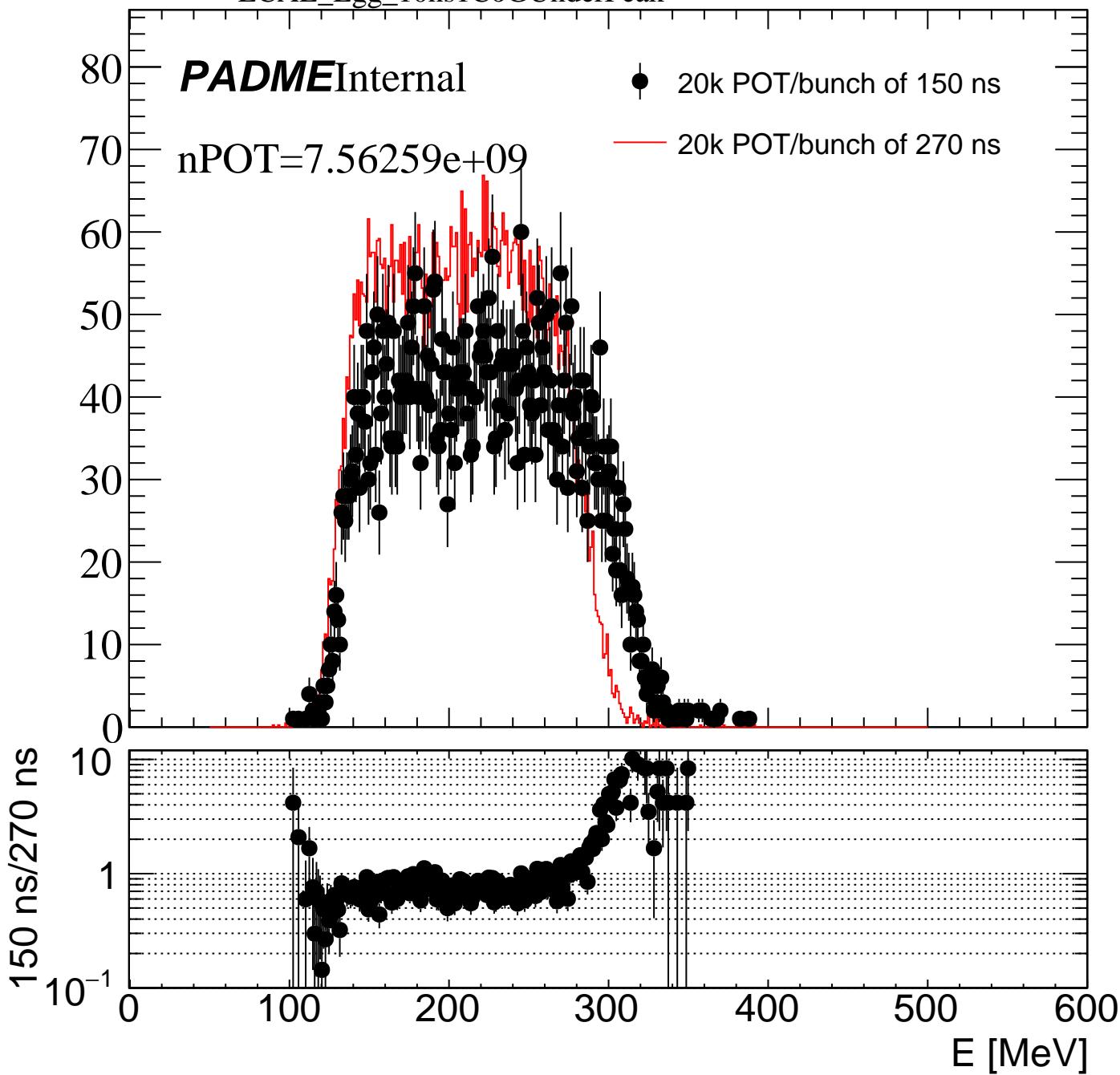
ECAL\_Egg\_10ns5DegreeDeltaThetaETHr90



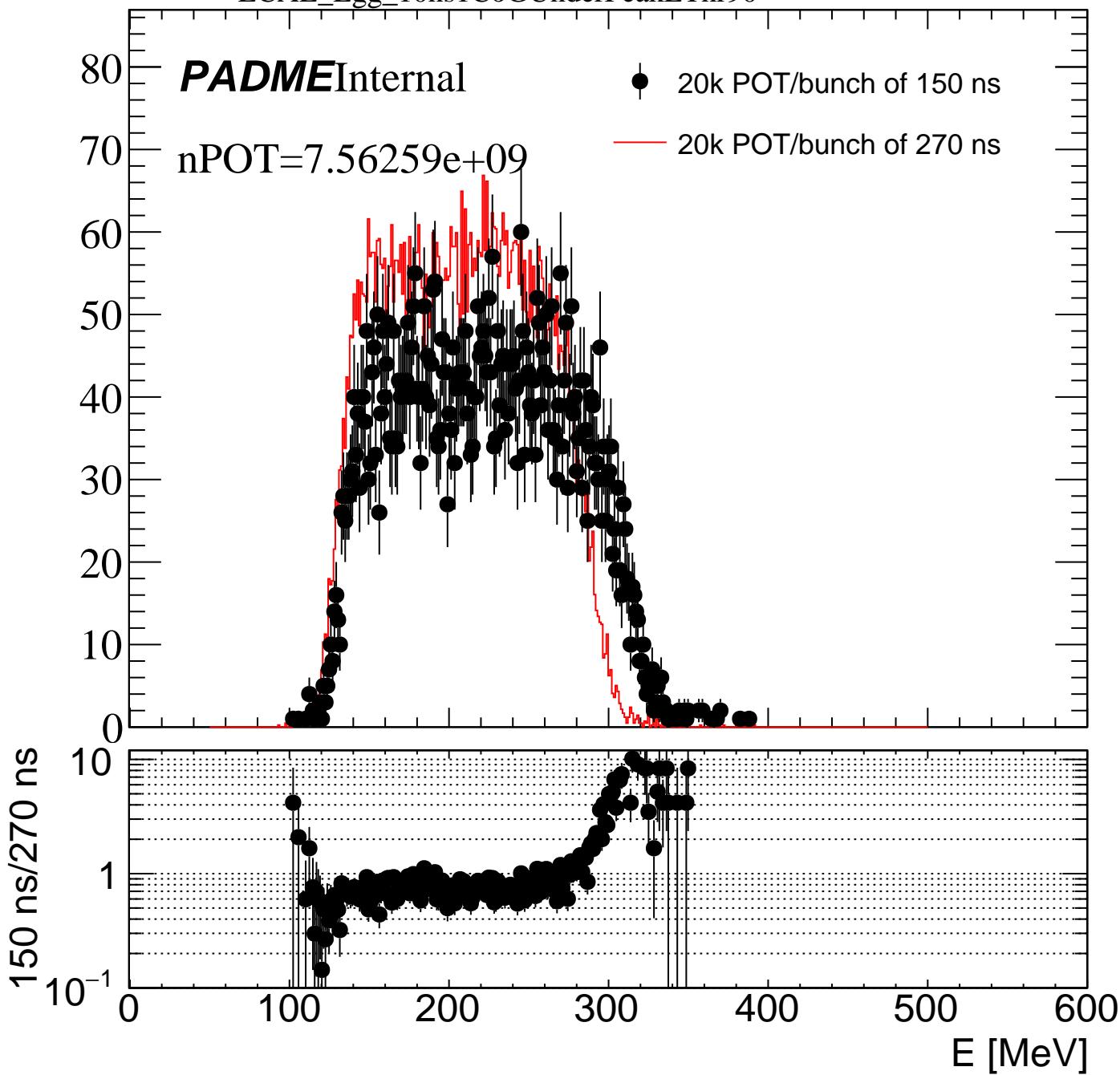
ECAL\_Egg\_10ns1CoG



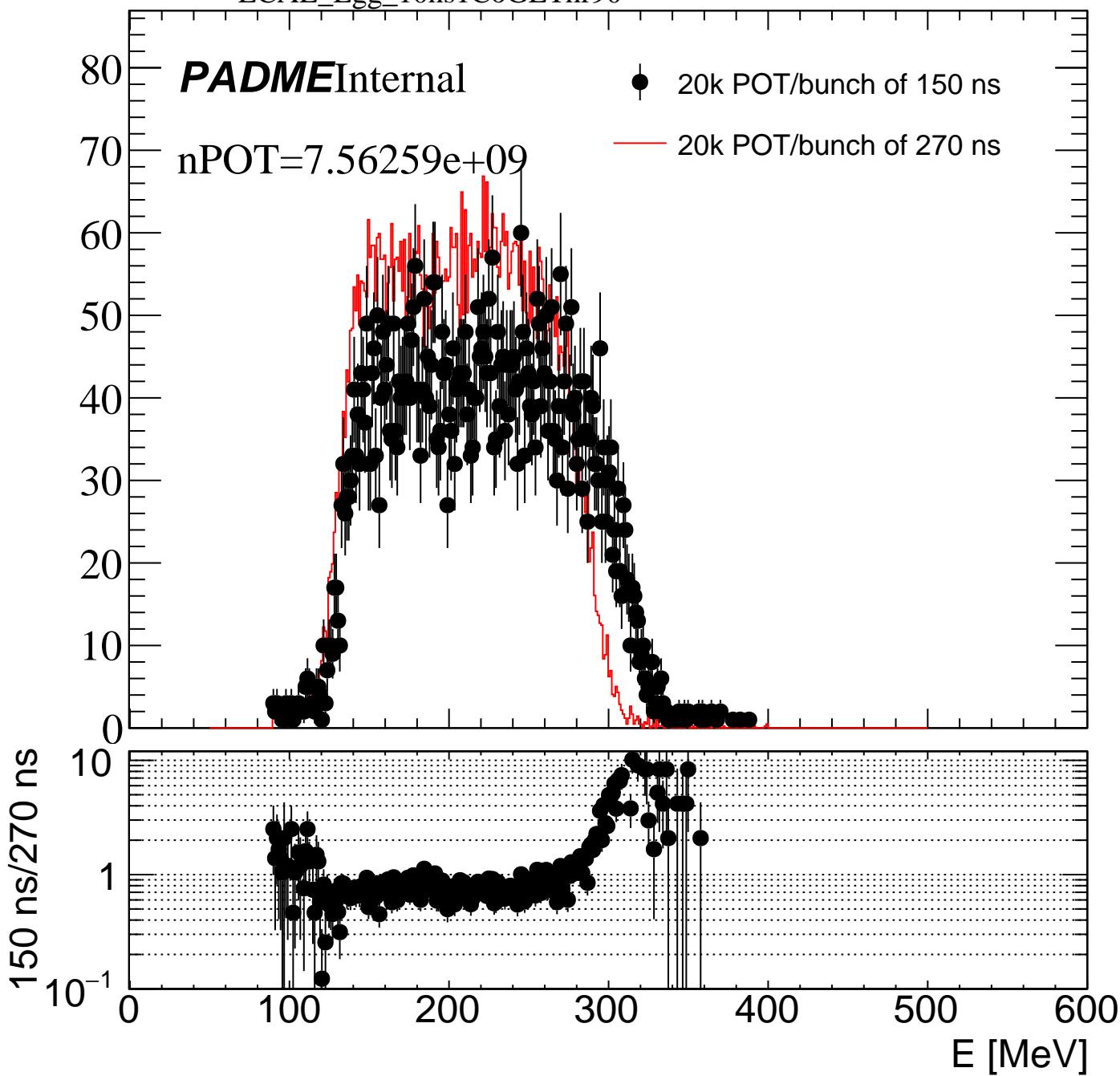
ECAL\_Egg\_10ns1CoGUnderPeak



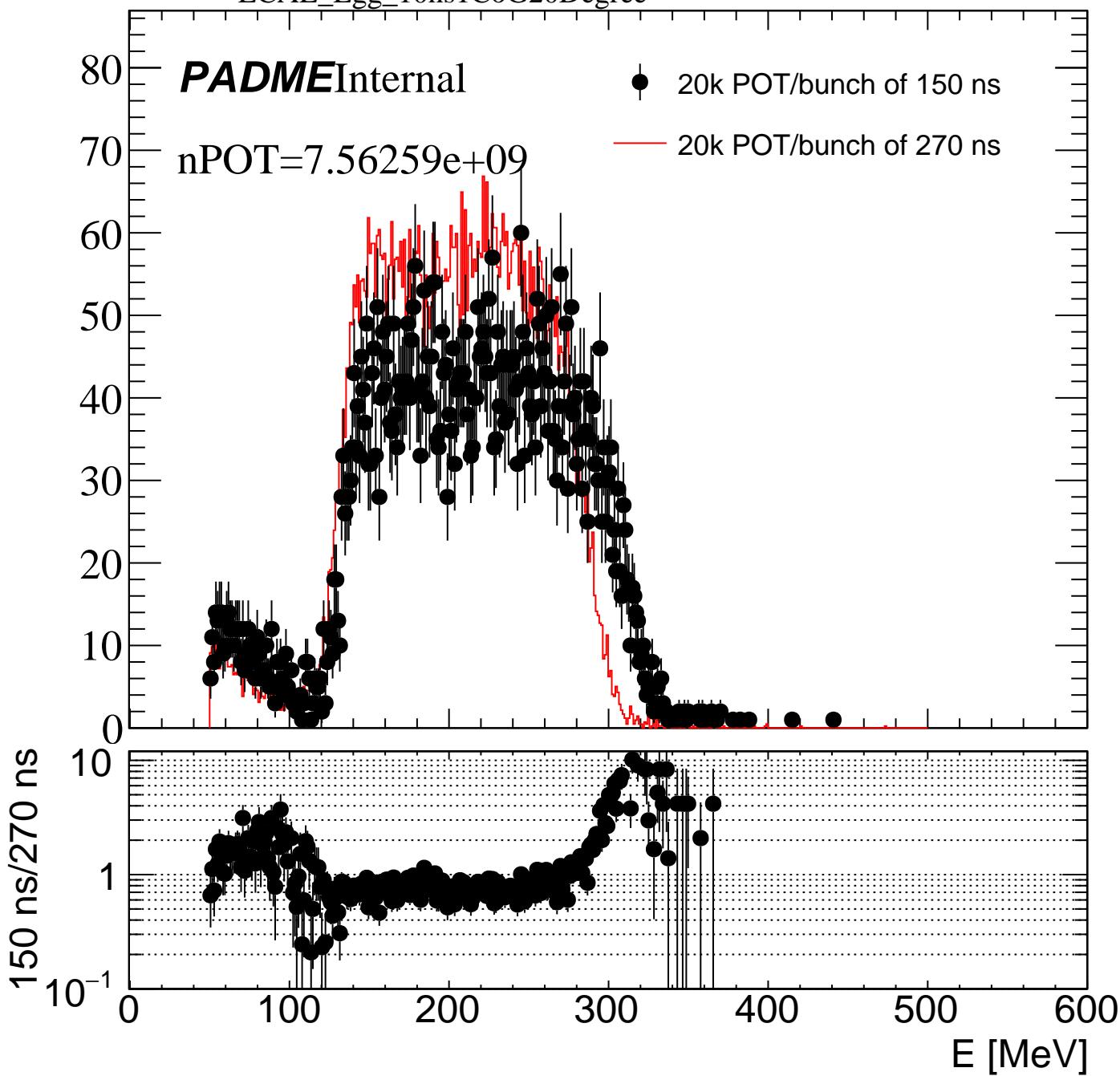
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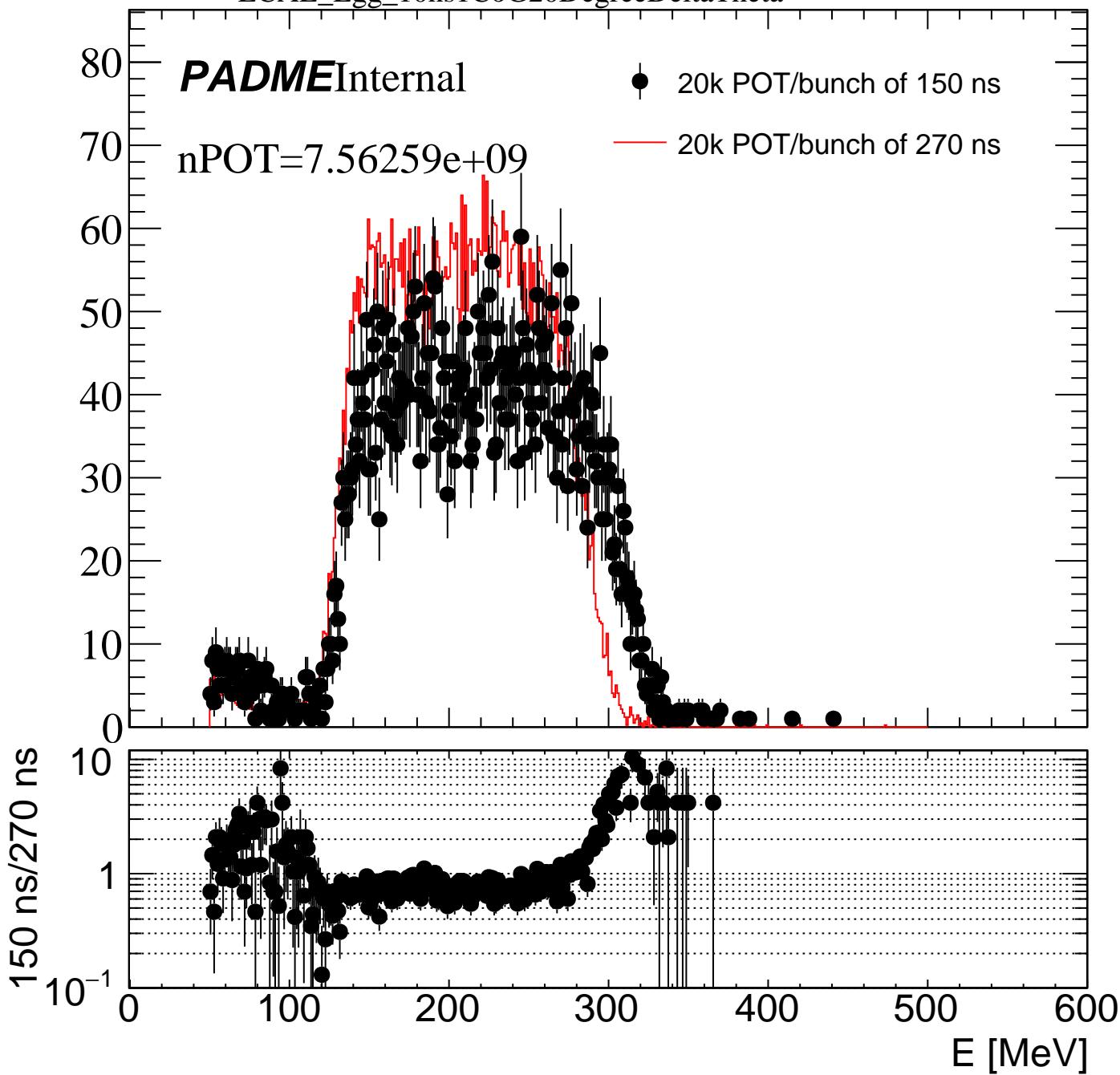
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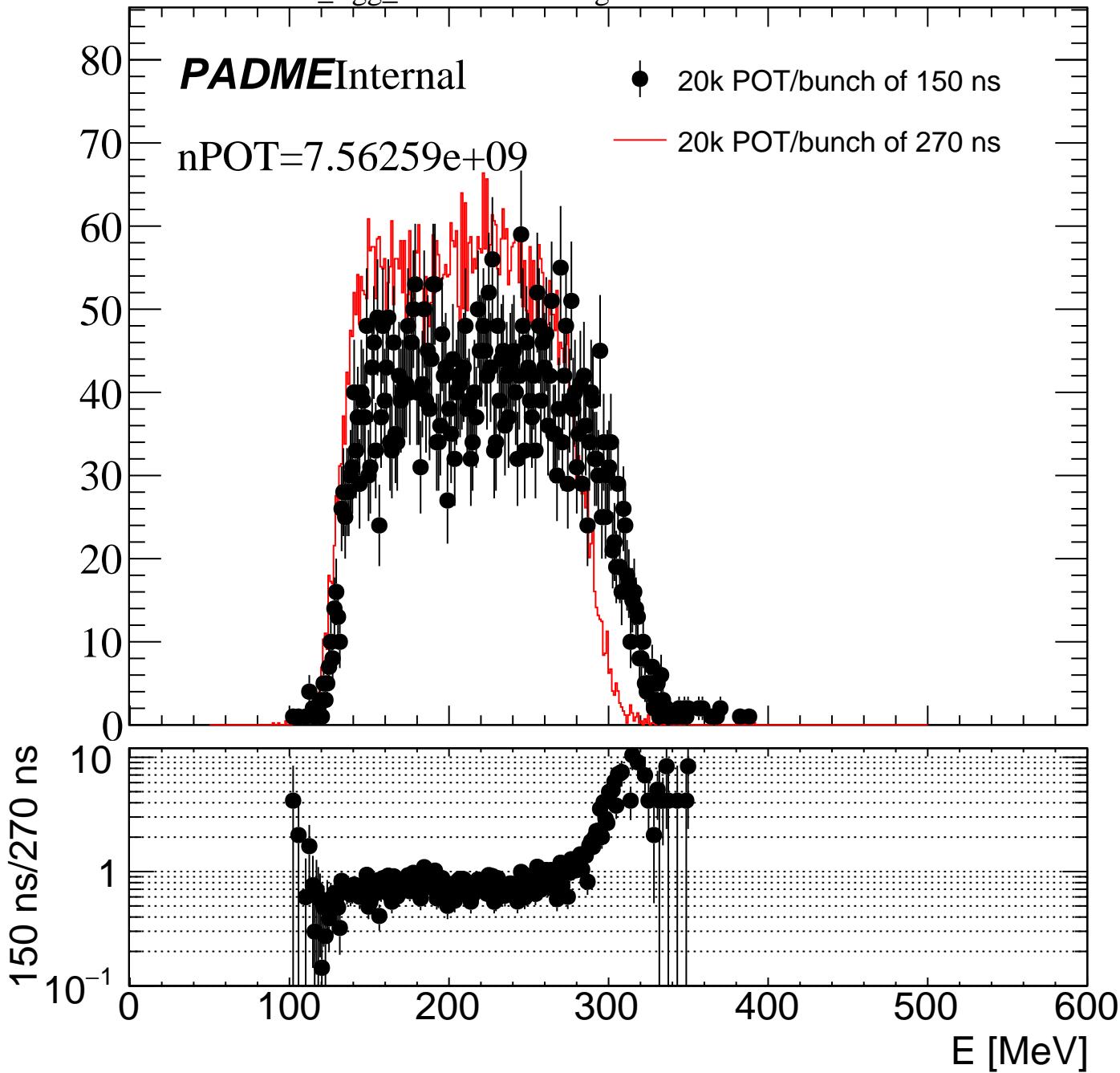
ECAL\_Egg\_10ns1CoG20Degree



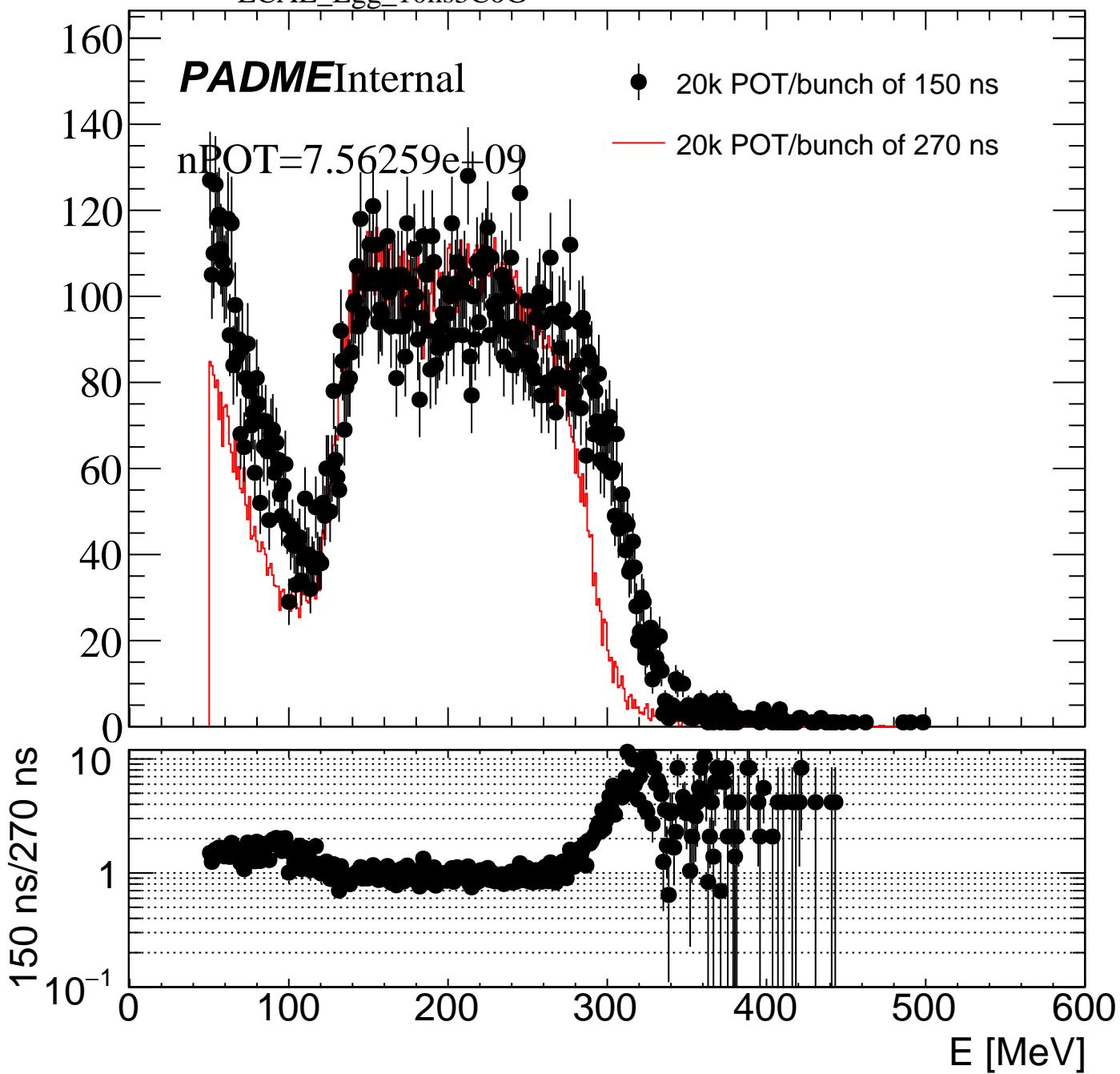
ECAL\_Egg\_10ns1CoG20DegreeDeltaTheta



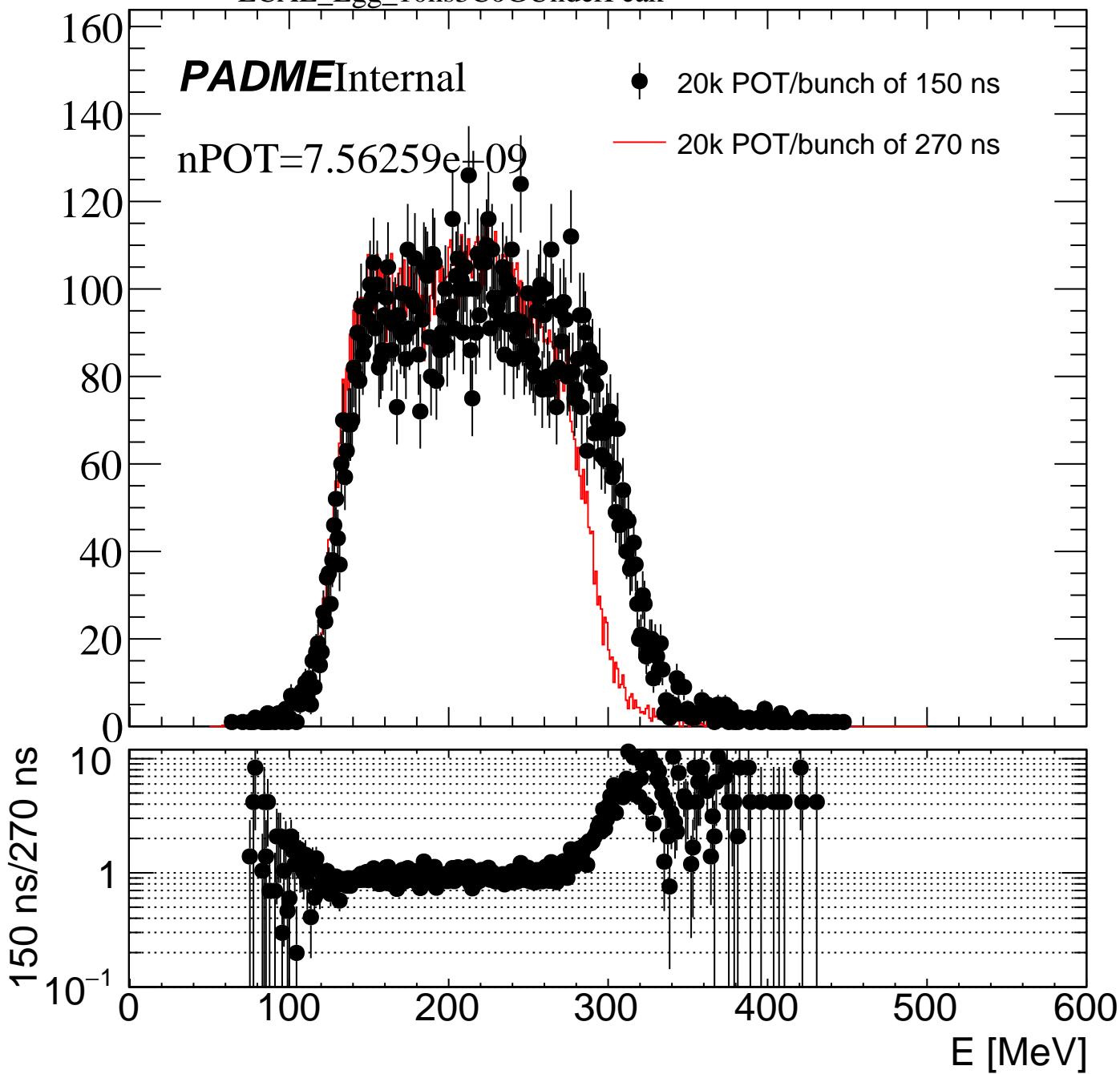
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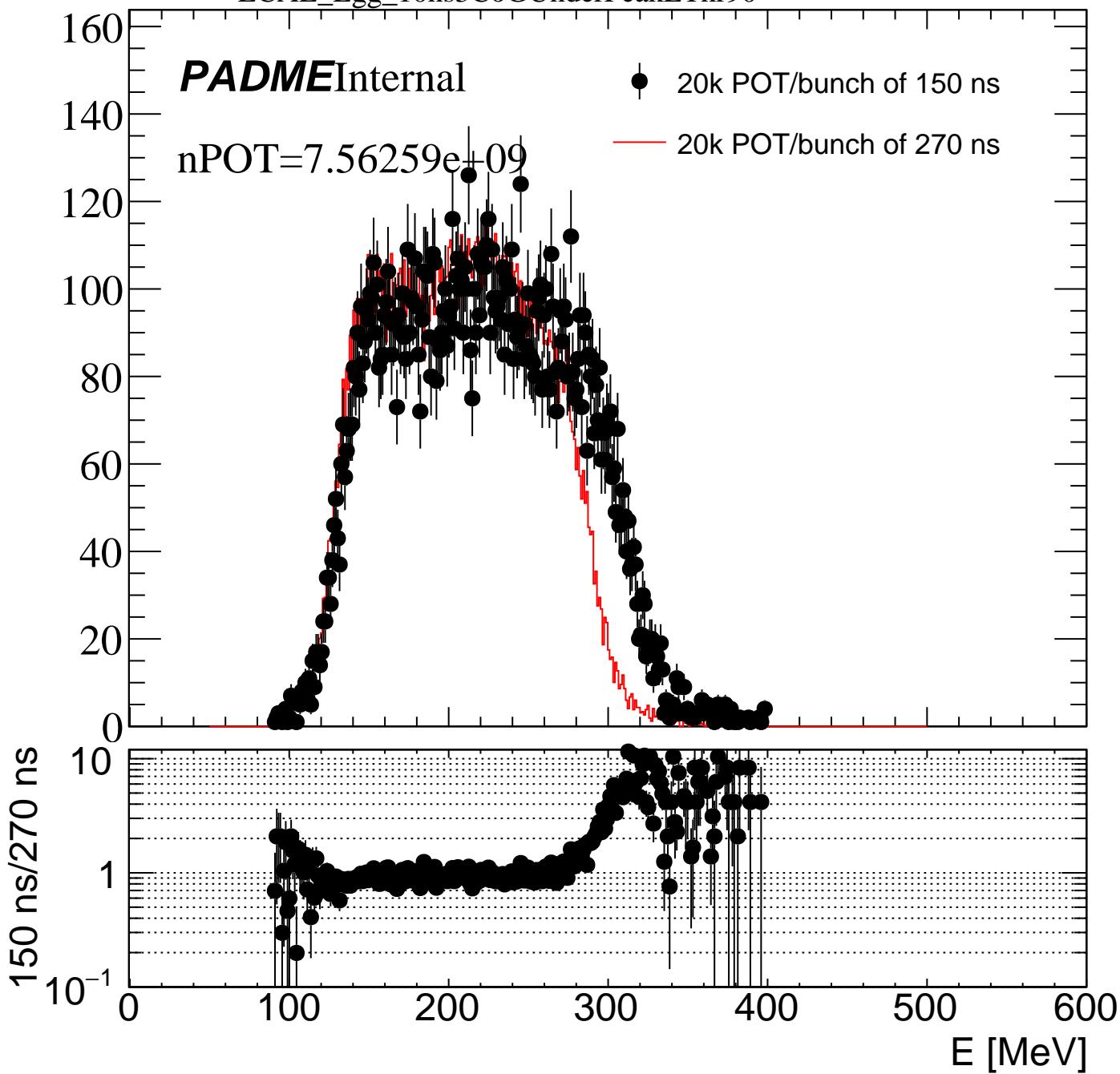
ECAL\_Egg\_10ns3CoG



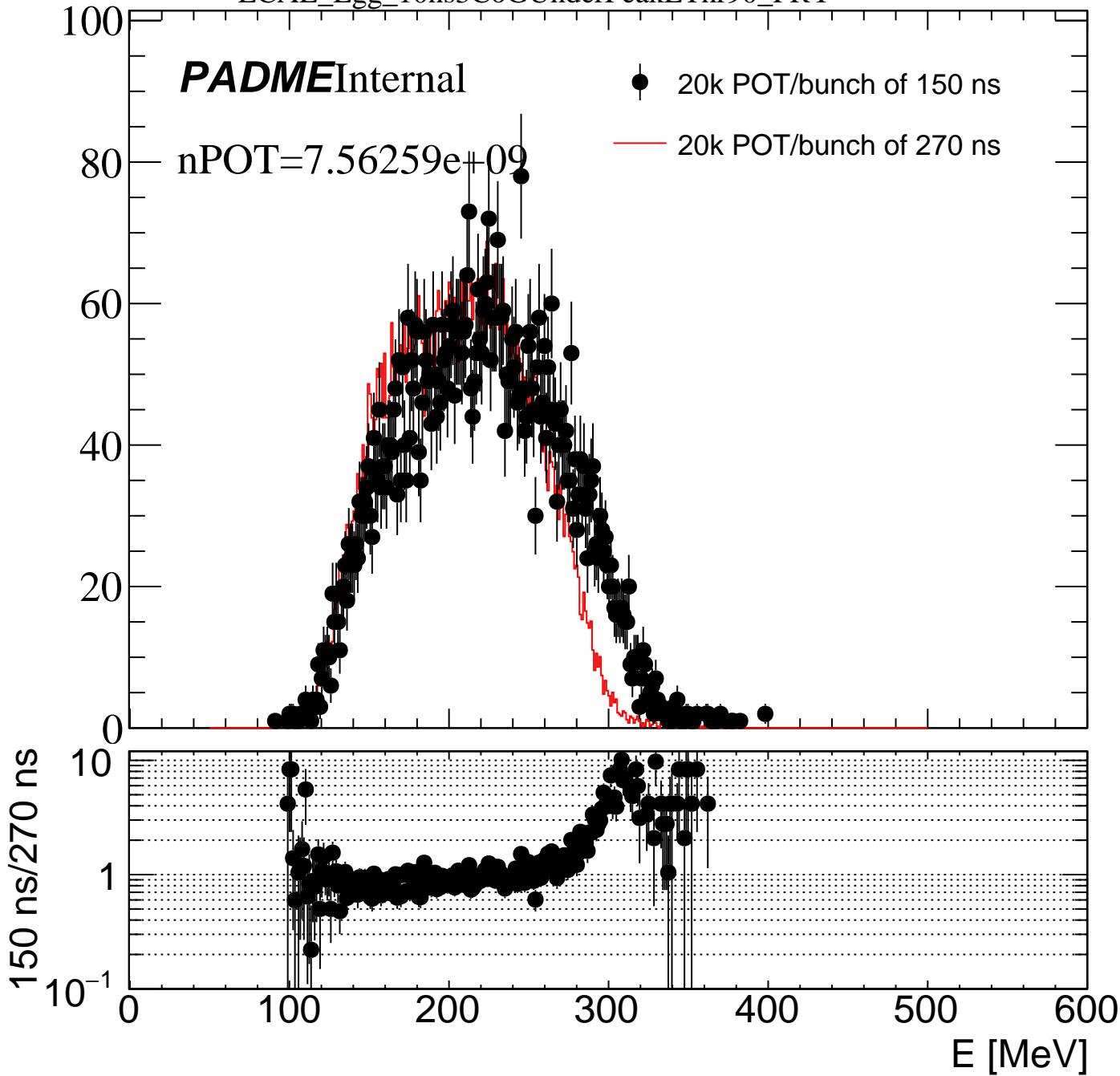
ECAL\_Egg\_10ns3CoGUnderPeak



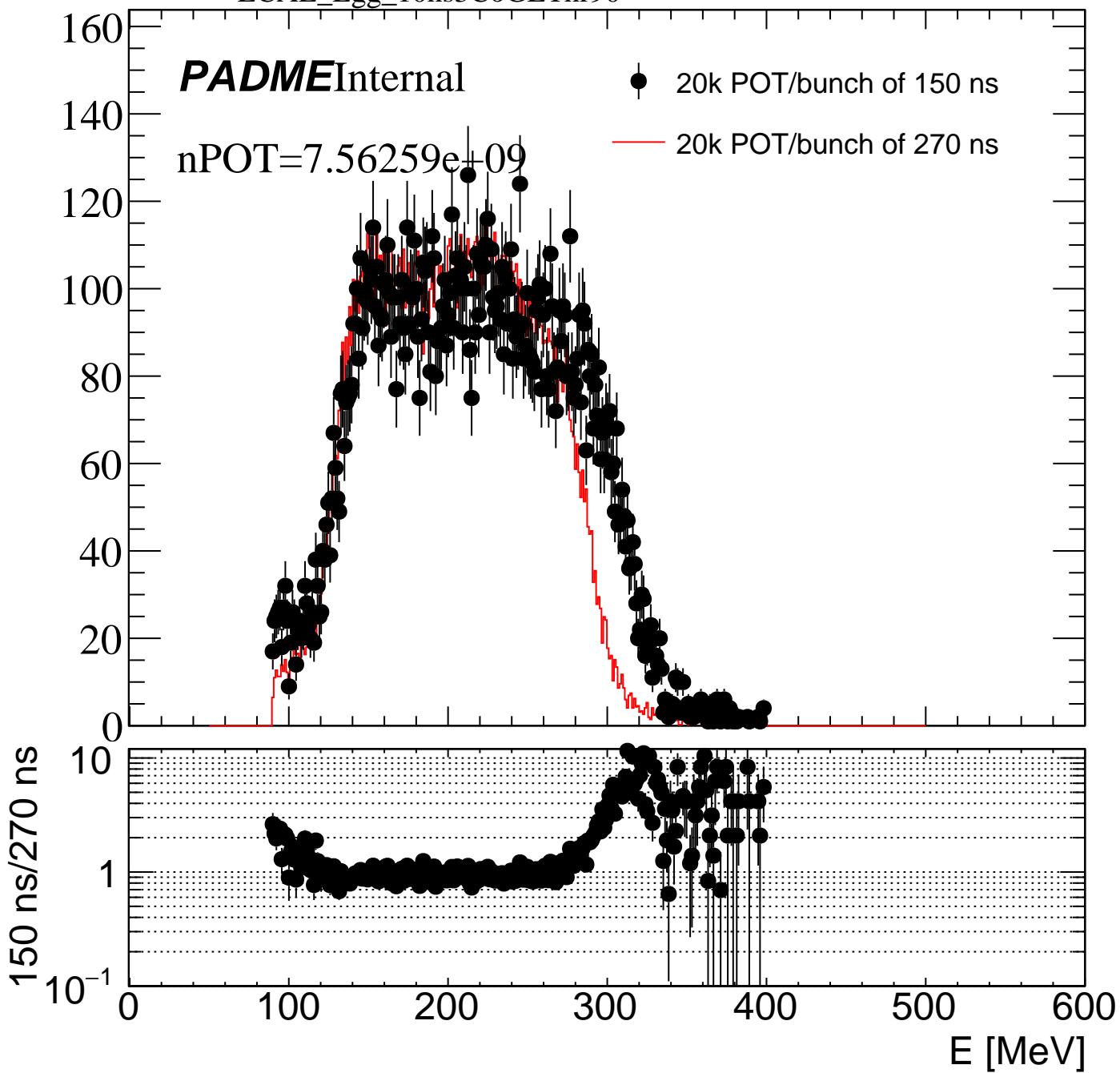
ECAL\_Egg\_10ns3CoGUnderPeakEThr90



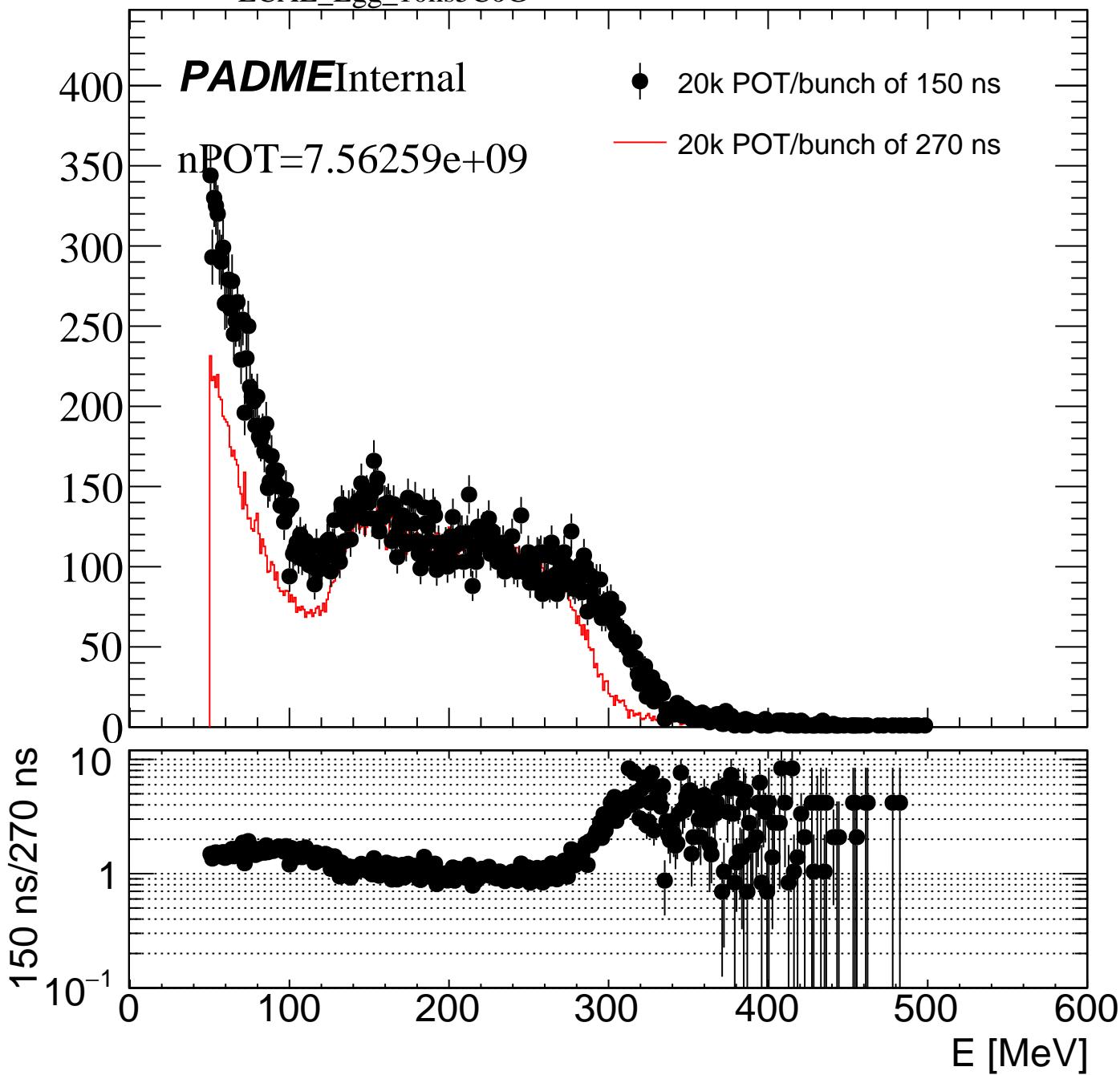
ECAL\_Egg\_10ns3CoGUnderPeakEThr90\_FRY



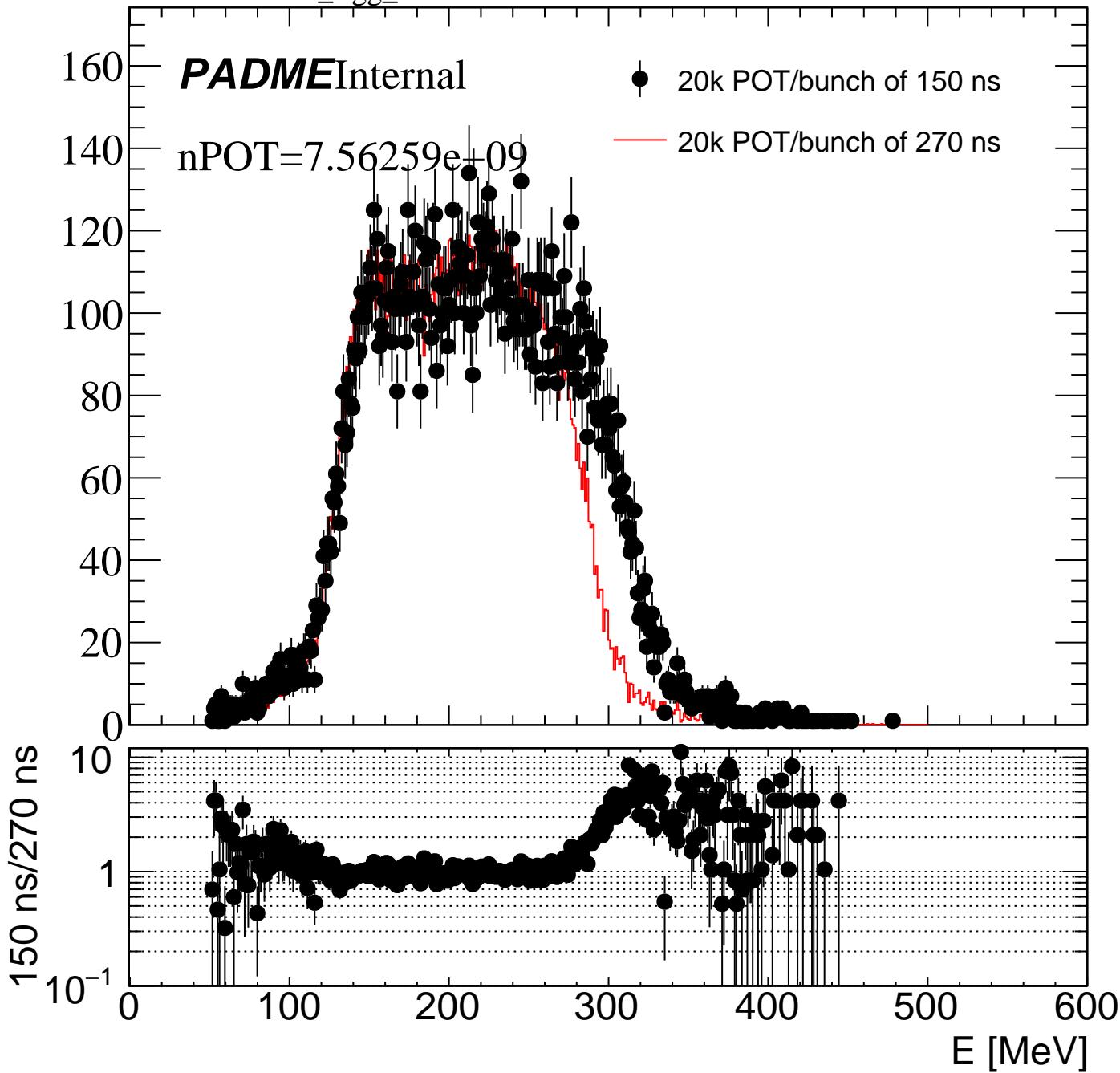
ECAL\_Egg\_10ns3CoGEThr90



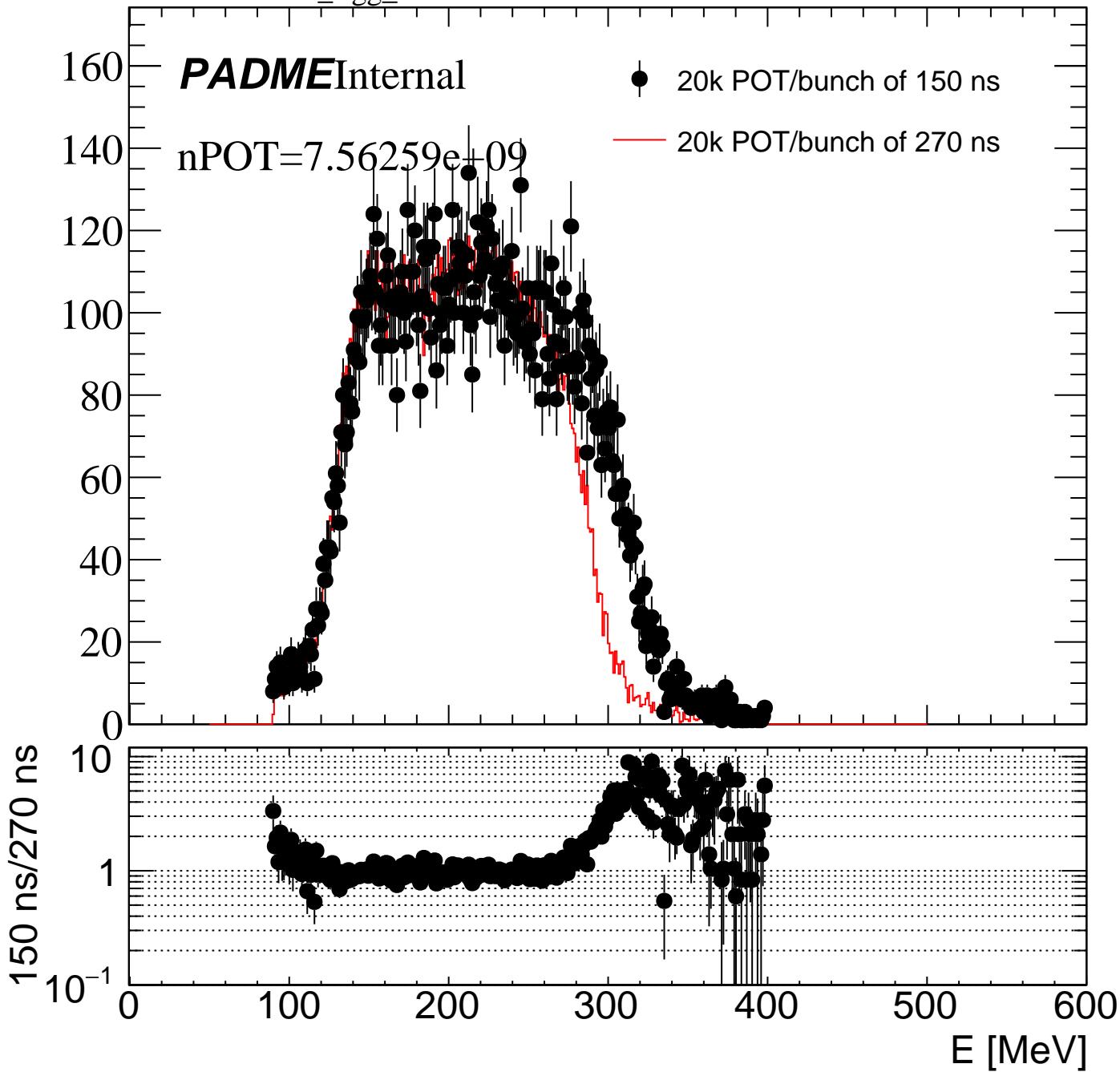
ECAL\_Egg\_10ns5CoG



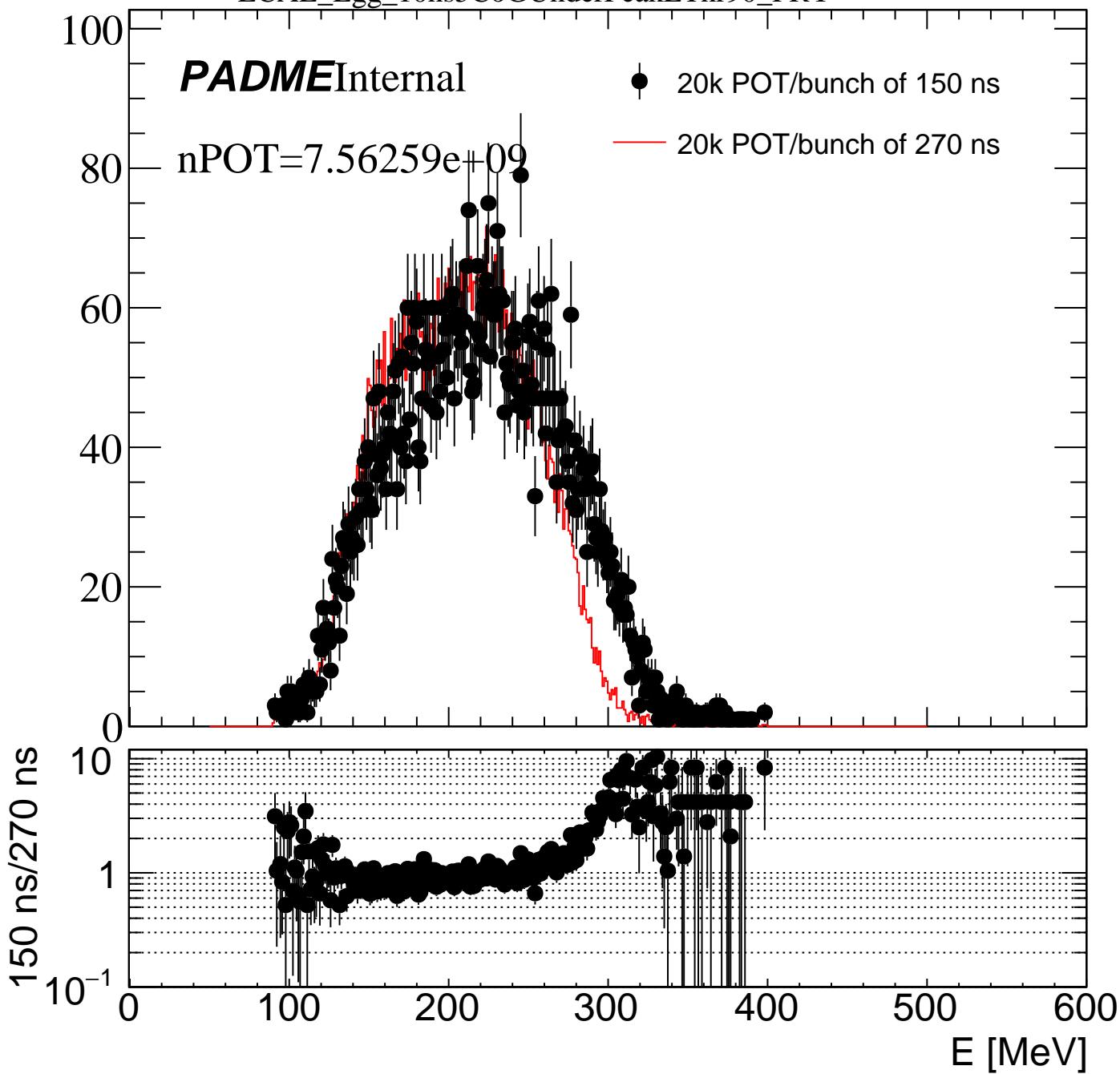
ECAL\_Egg\_10ns5CoGUnderPeak



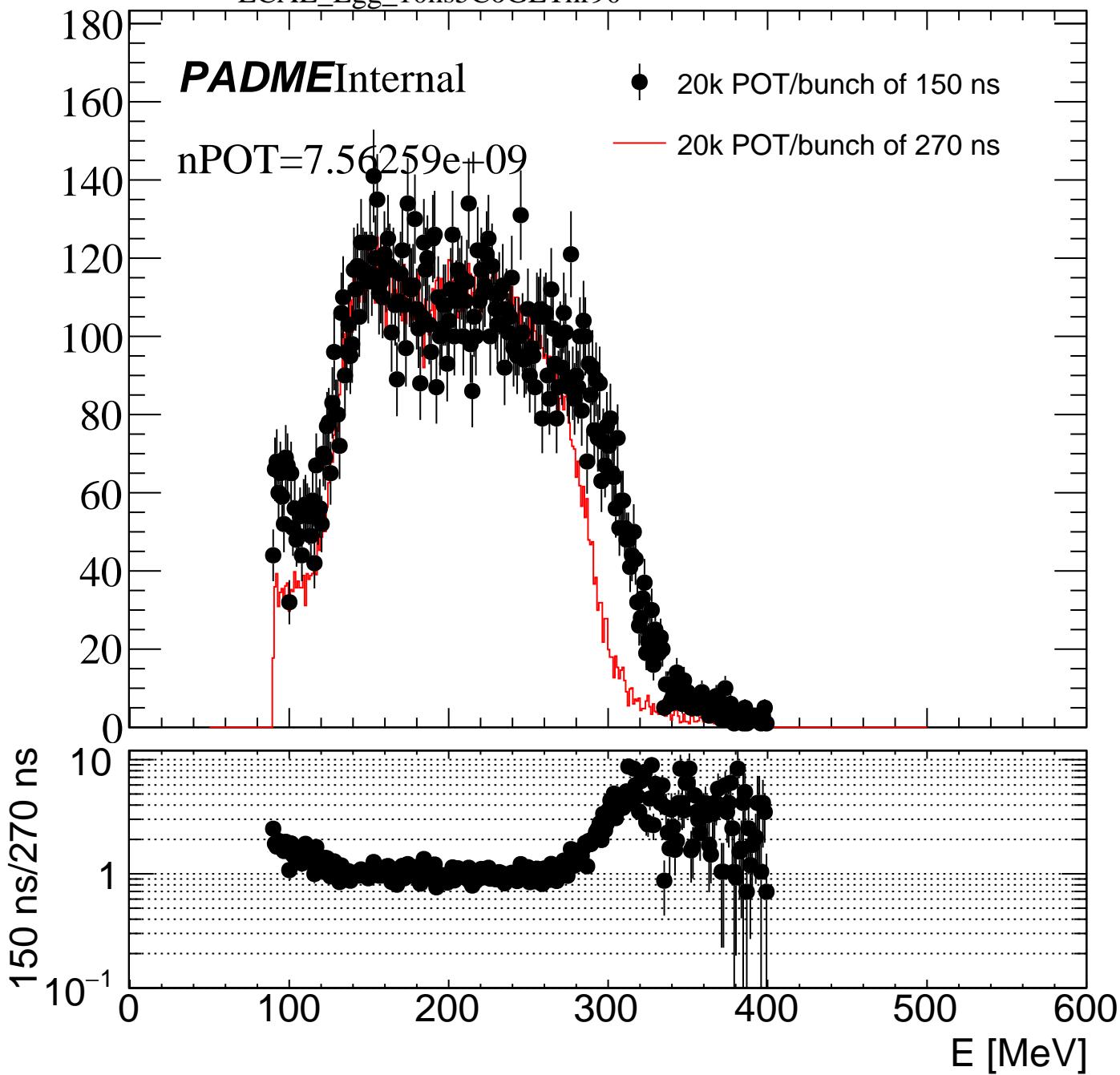
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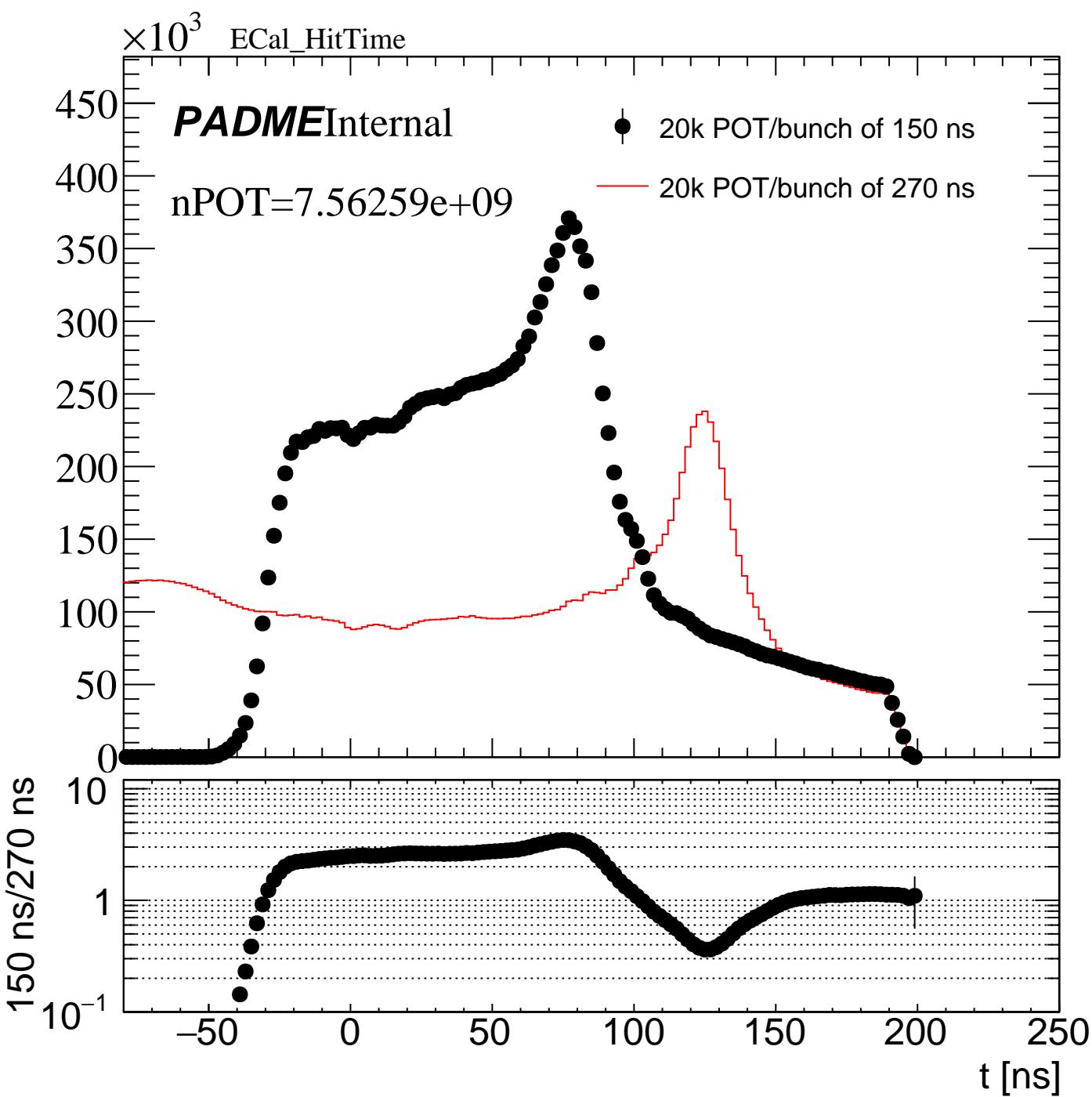


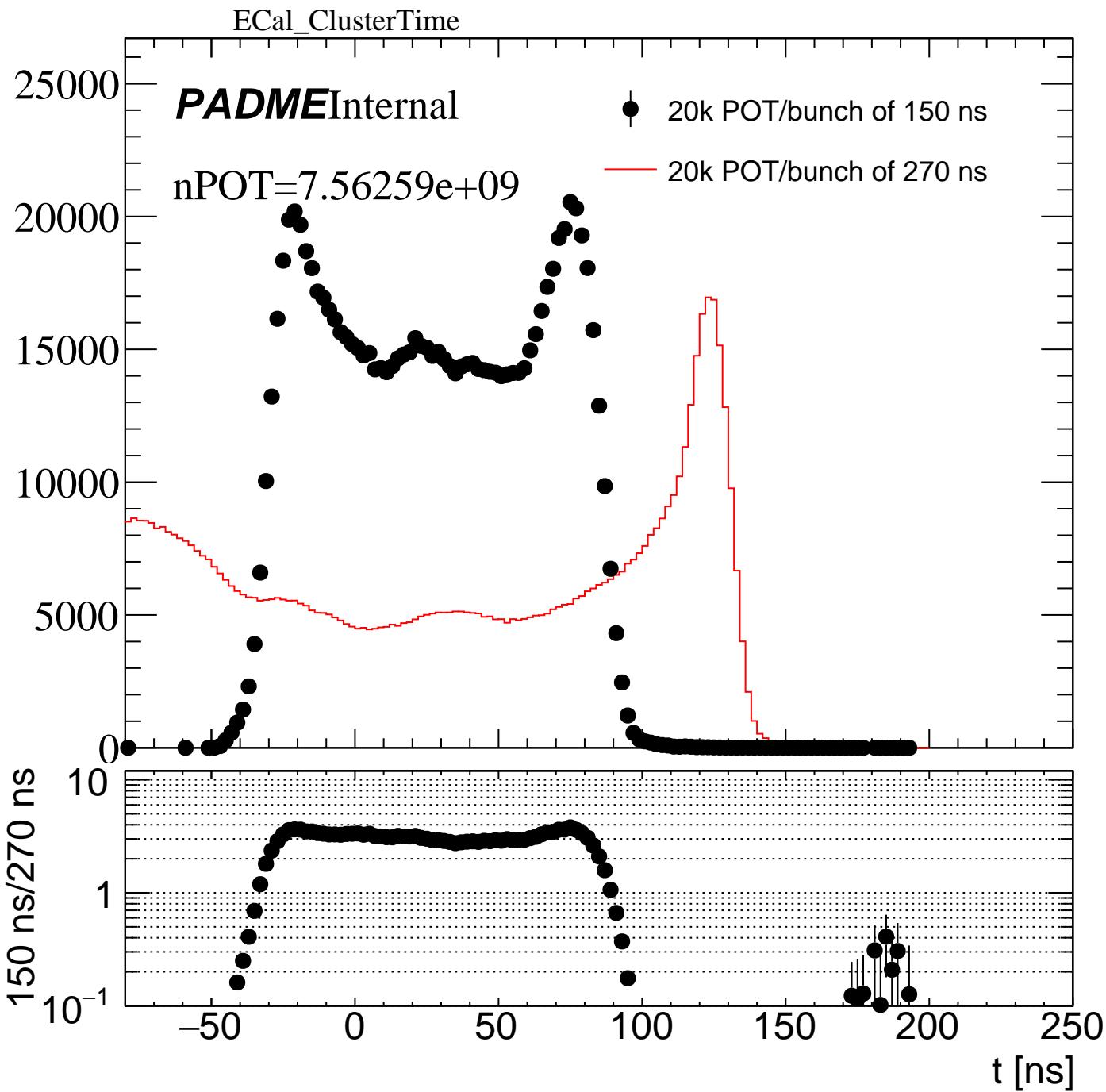
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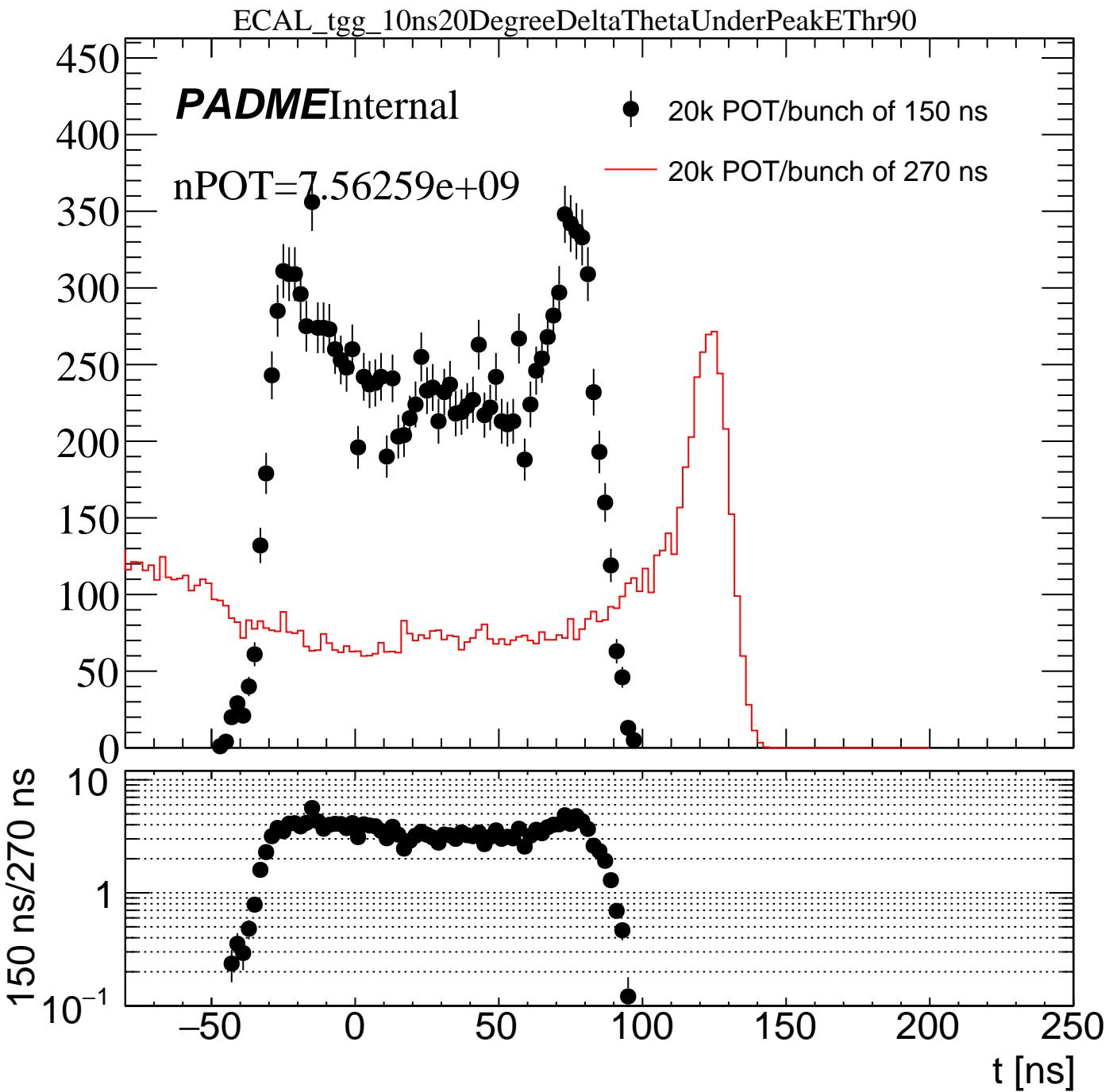


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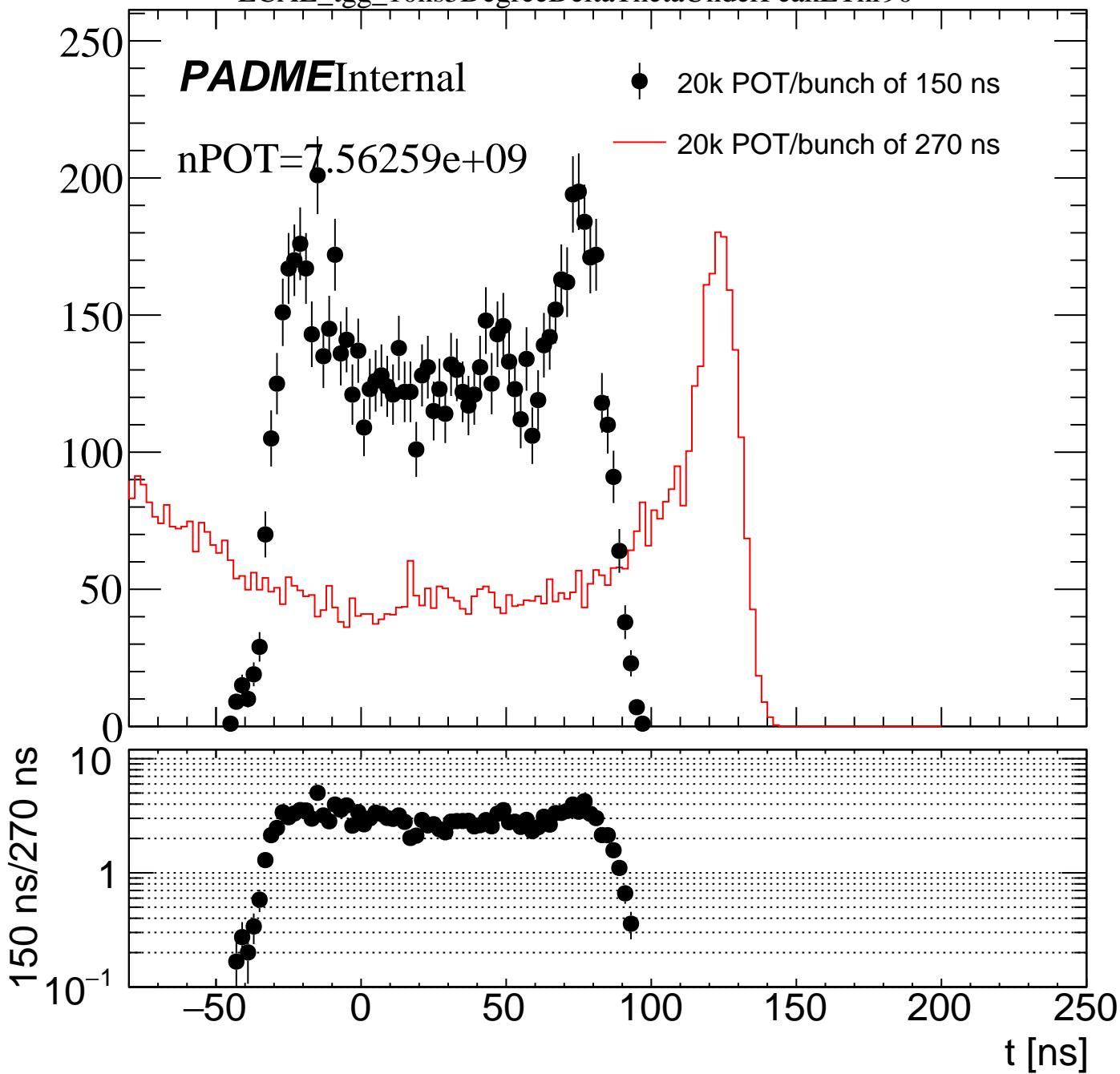




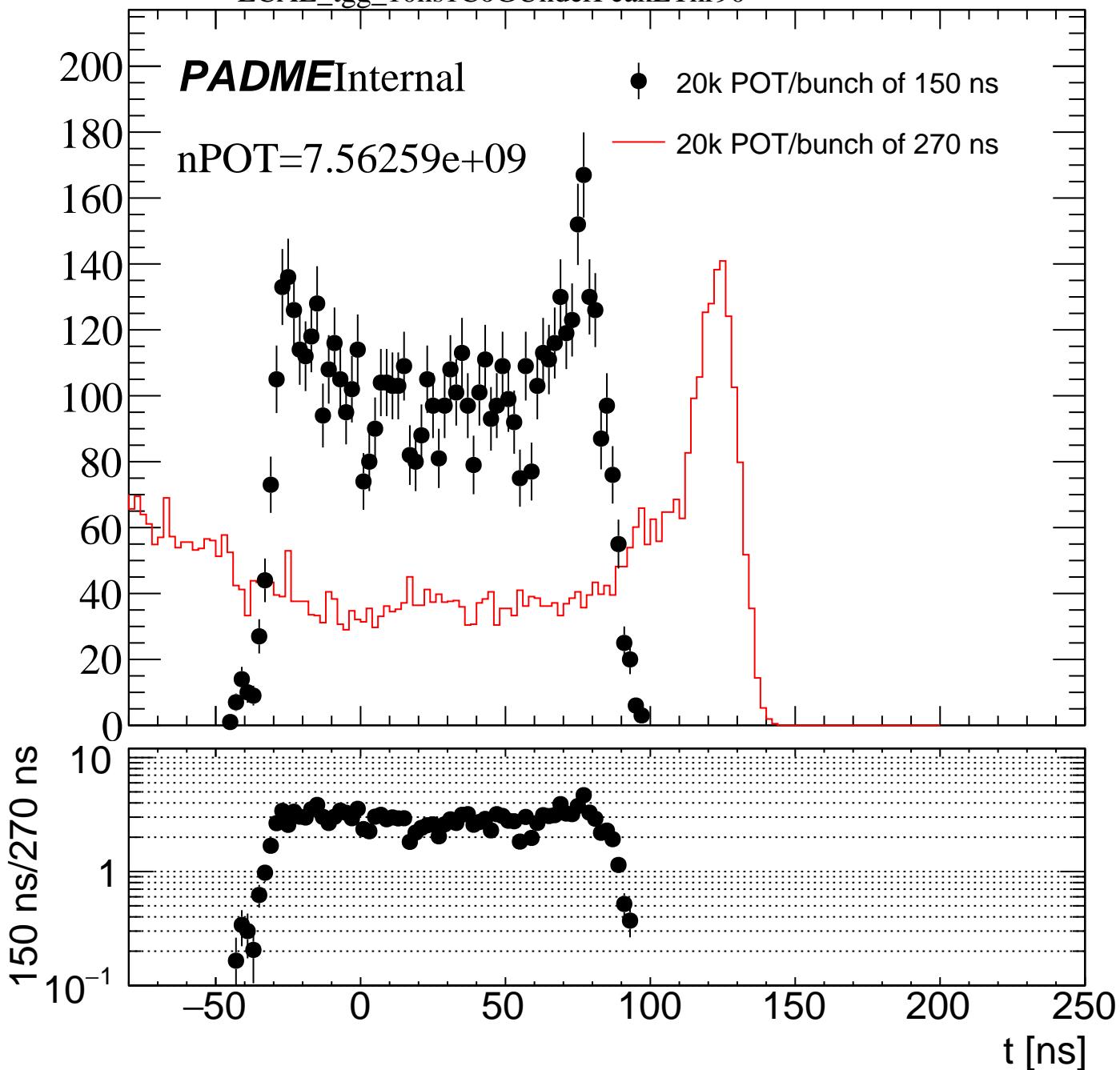




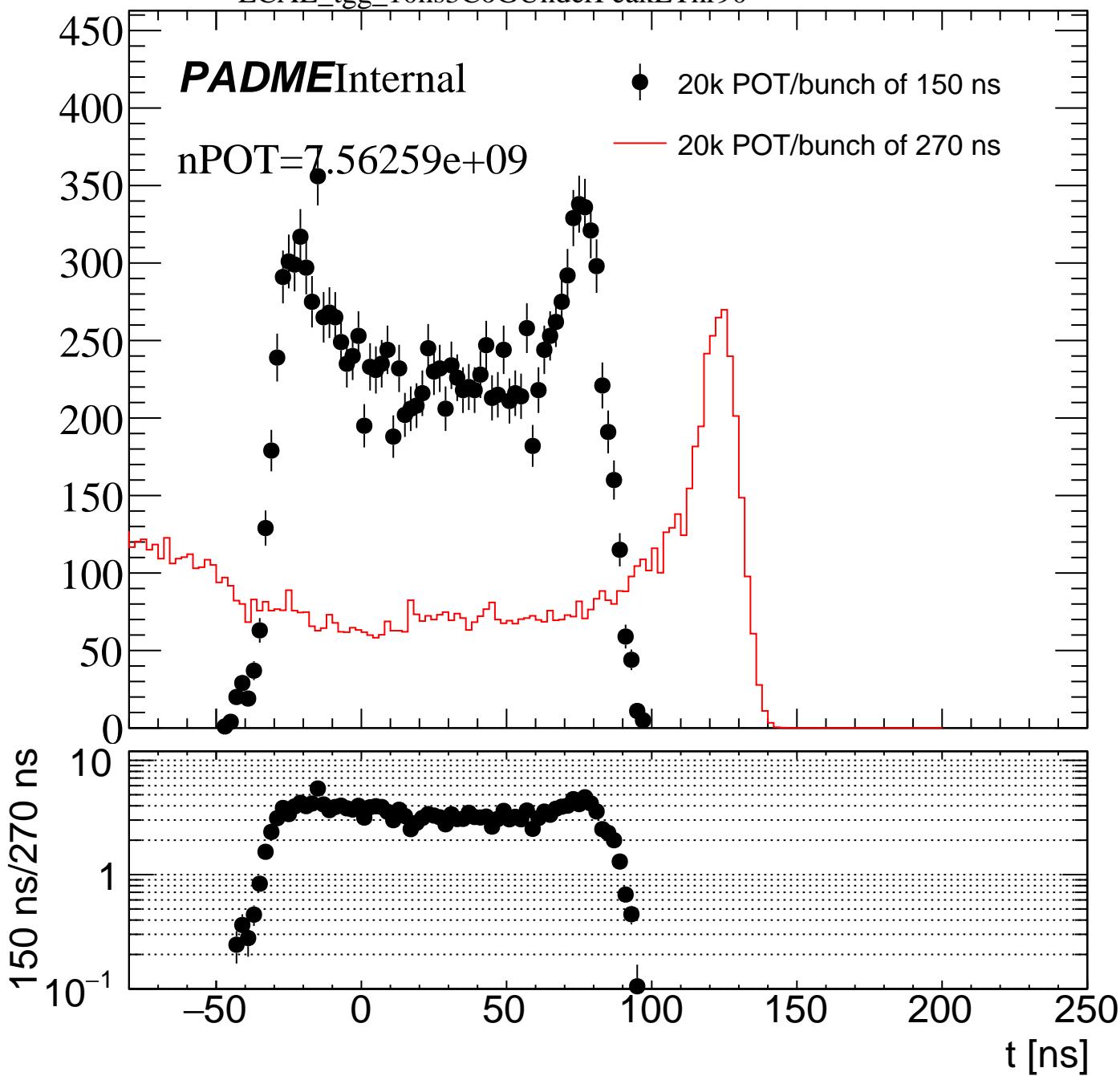
ECAL\_tgg\_10ns5DegreeDeltaThetaUnderPeakEThr90



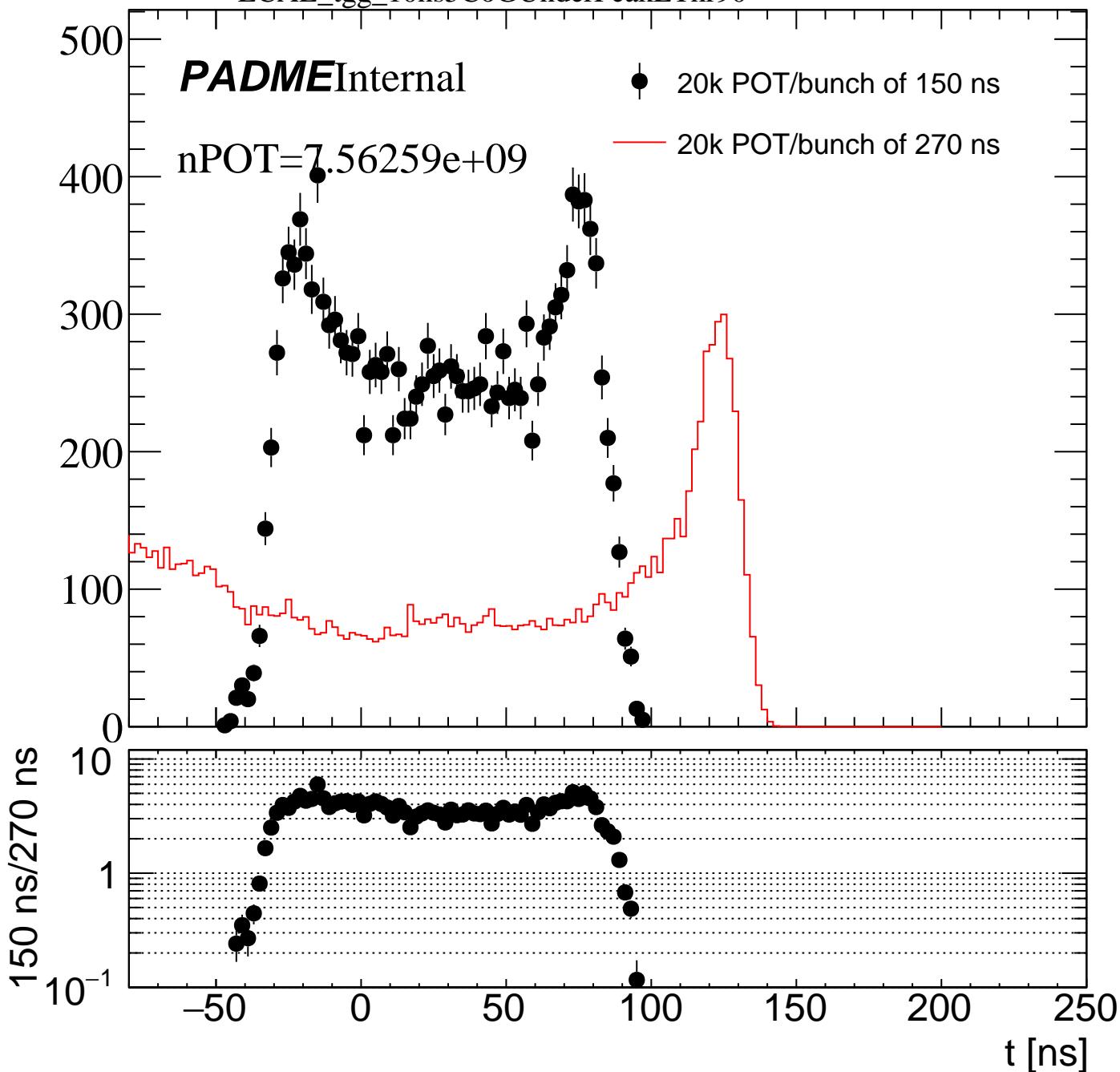
ECAL\_tgg\_10ns1CoGUnderPeakEThr90



ECAL\_tgg\_10ns3CoGUnderPeakEThr90



ECAL\_tgg\_10ns5CoGUnderPeakEThr90



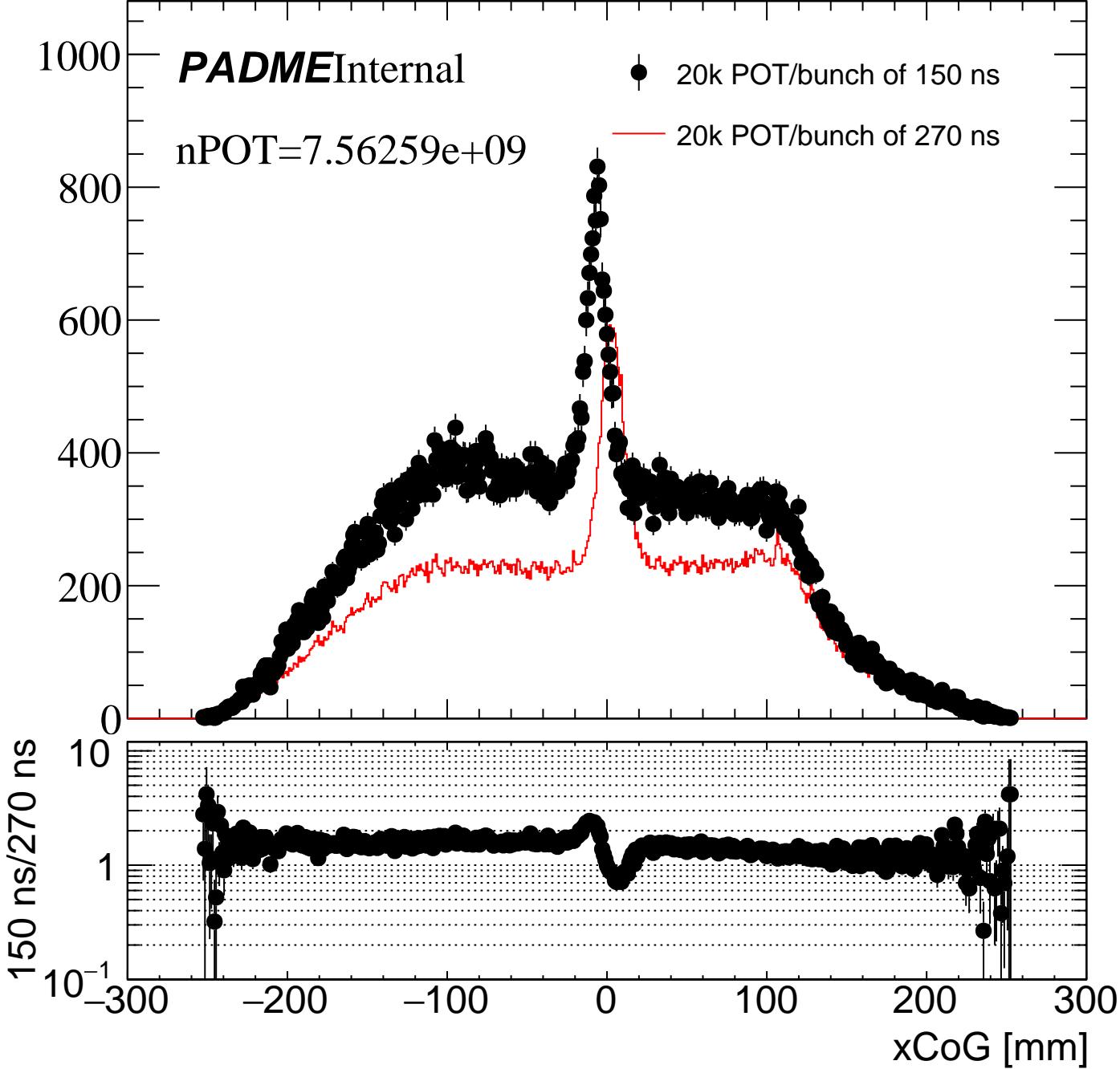
ECal\_xCoG\_10ns

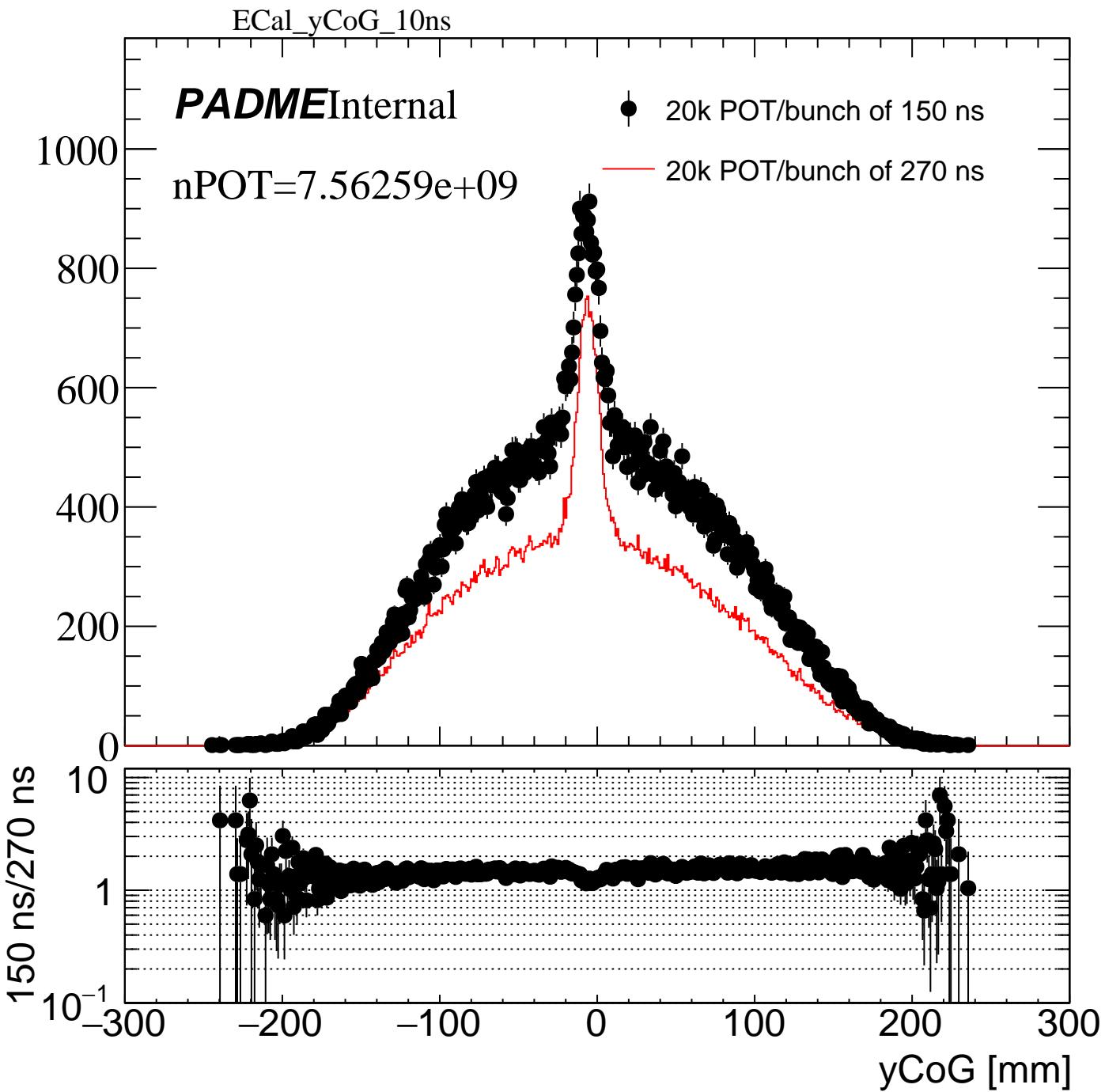
**PADME** Internal

nPOT=7.56259e+09

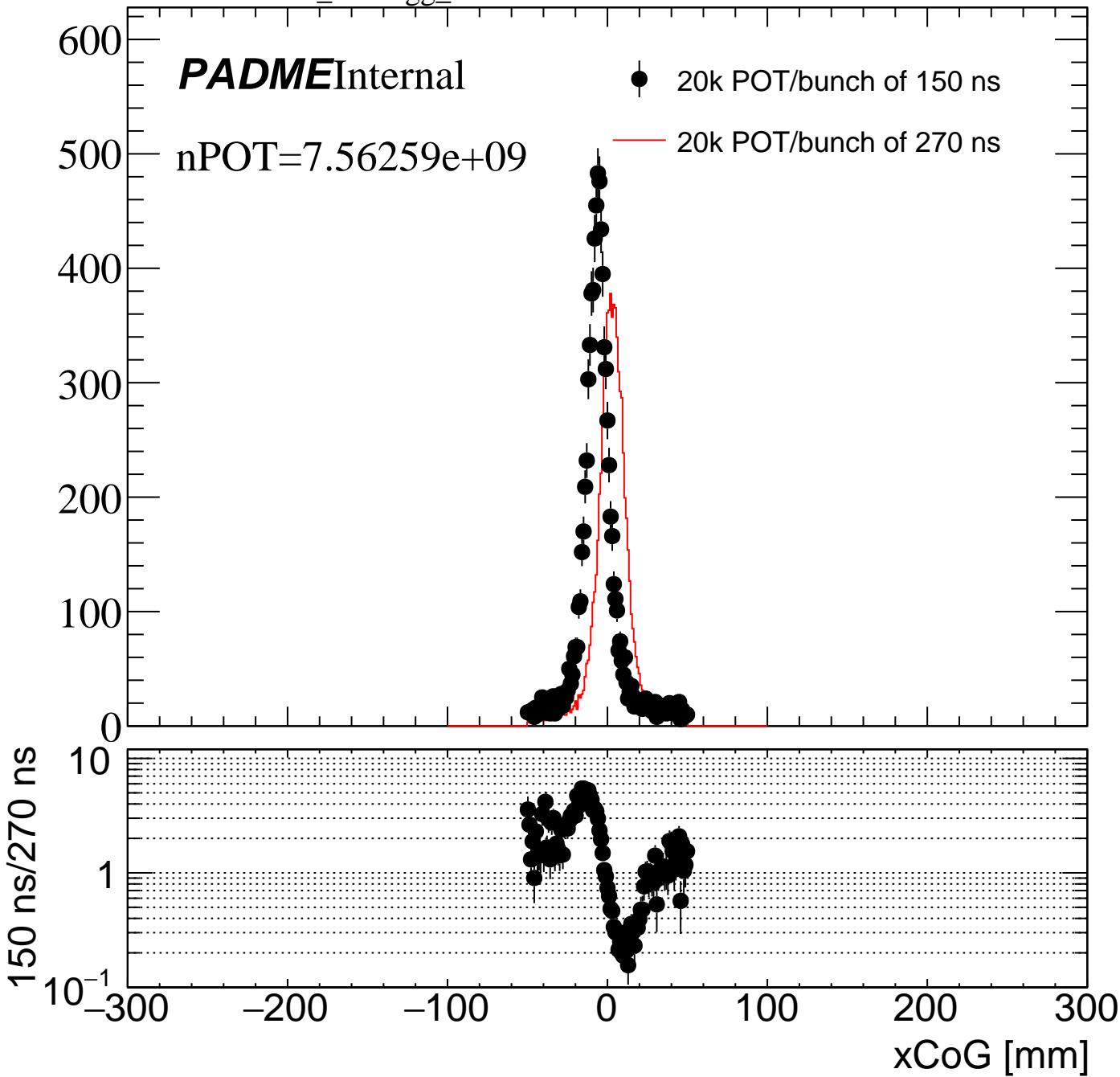
● 20k POT/bunch of 150 ns

— 20k POT/bunch of 270 ns

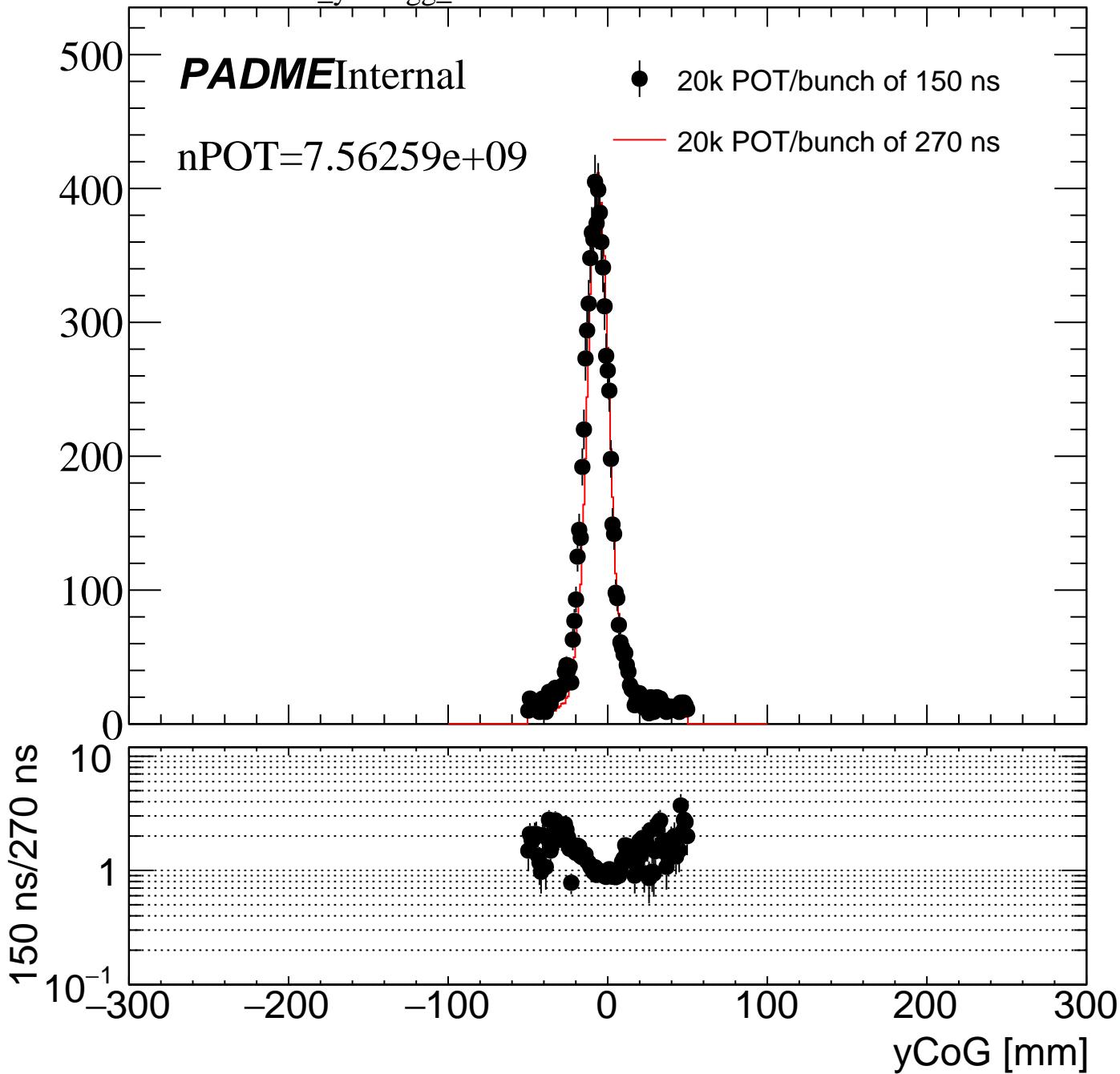




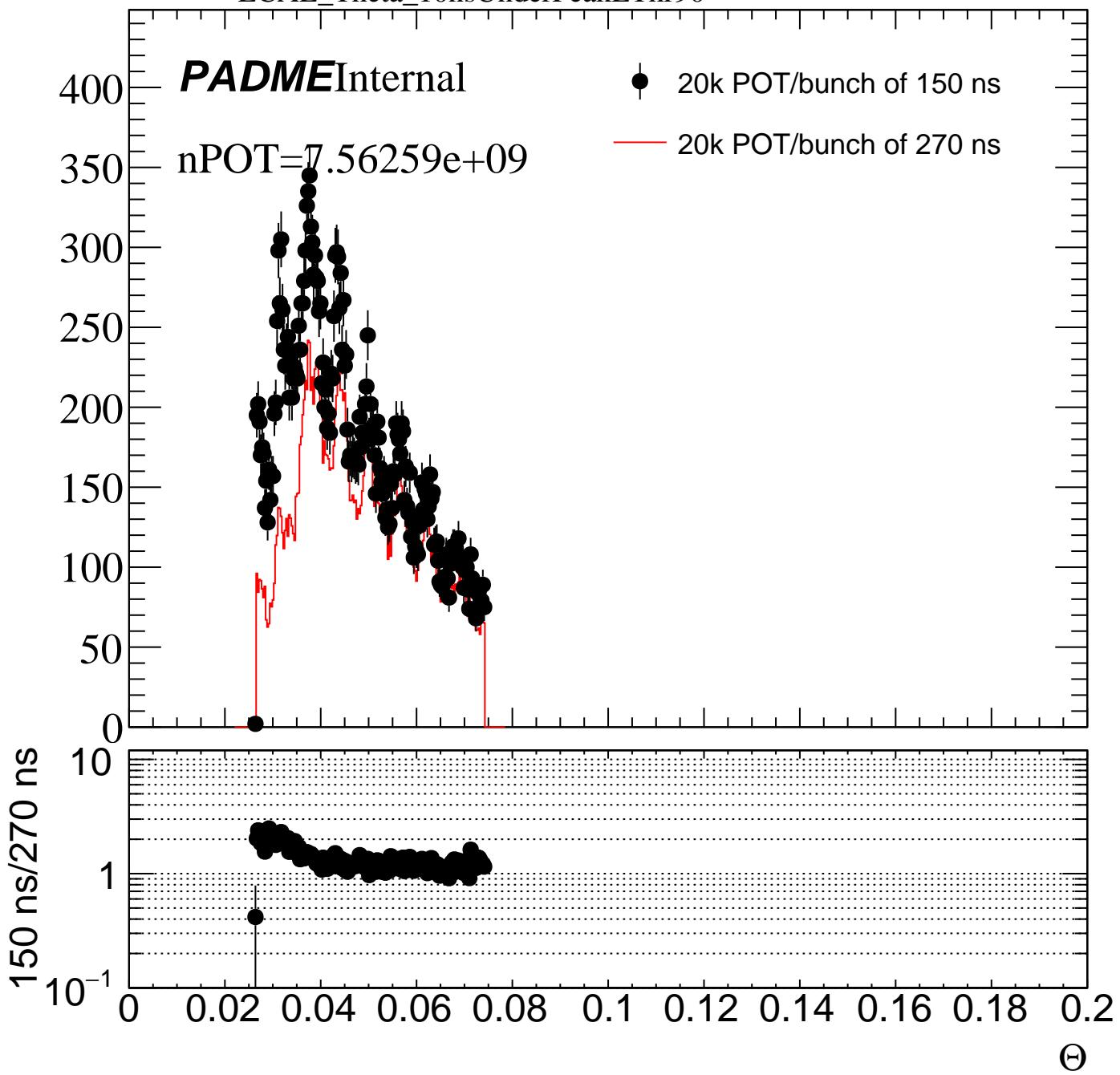
ECAL\_xCoGgg\_10ns5CoGUnderPeakEThr90



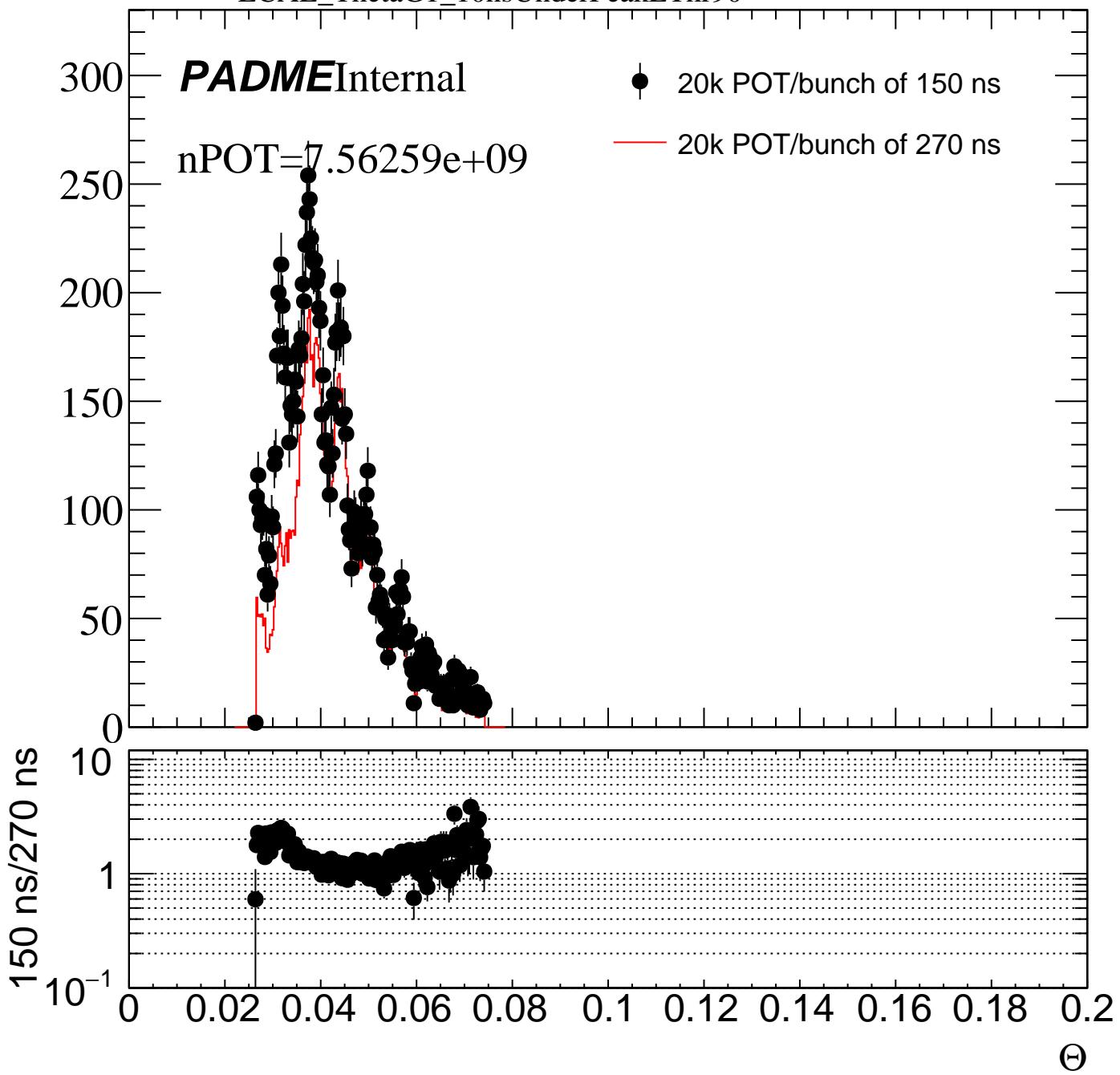
ECAL\_yCoGgg\_10ns5CoGUnderPeakEThr90



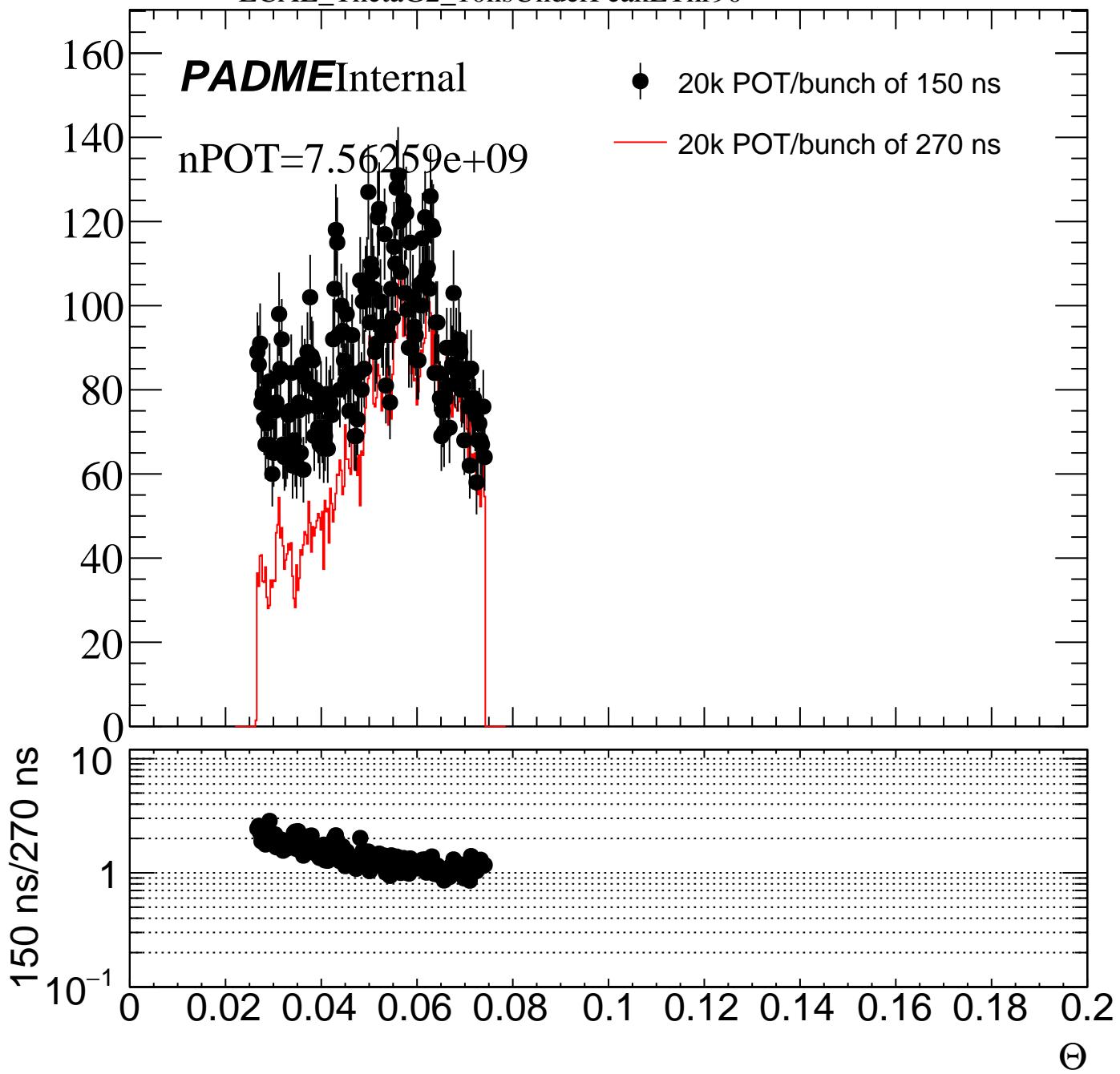
ECAL\_Theta\_10nsUnderPeakEThr90

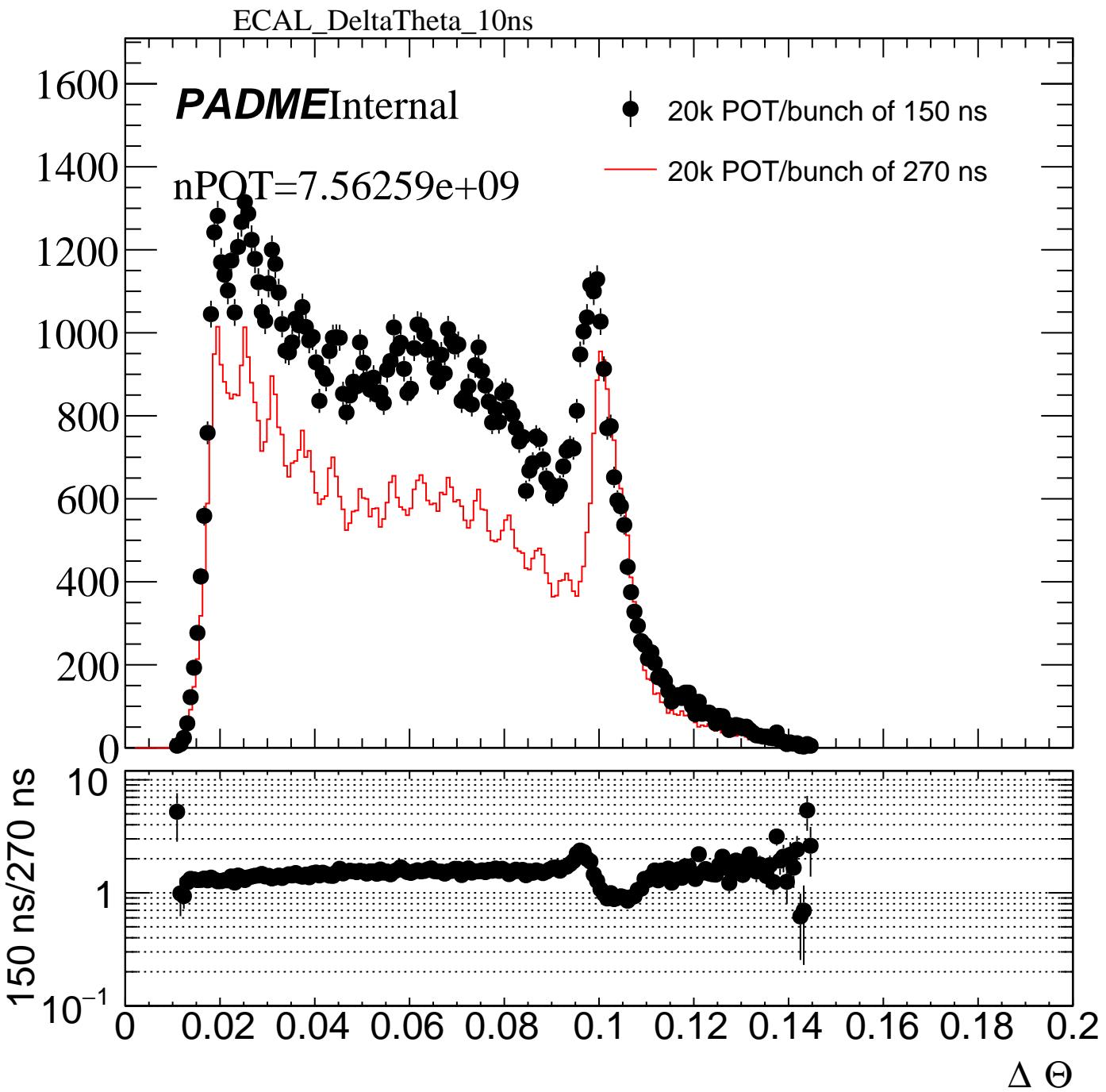


ECAL\_ThetaG1\_10nsUnderPeakEThr90

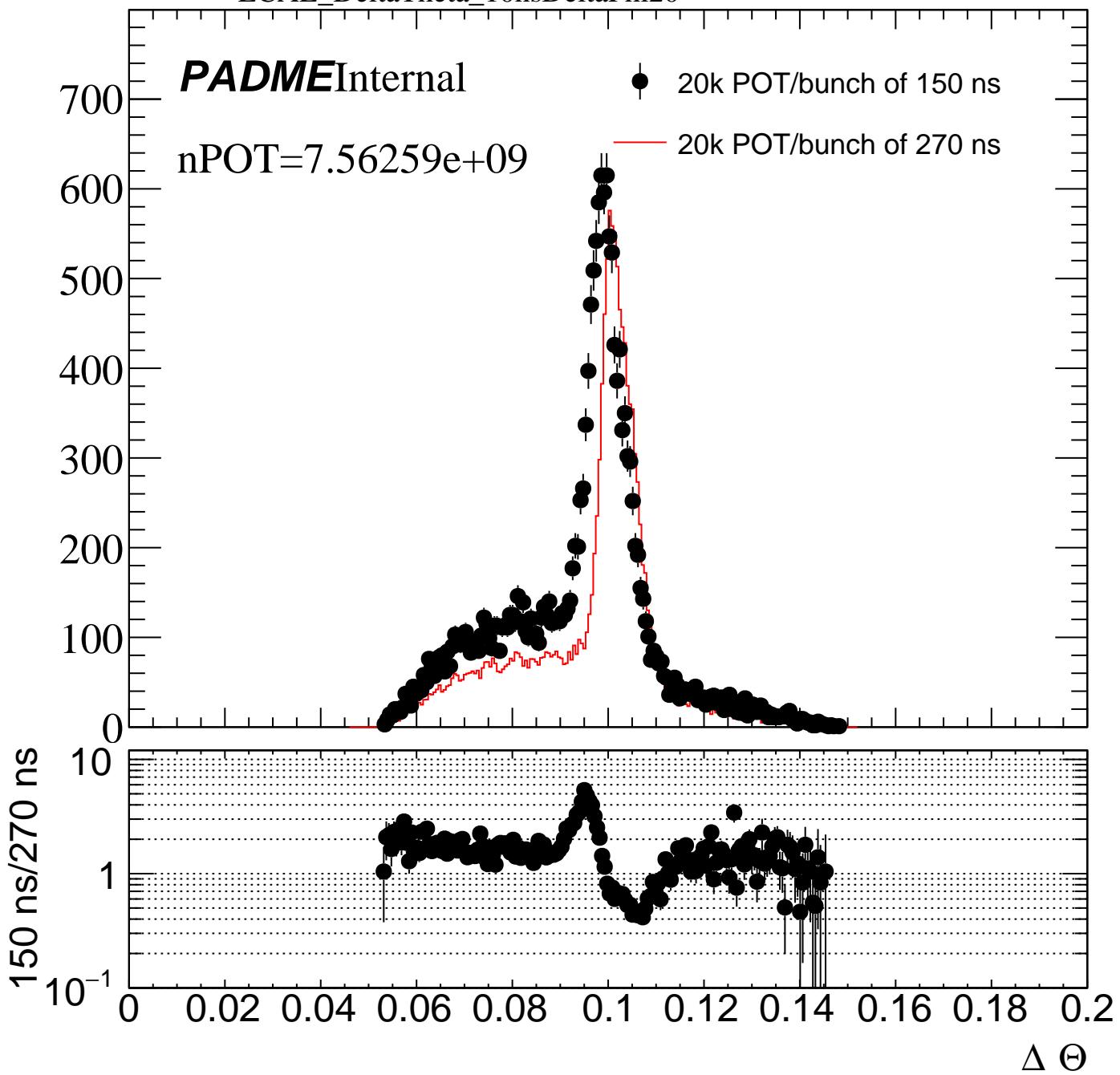


ECAL\_ThetaG2\_10nsUnderPeakEThr90

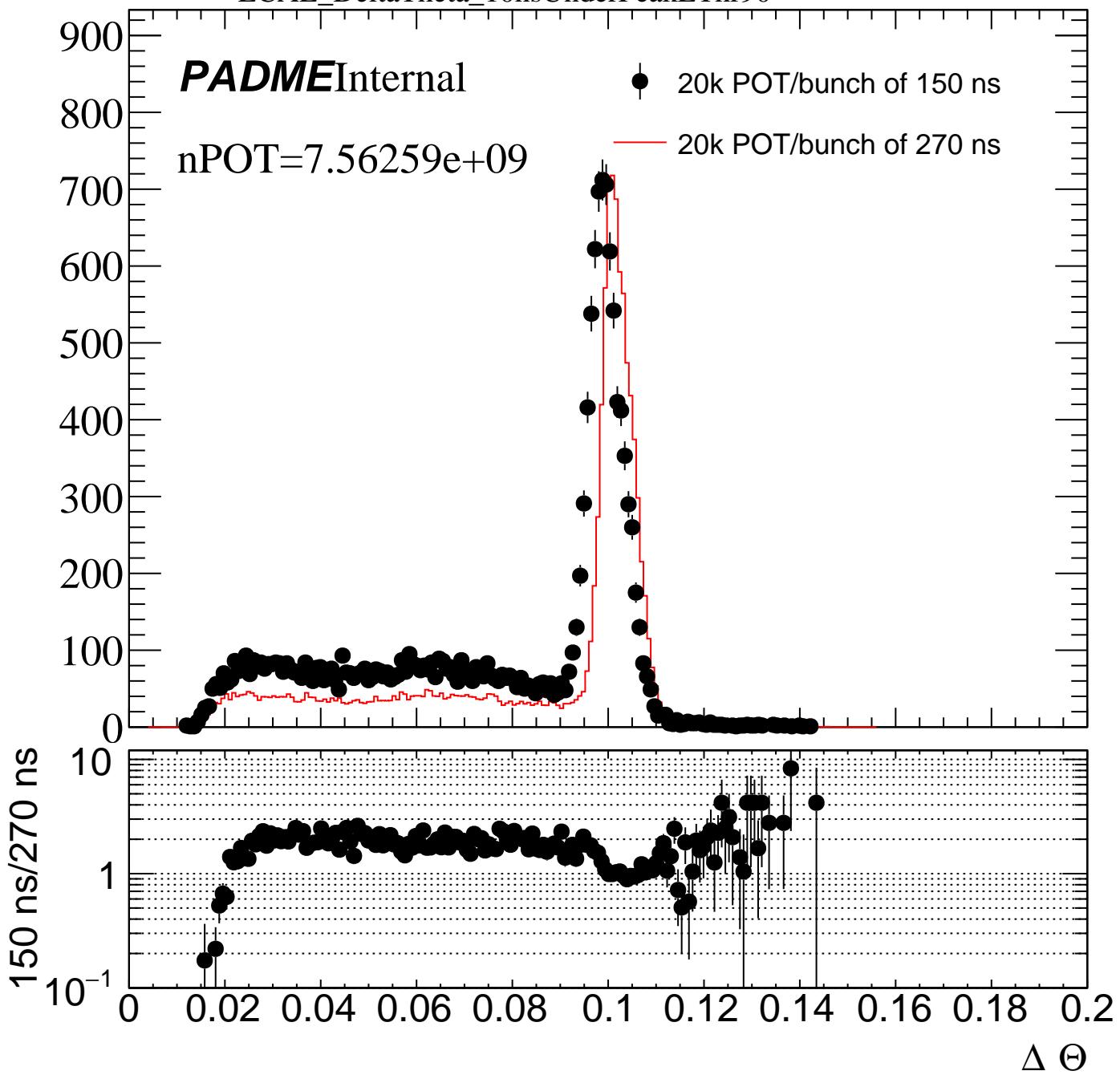


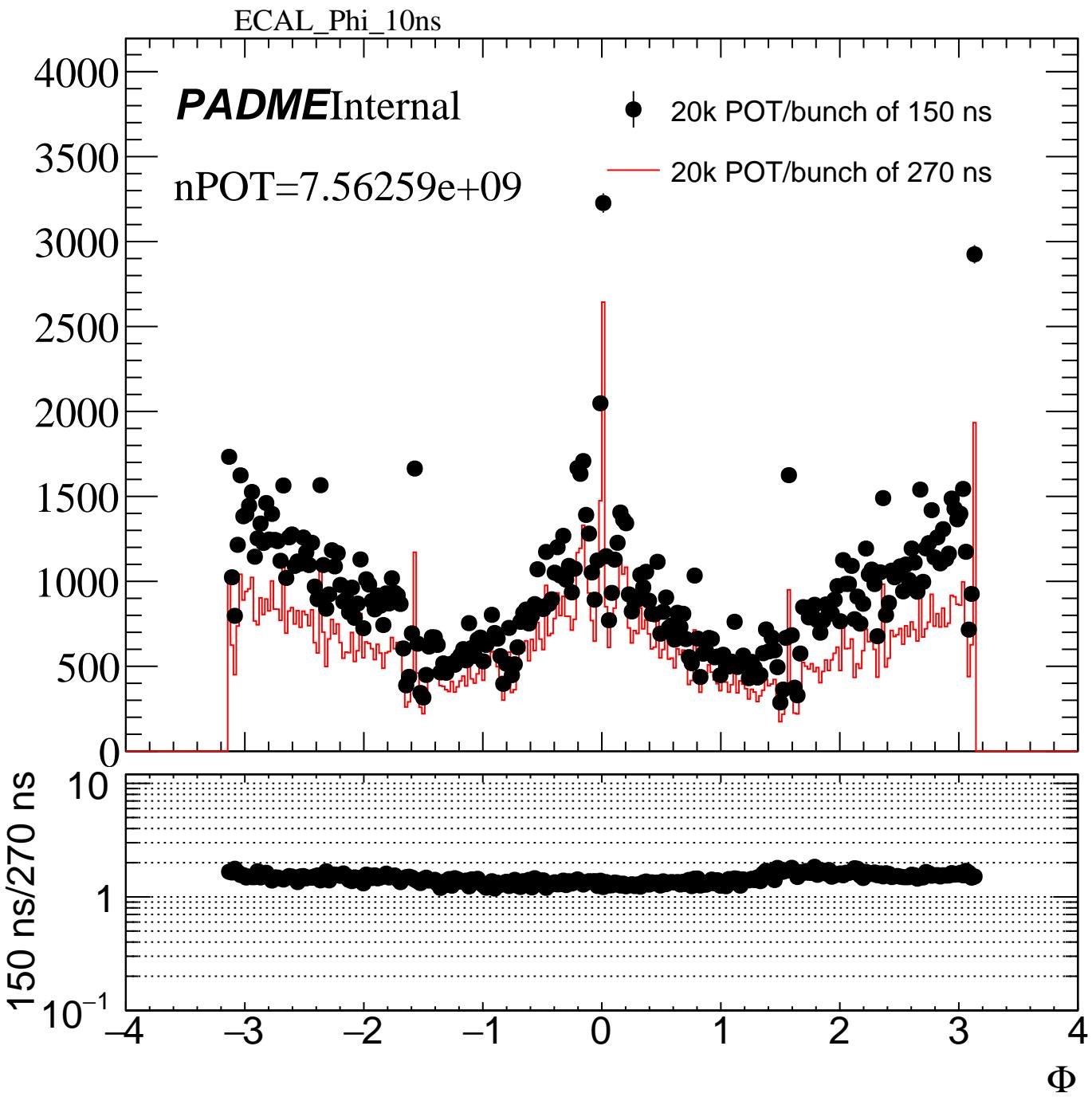


ECAL\_DeltaTheta\_10nsDeltaPhi20

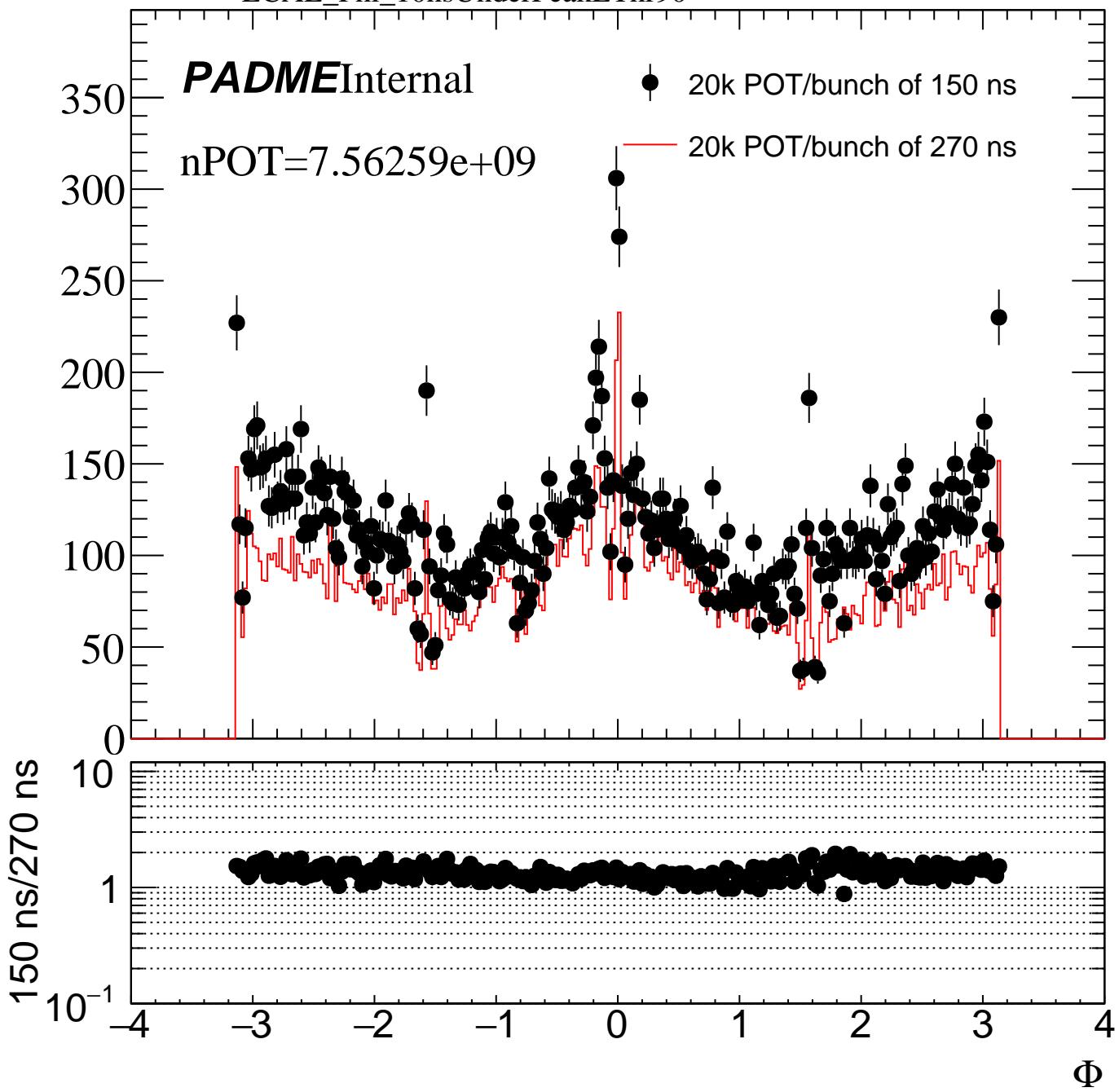


ECAL\_DeltaTheta\_10nsUnderPeakEThr90

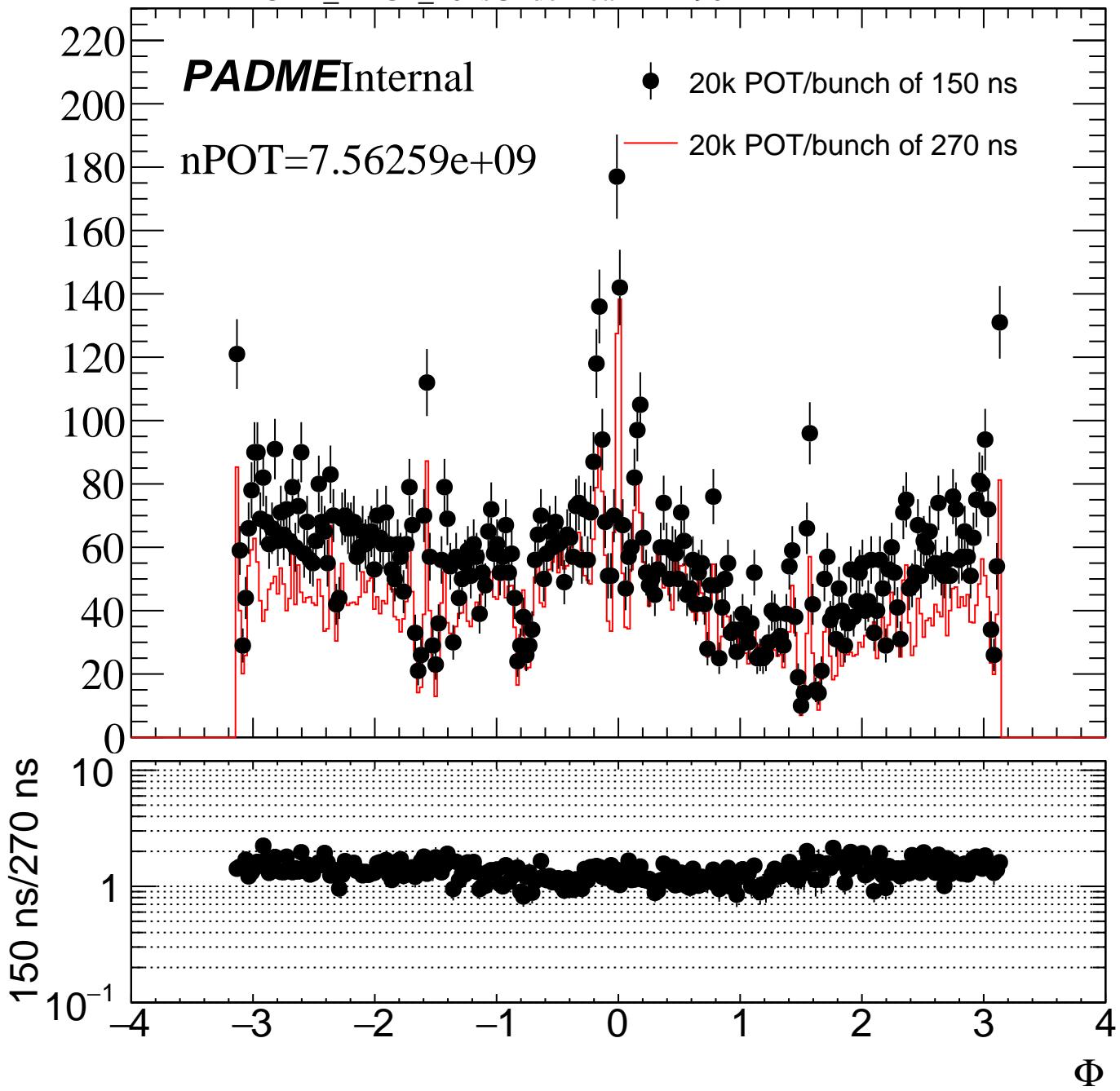




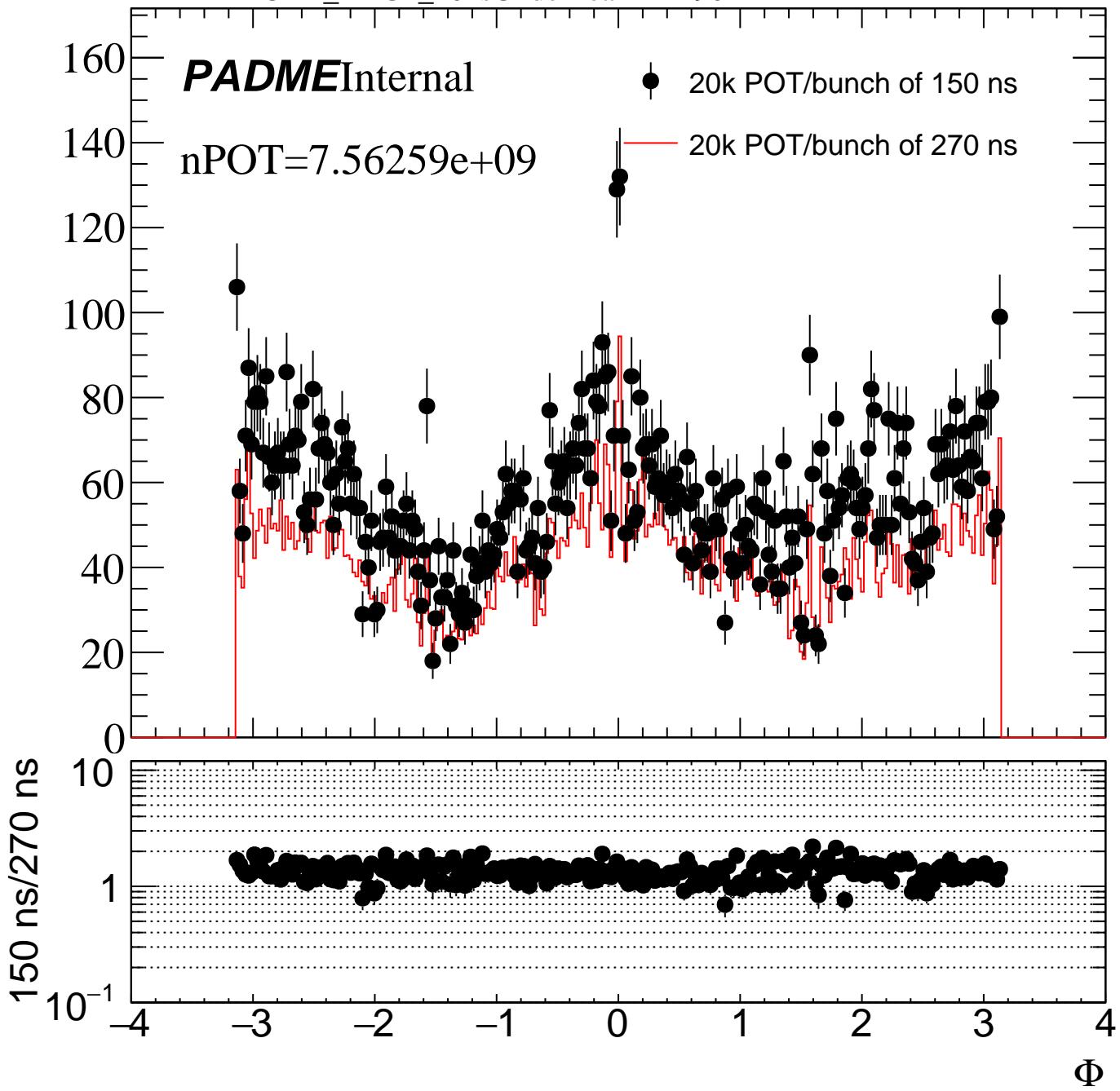
ECAL\_Phi\_10nsUnderPeakEThr90



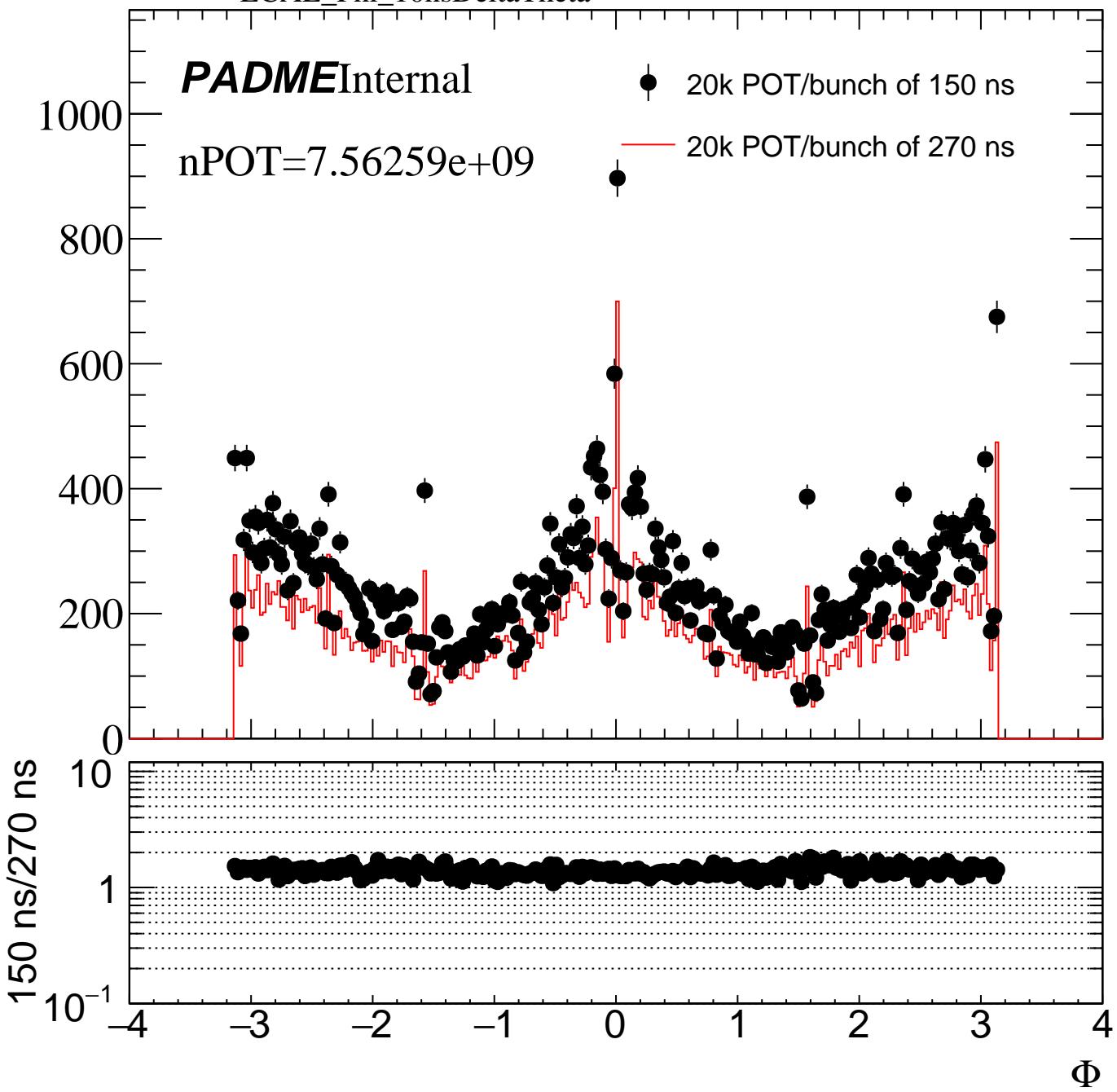
ECAL\_PhiG1\_10nsUnderPeakEThr90



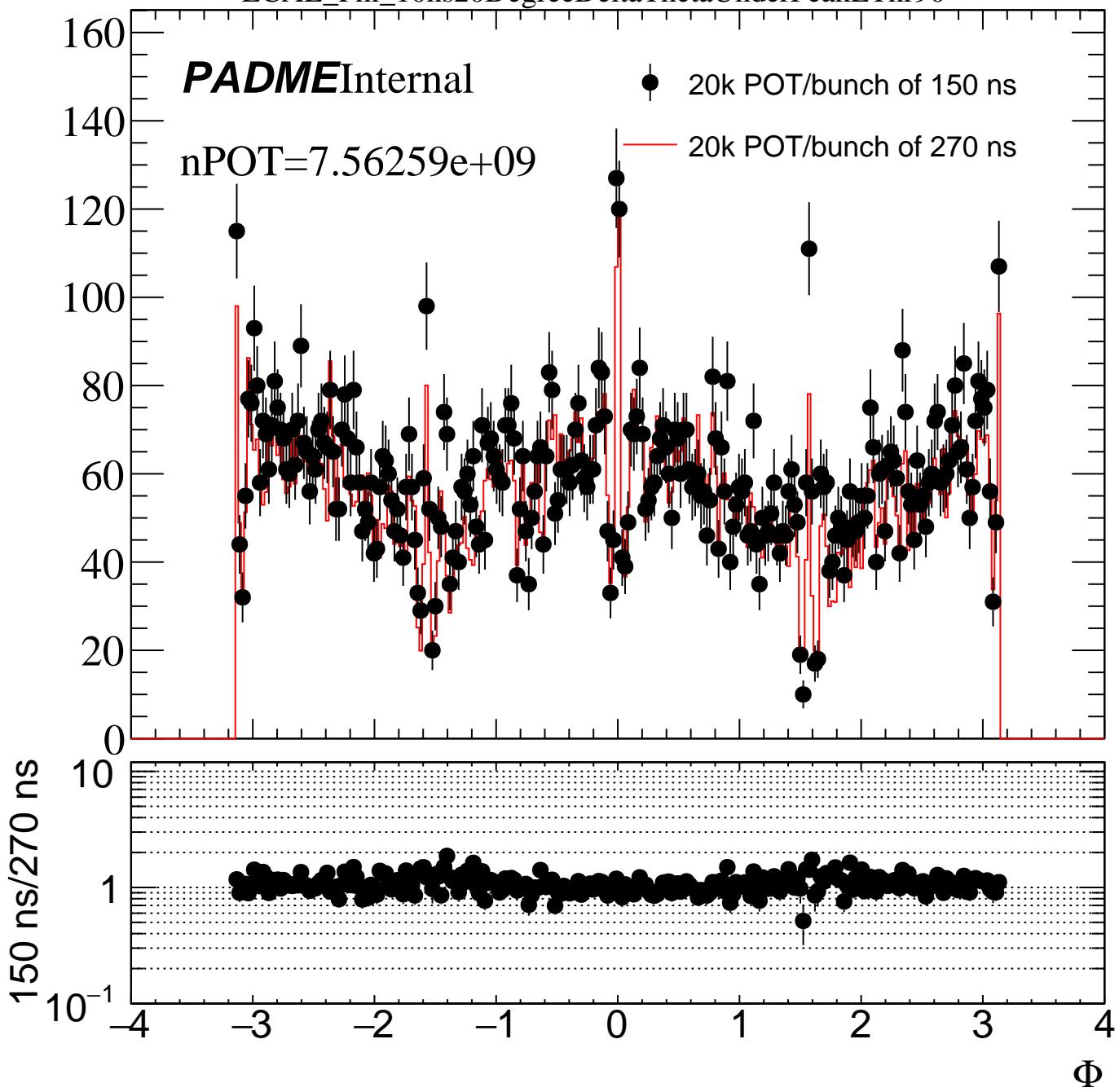
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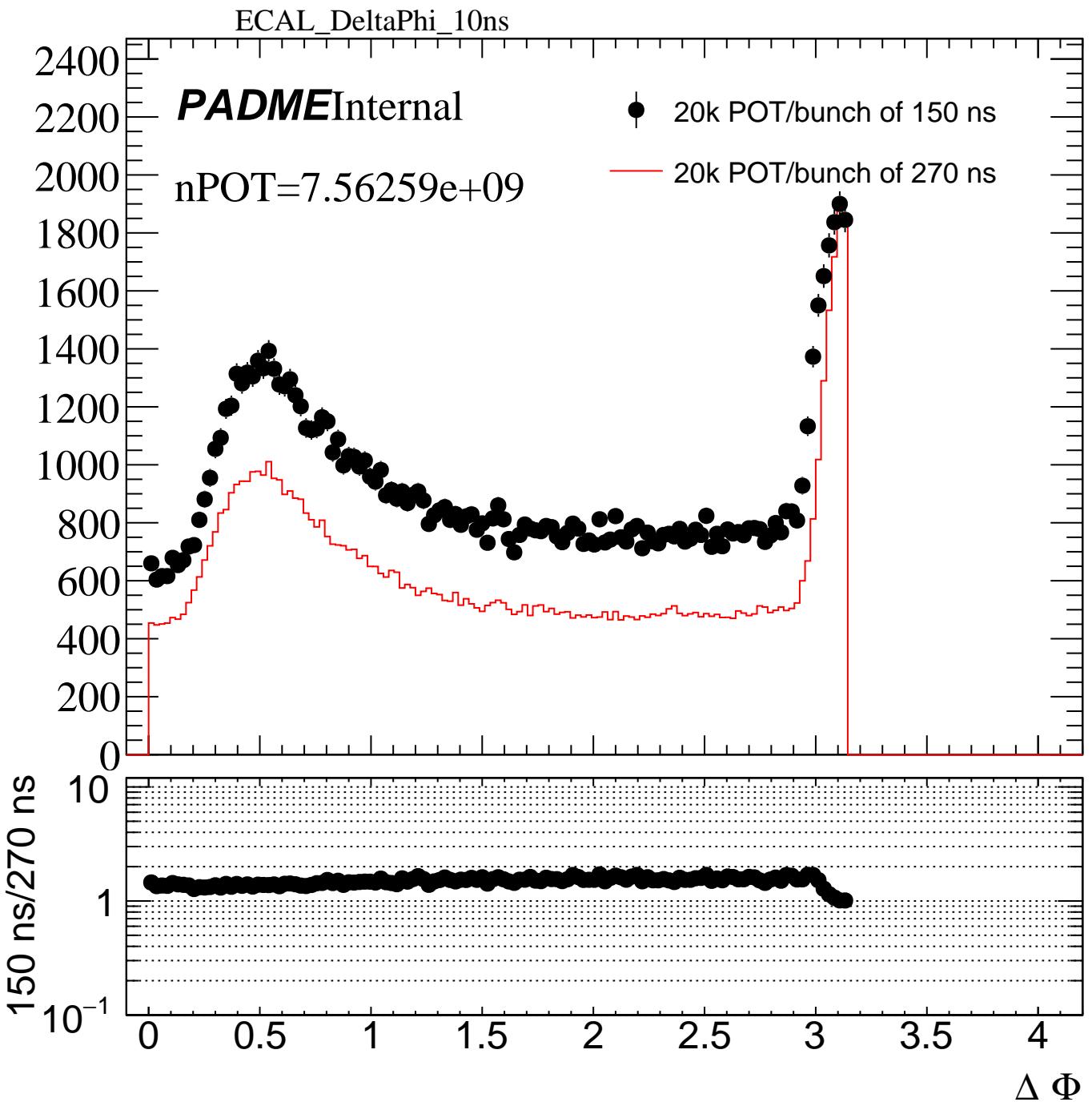


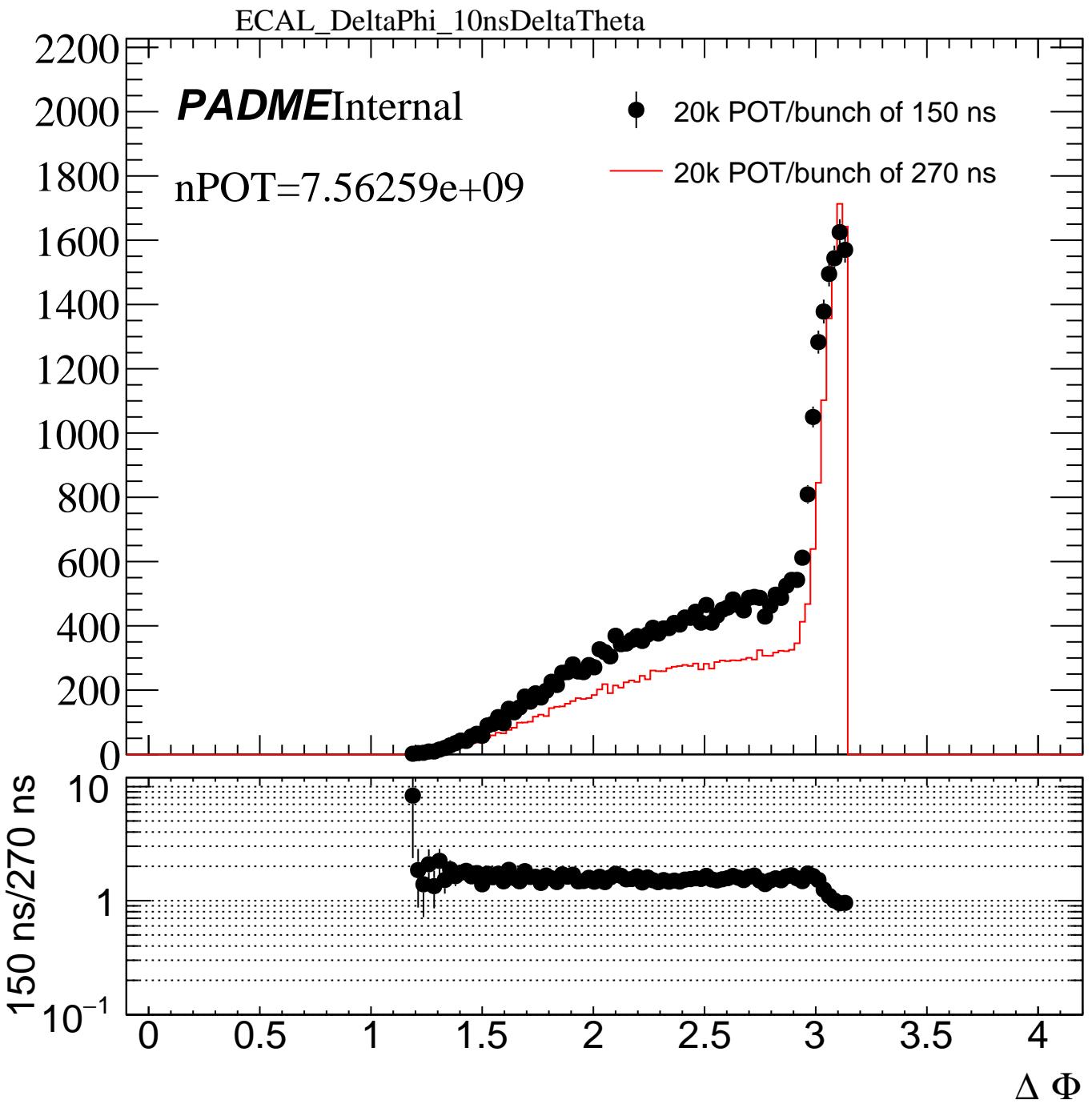
ECAL\_Phi\_10nsDeltaTheta



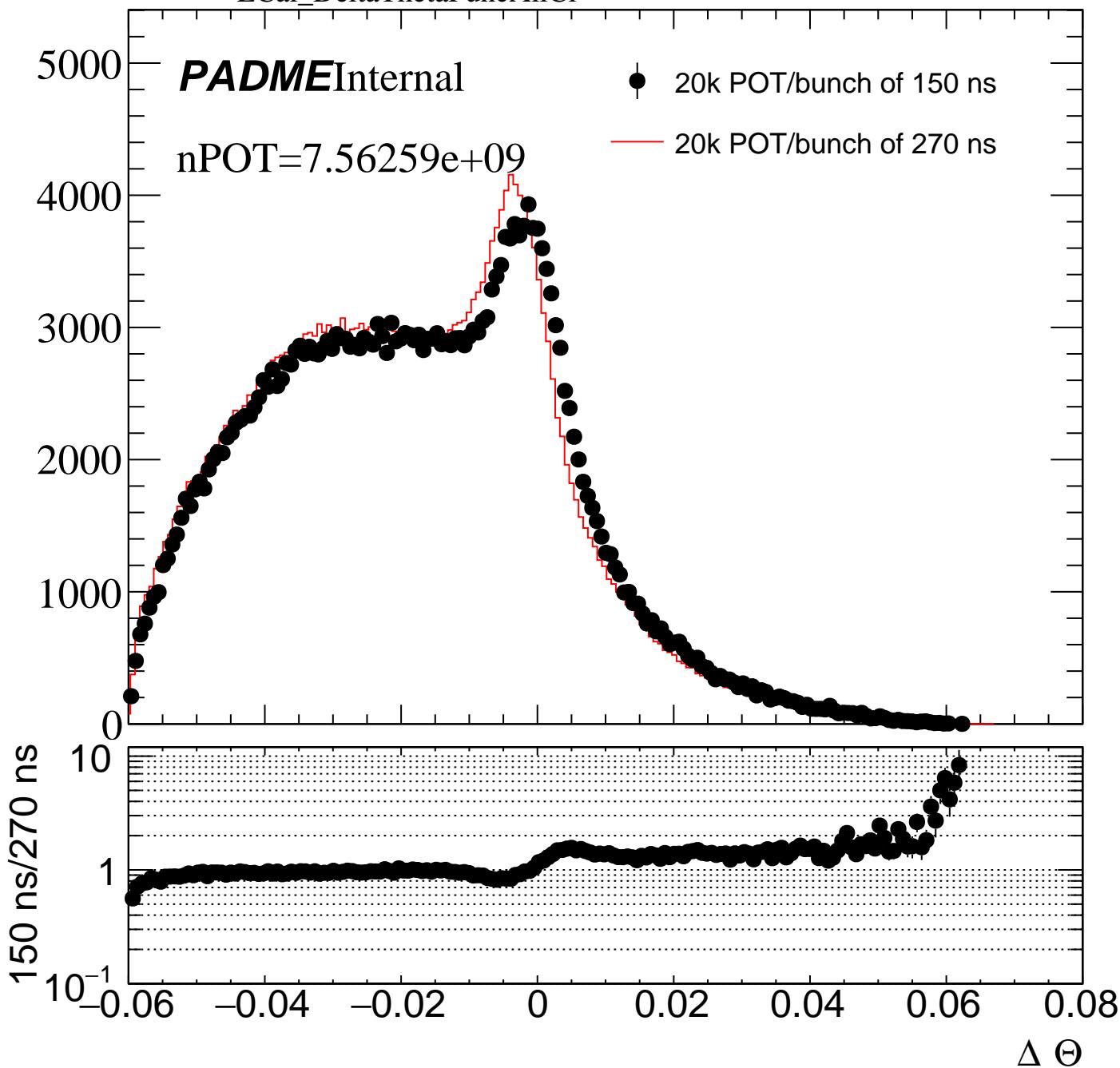
ECAL\_Phi\_10ns20DegreeDeltaThetaUnderPeakEThr90



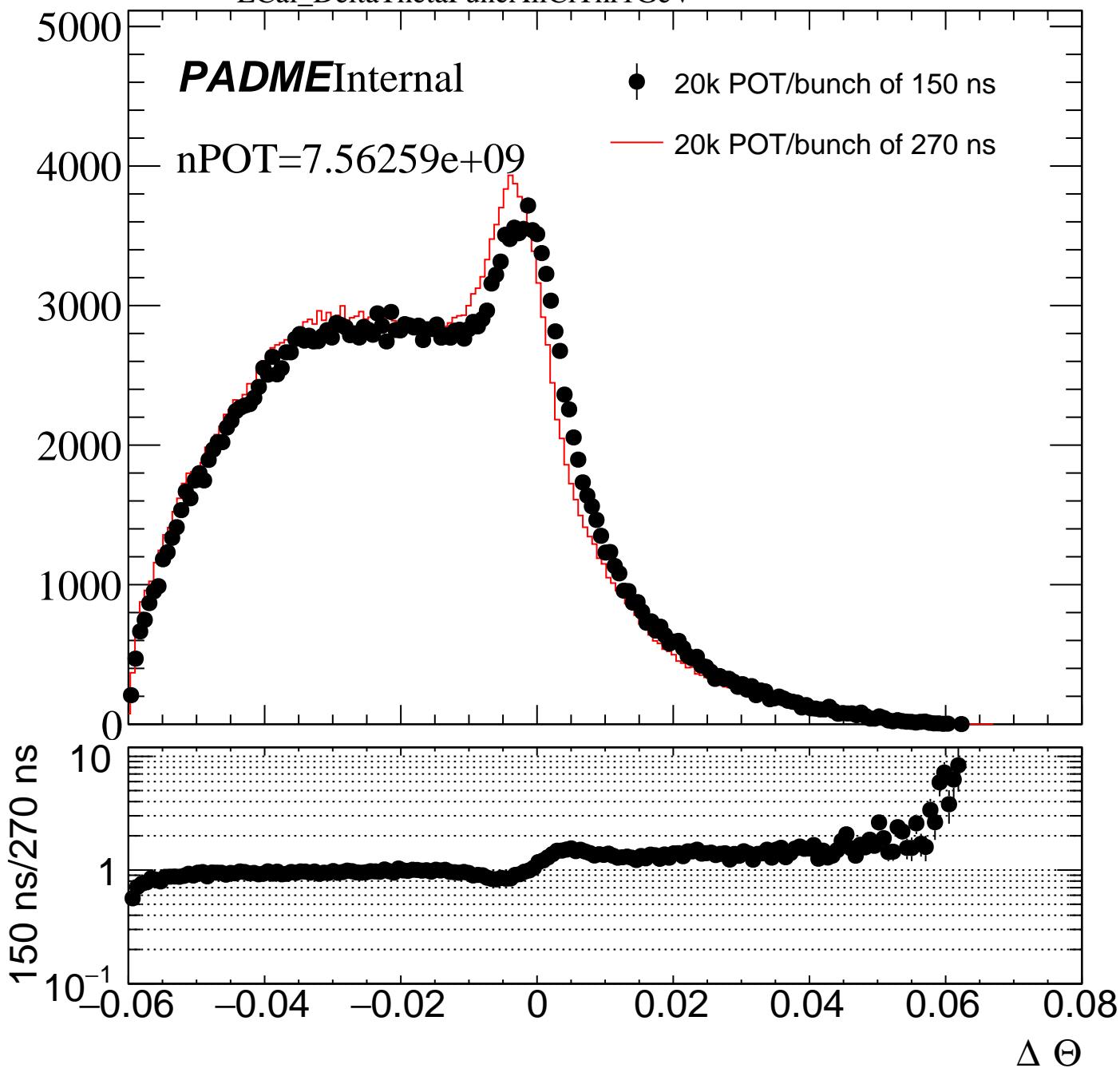




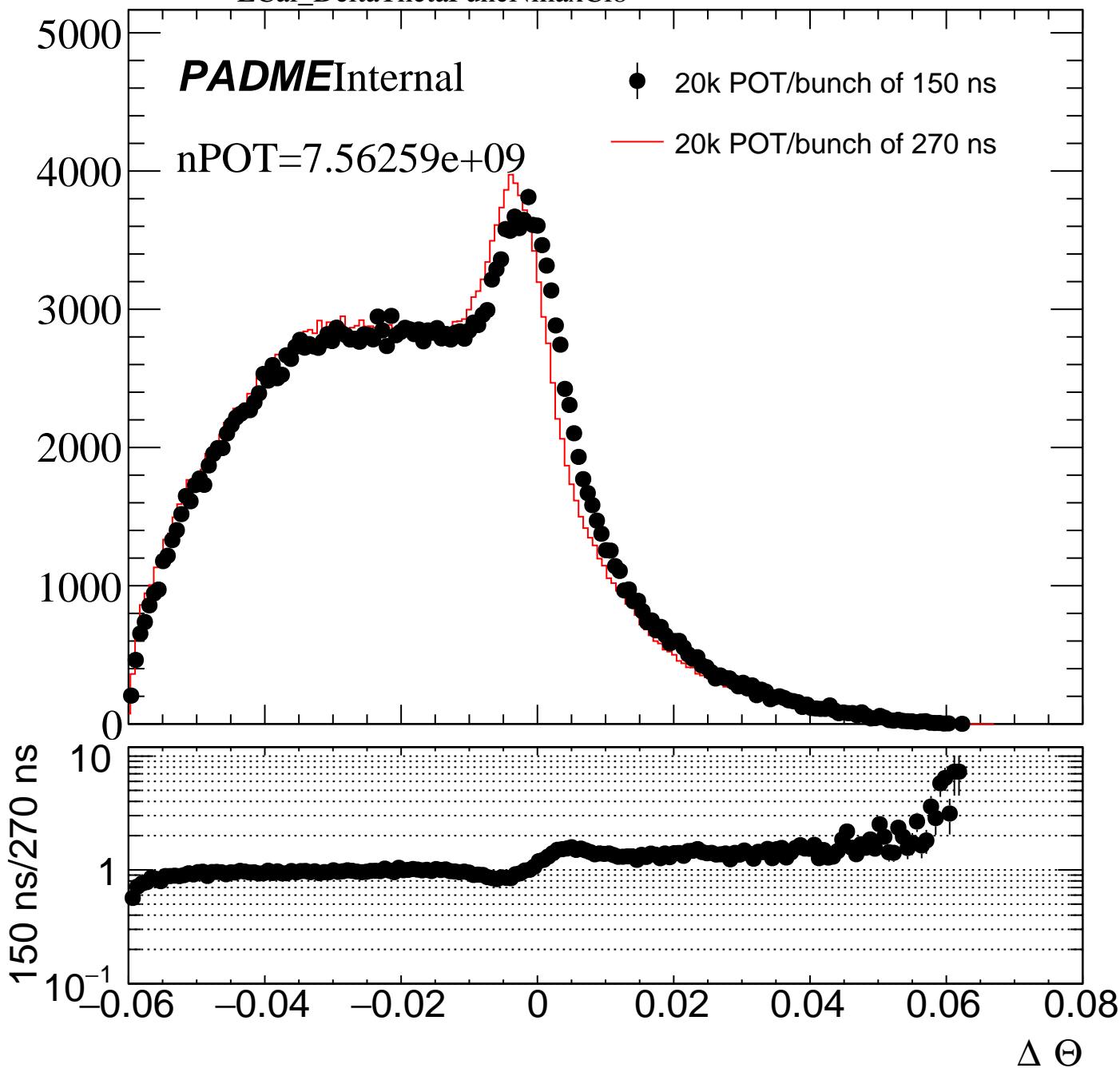
ECal\_DeltaThetaFuncAllCl



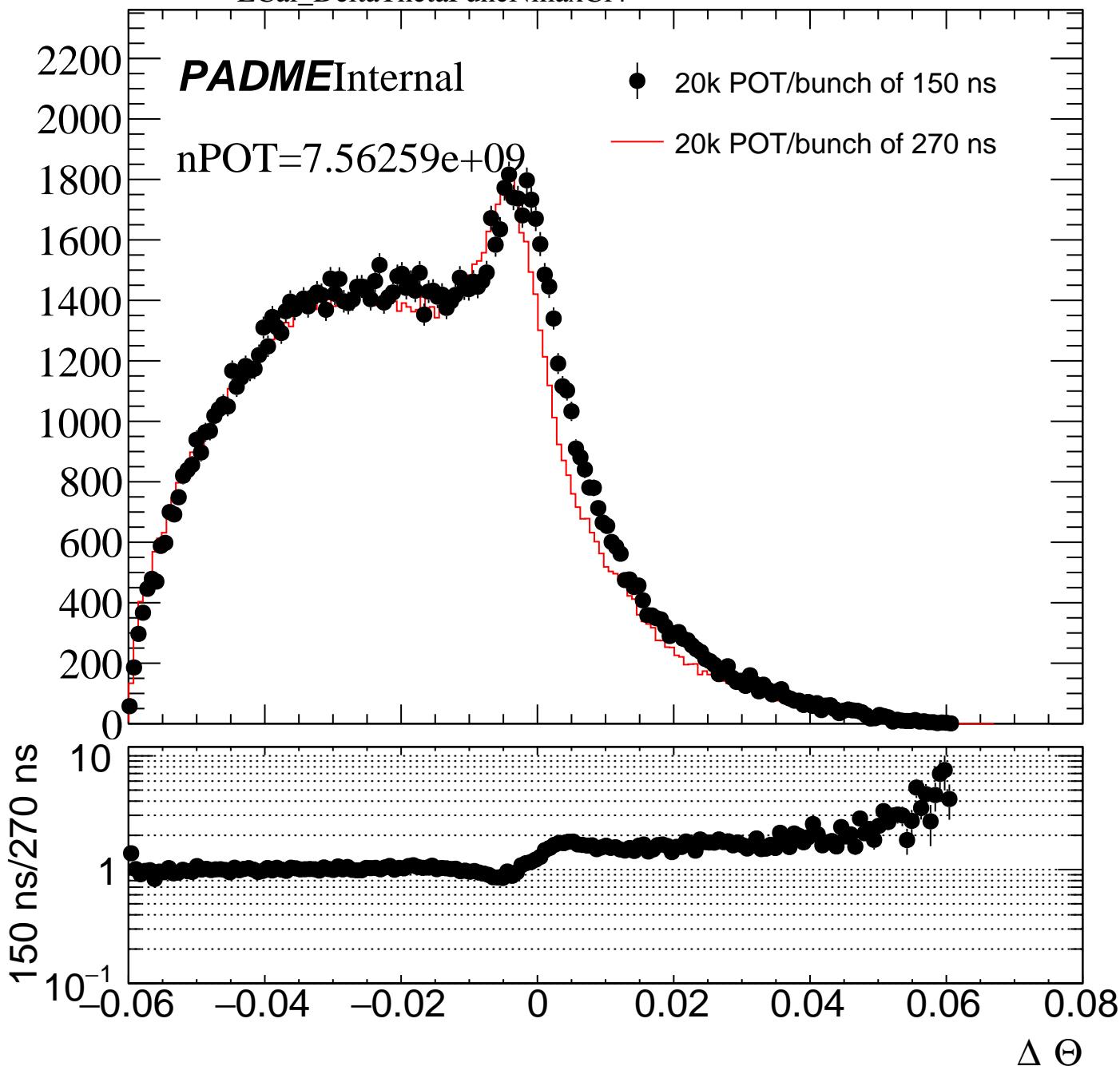
ECal\_DeltaThetaFuncAllClThr1GeV

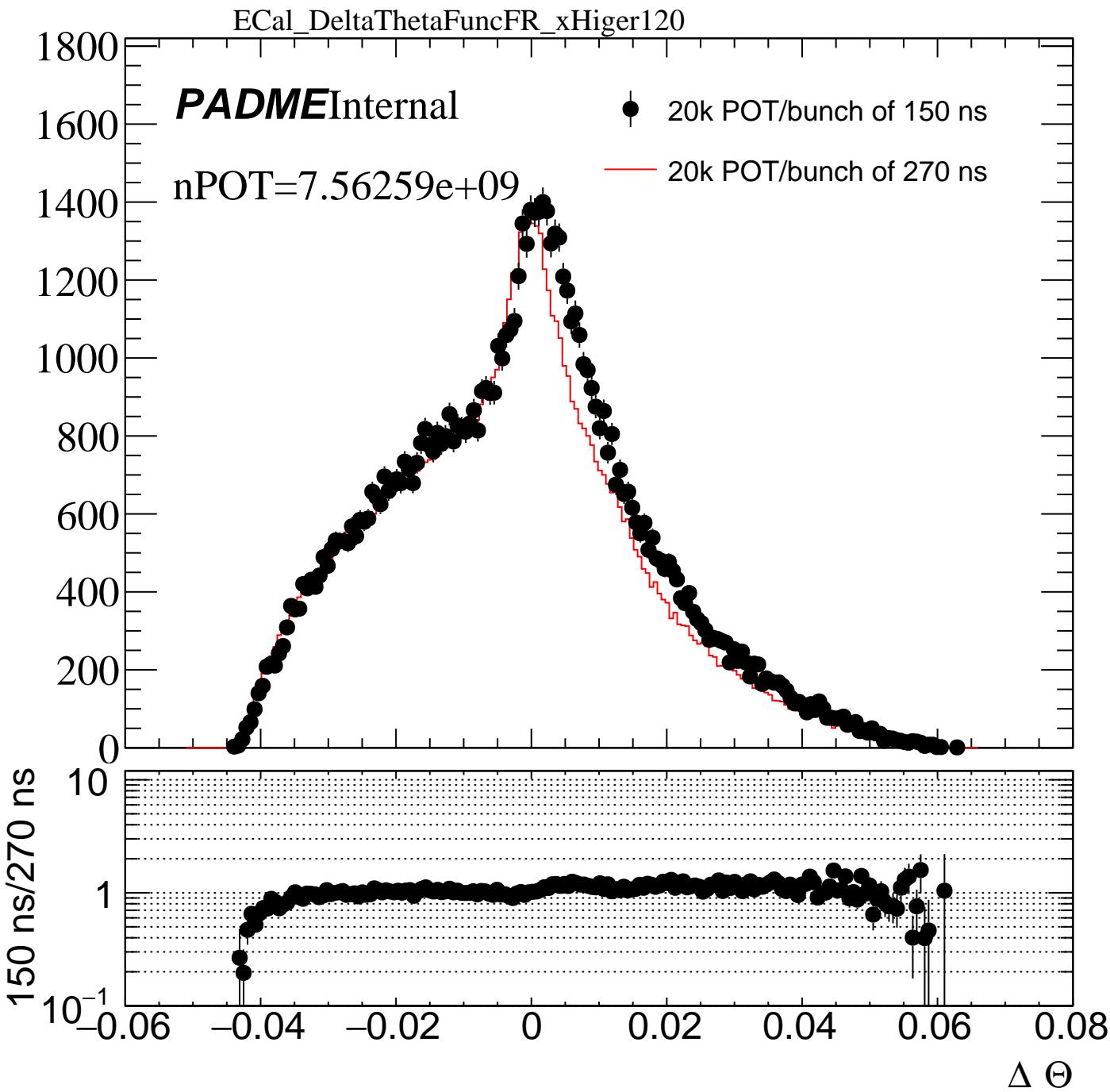


ECal\_DeltaThetaFuncNmaxC18

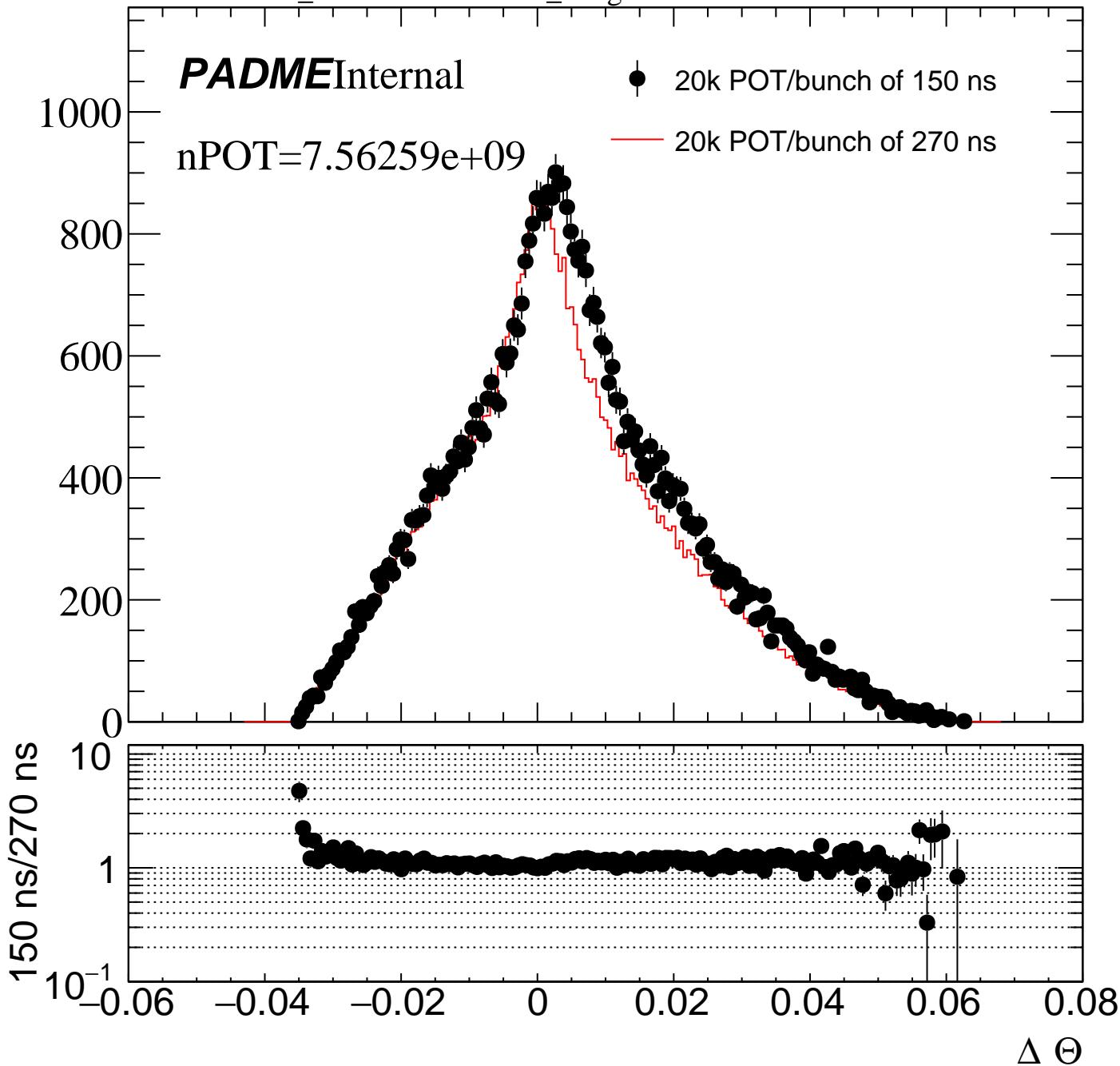


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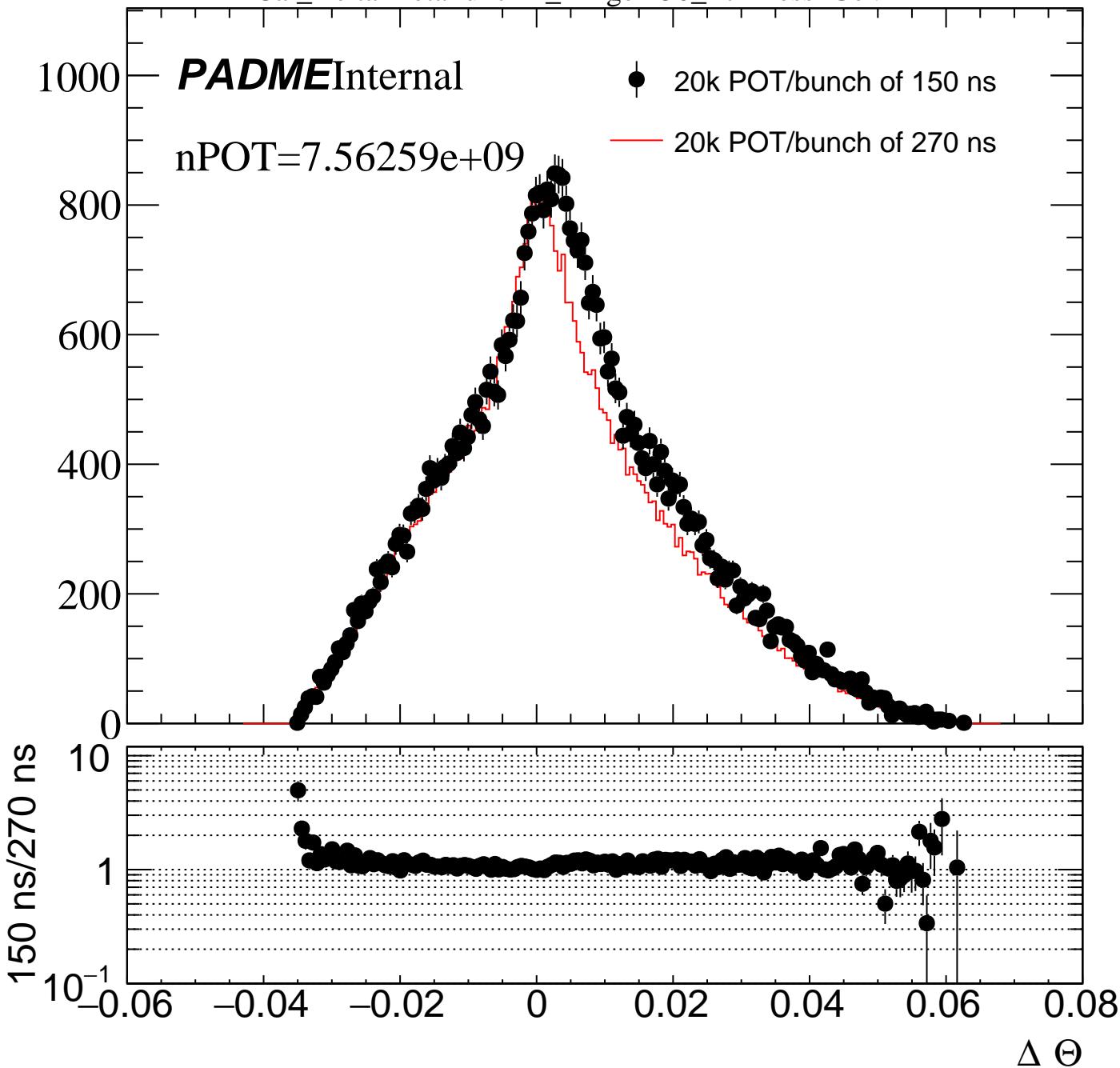


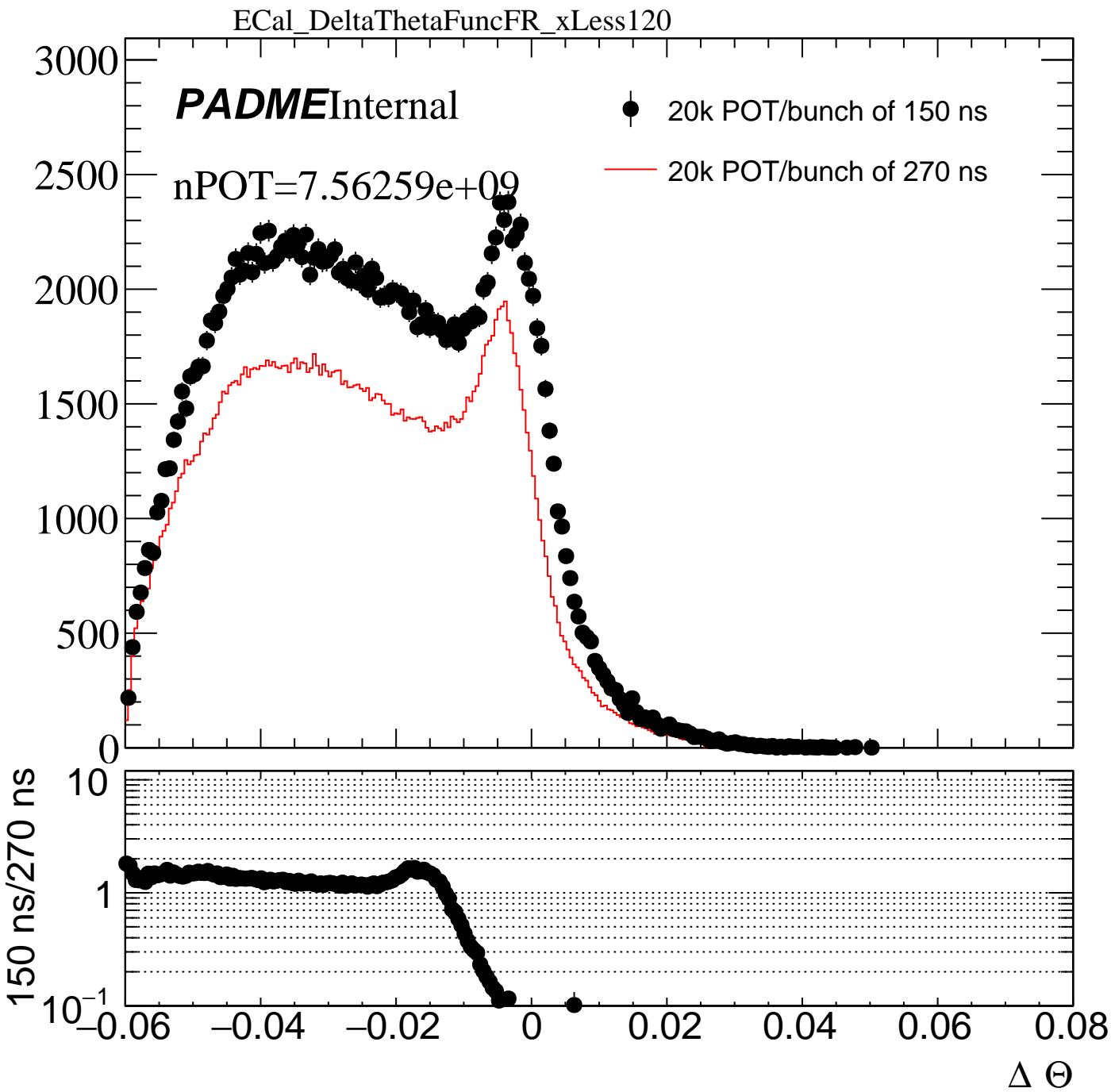


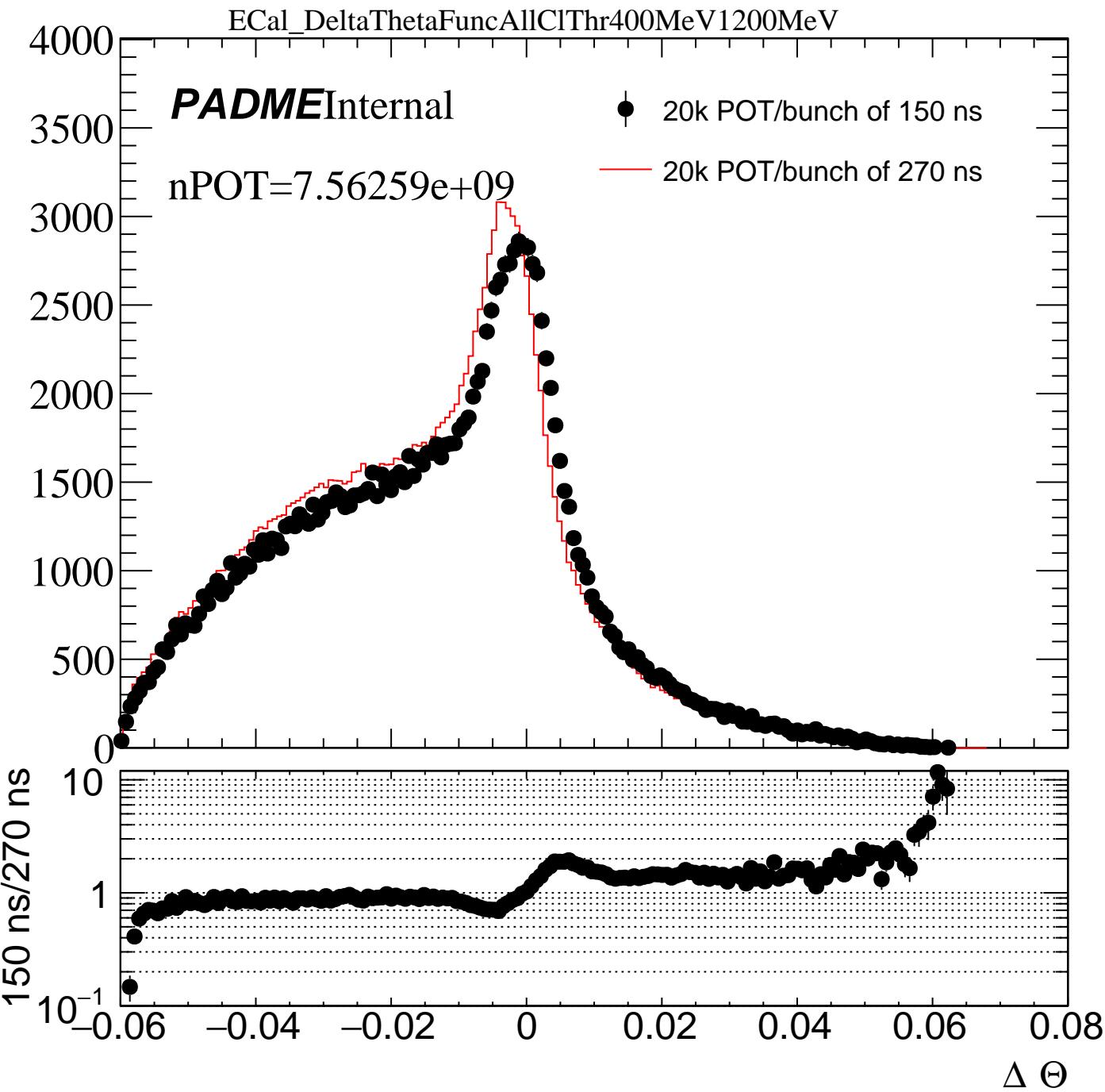
ECal\_DeltaThetaFuncFR\_xHiger150

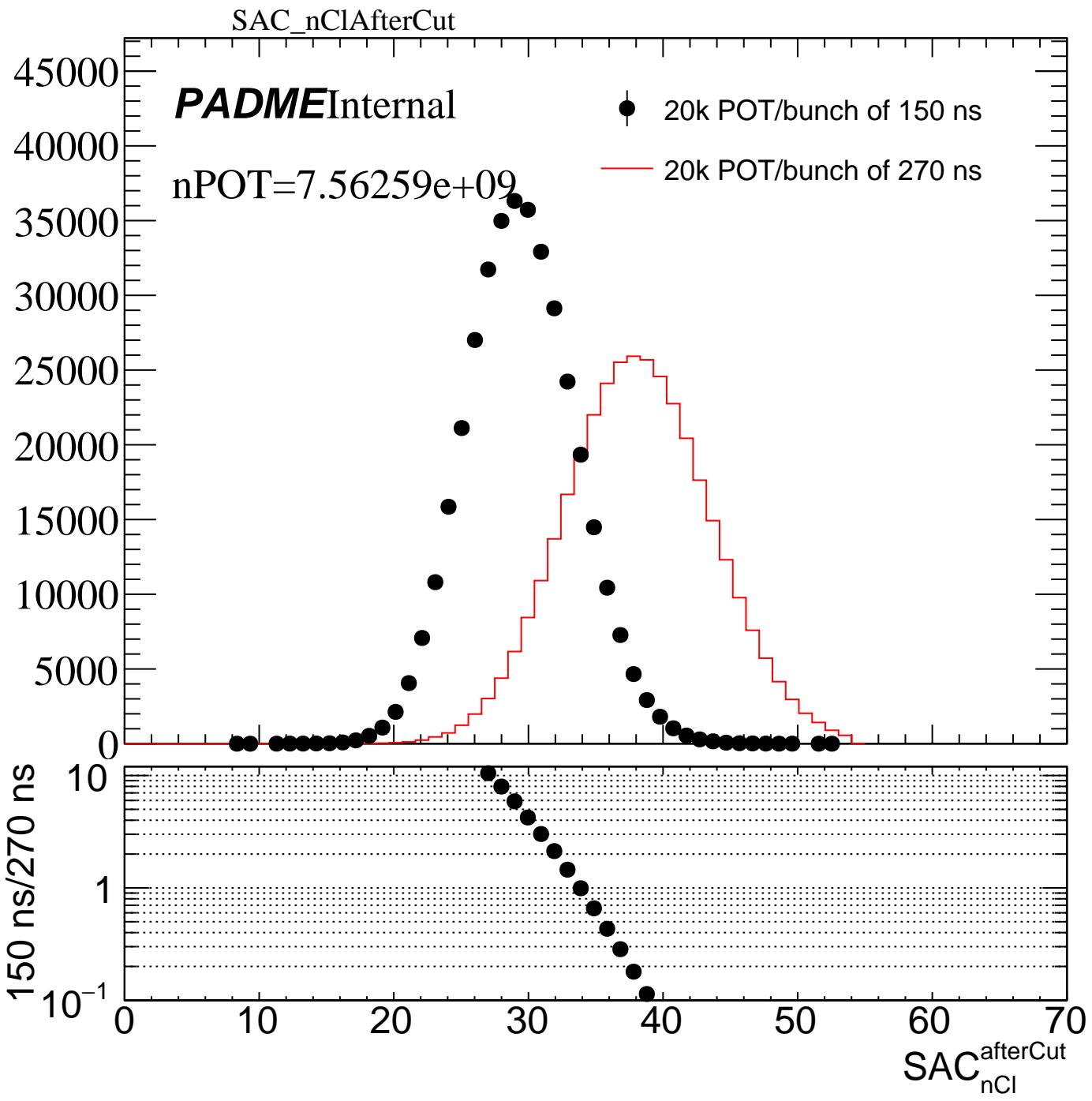


ECal\_DeltaThetaFuncFR\_xHiger150\_EthrLess1GeV

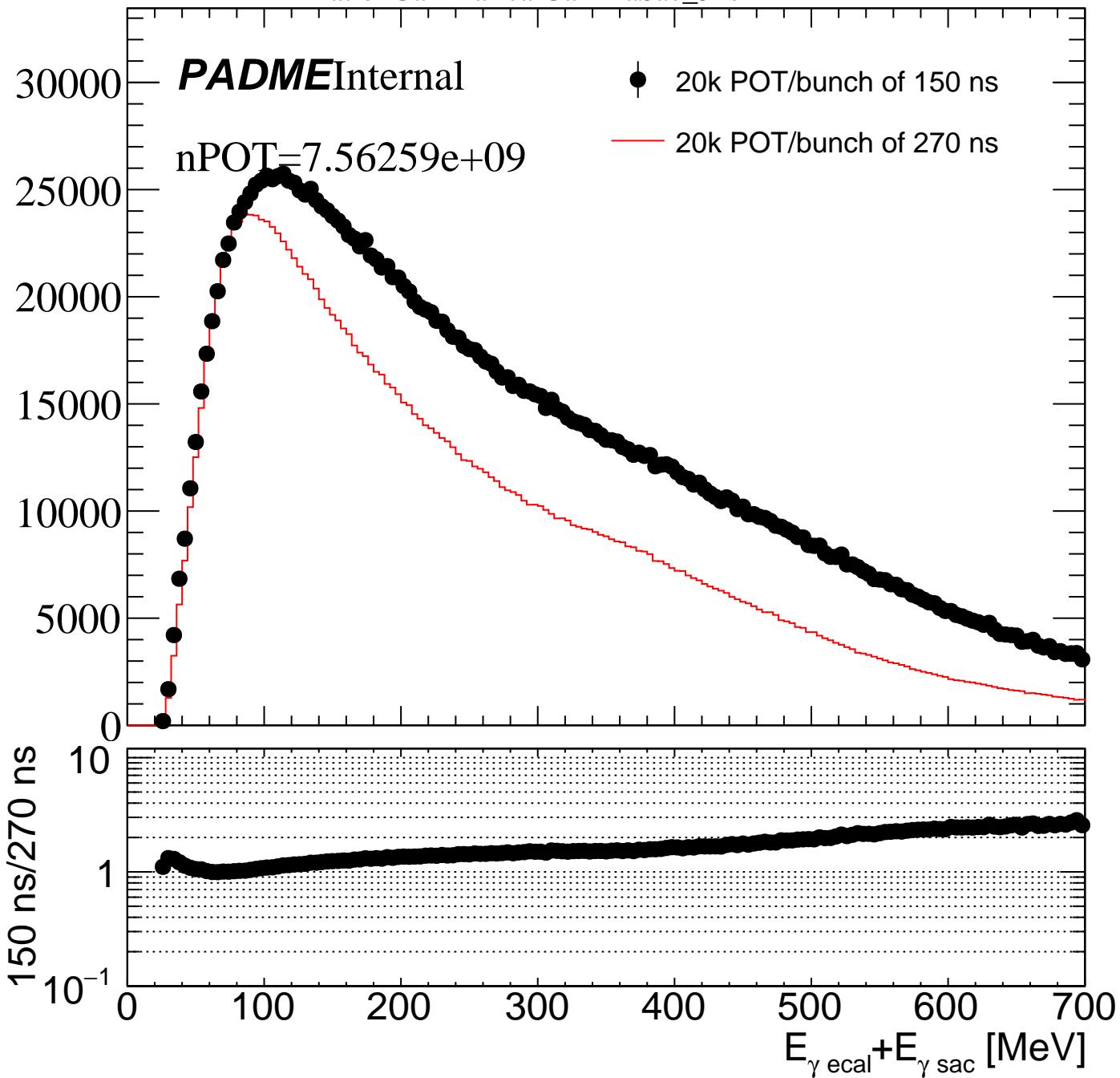




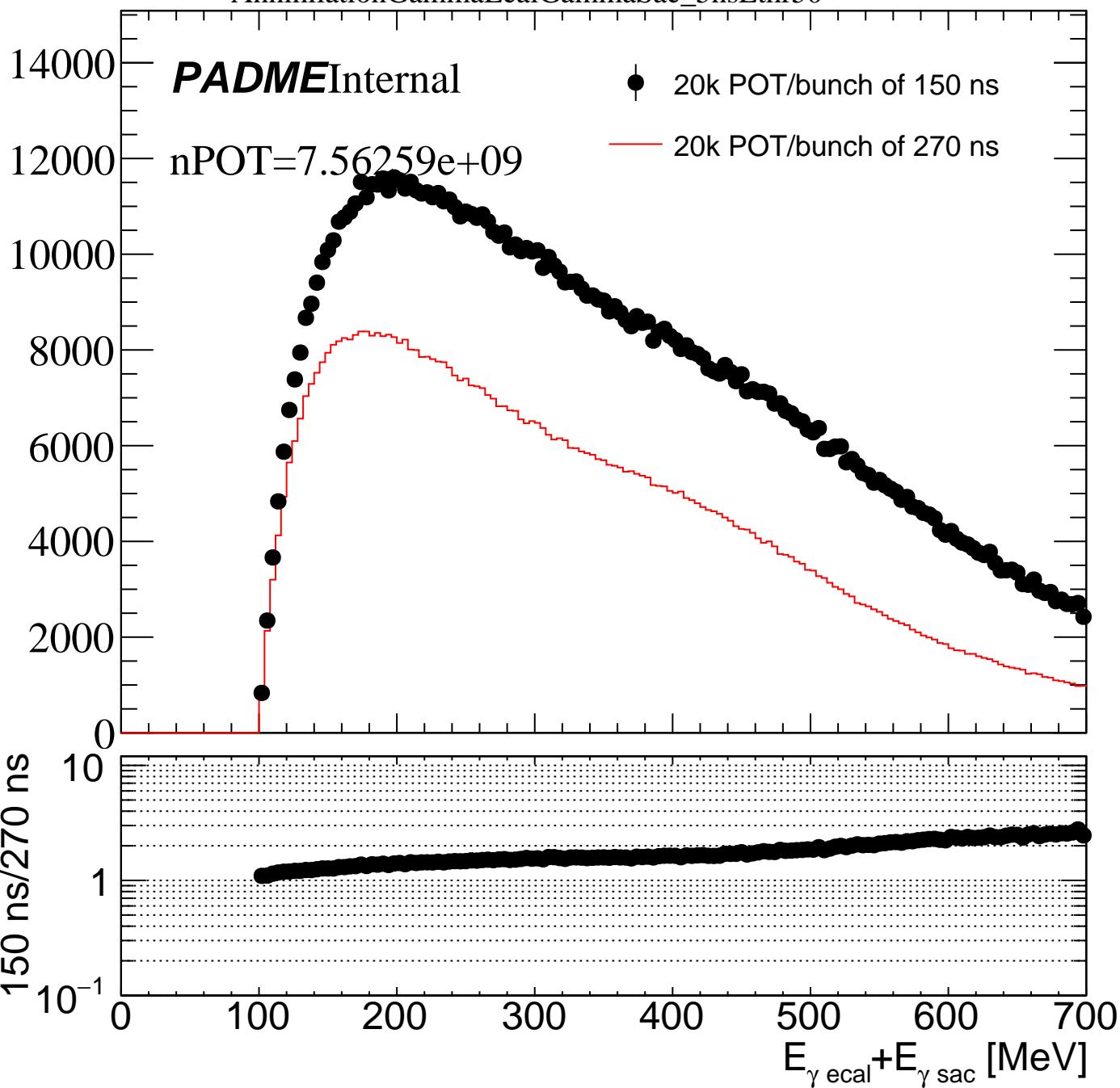


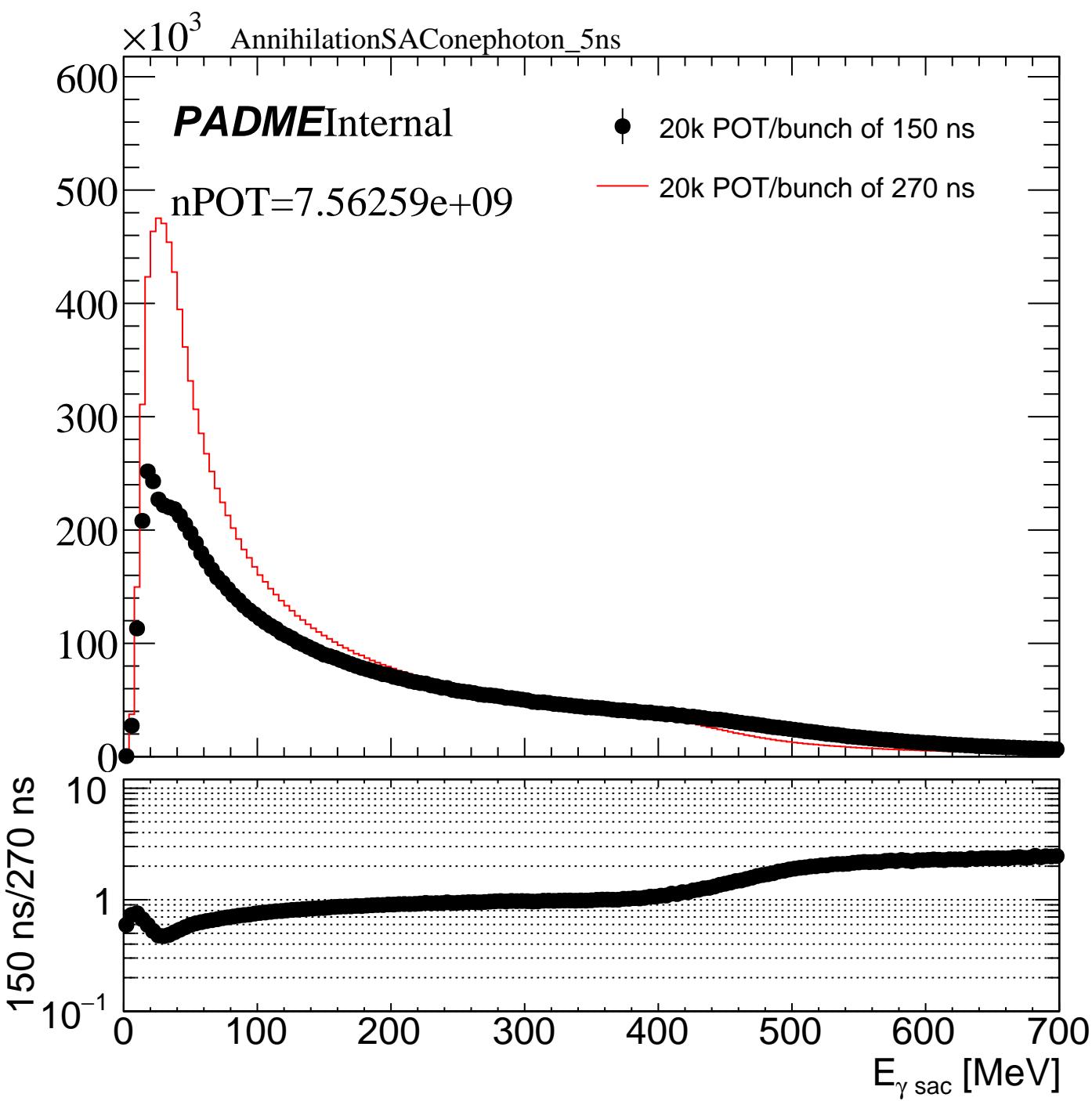


AnnihilationGammaEcalGammaSac\_5ns

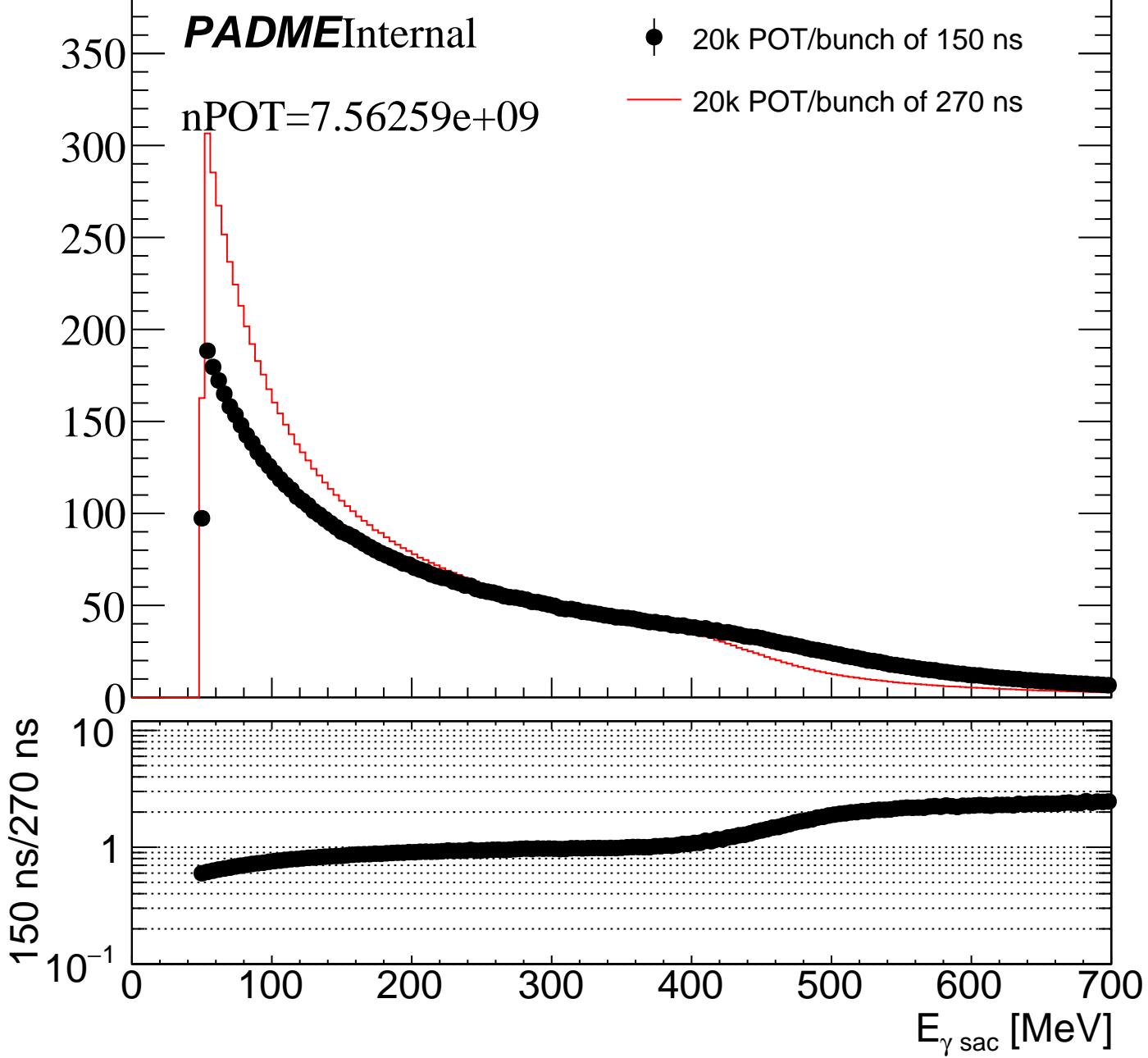


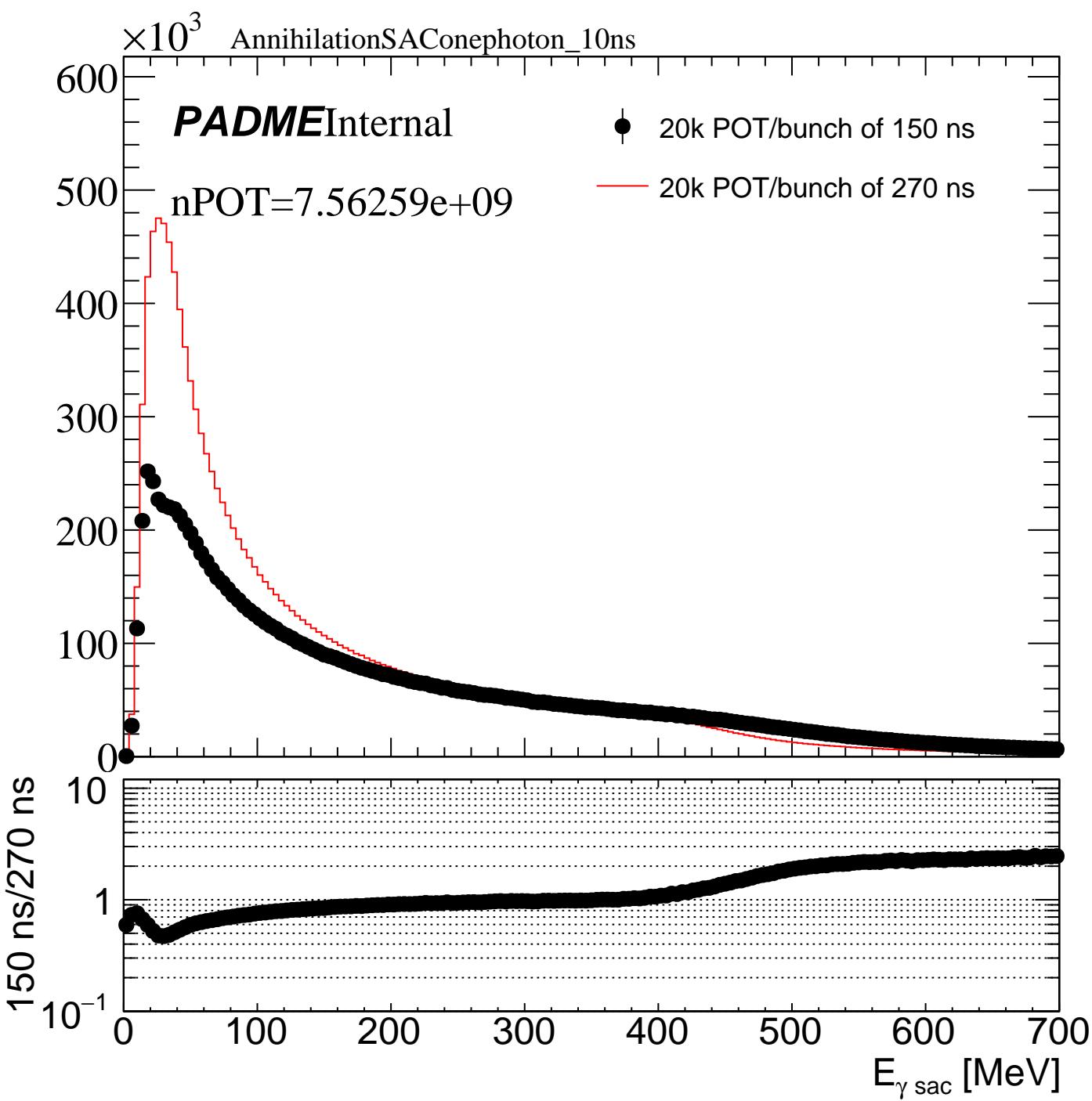
AnnihilationGammaEcalGammaSac\_5nsEthr50



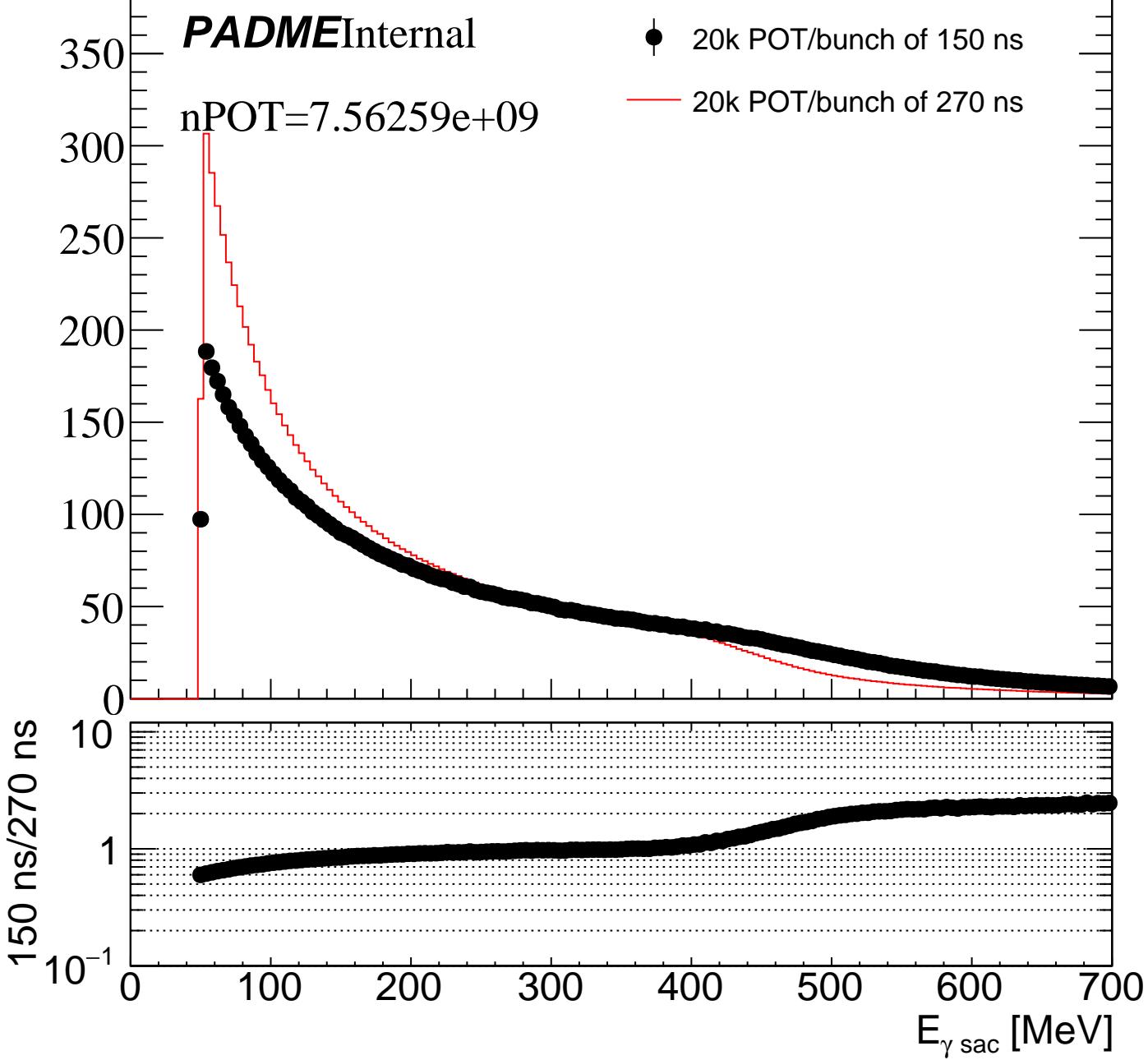


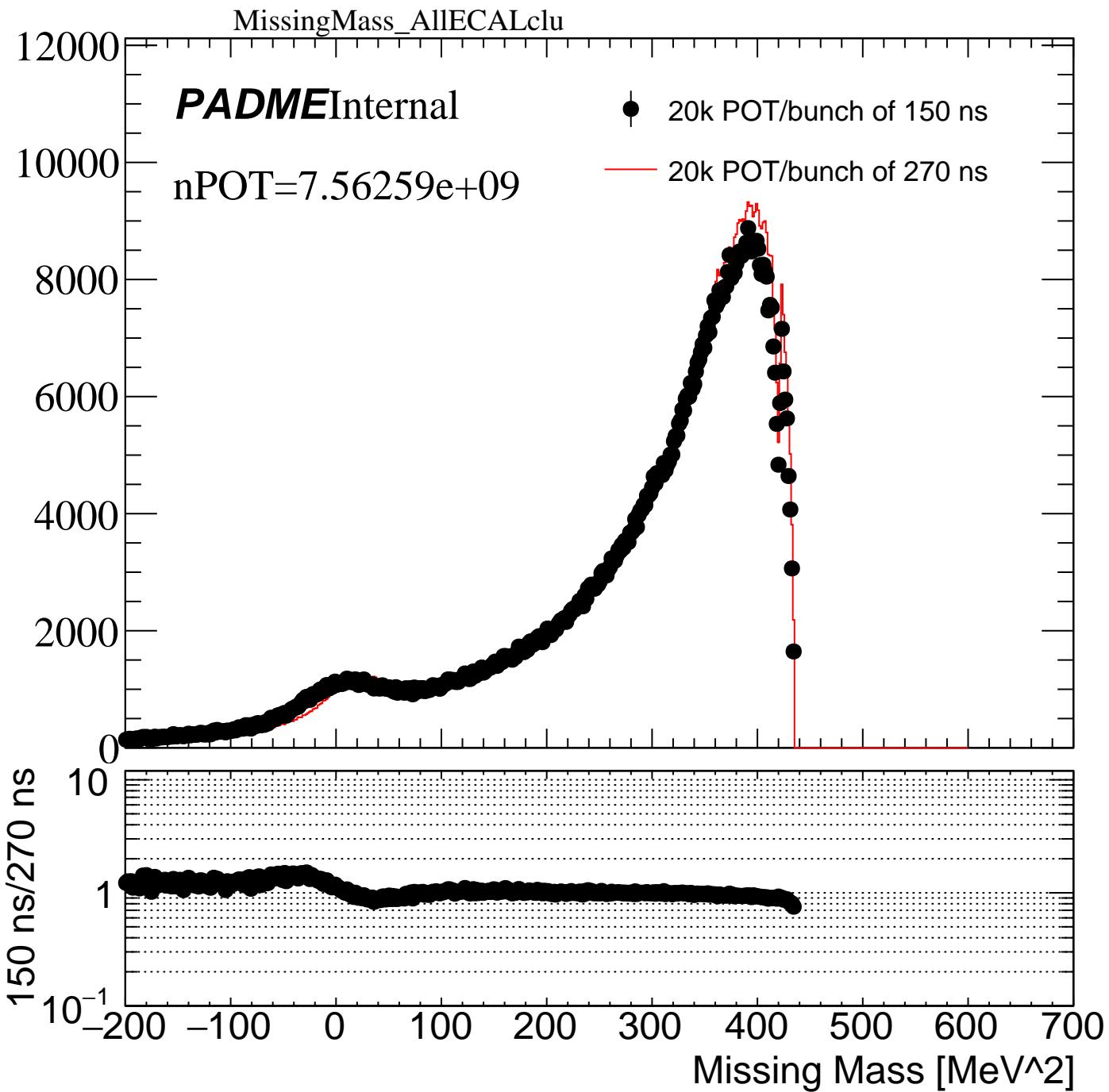
$\times 10^3$  AnnihilationSAConephoton\_5nsEThr50



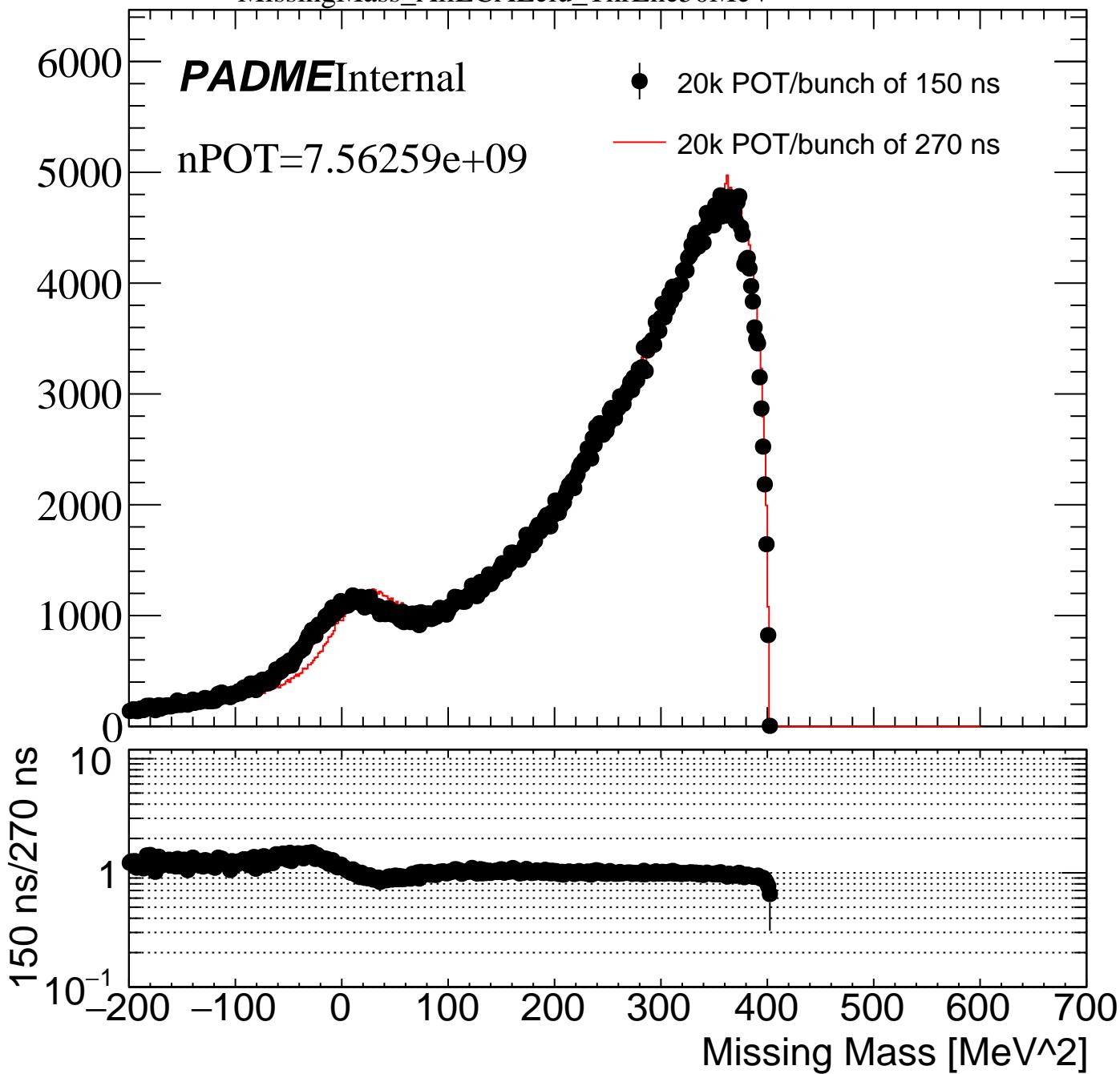


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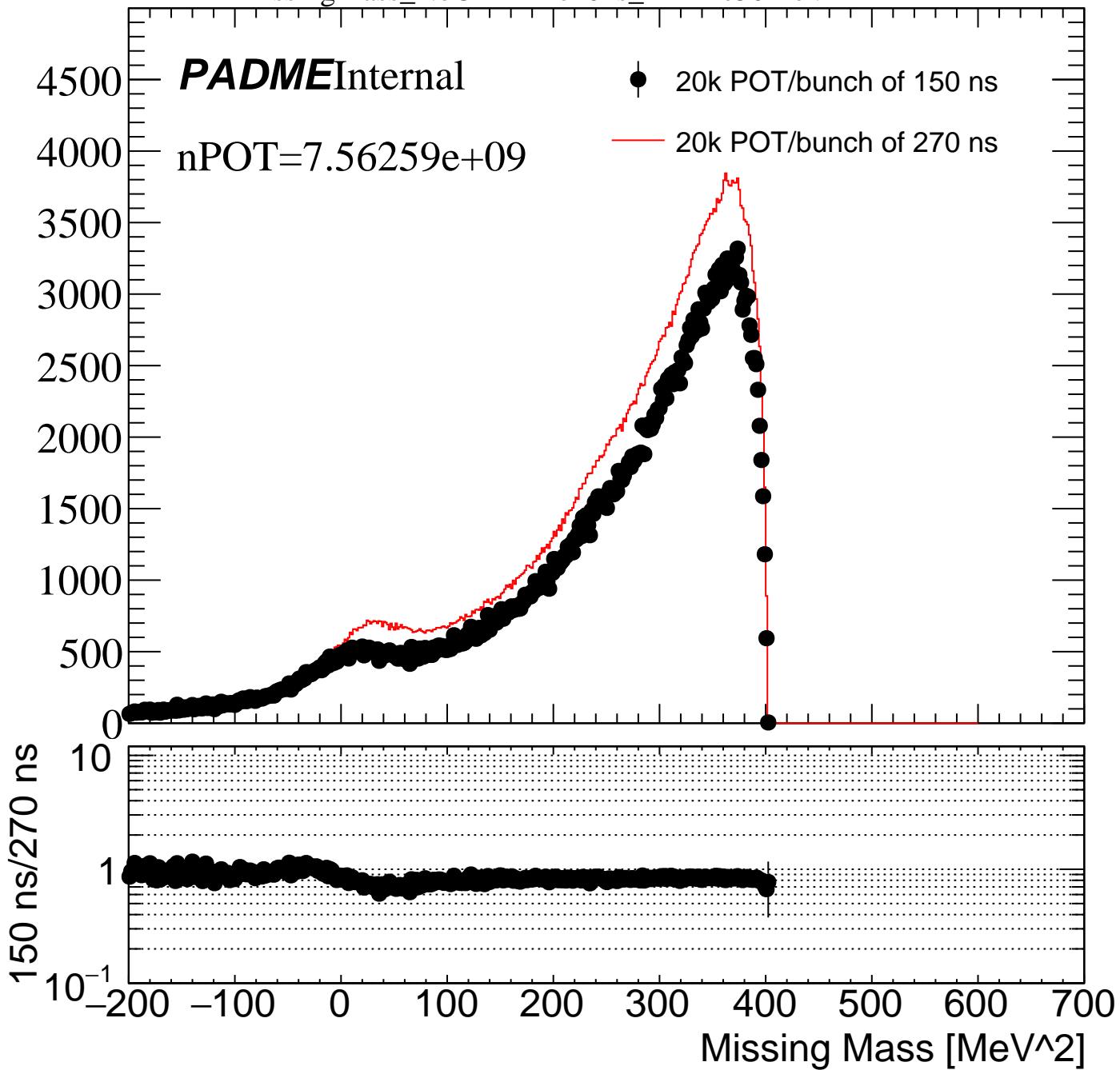




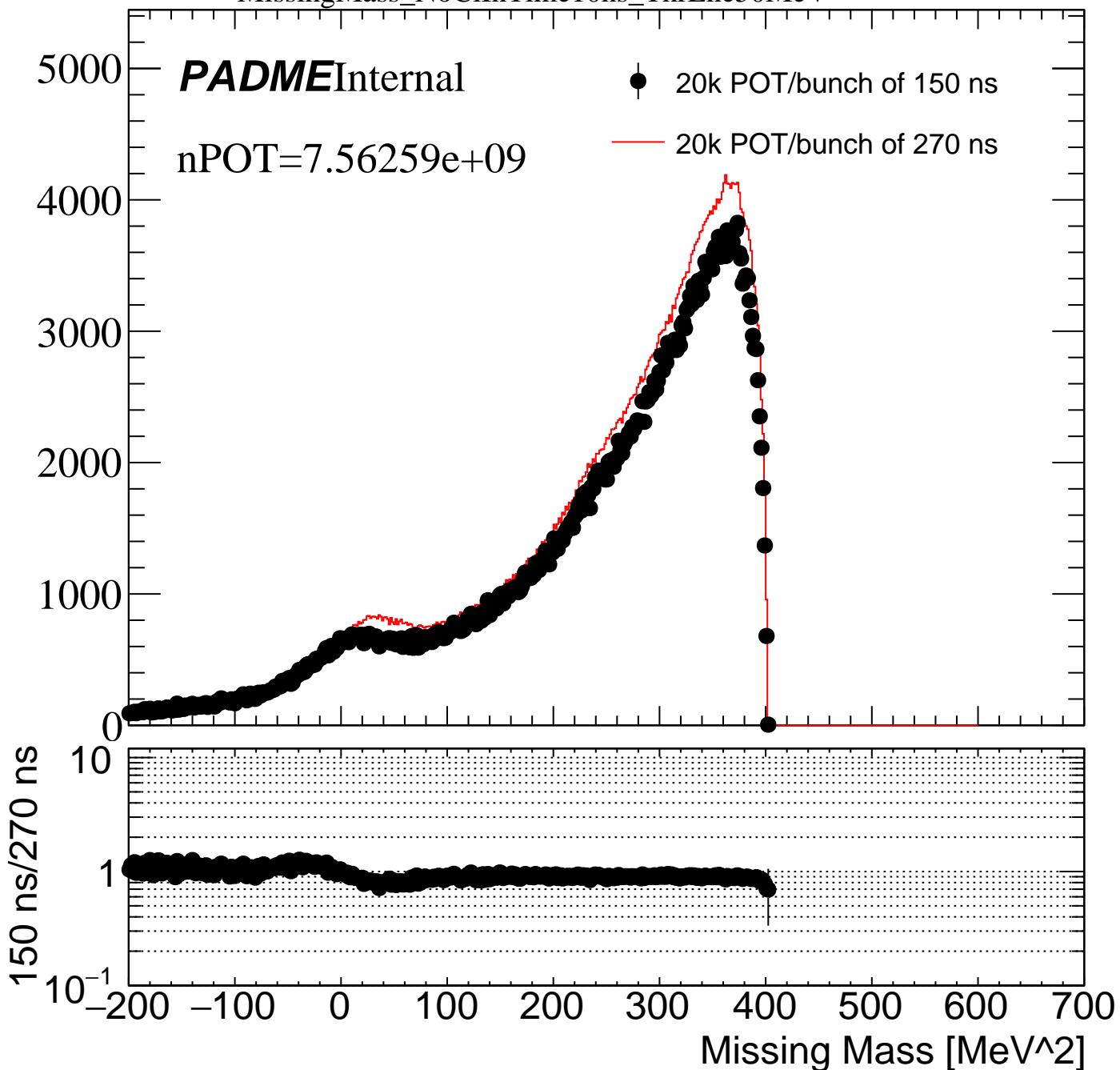
MissingMass\_AllECALclu\_ThrEne50MeV



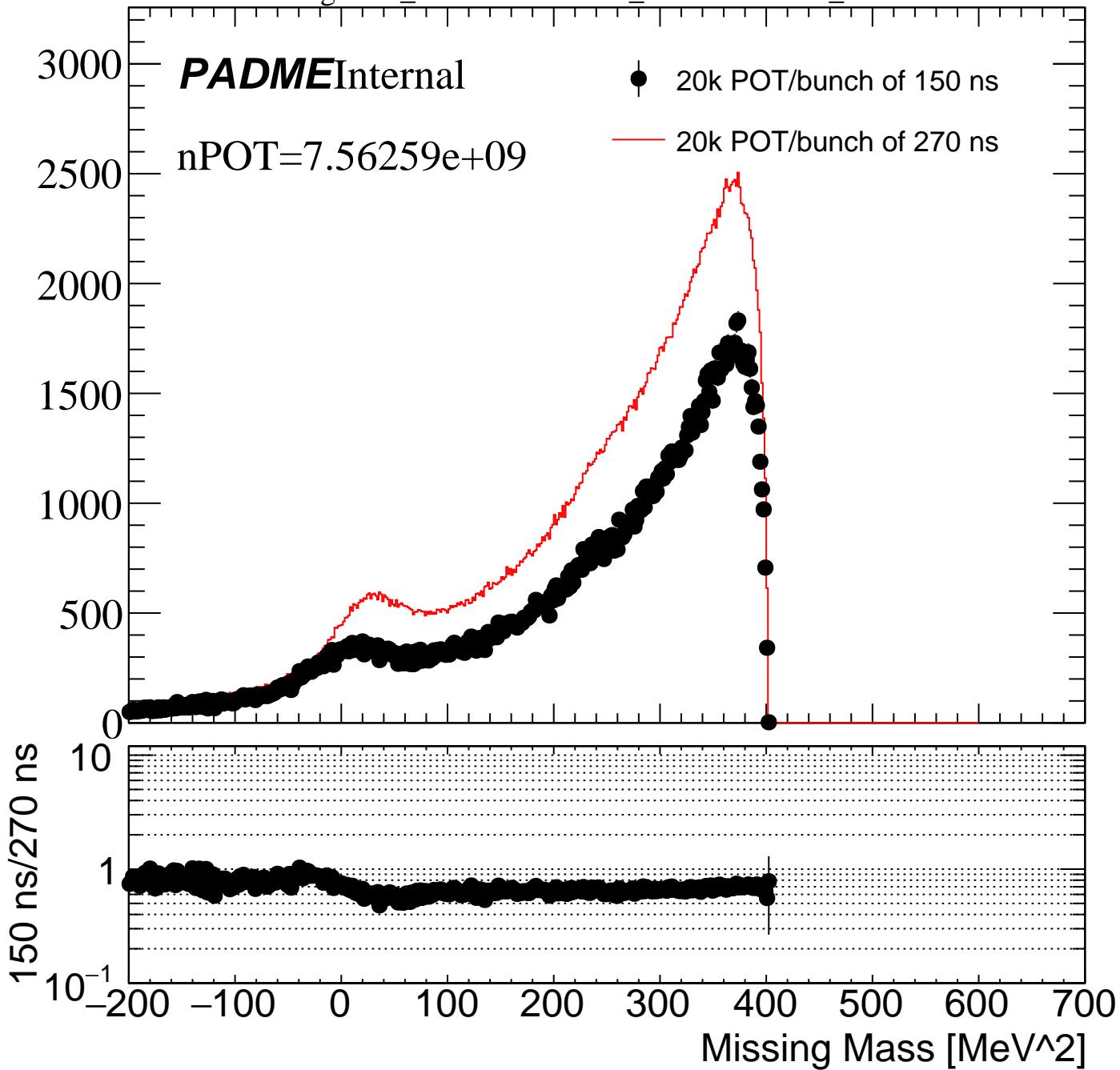
MissingMass\_NoClInTime20ns\_ThrEne50MeV

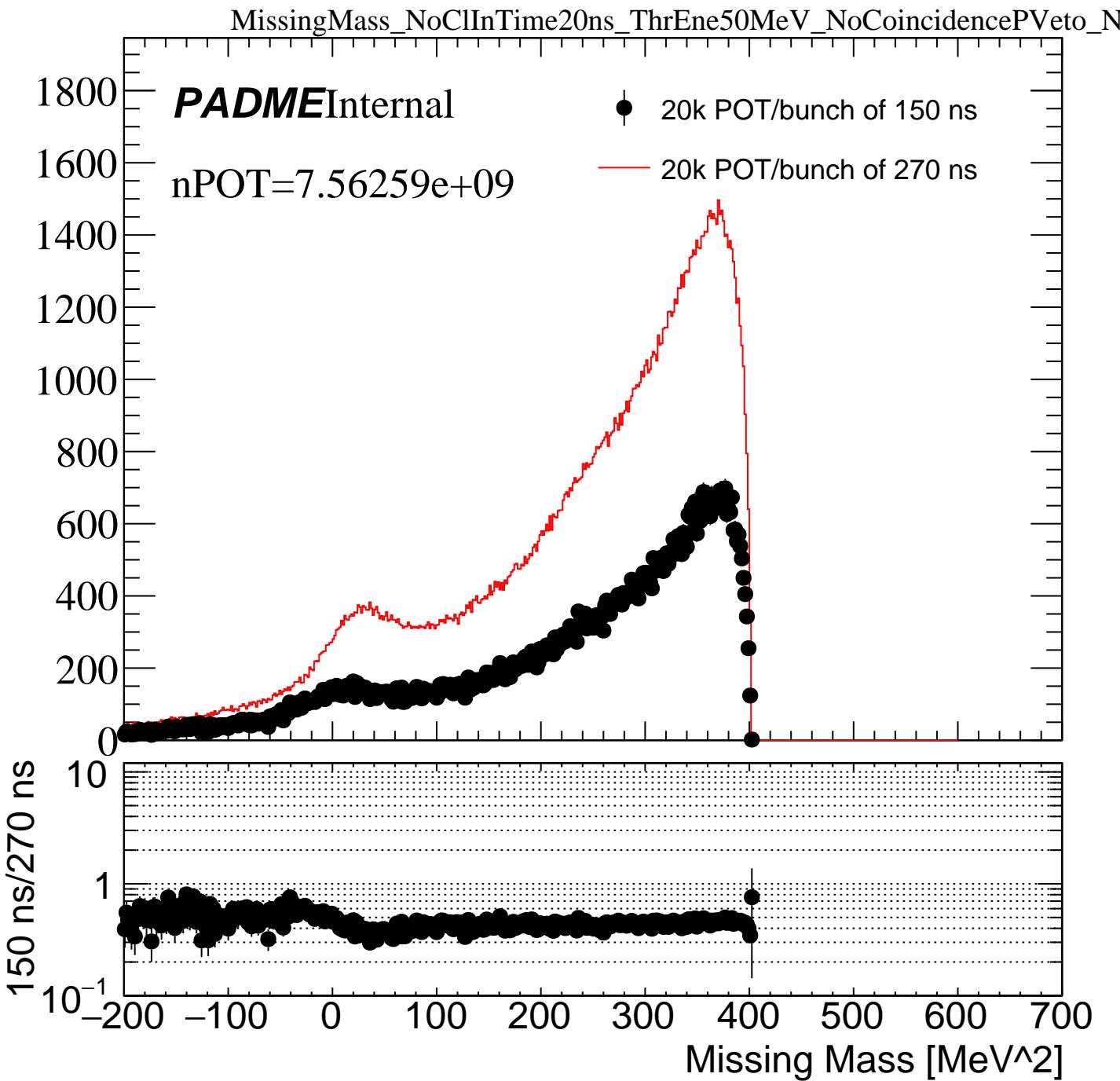


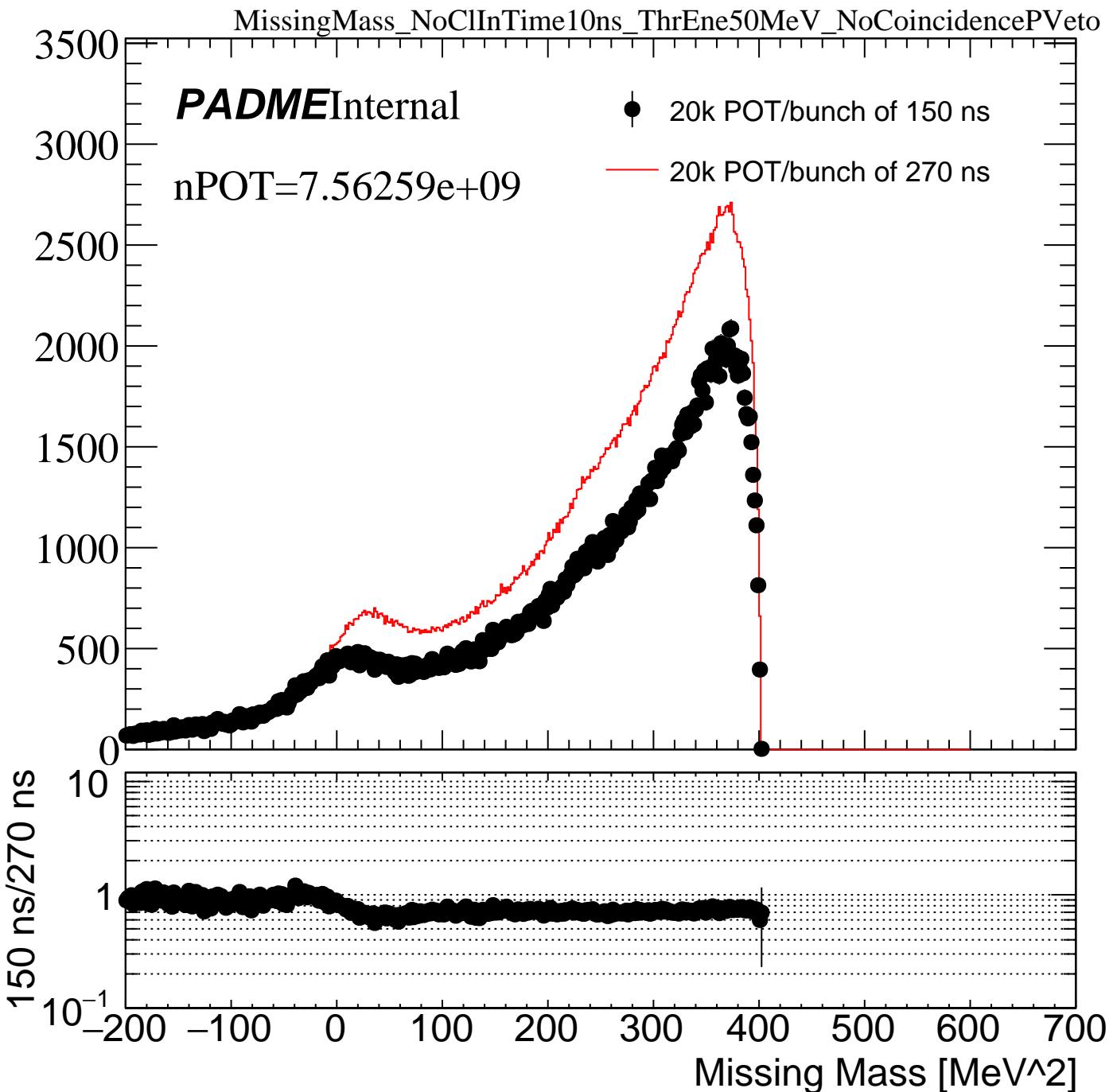
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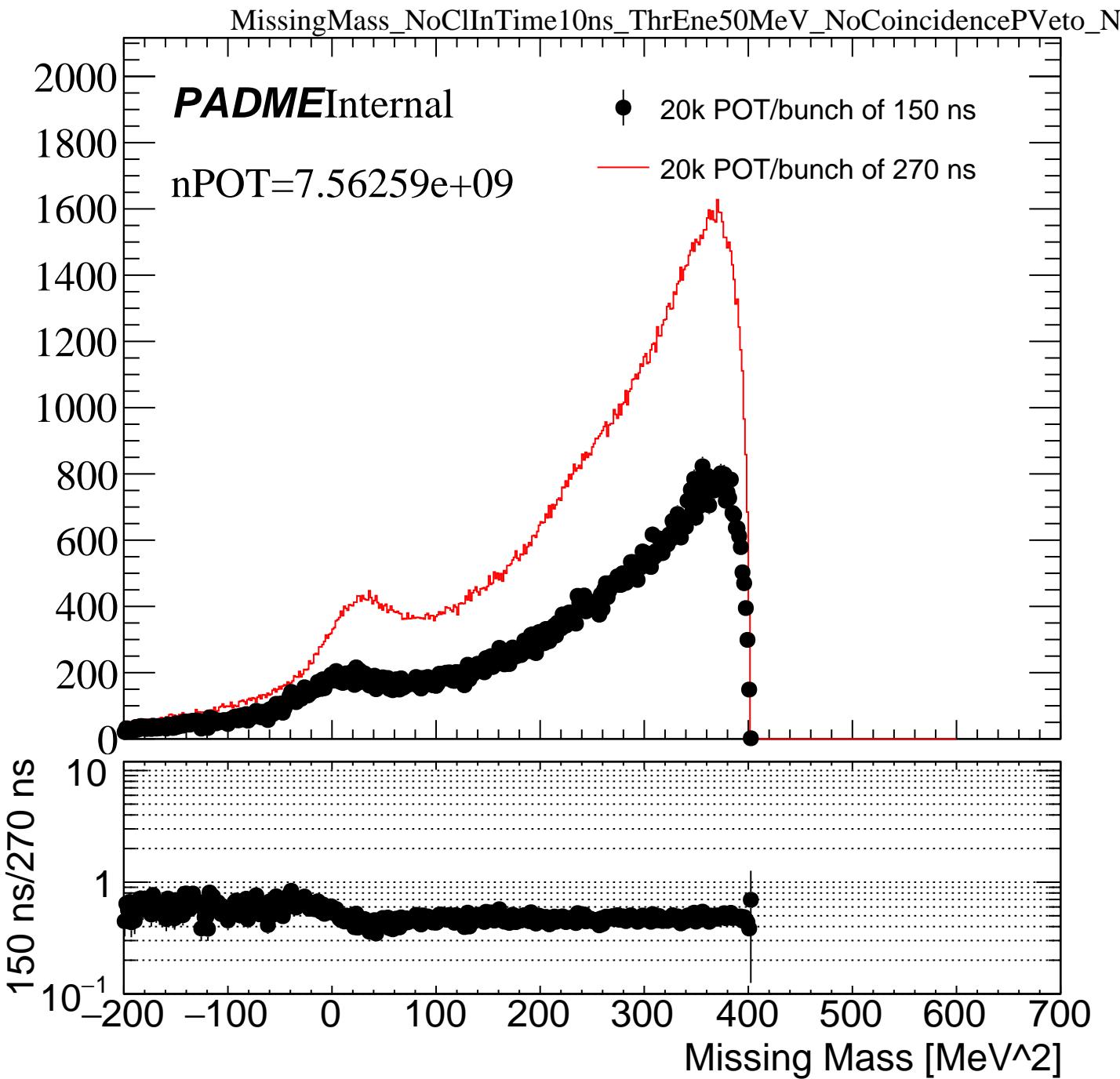


MissingMass\_NoClInTime20ns\_ThrEne50MeV\_NoCoincidencePVeto

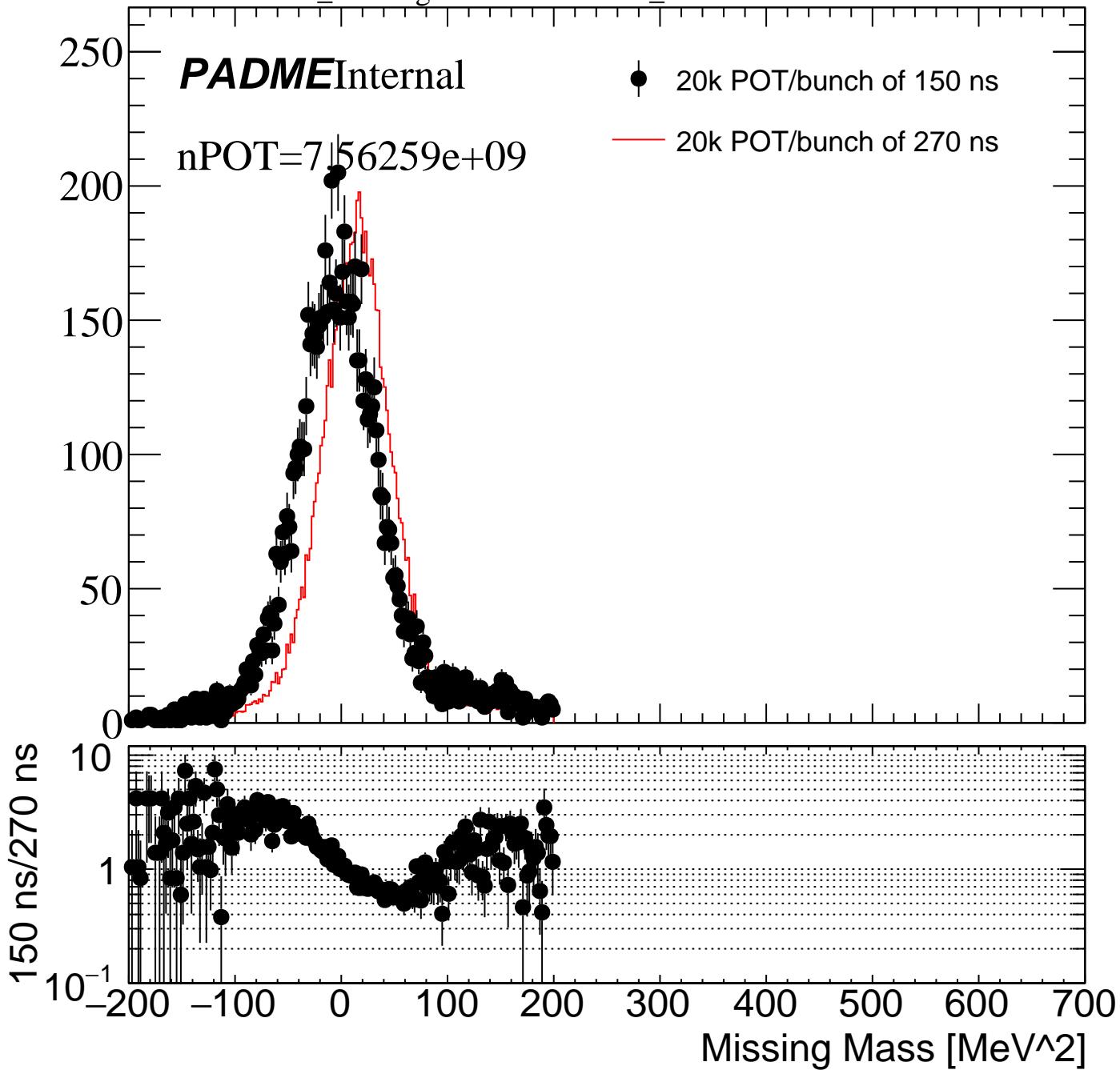








ECAL\_MissingMassAnnihilation\_10ns5CoGUnderPeakEThr90



ECAL\_MissingMassAnnihilation\_10ns5CoGUnderPeakEThr90

