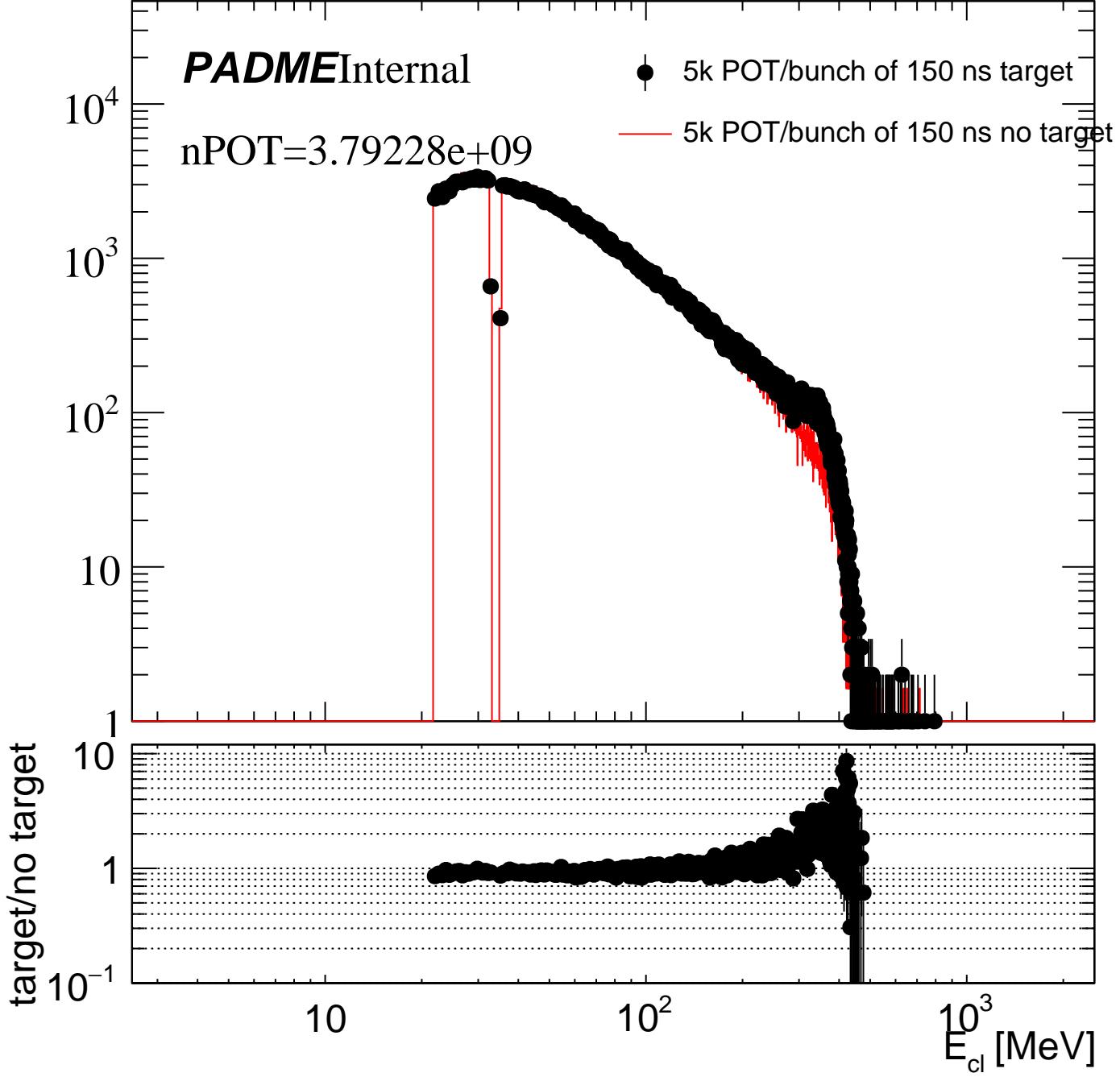
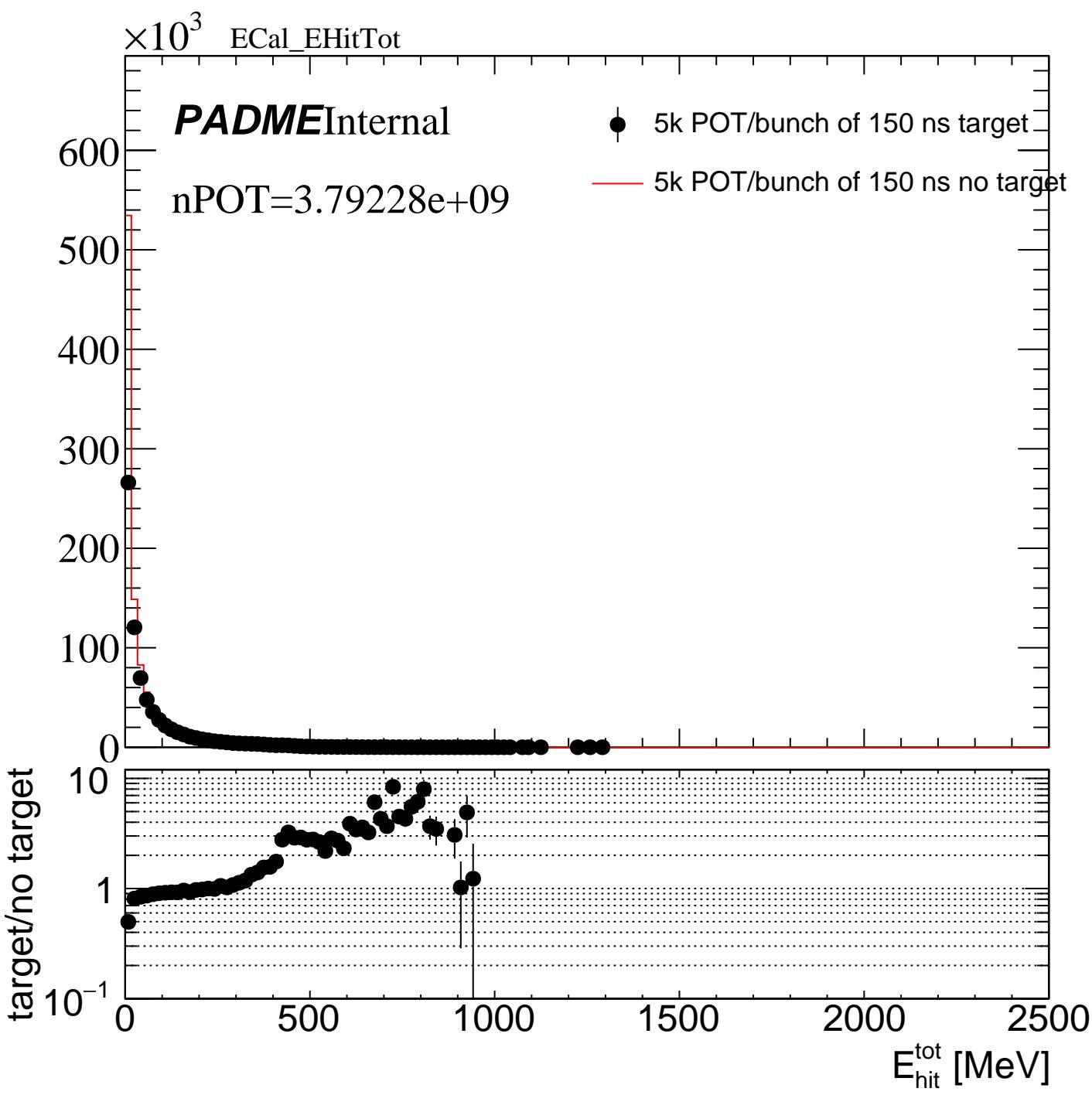
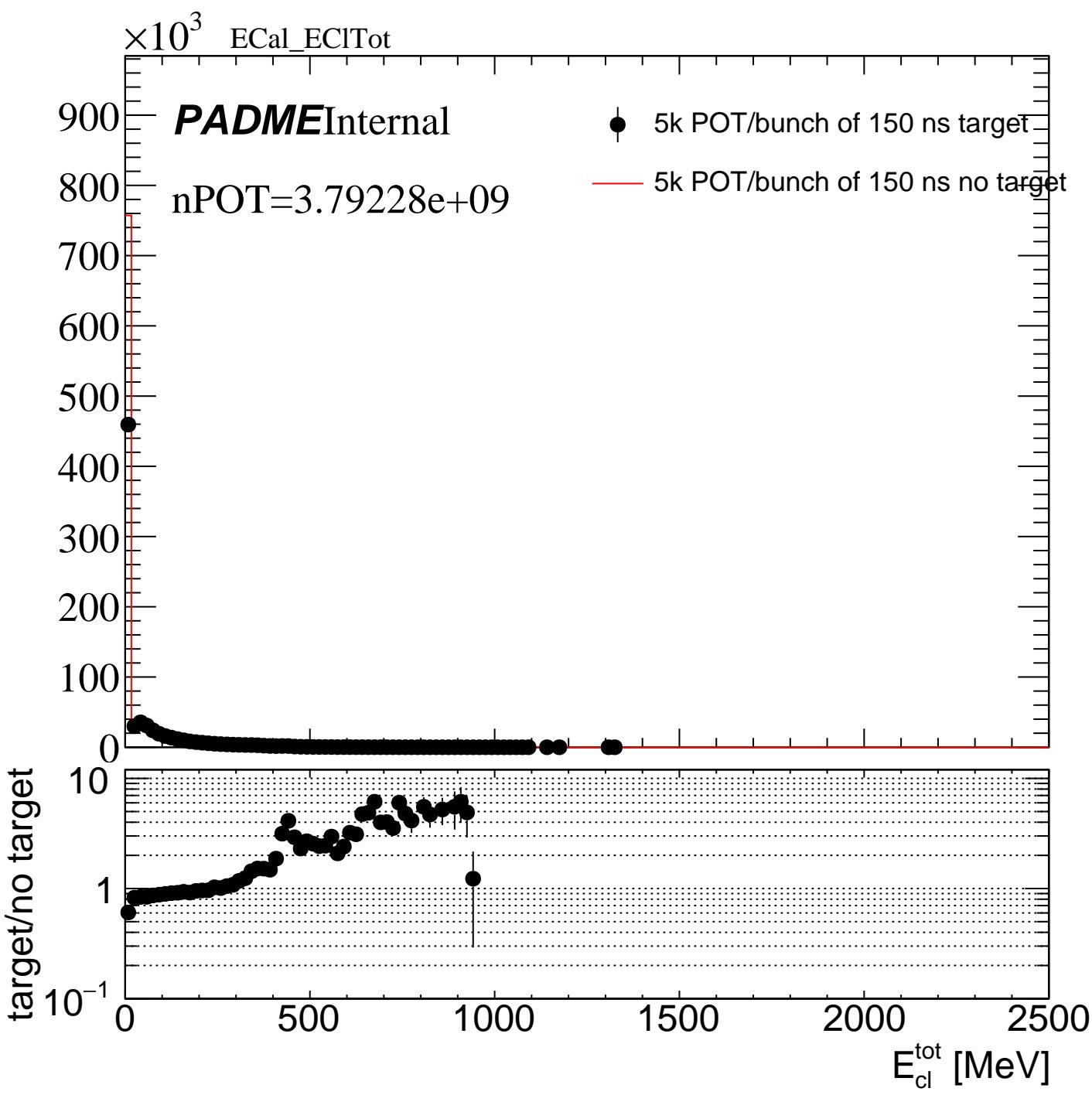


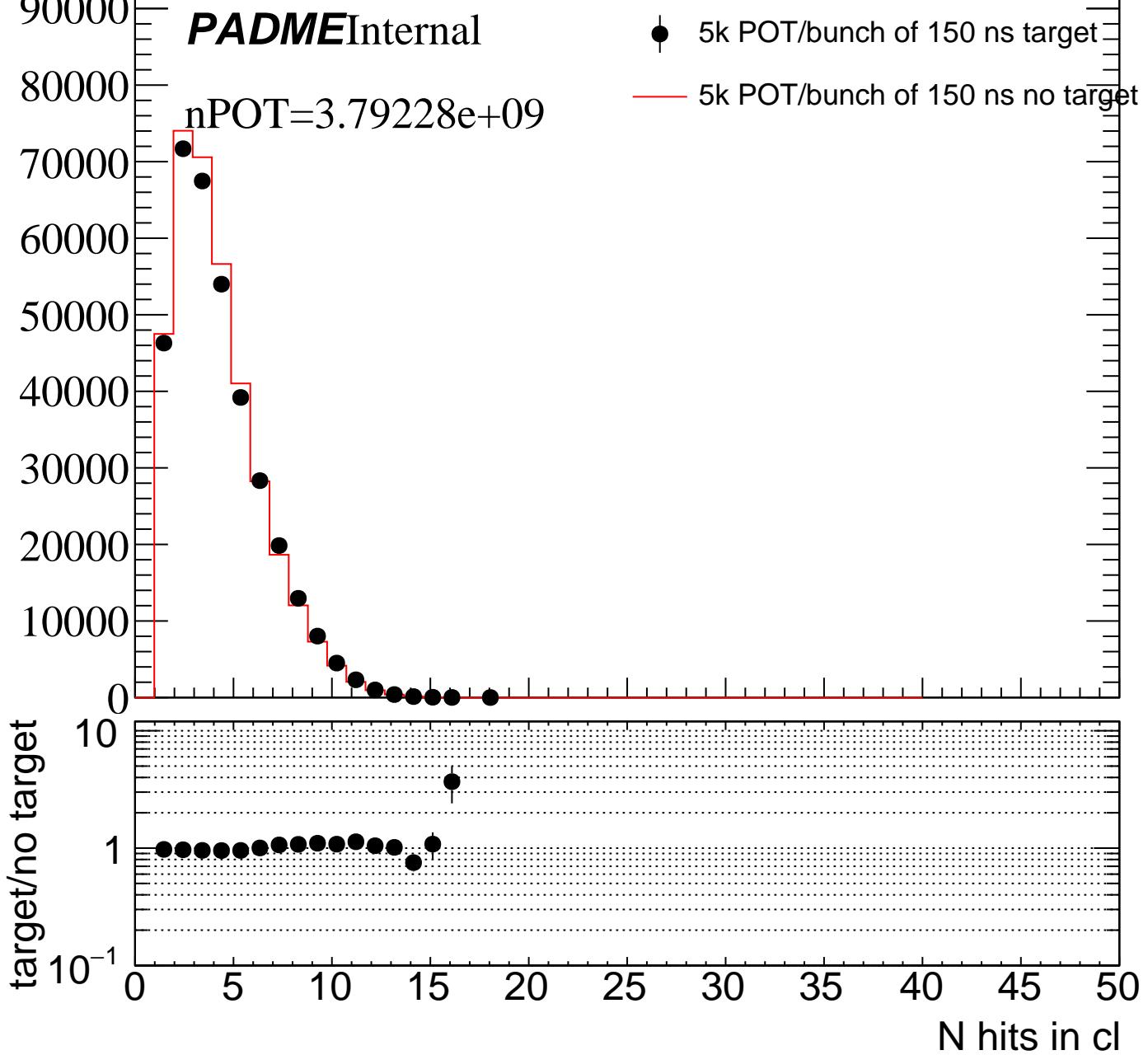
## ECal\_ClusterEnergy

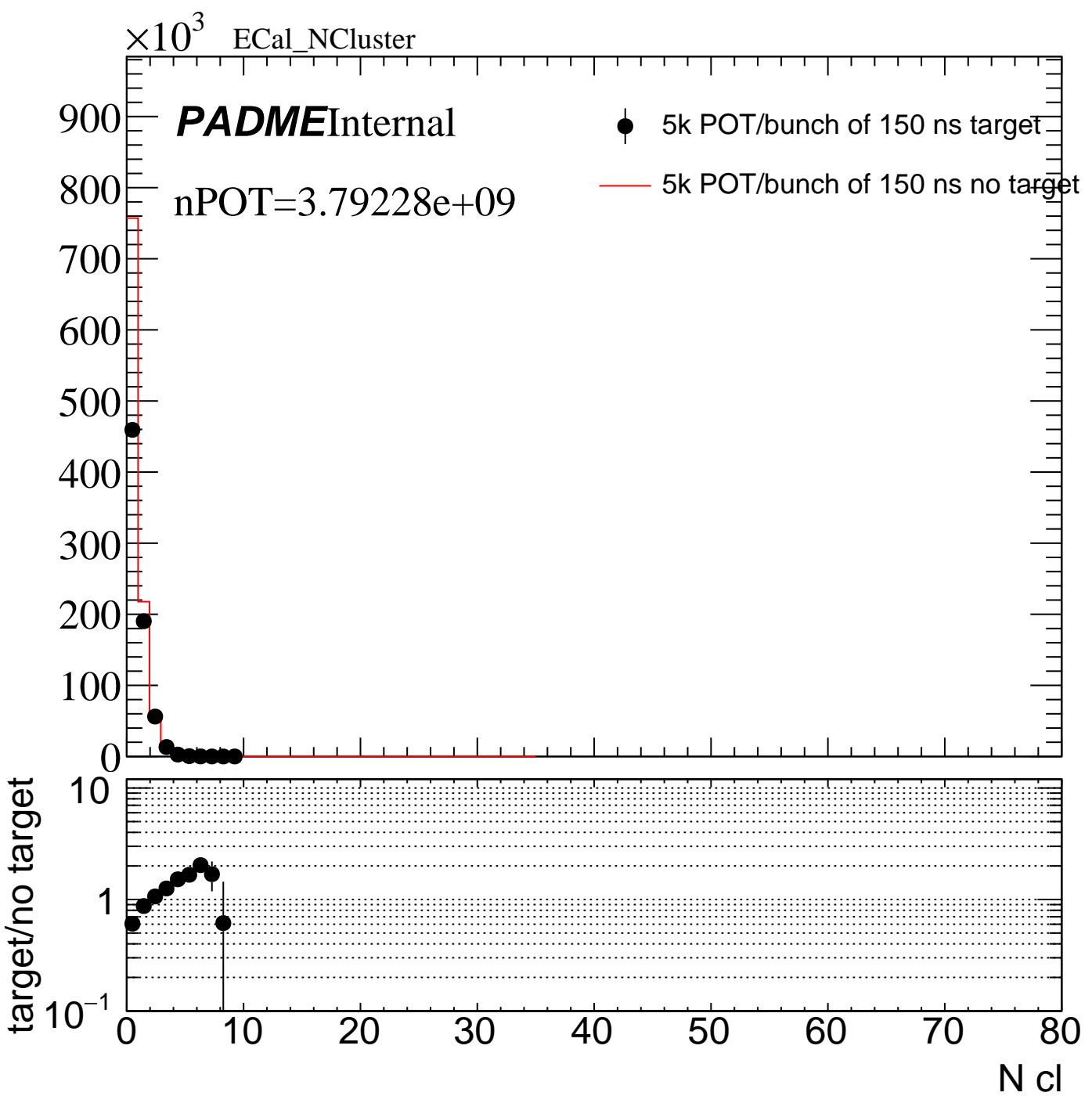


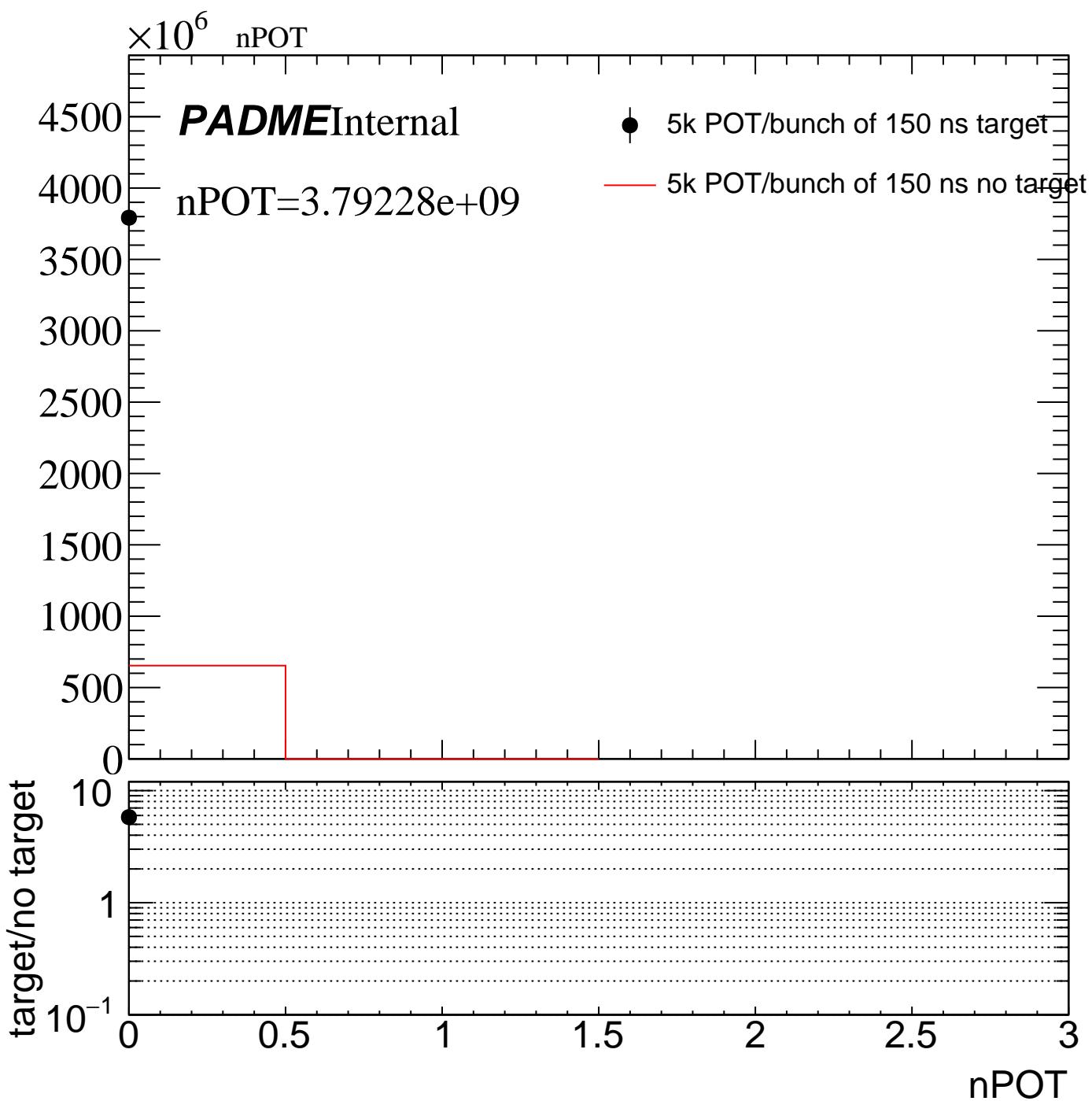


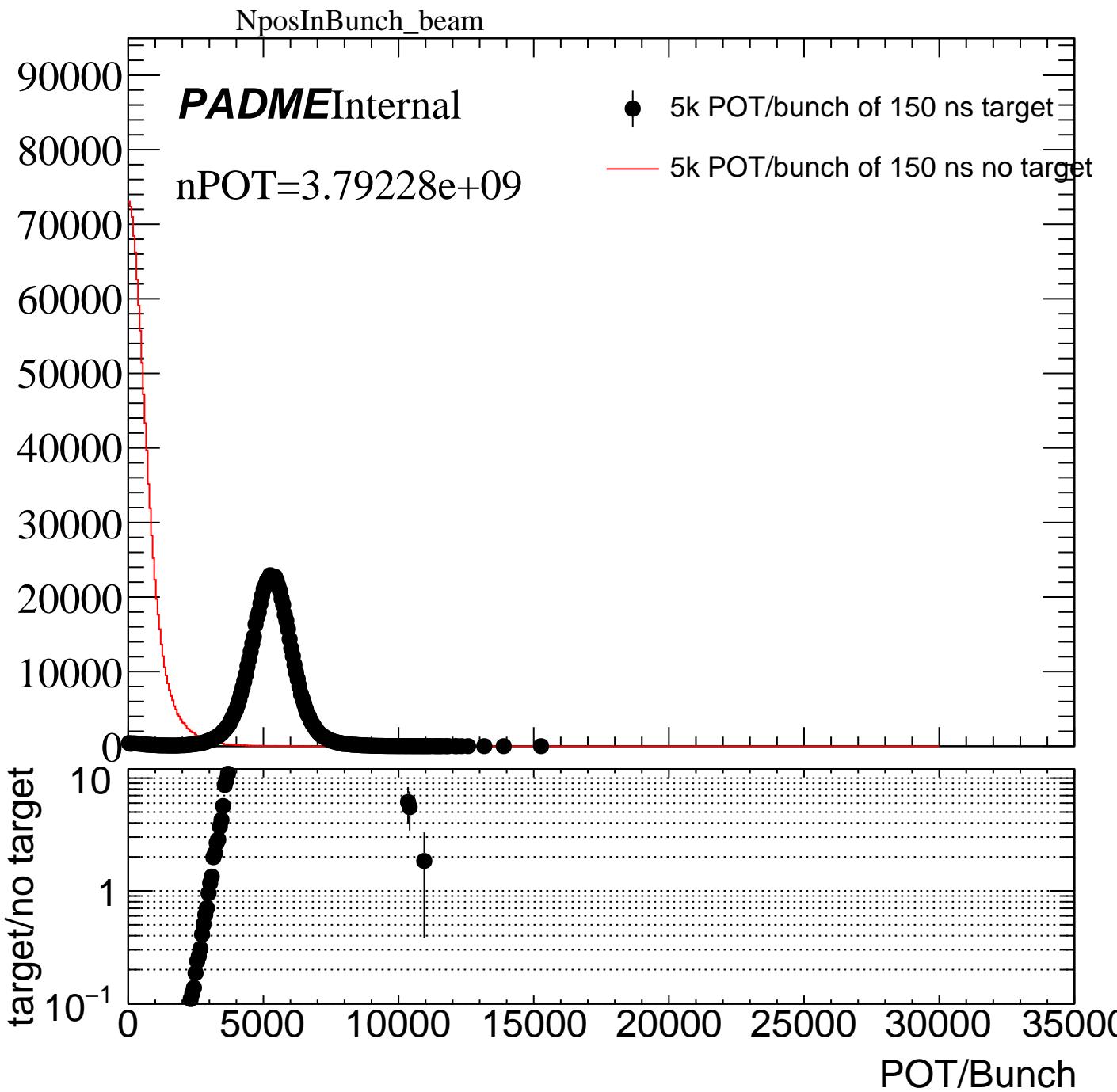


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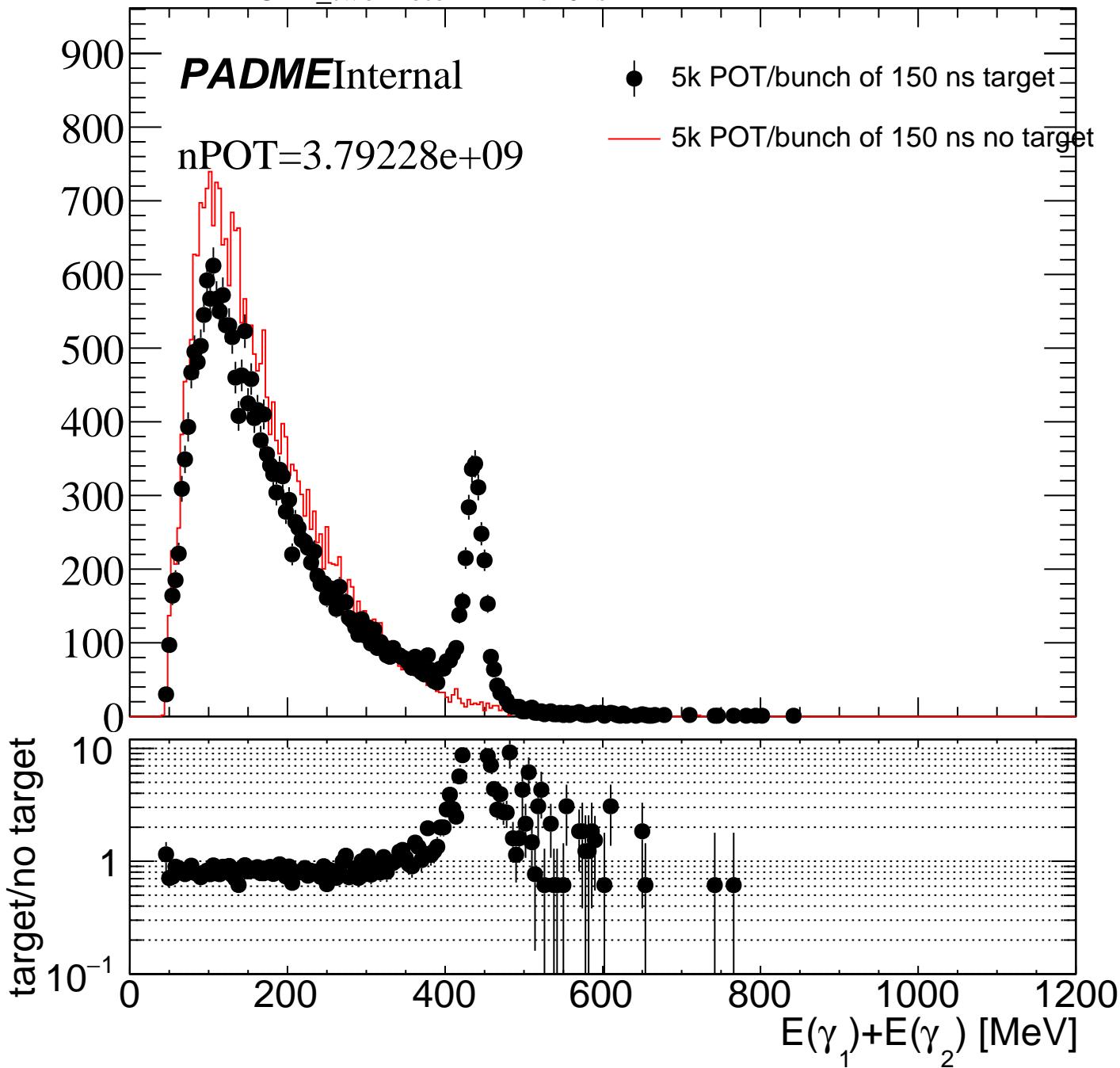




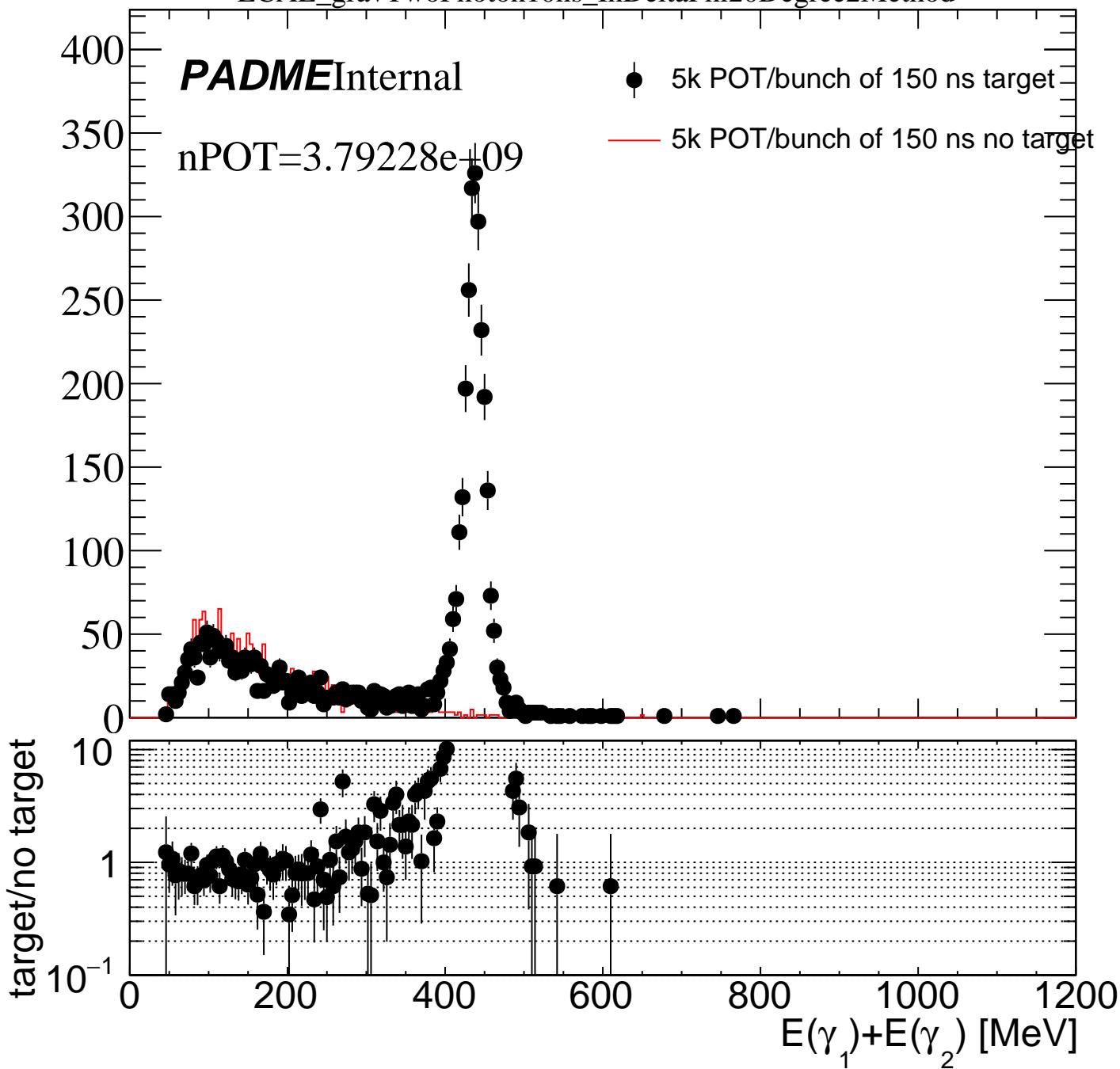




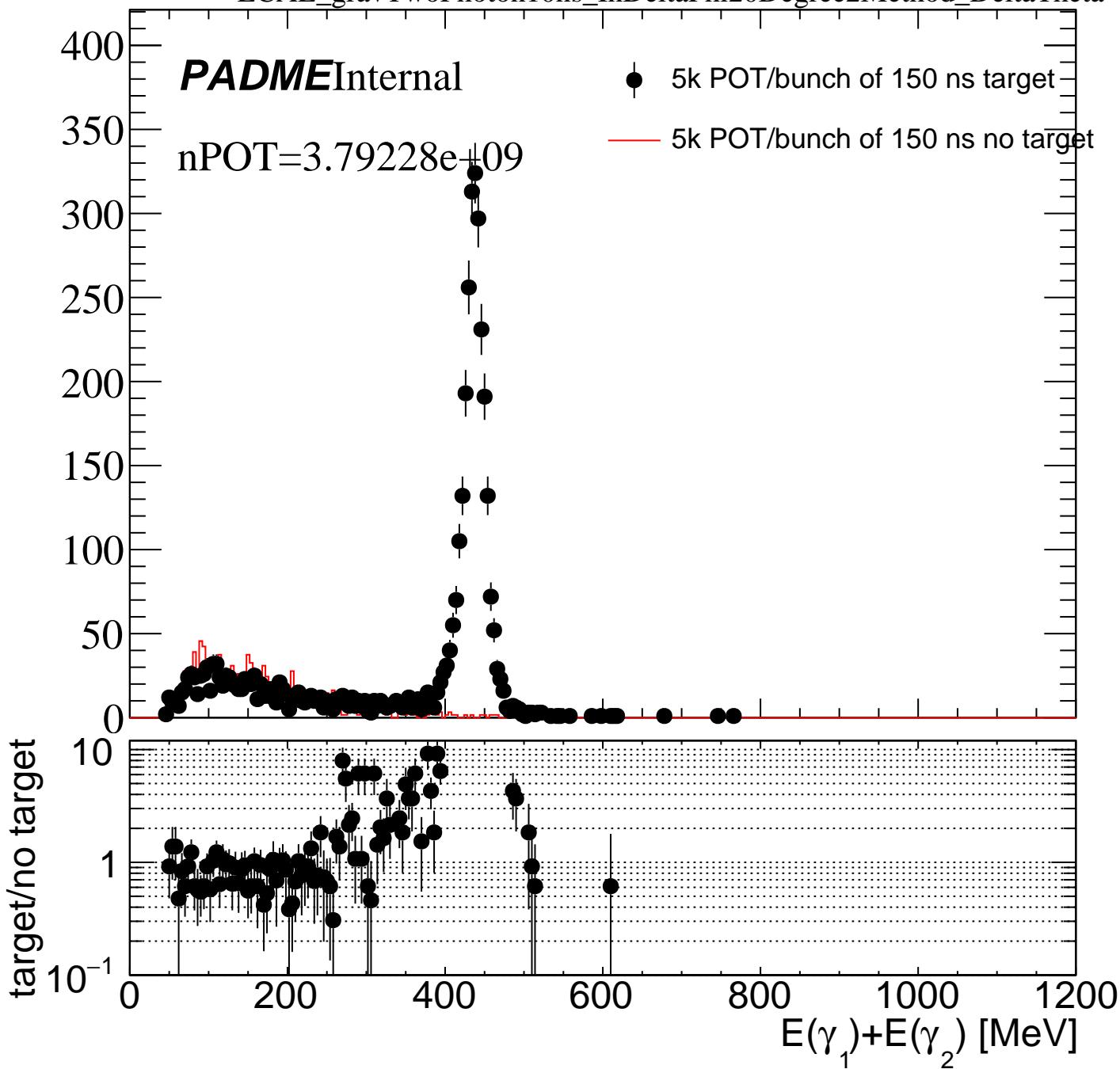
ECAL\_twoPhotonInTime10ns



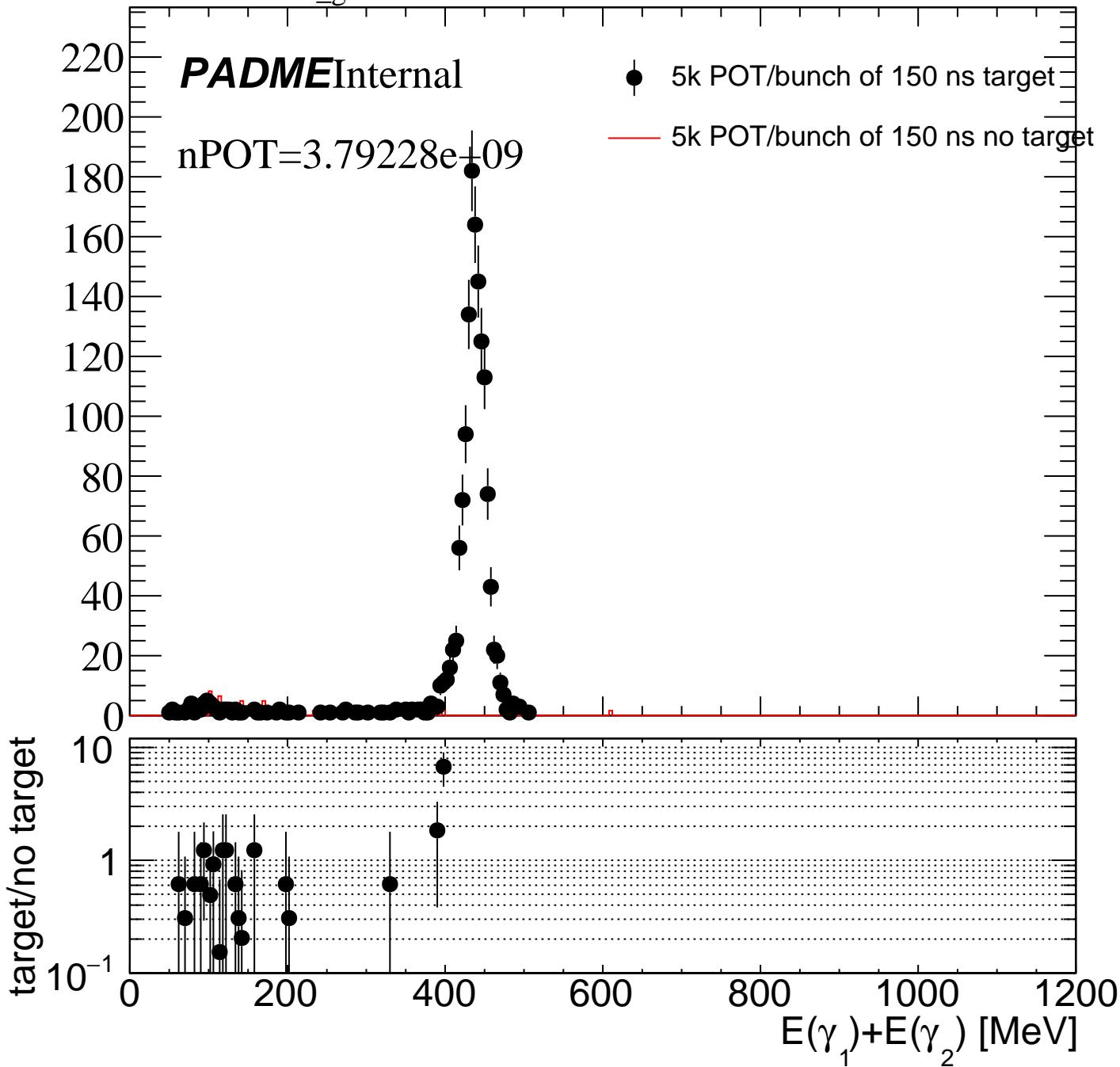
ECAL\_gravTwoPhoton10ns\_InDeltaPhi20Degree2Method



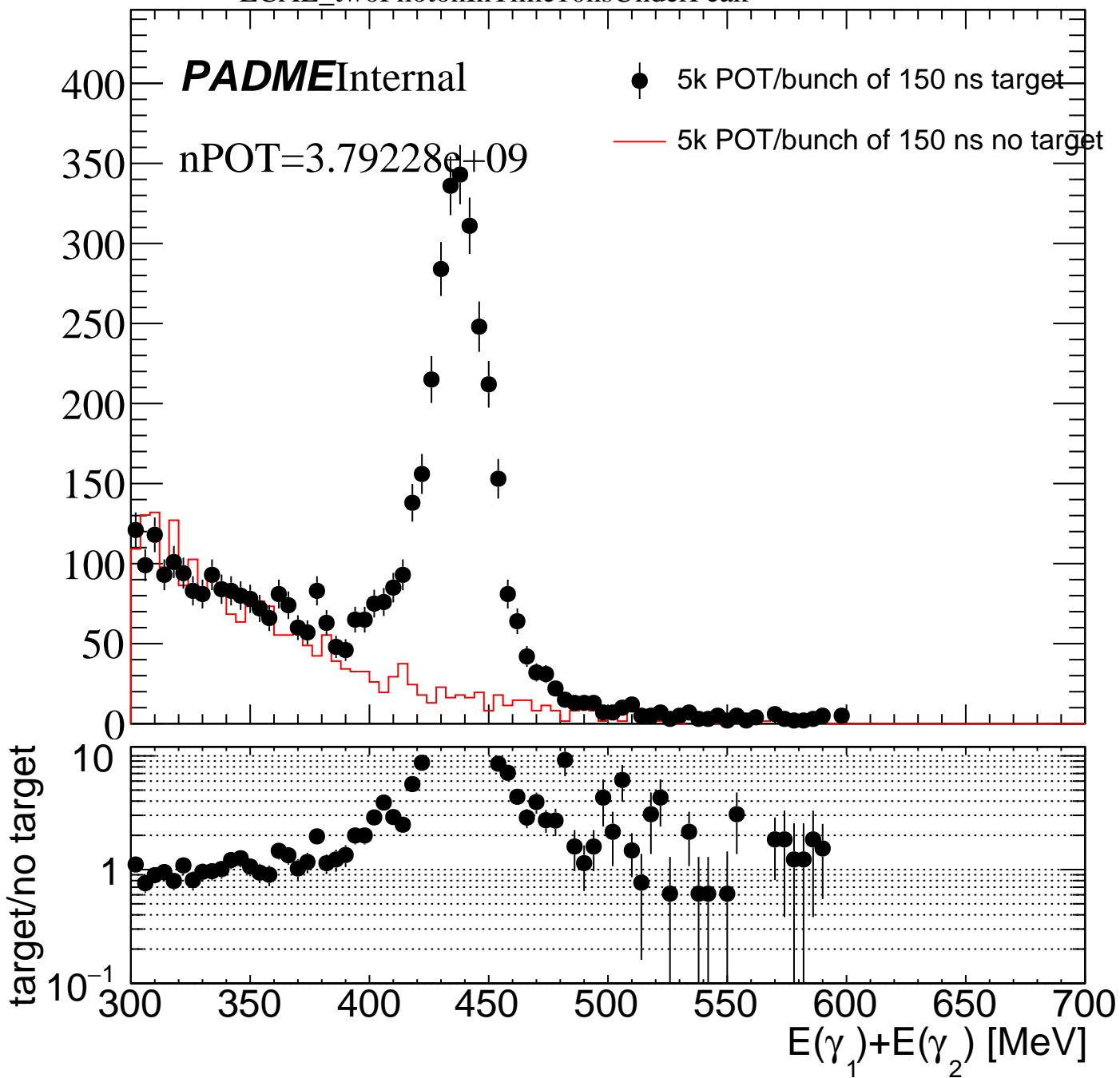
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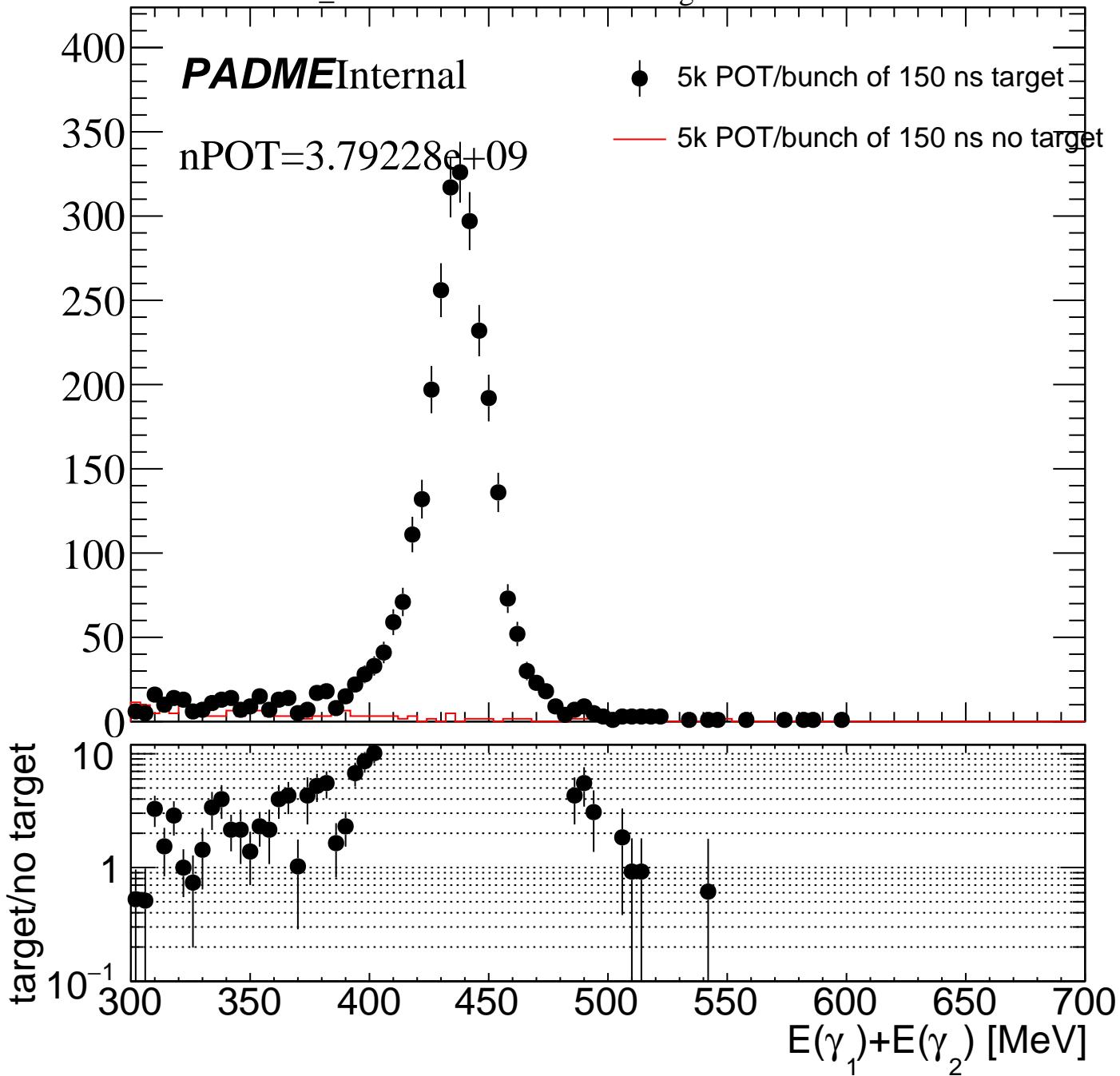
ECAL\_gravTwoPhoton10ns1cm



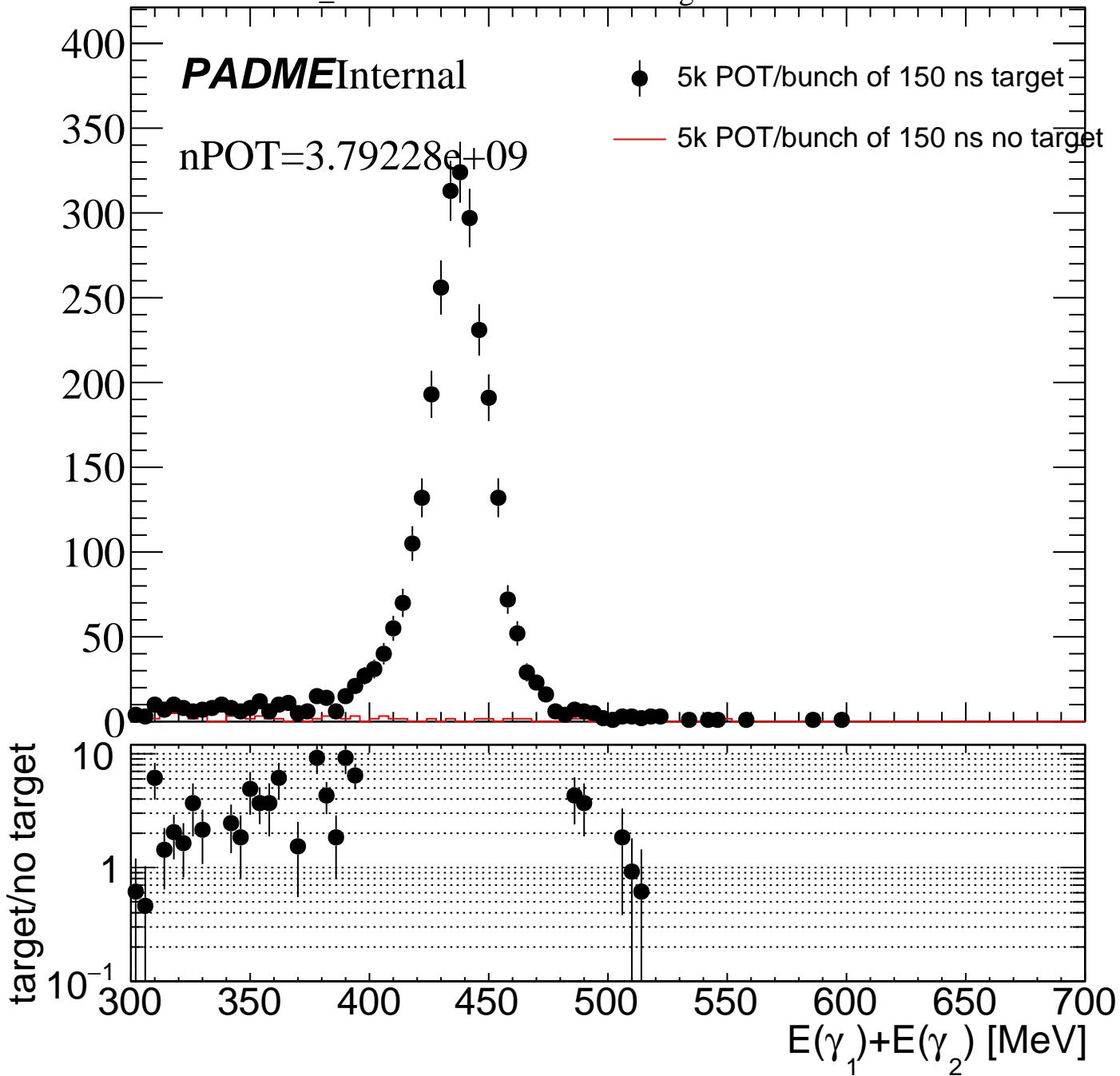
ECAL\_twoPhotonInTime10nsUnderPeak



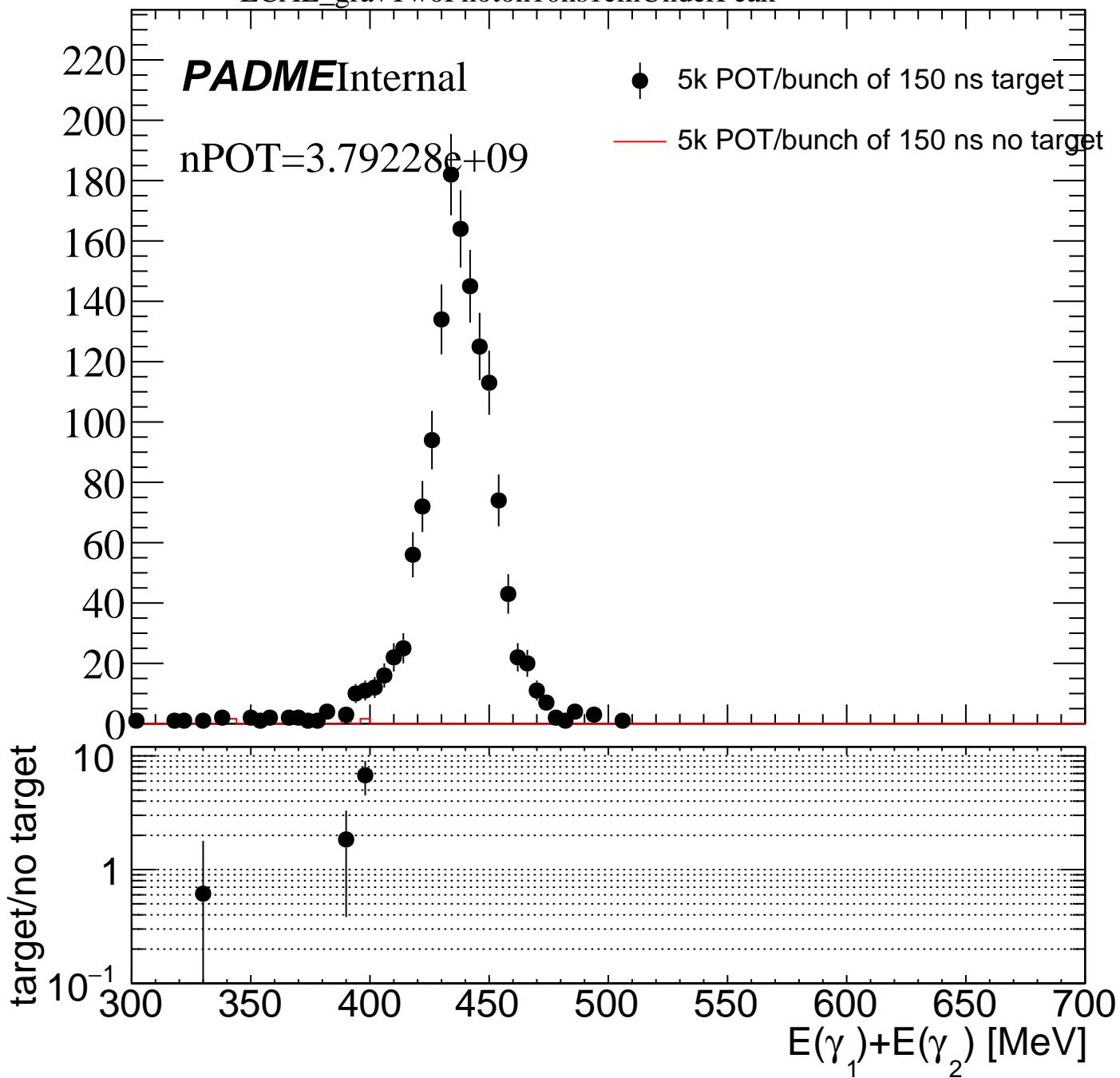
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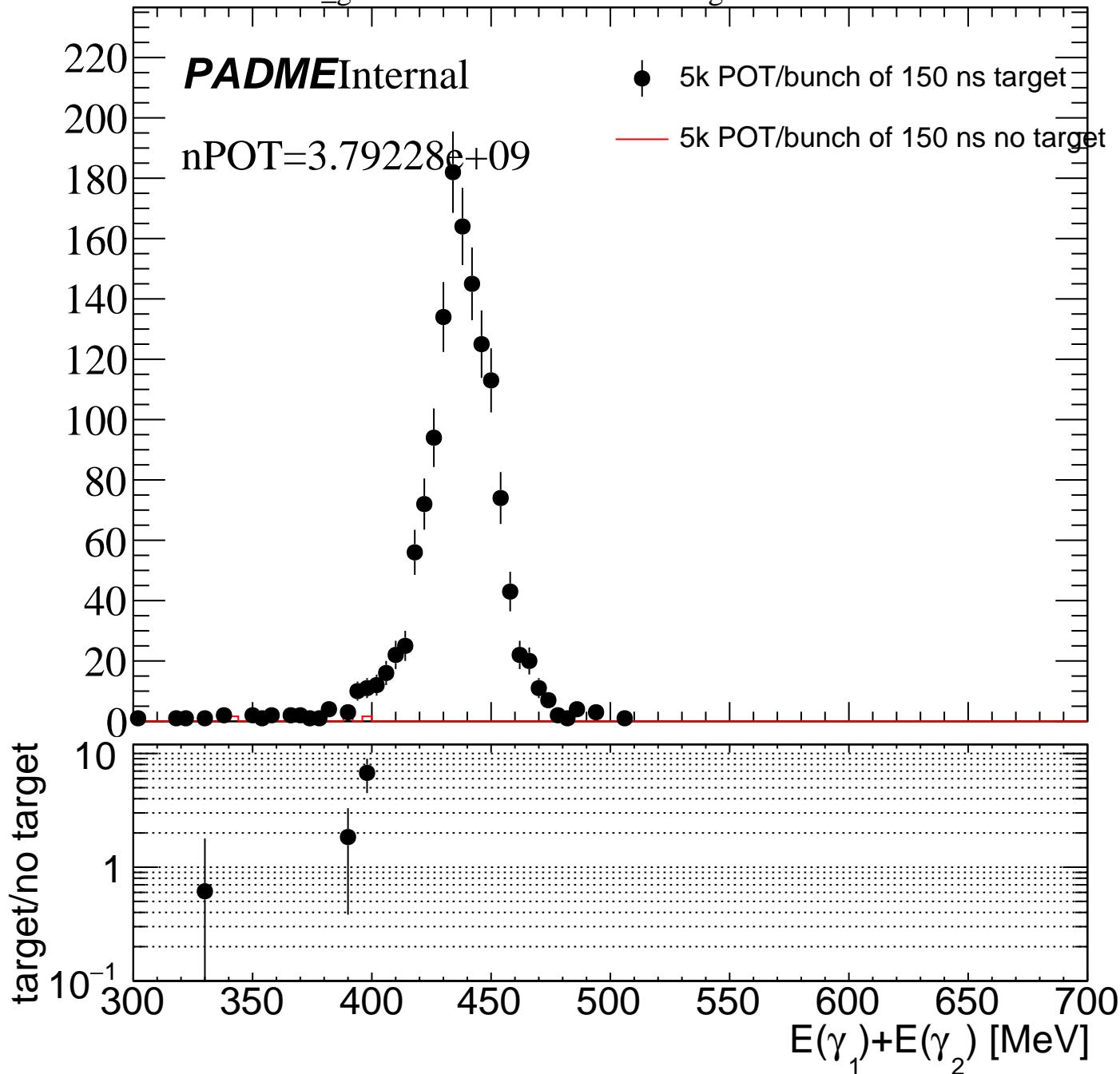
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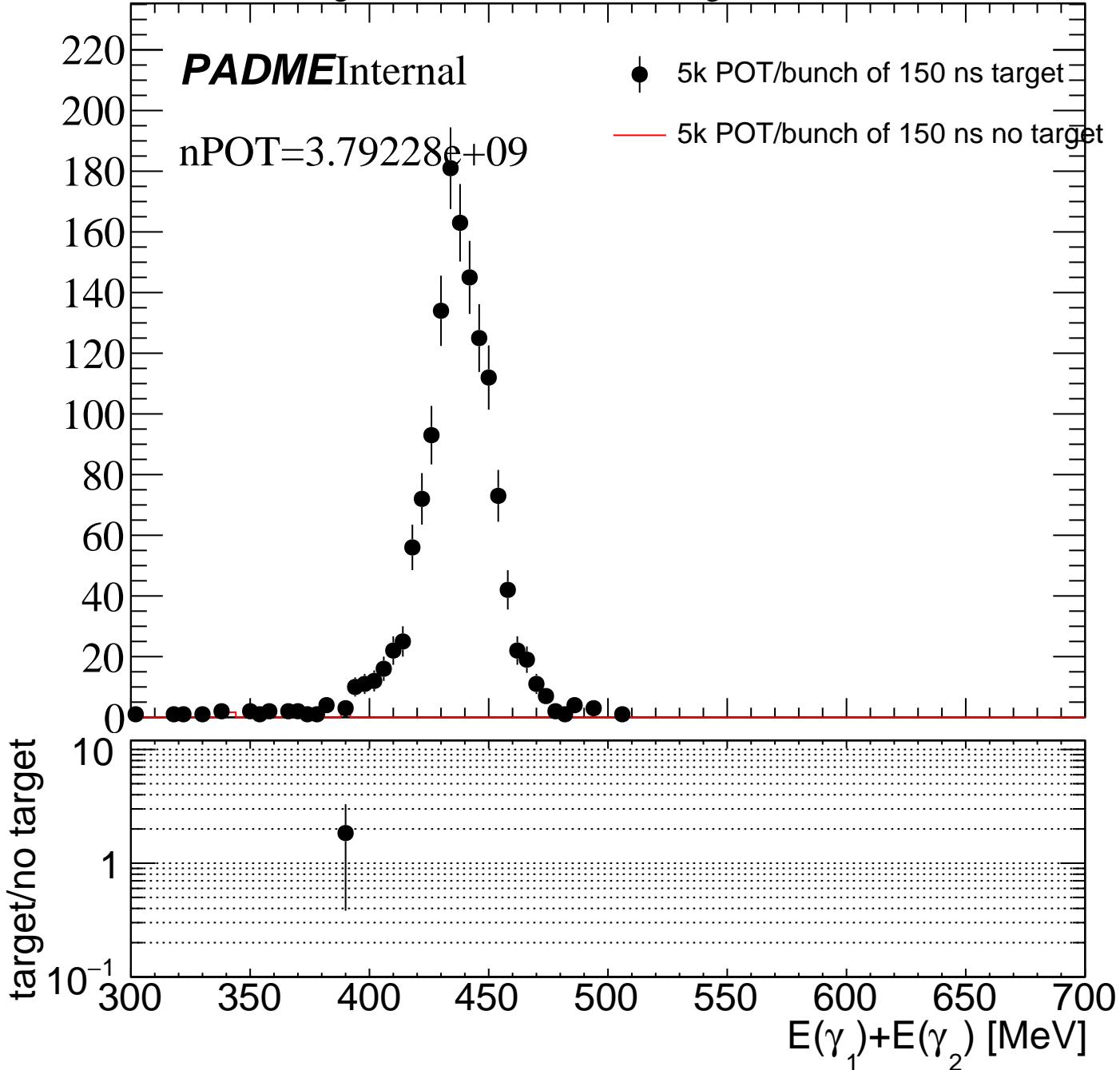
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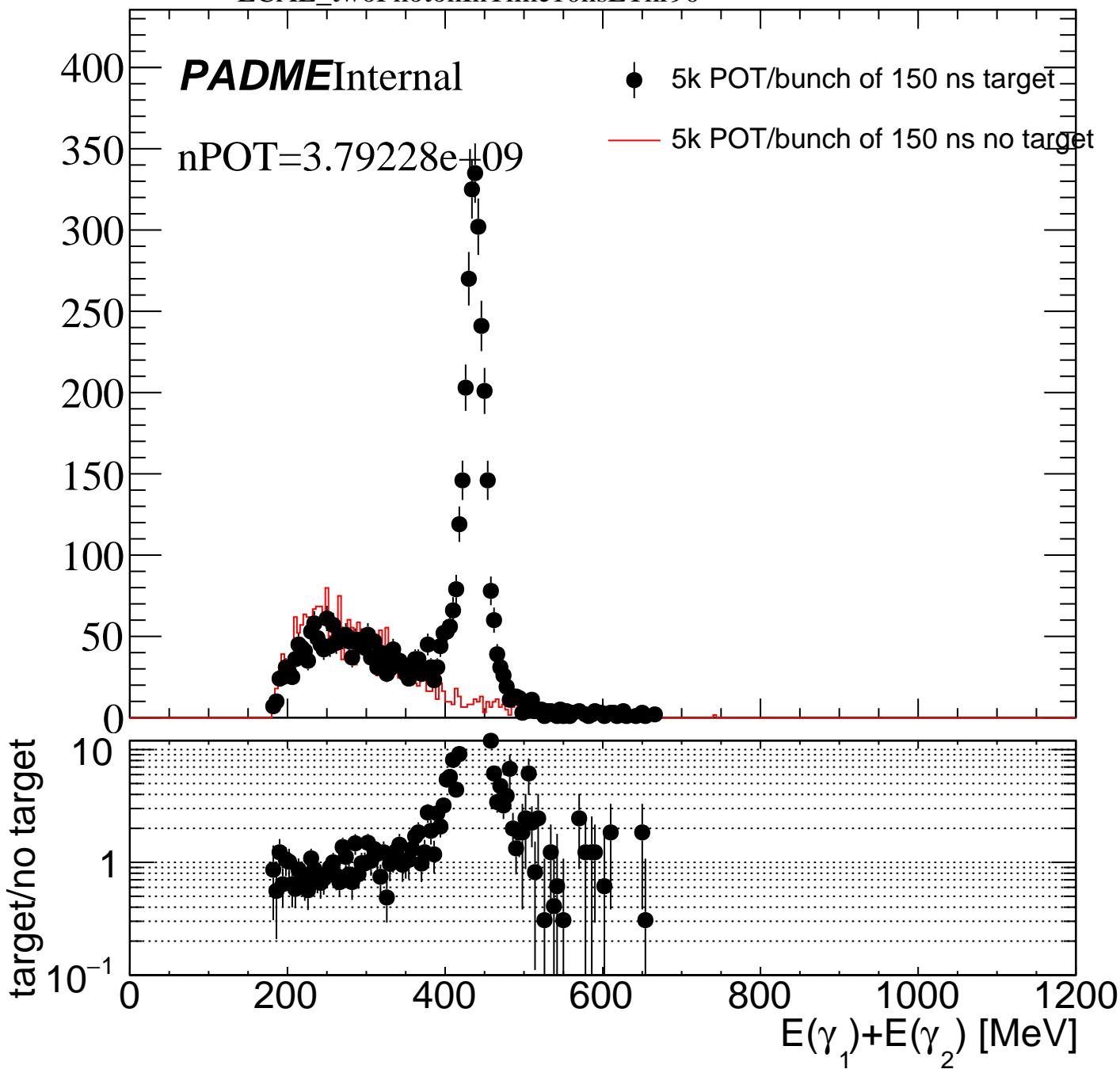
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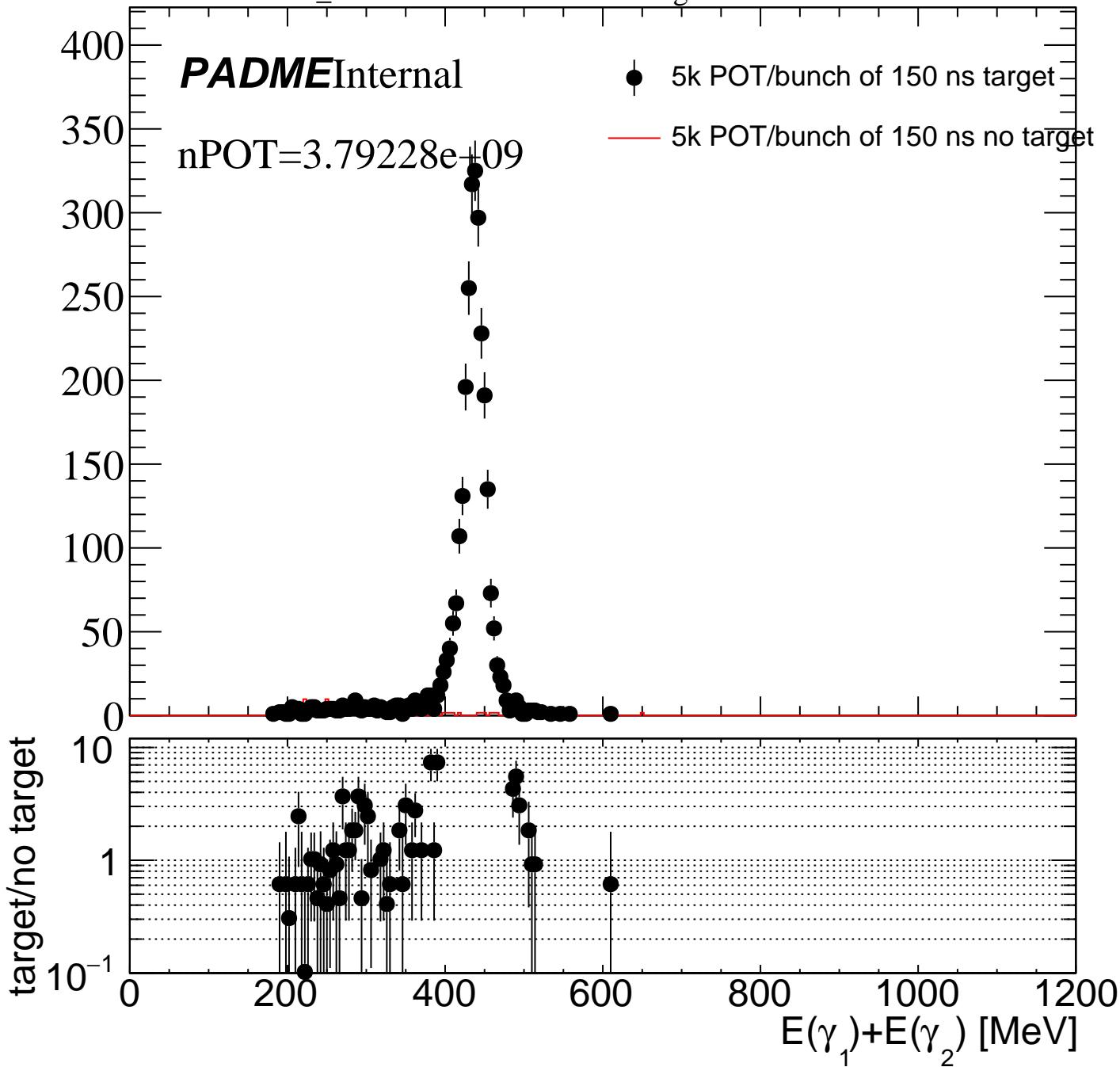
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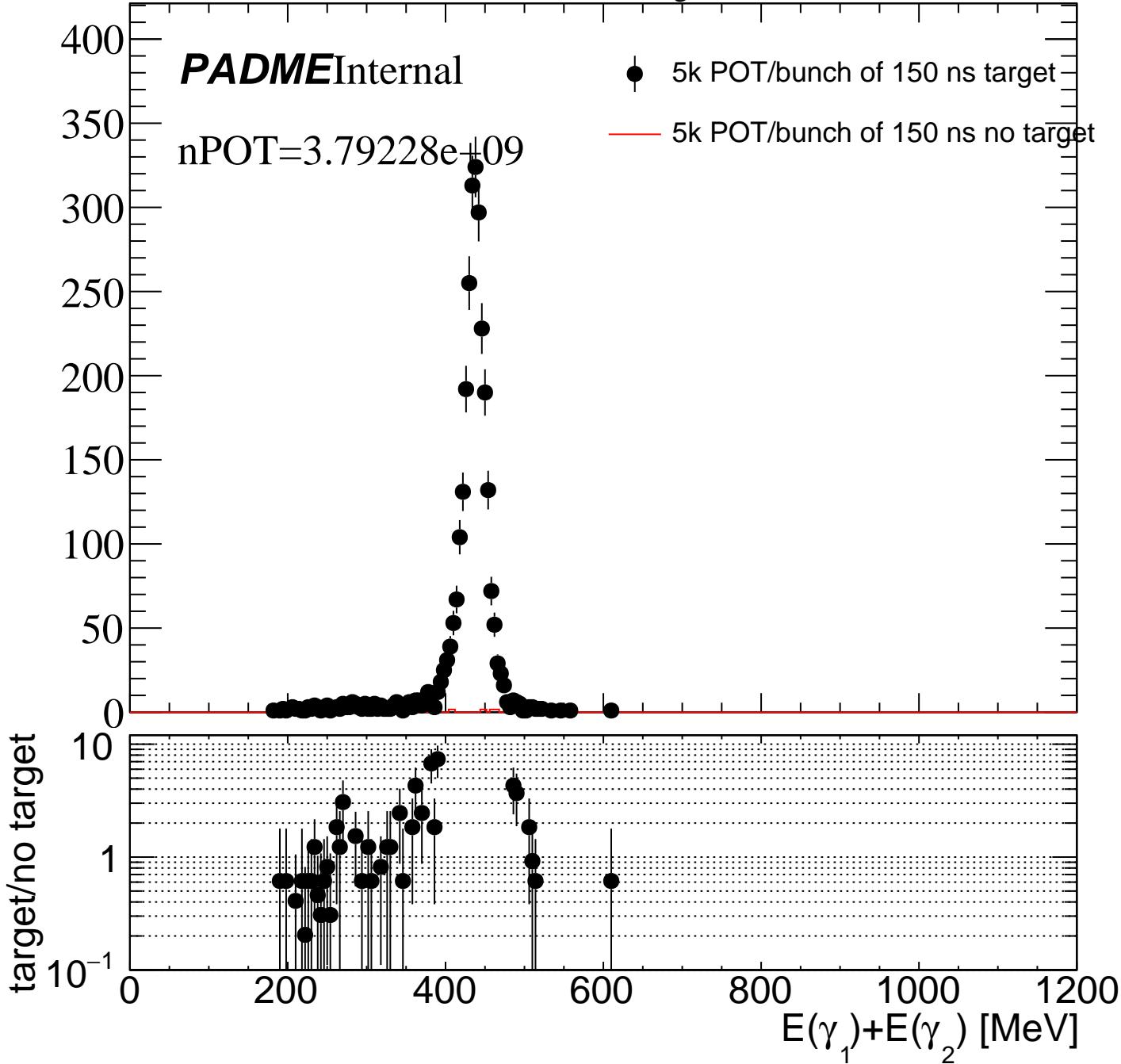
ECAL\_twoPhotonInTime10nsEThr90



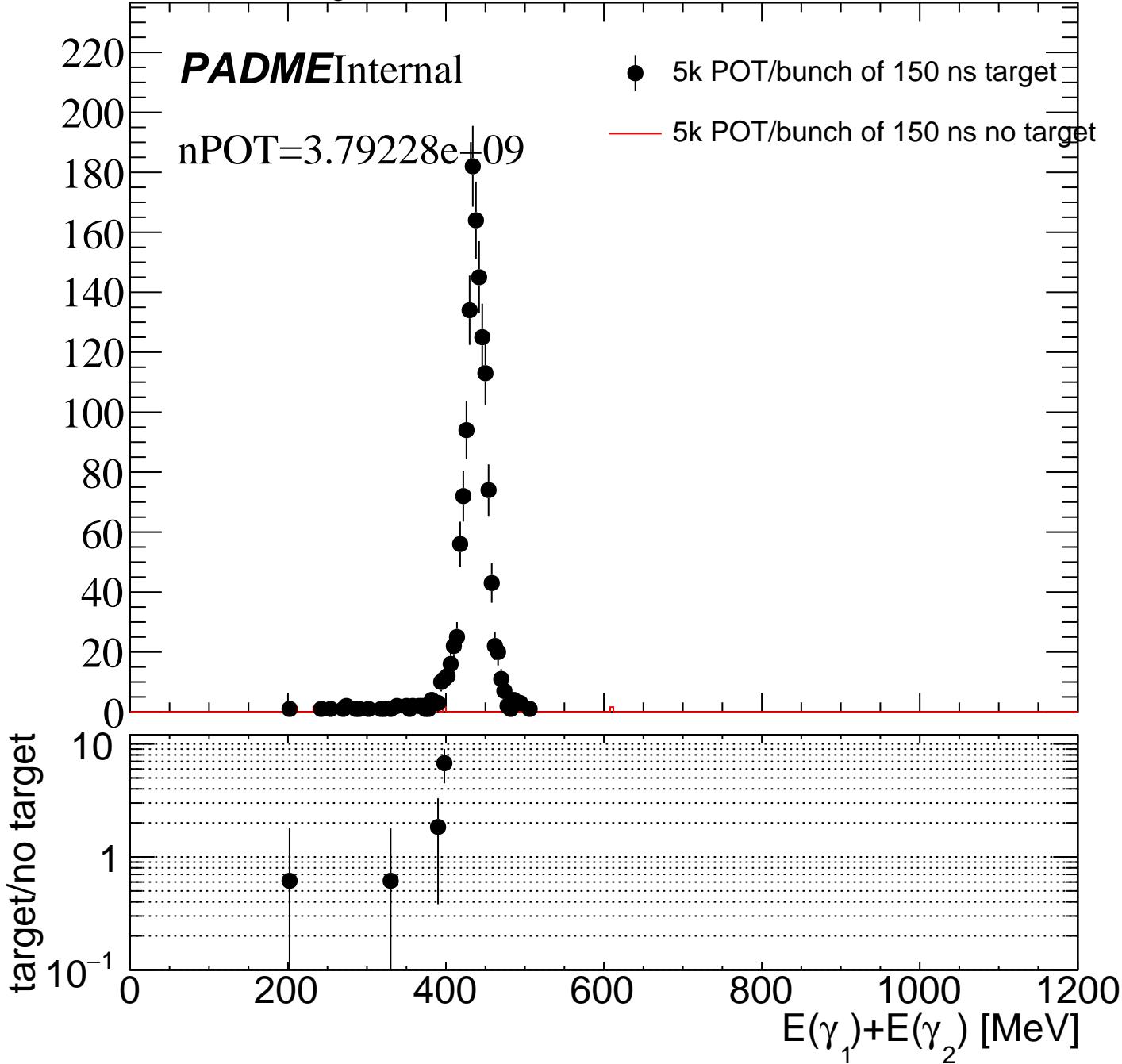
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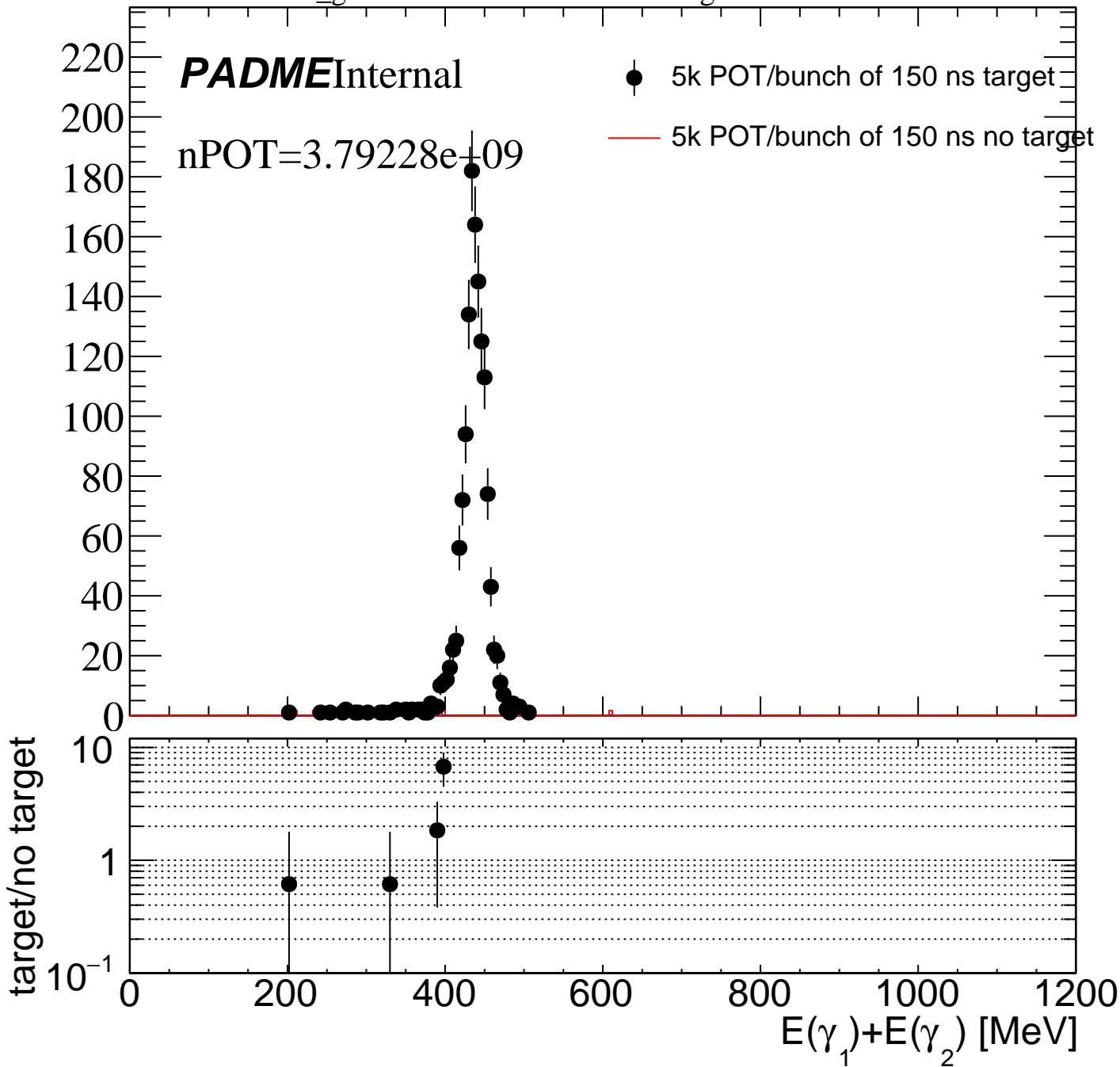
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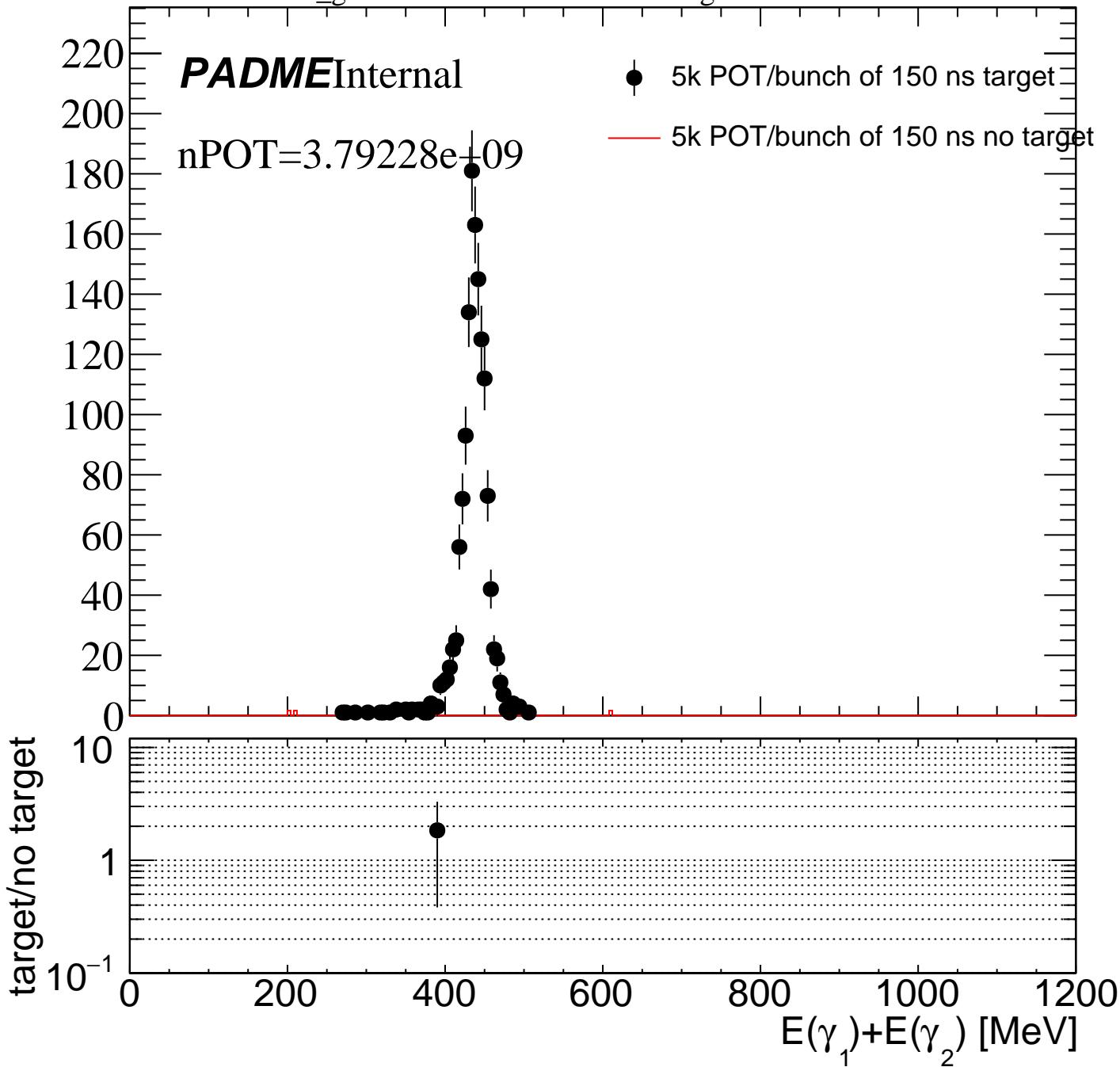
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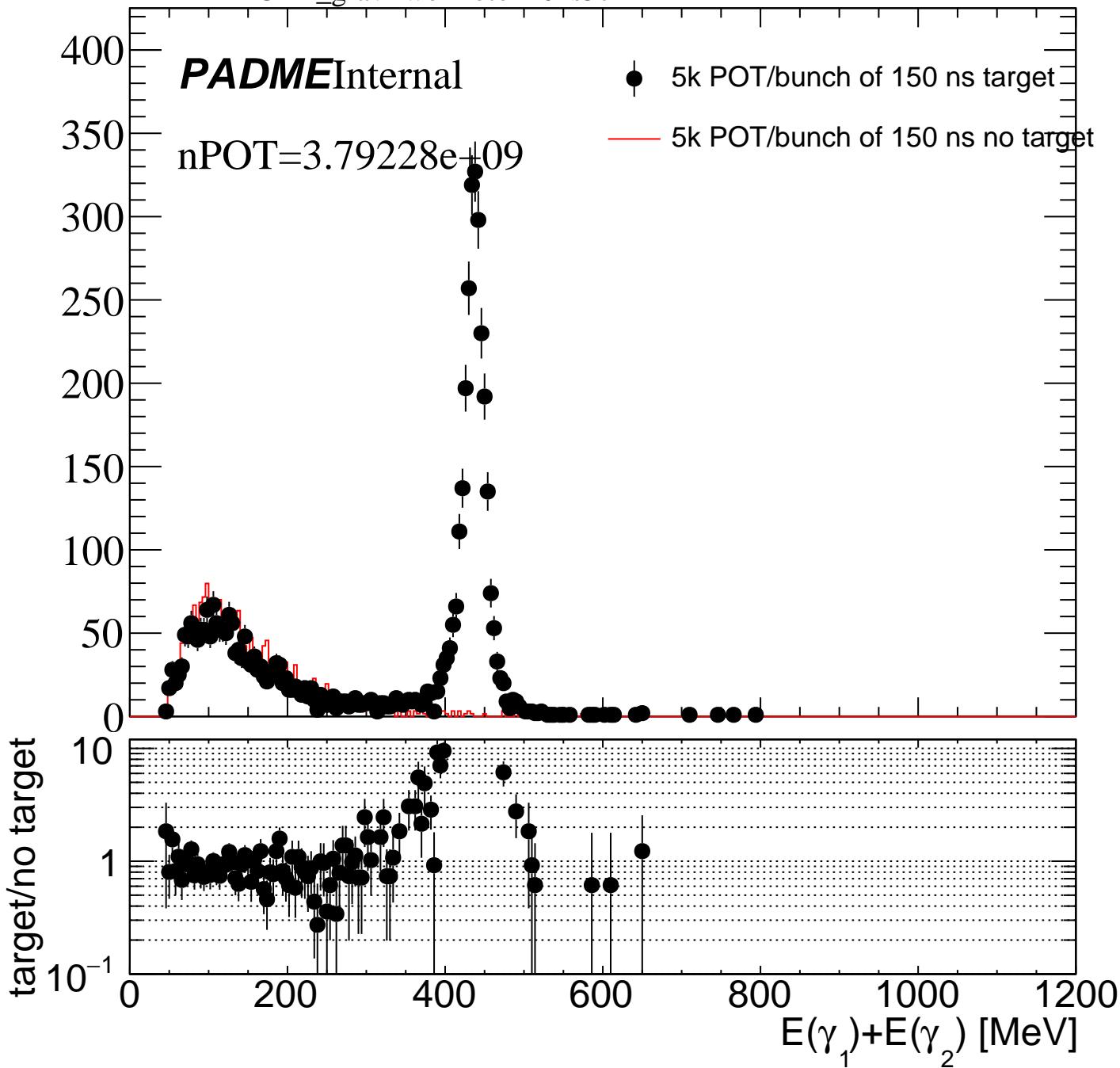
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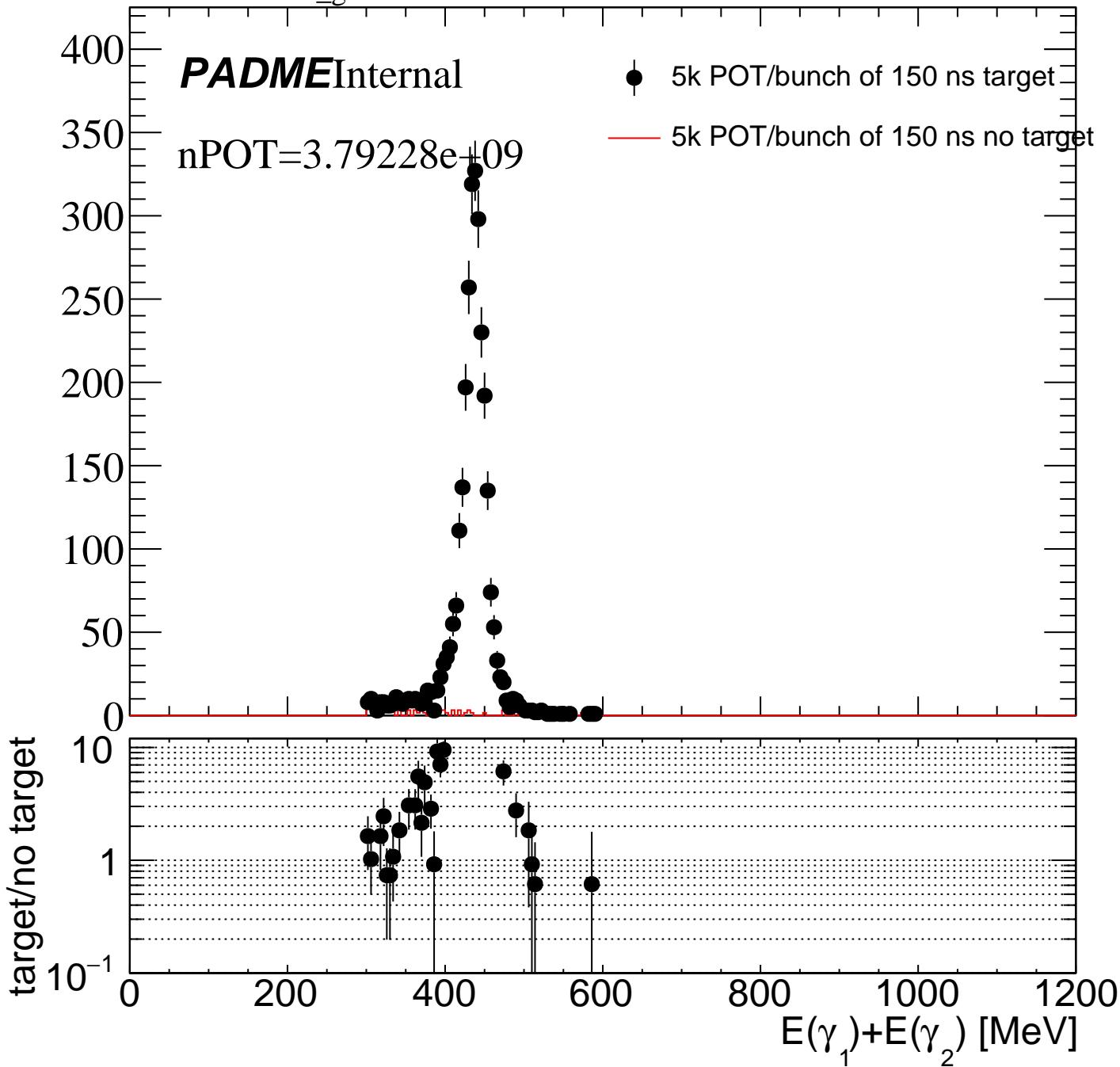
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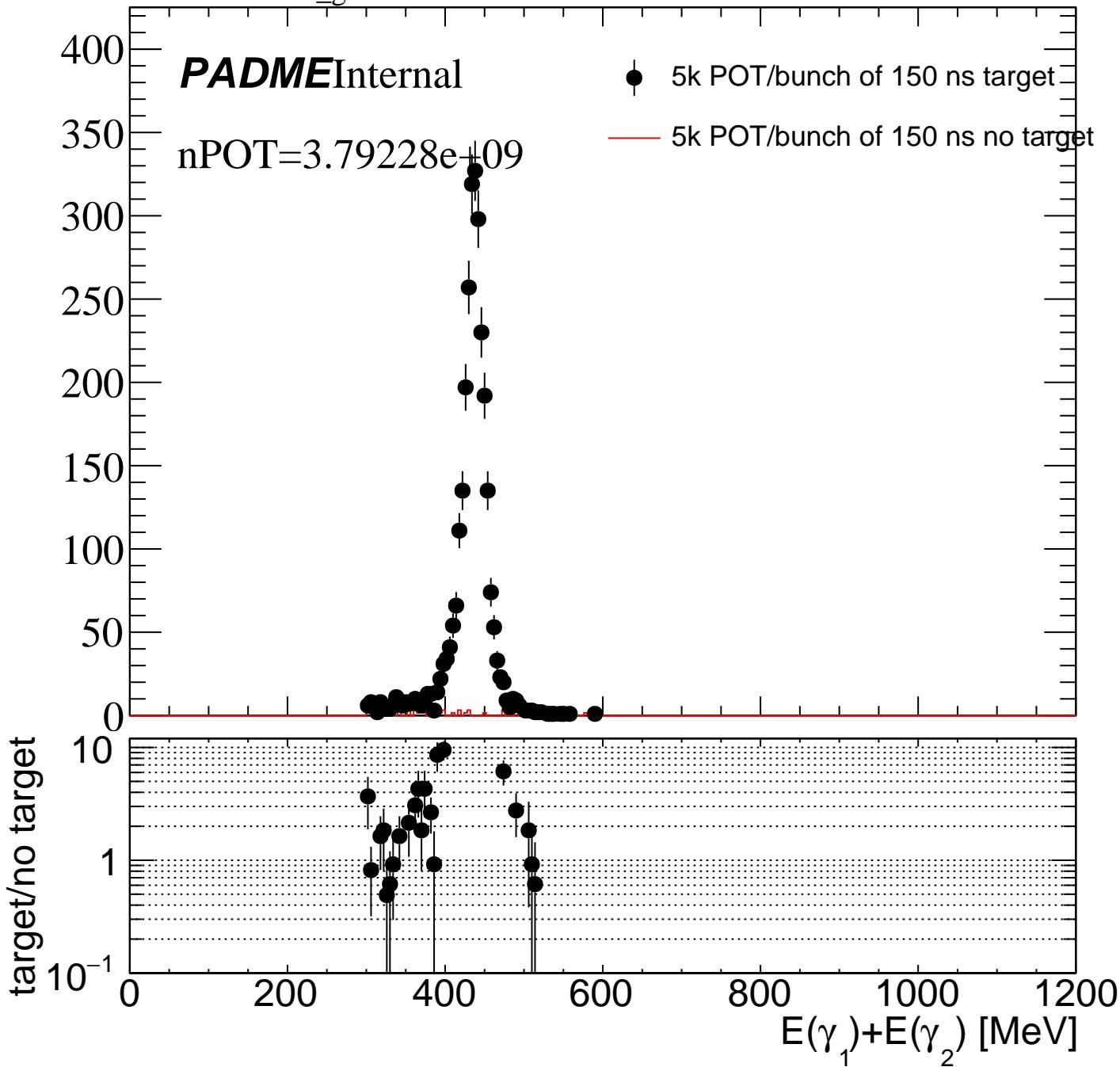
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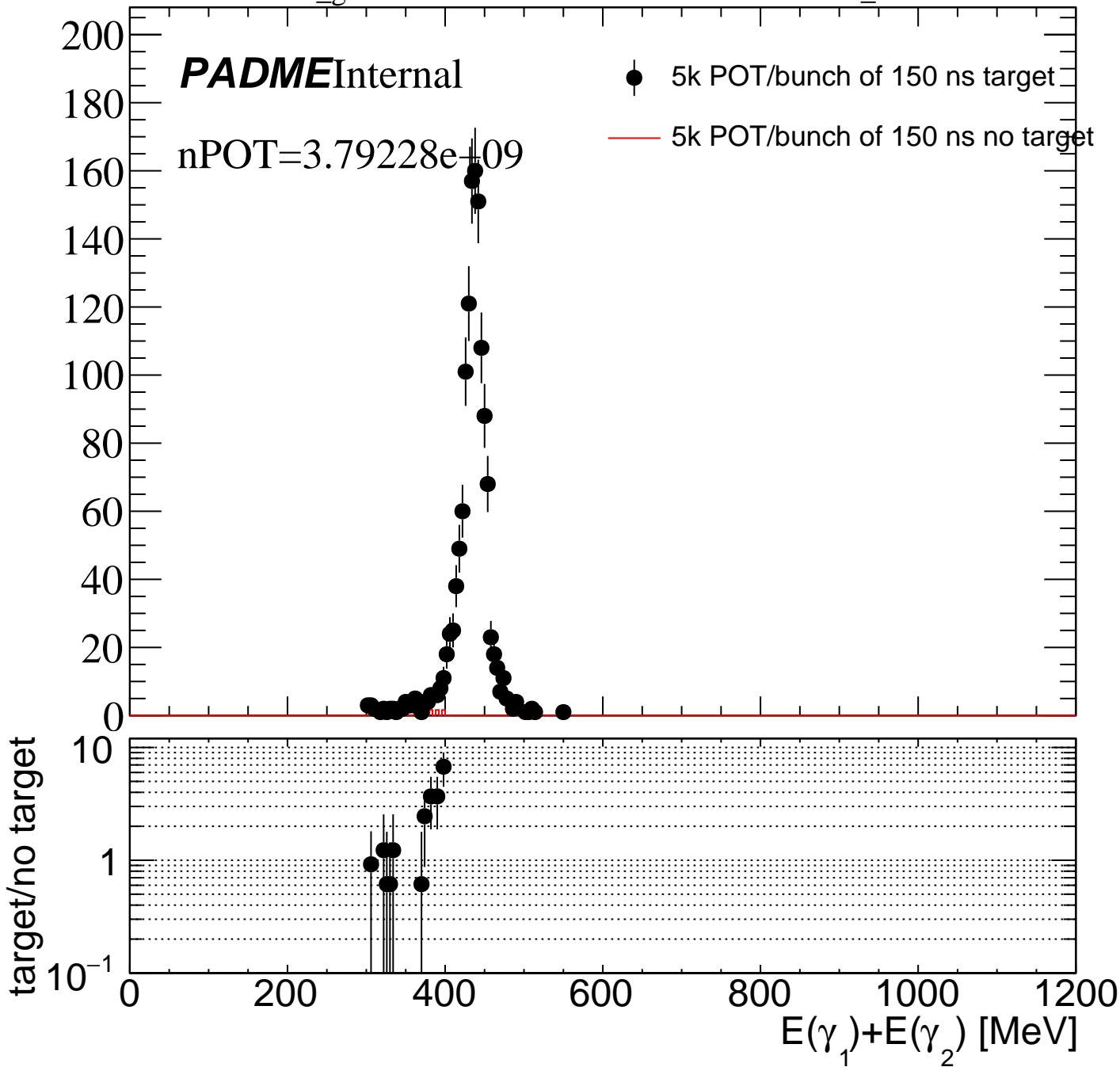
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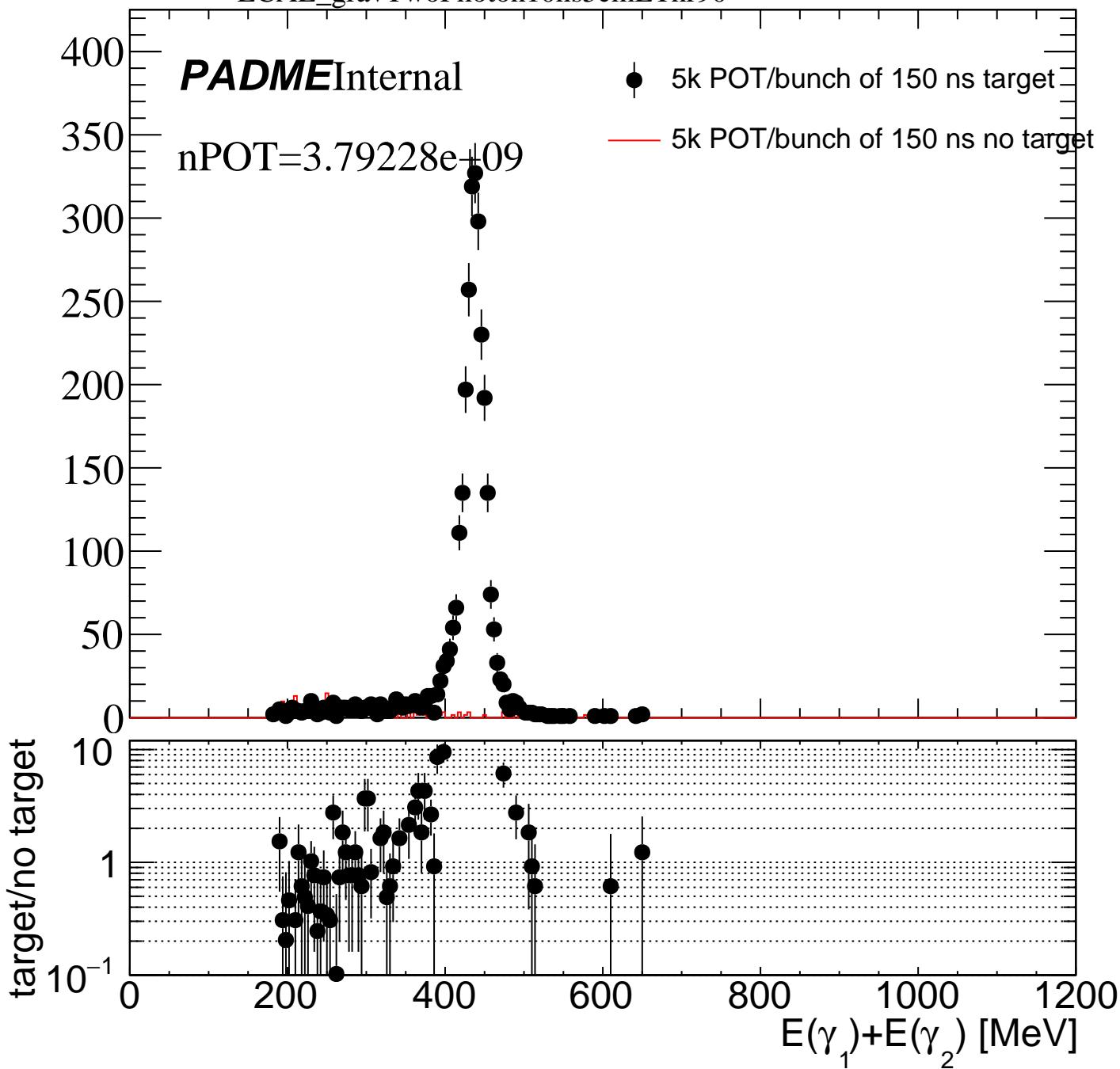
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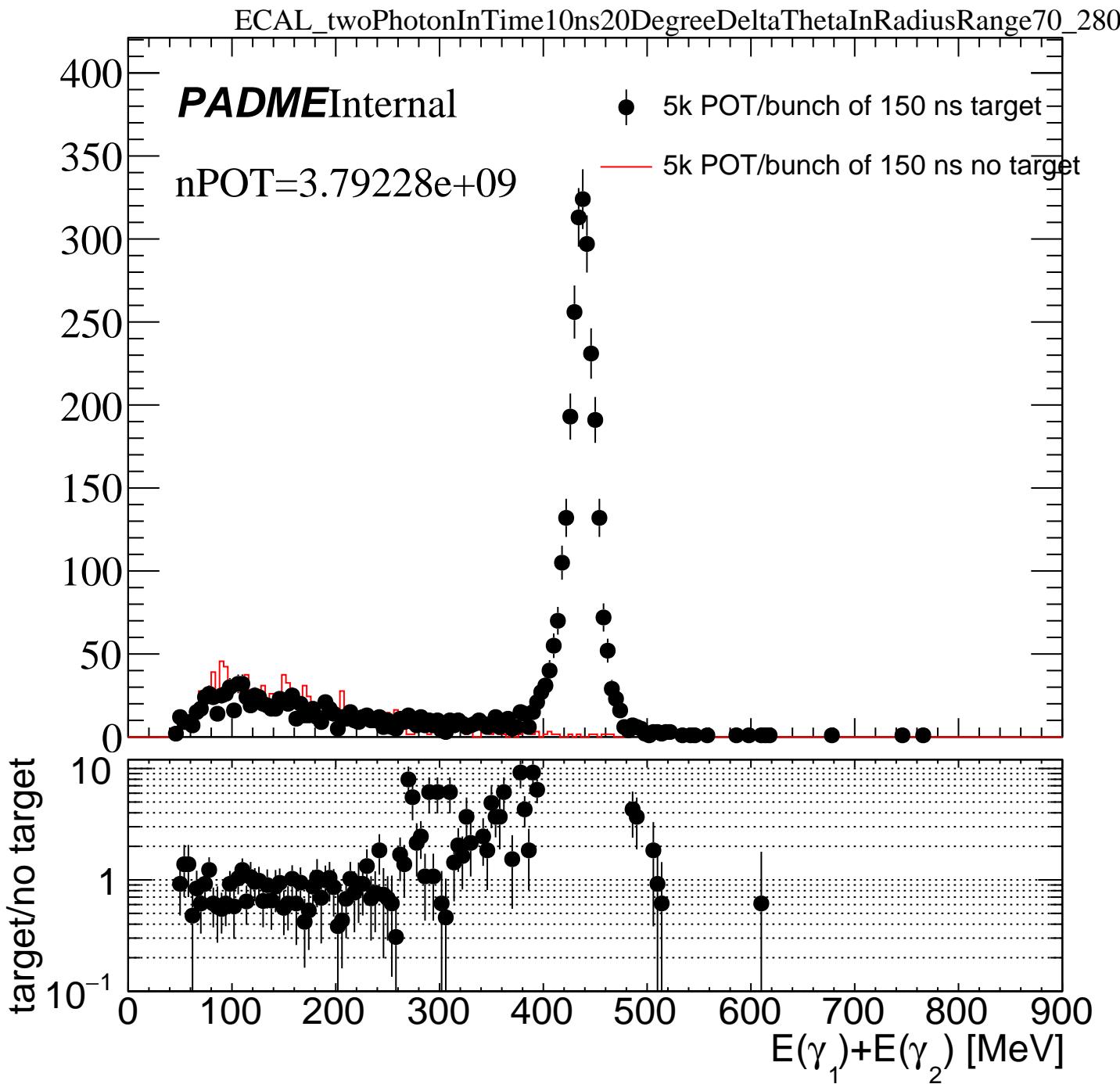


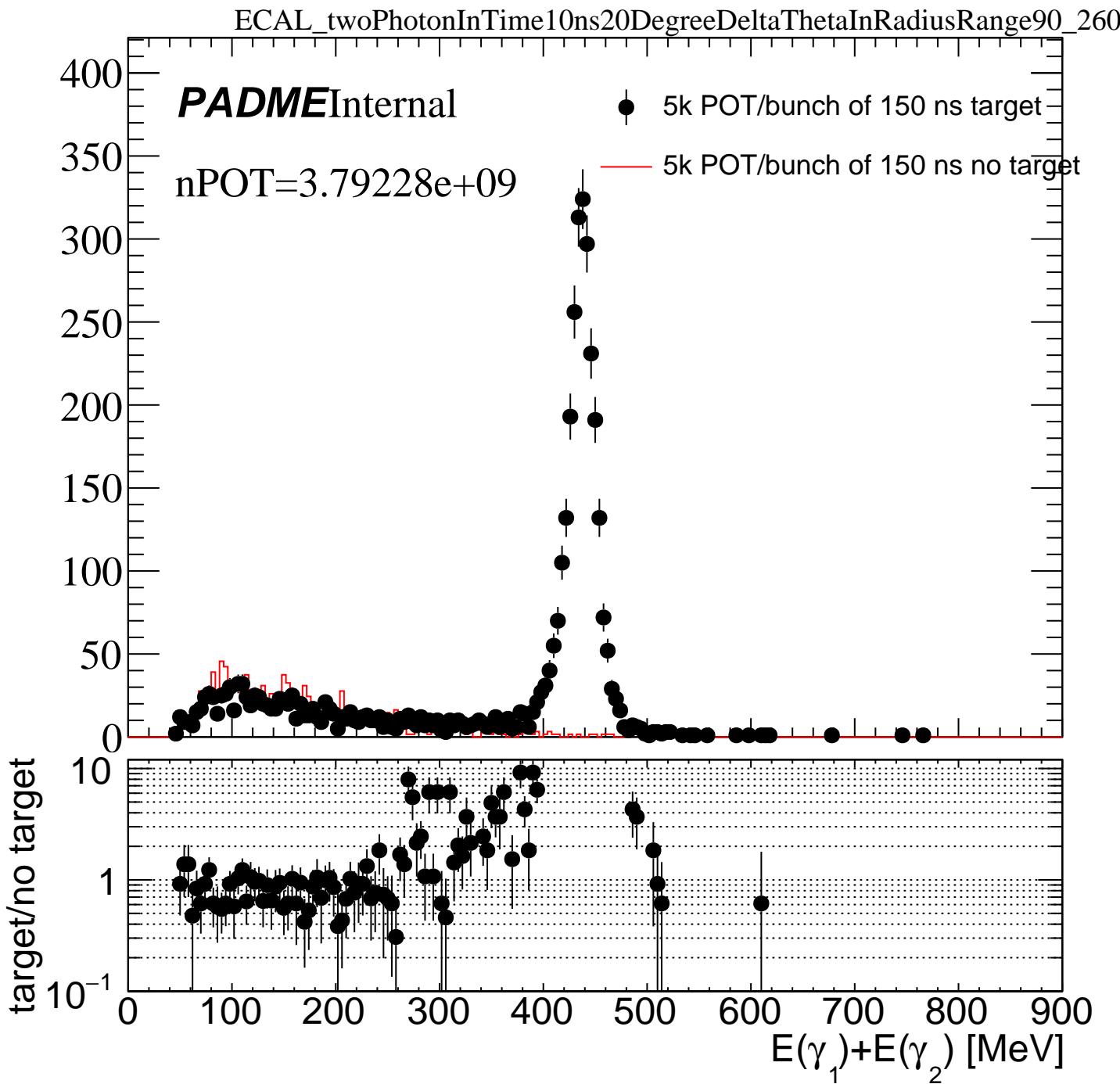
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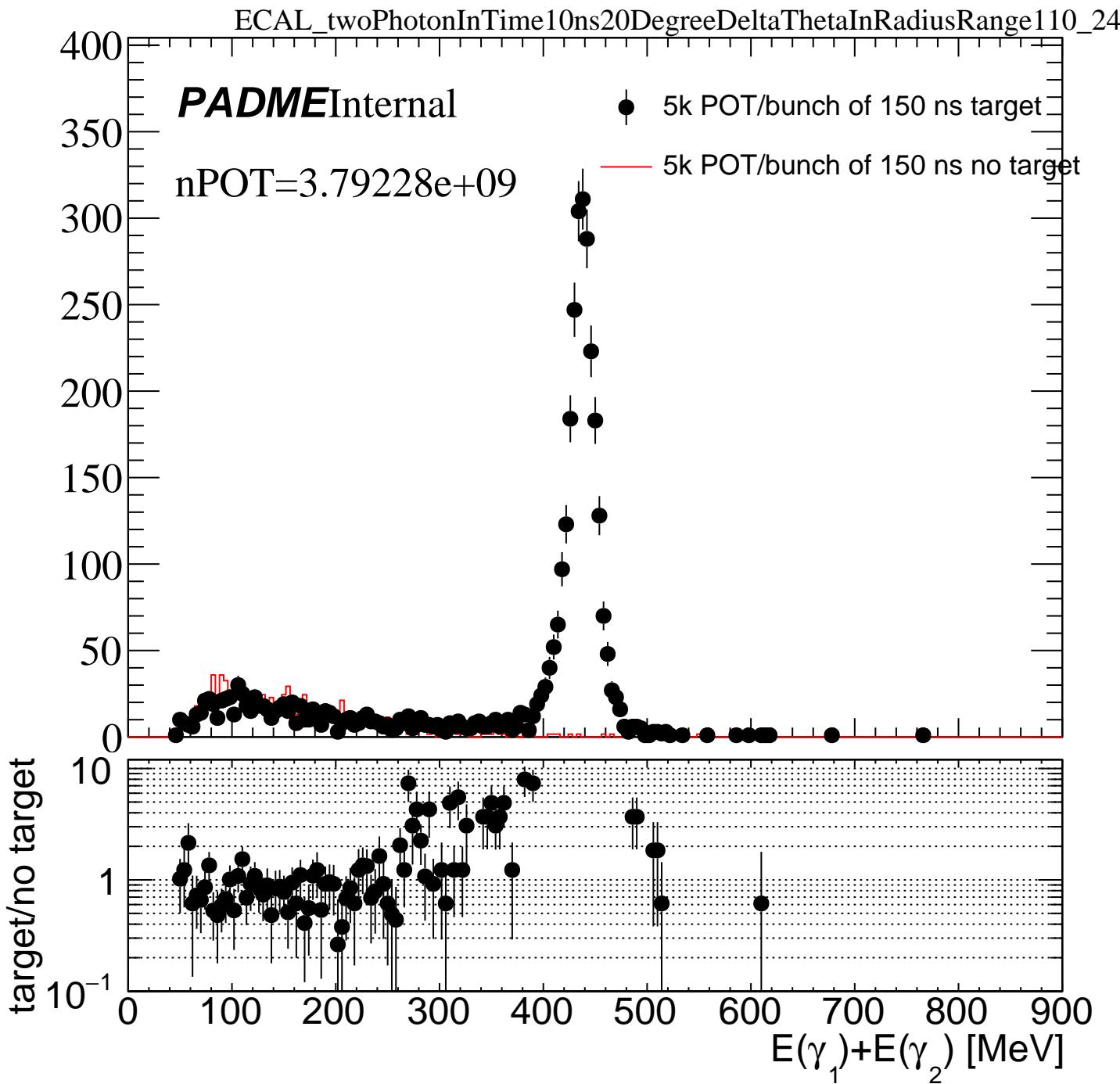


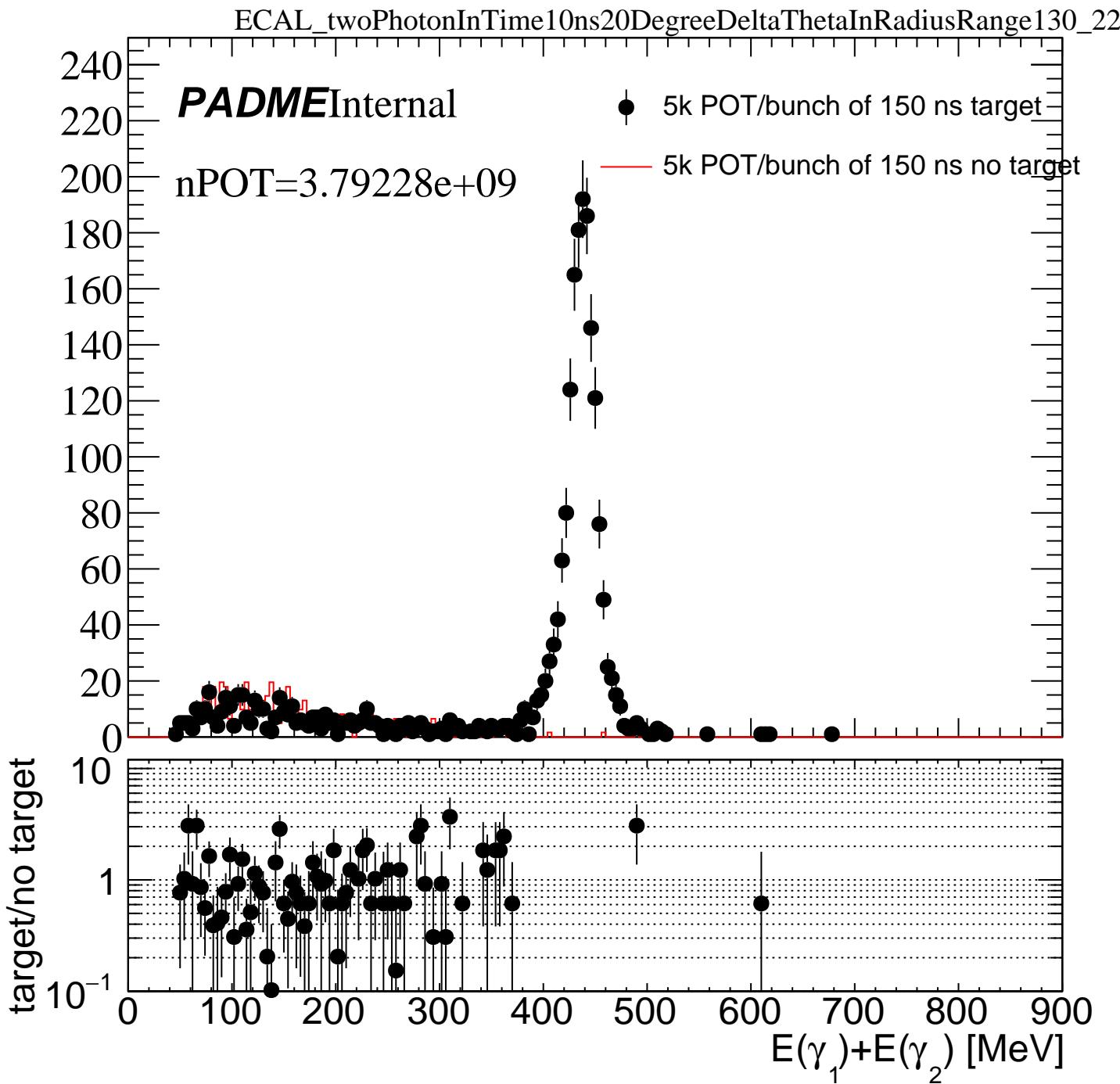
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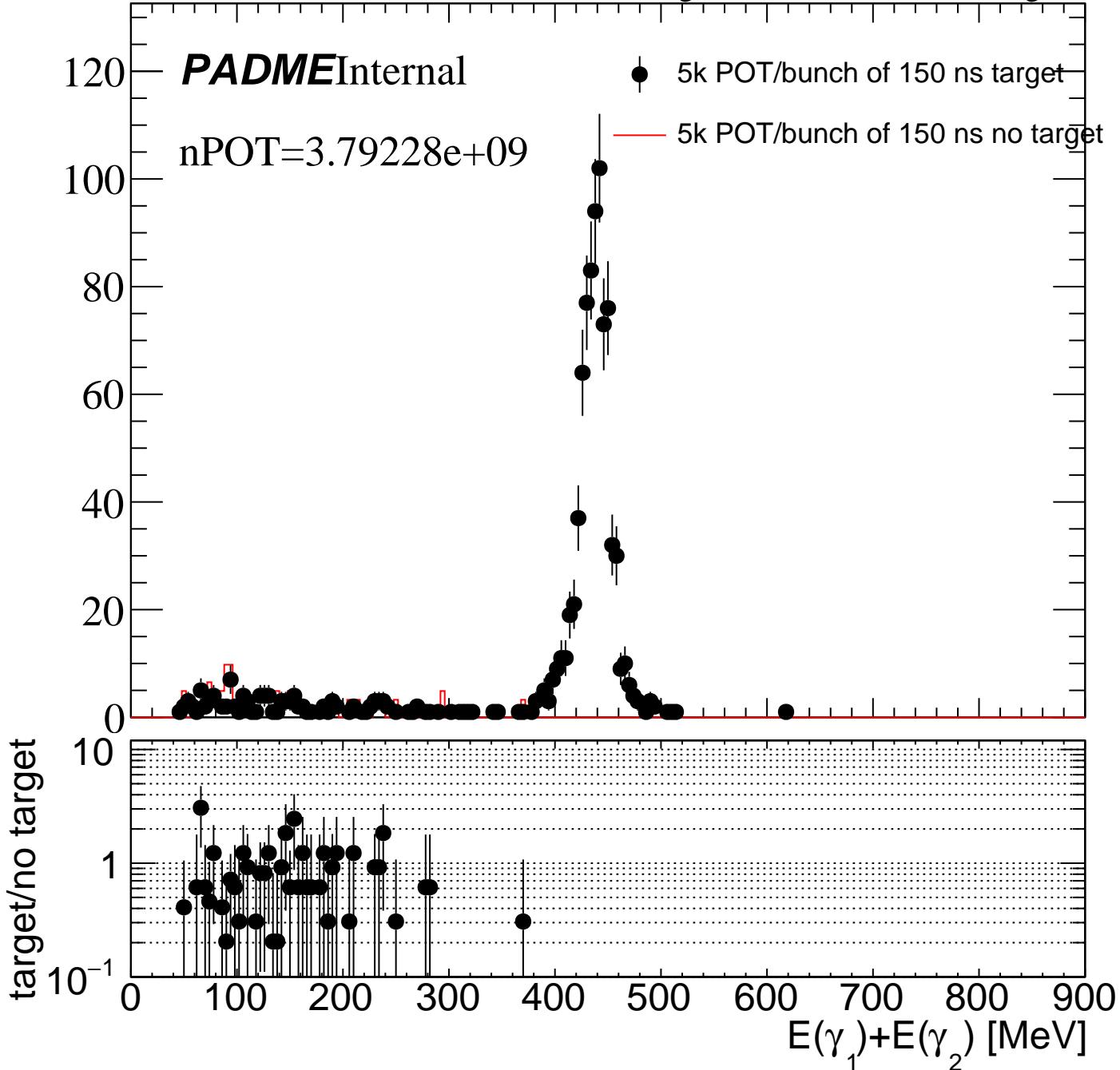




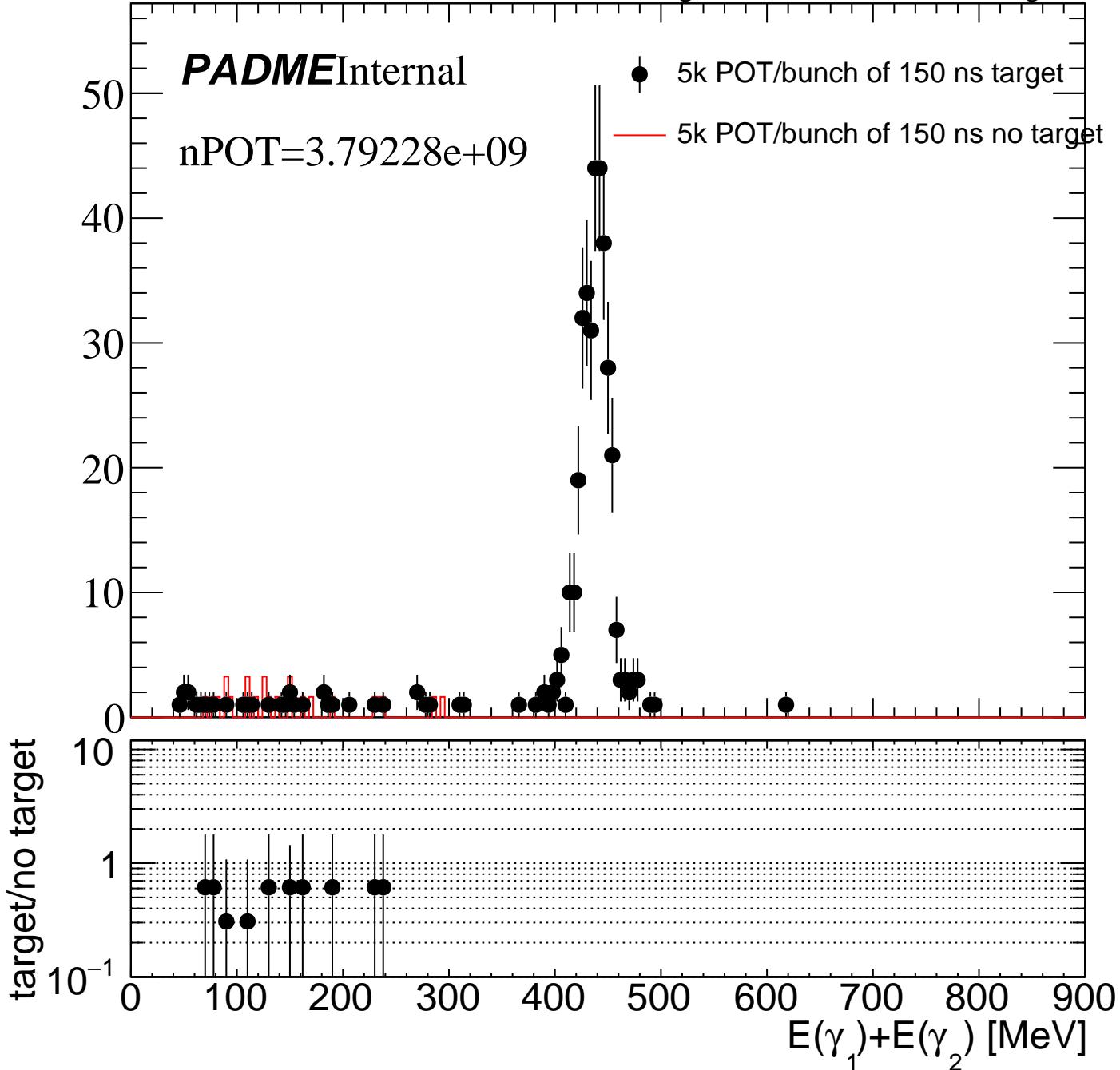


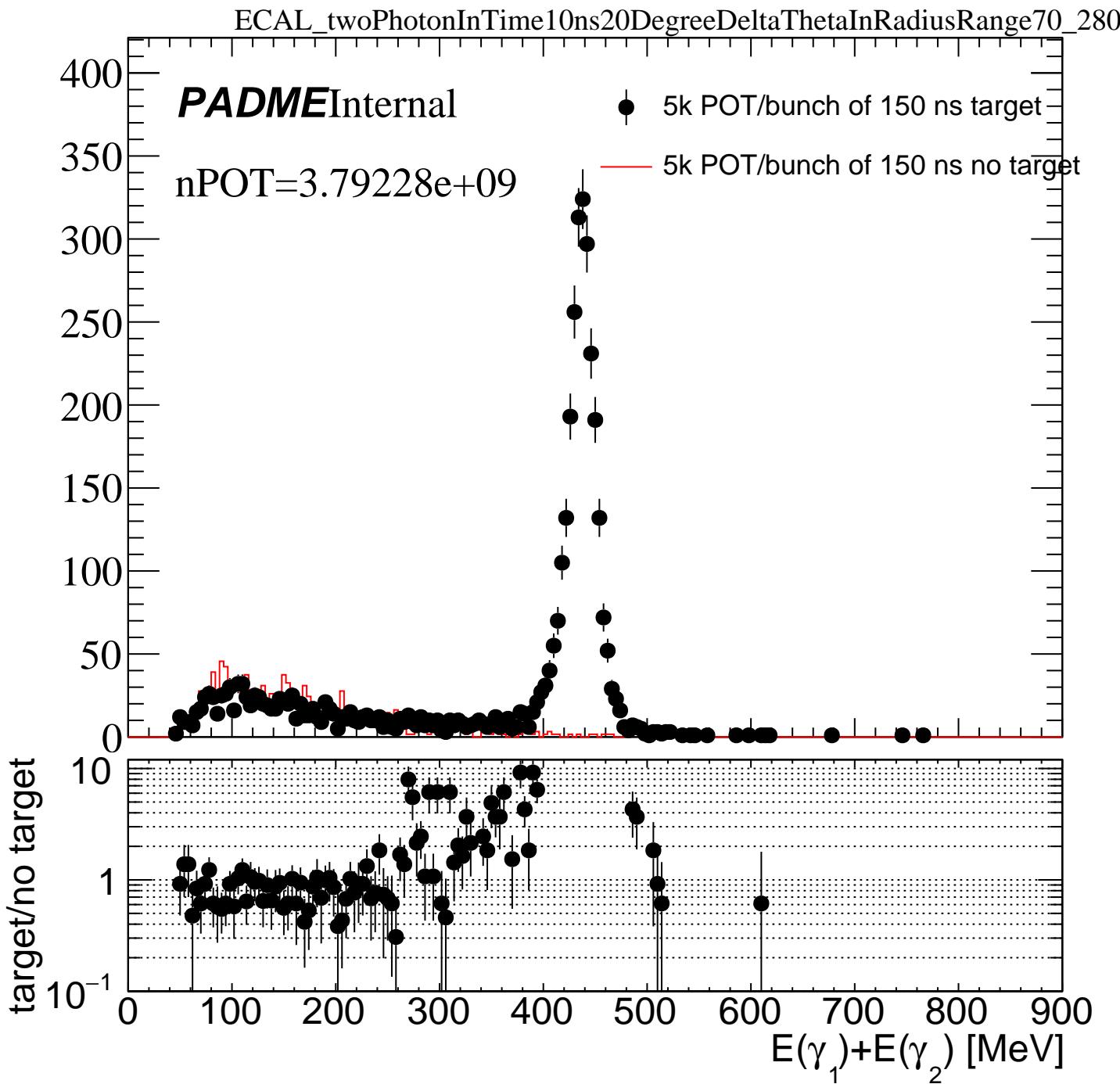


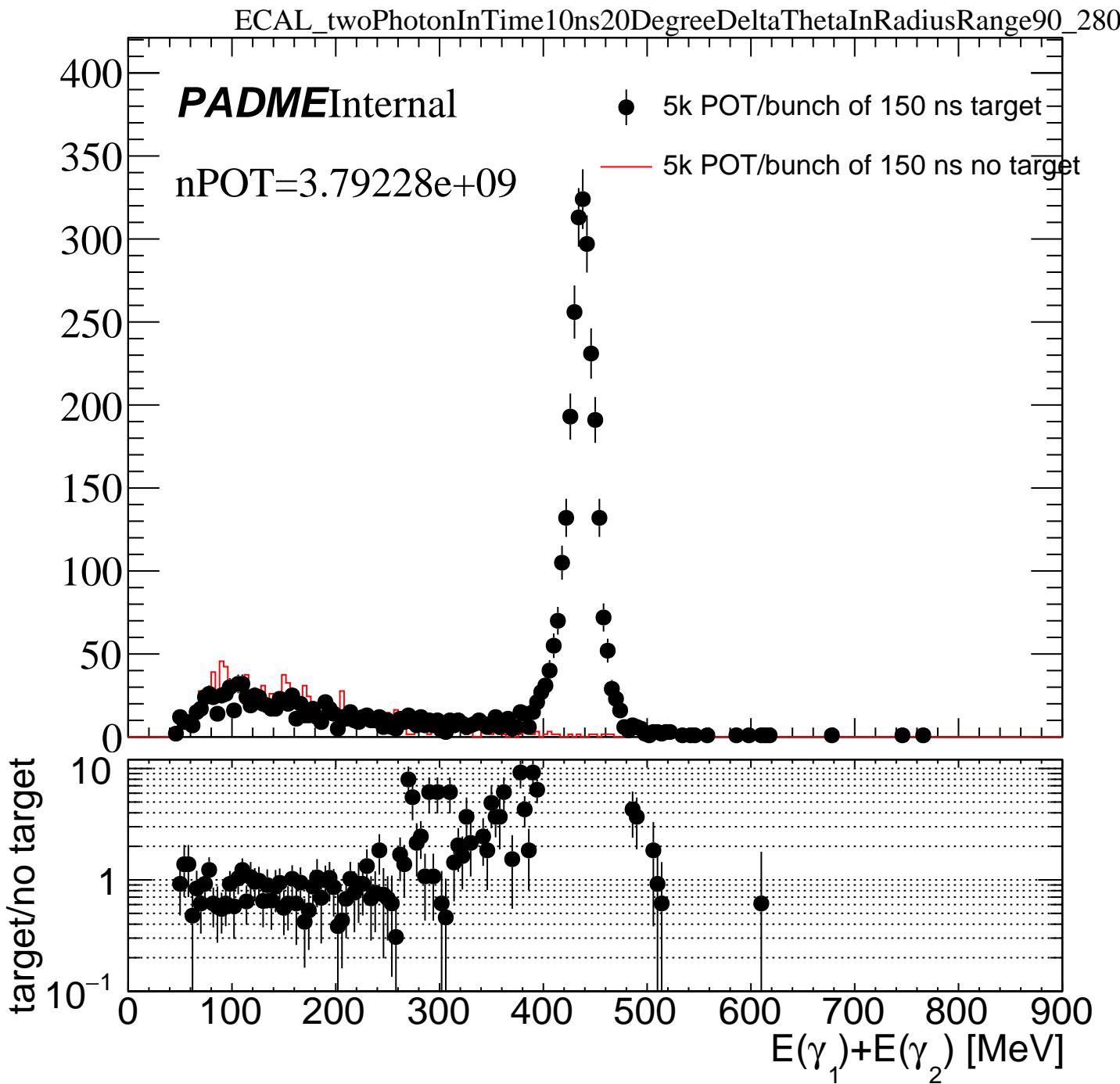
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150\_20

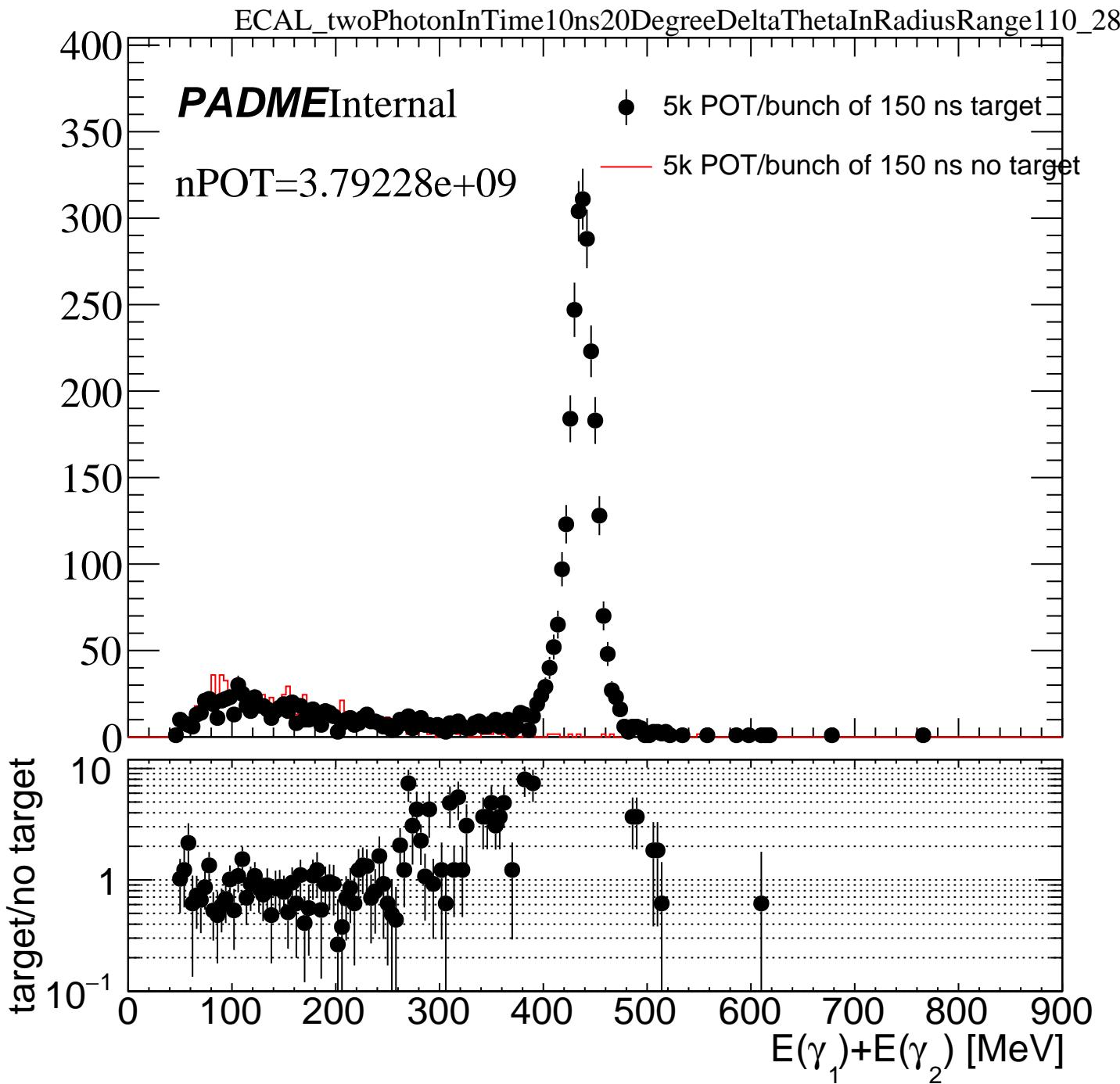


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160\_19

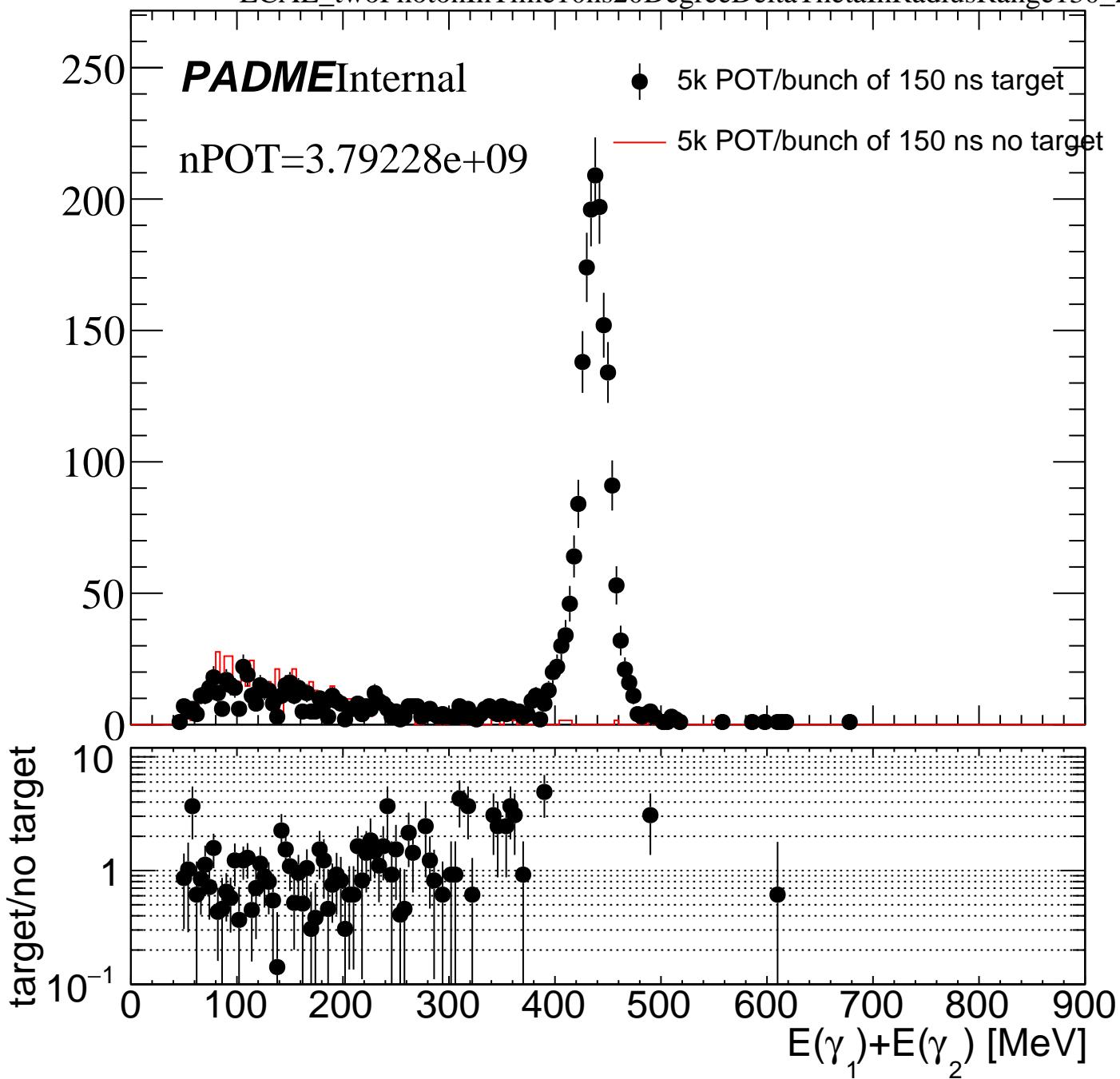


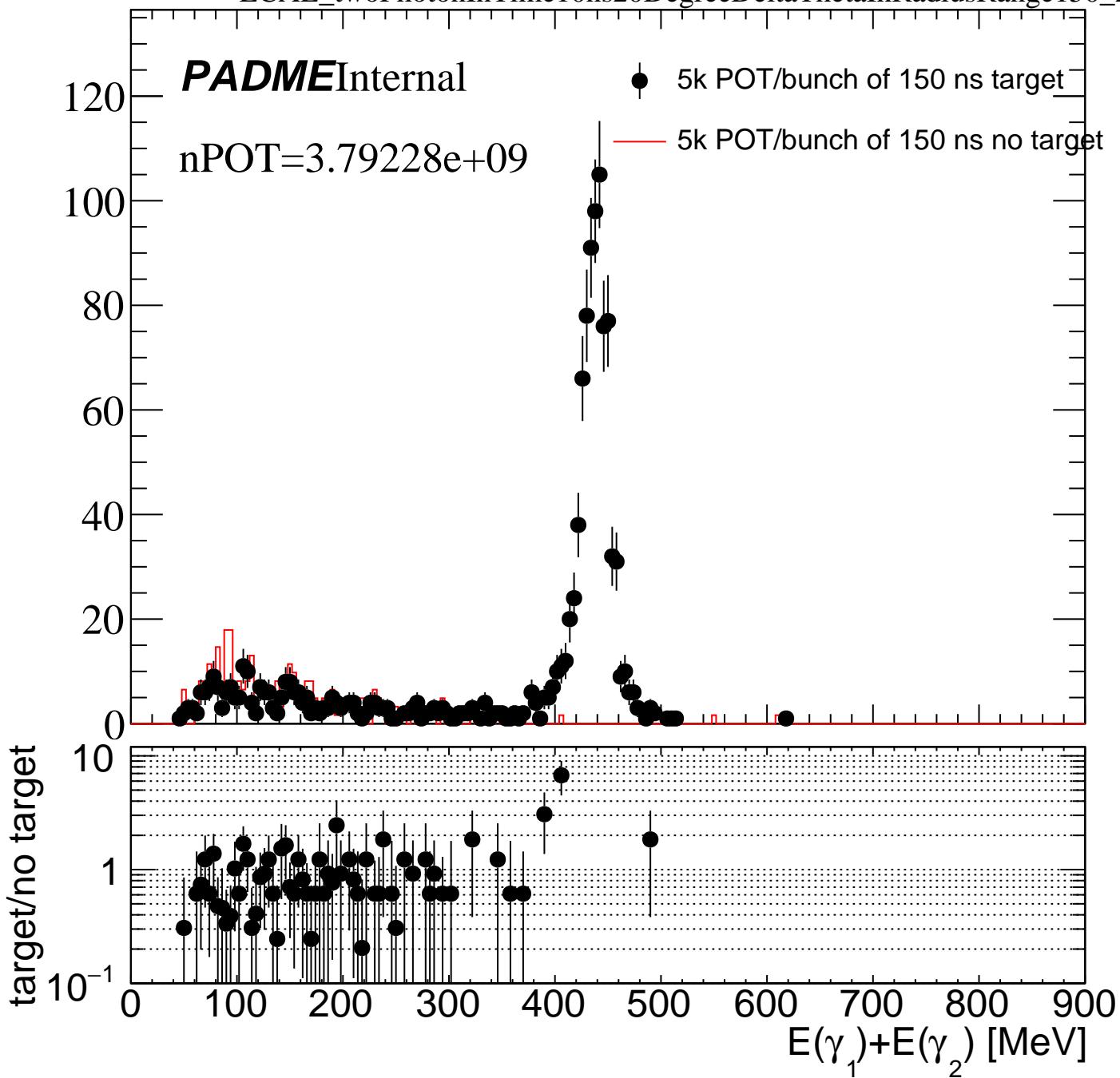




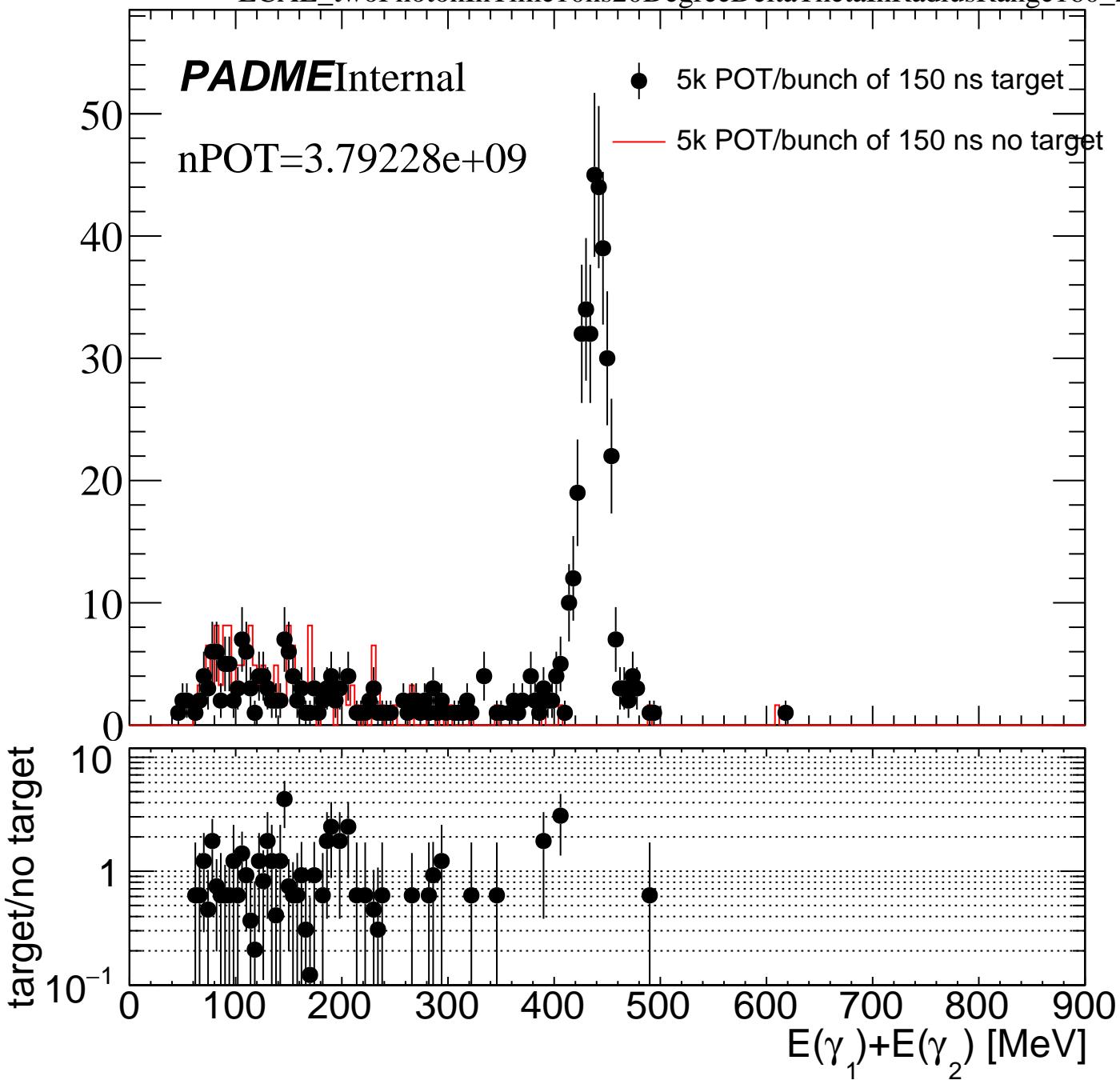


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130\_28

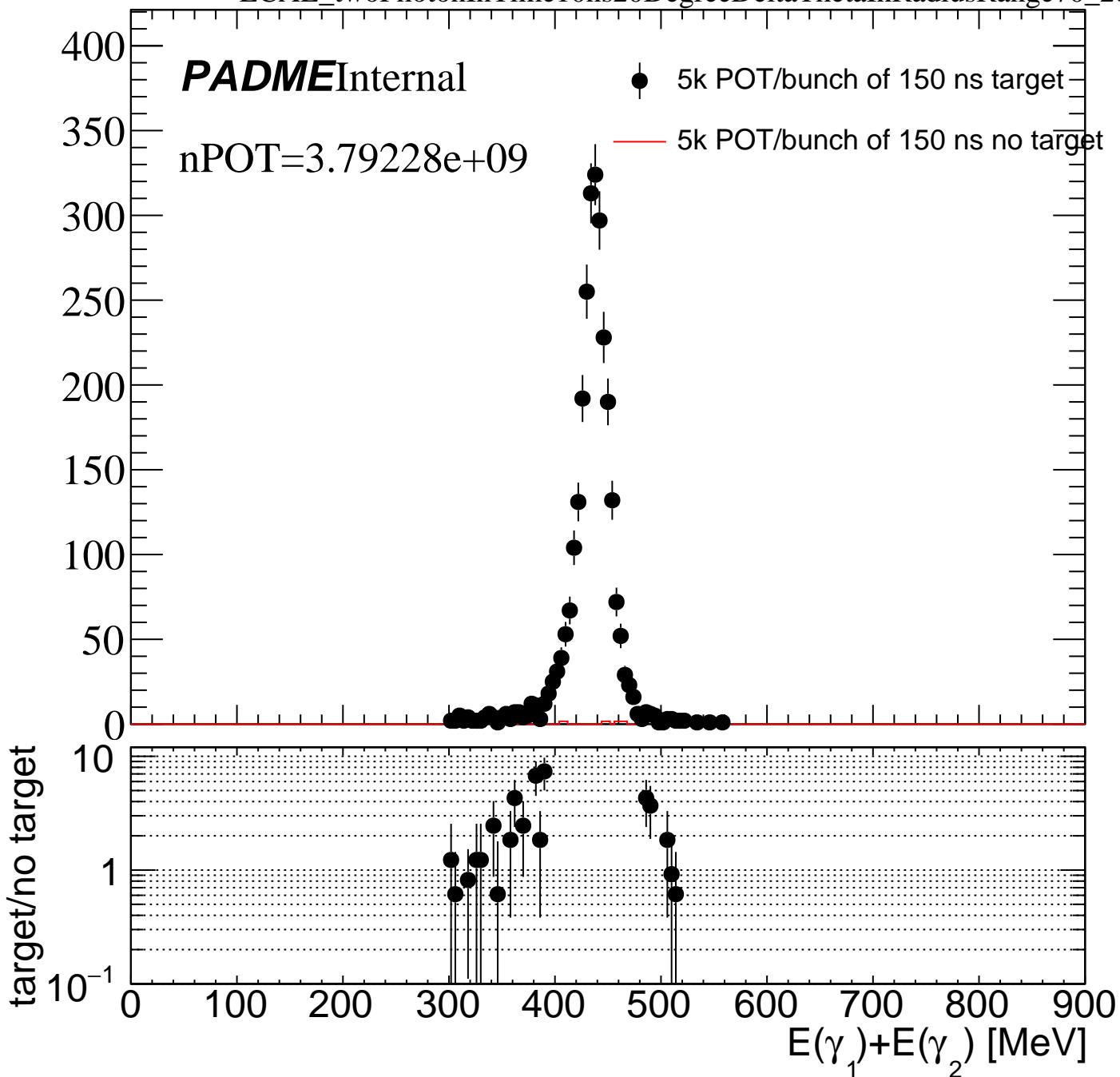




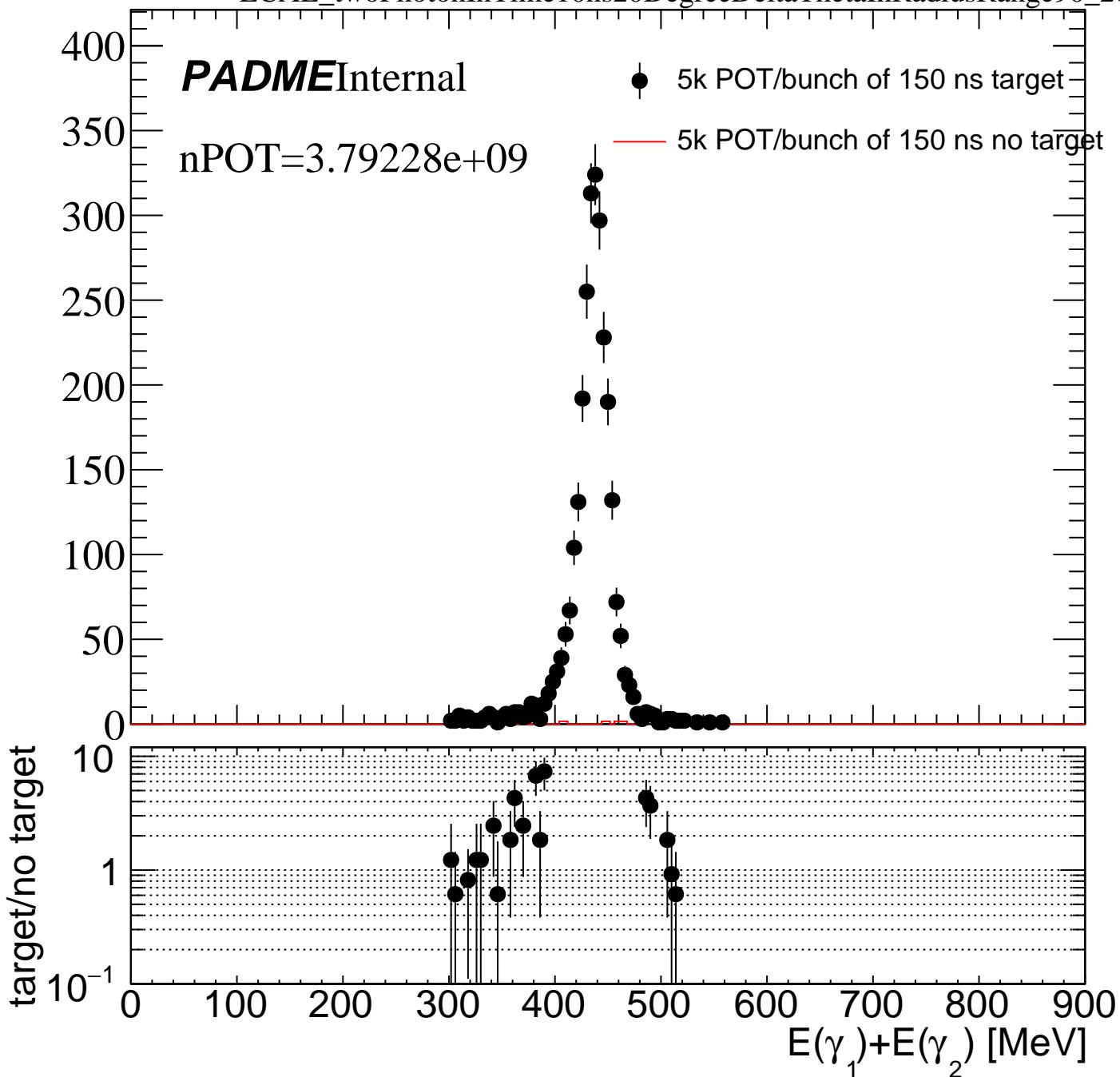
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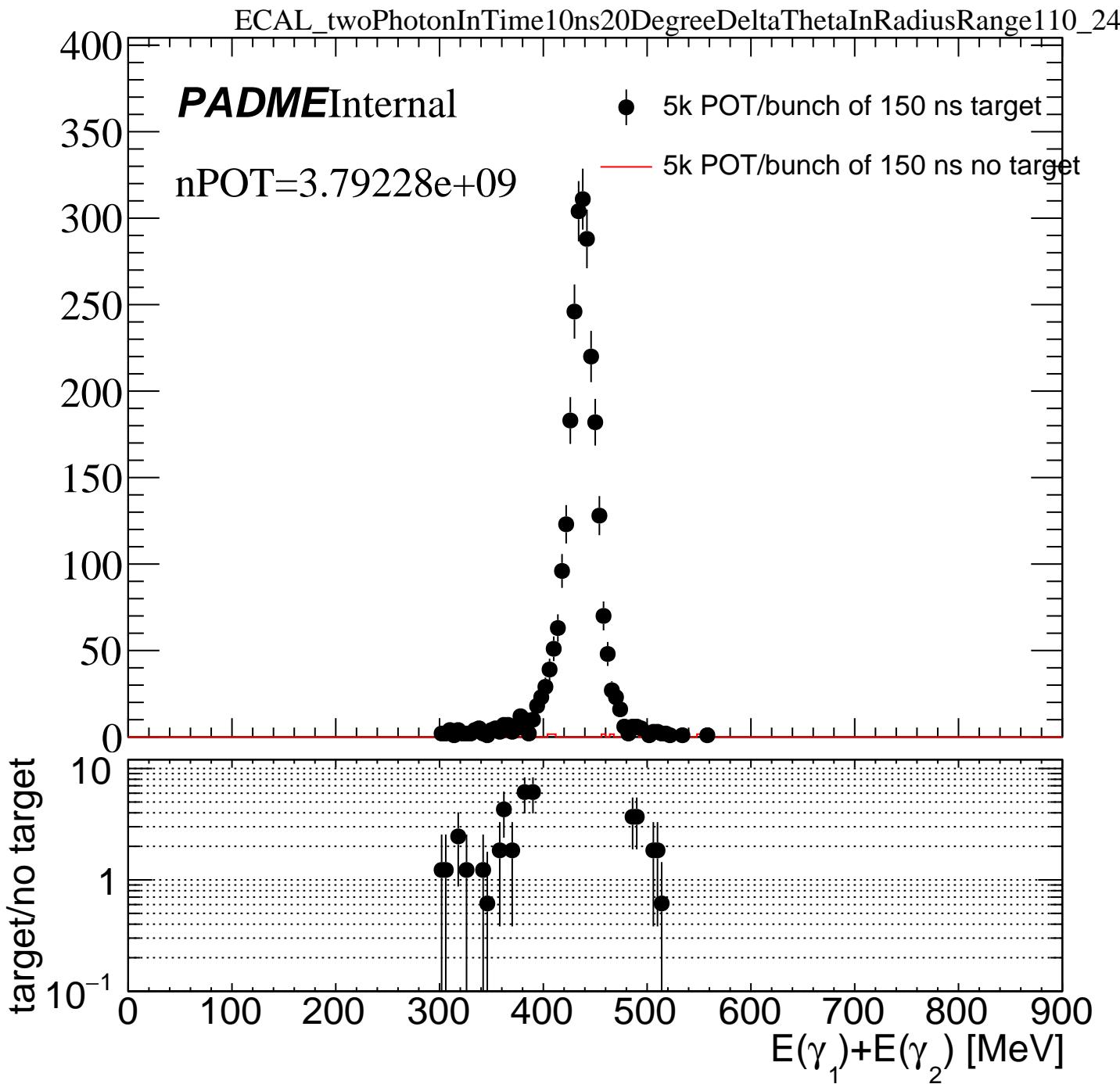


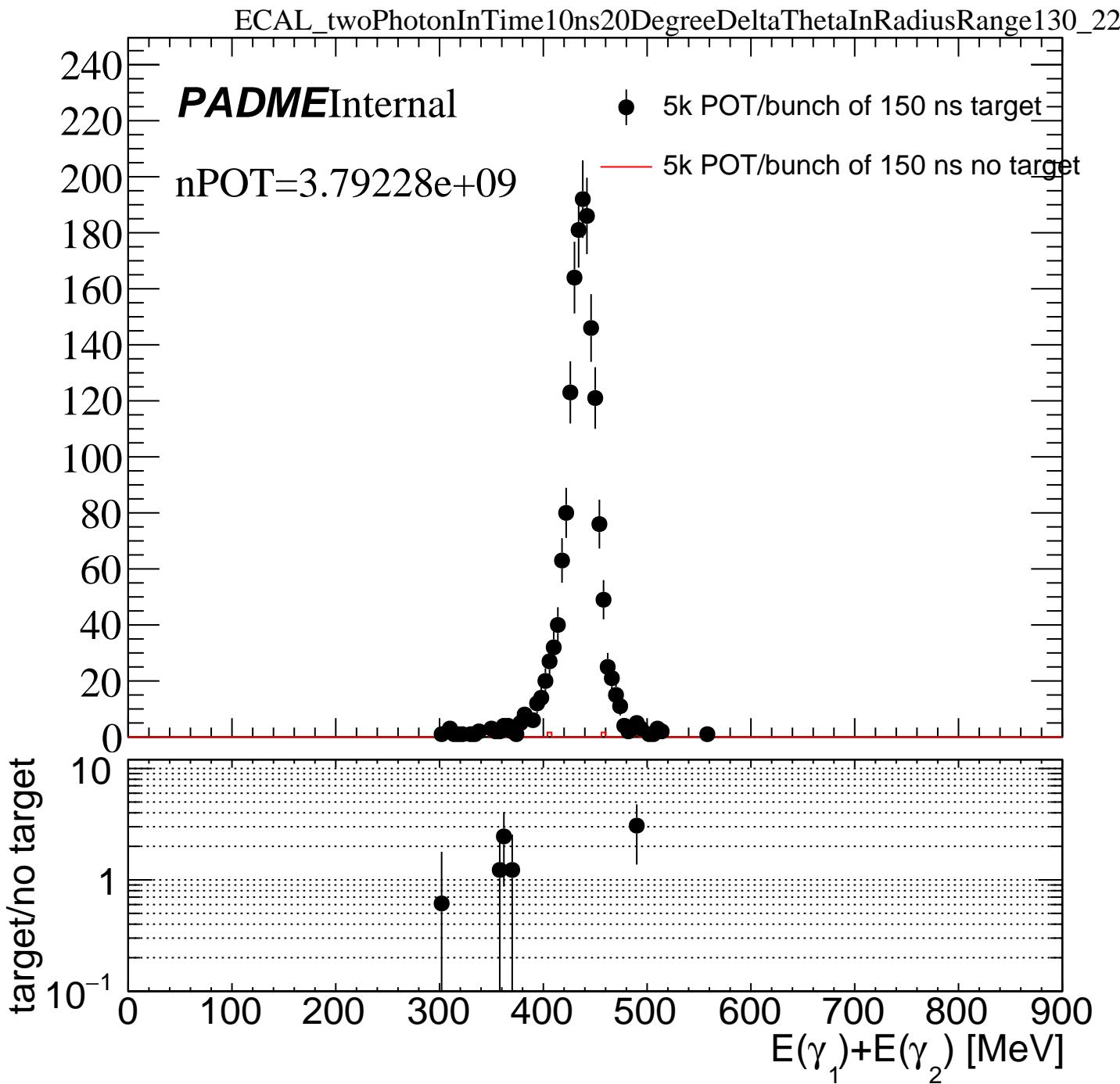
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70\_280



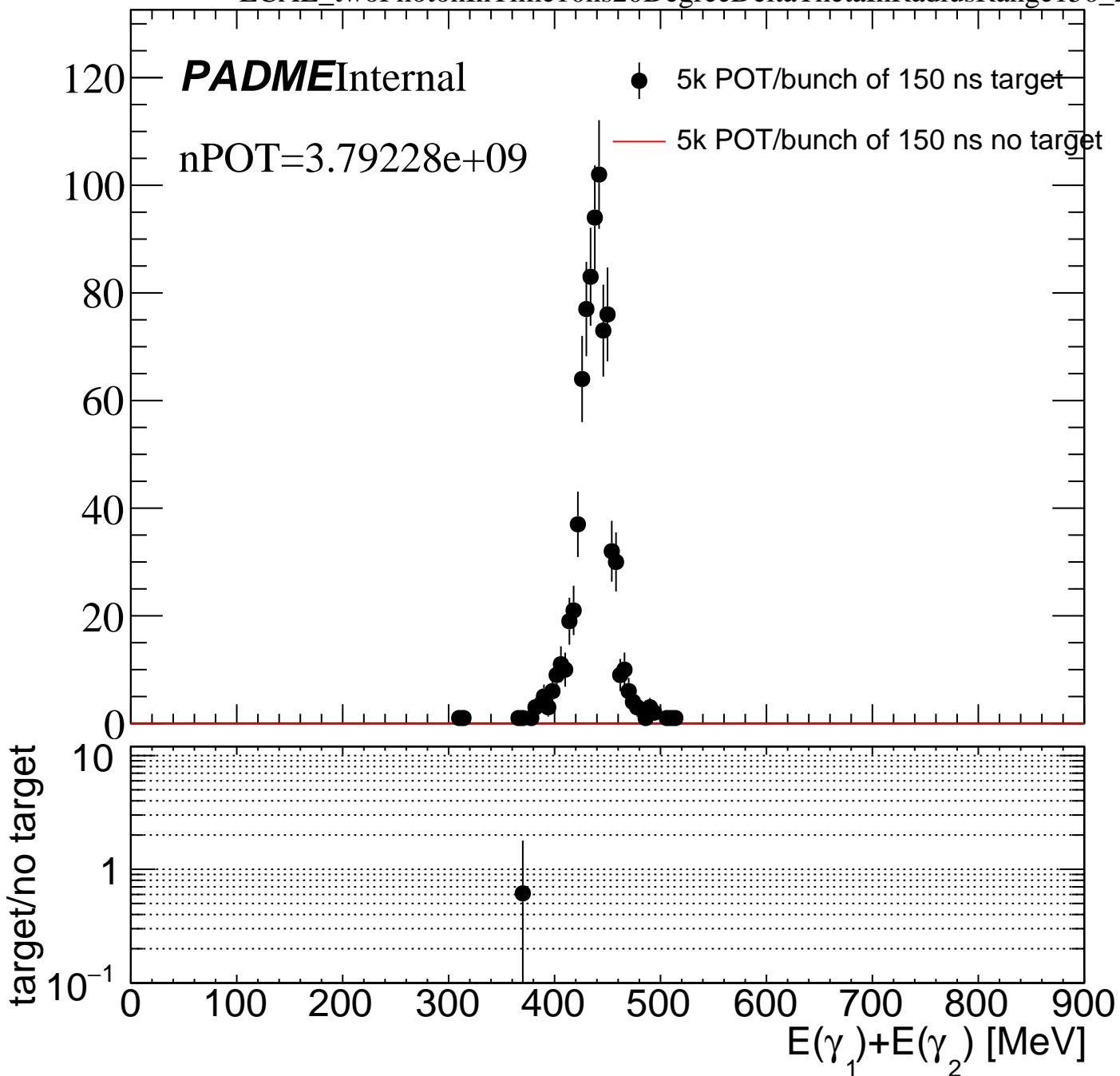
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90\_260



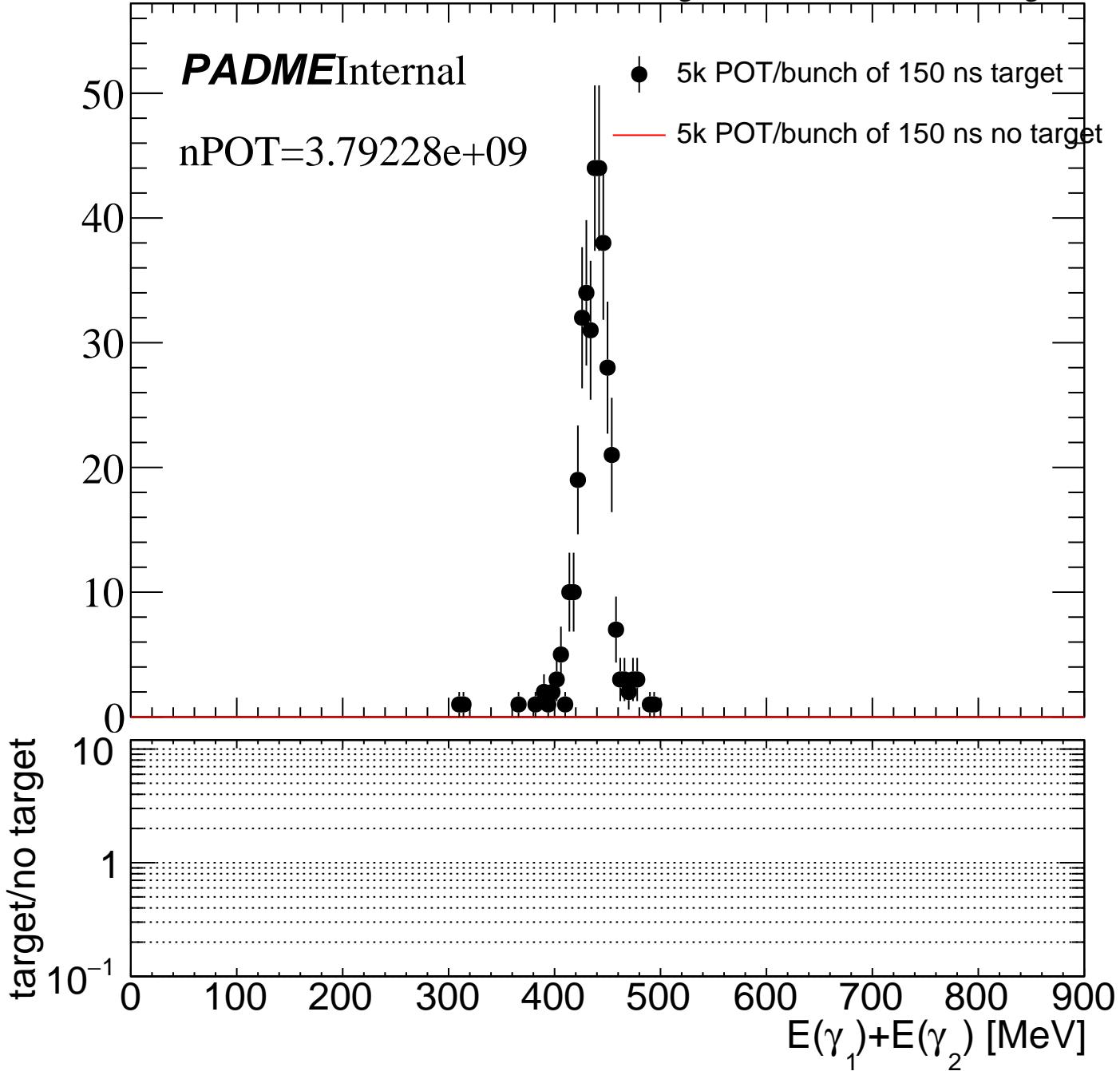


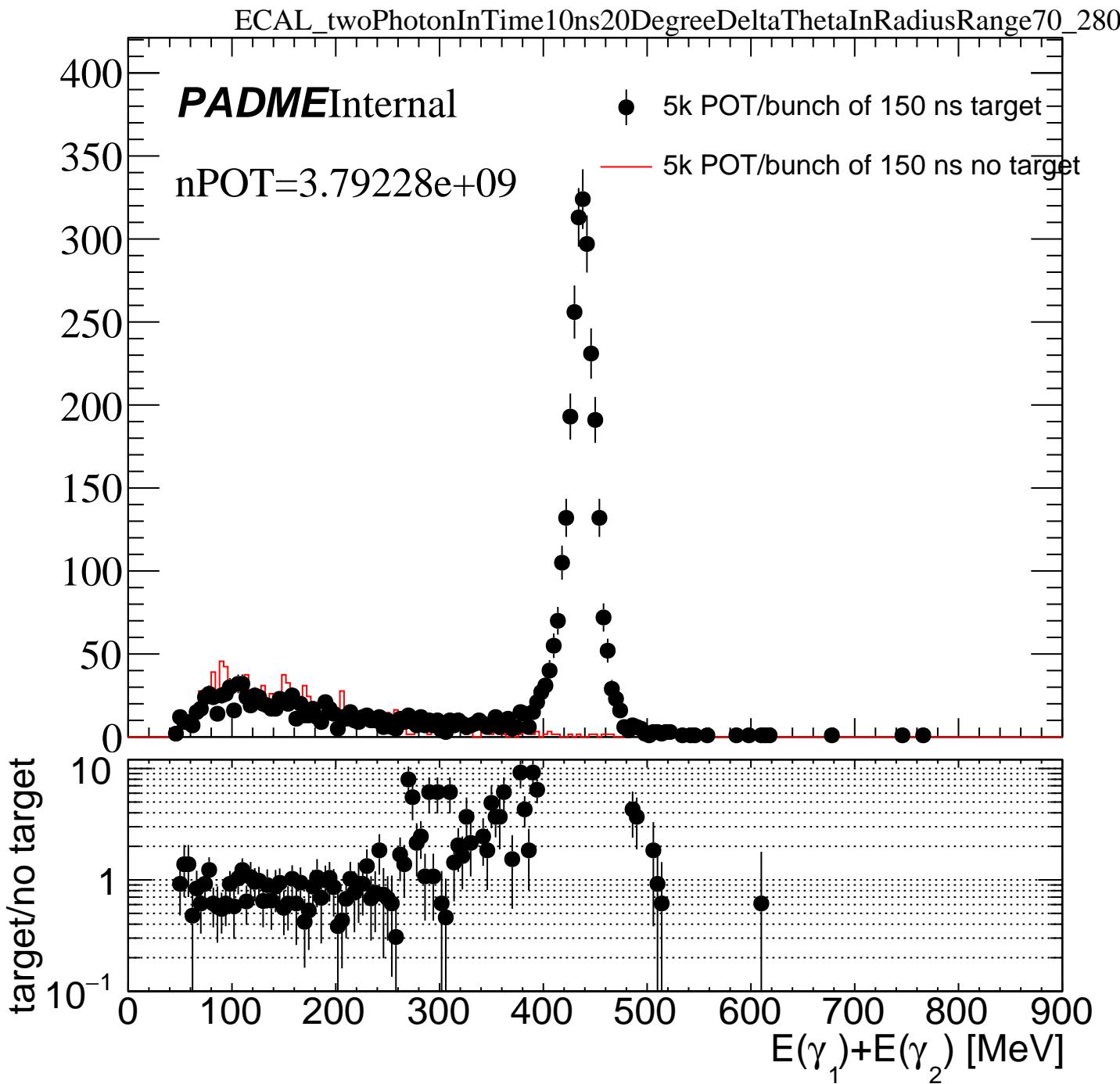


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150\_20

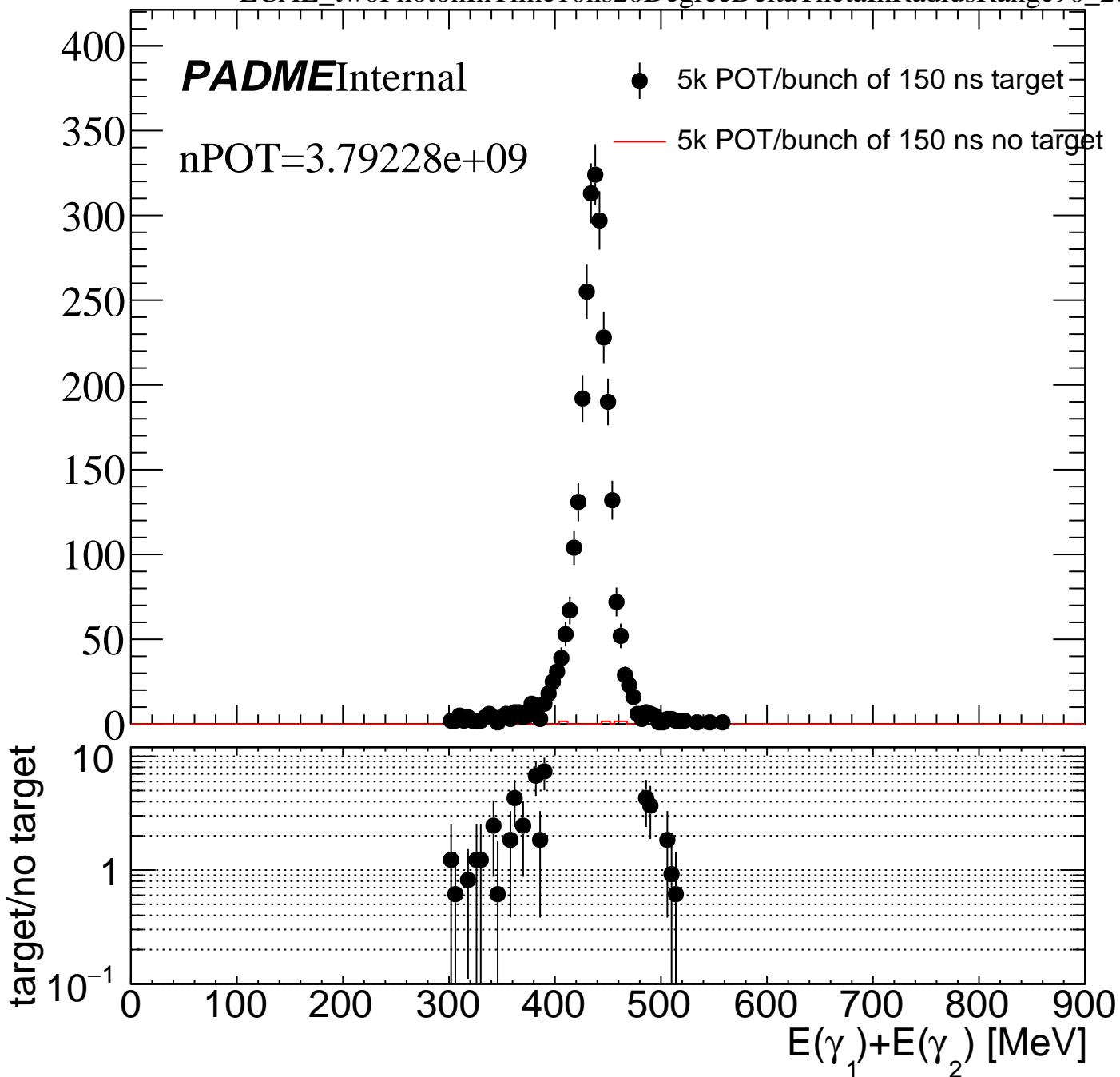


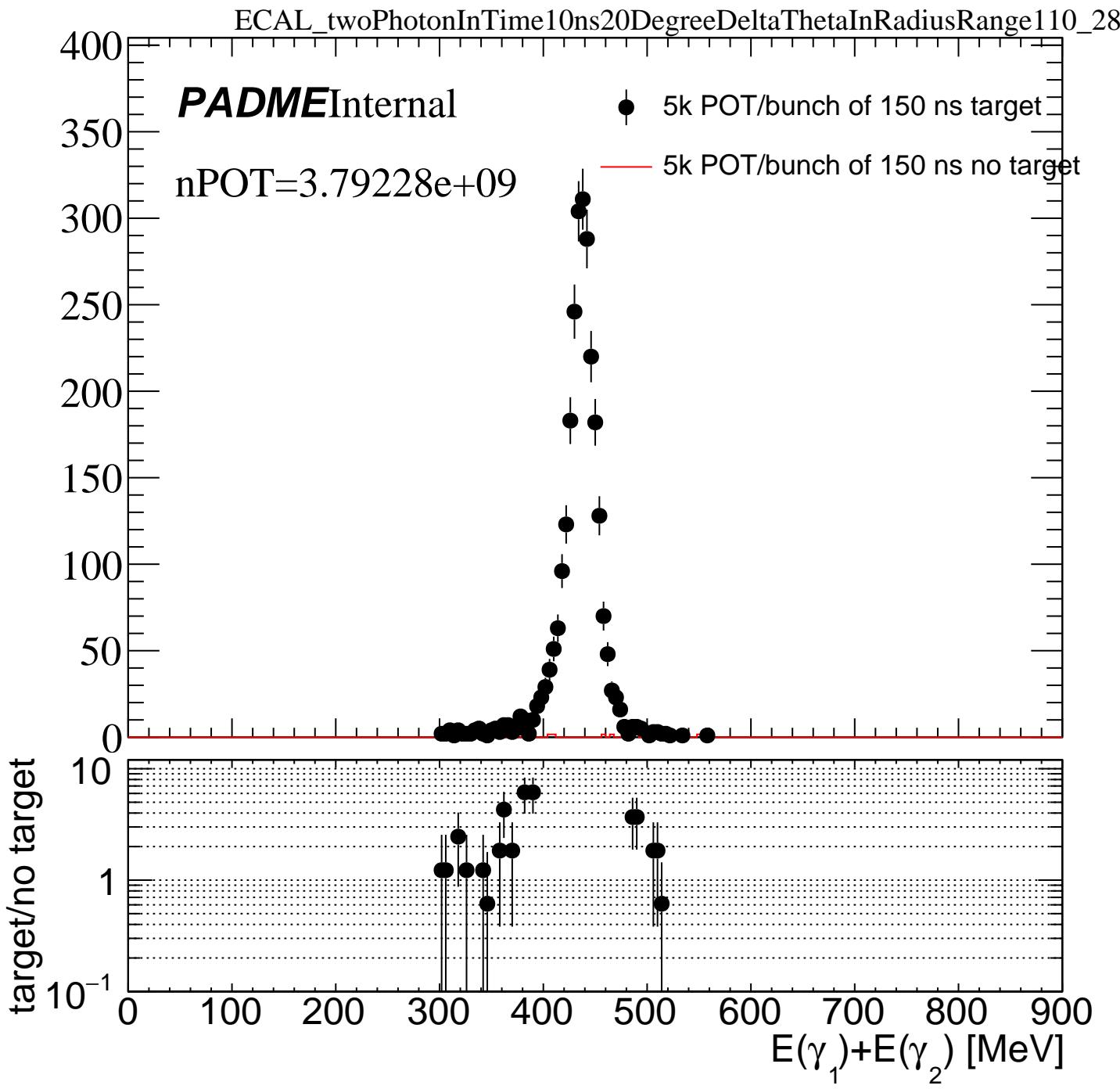
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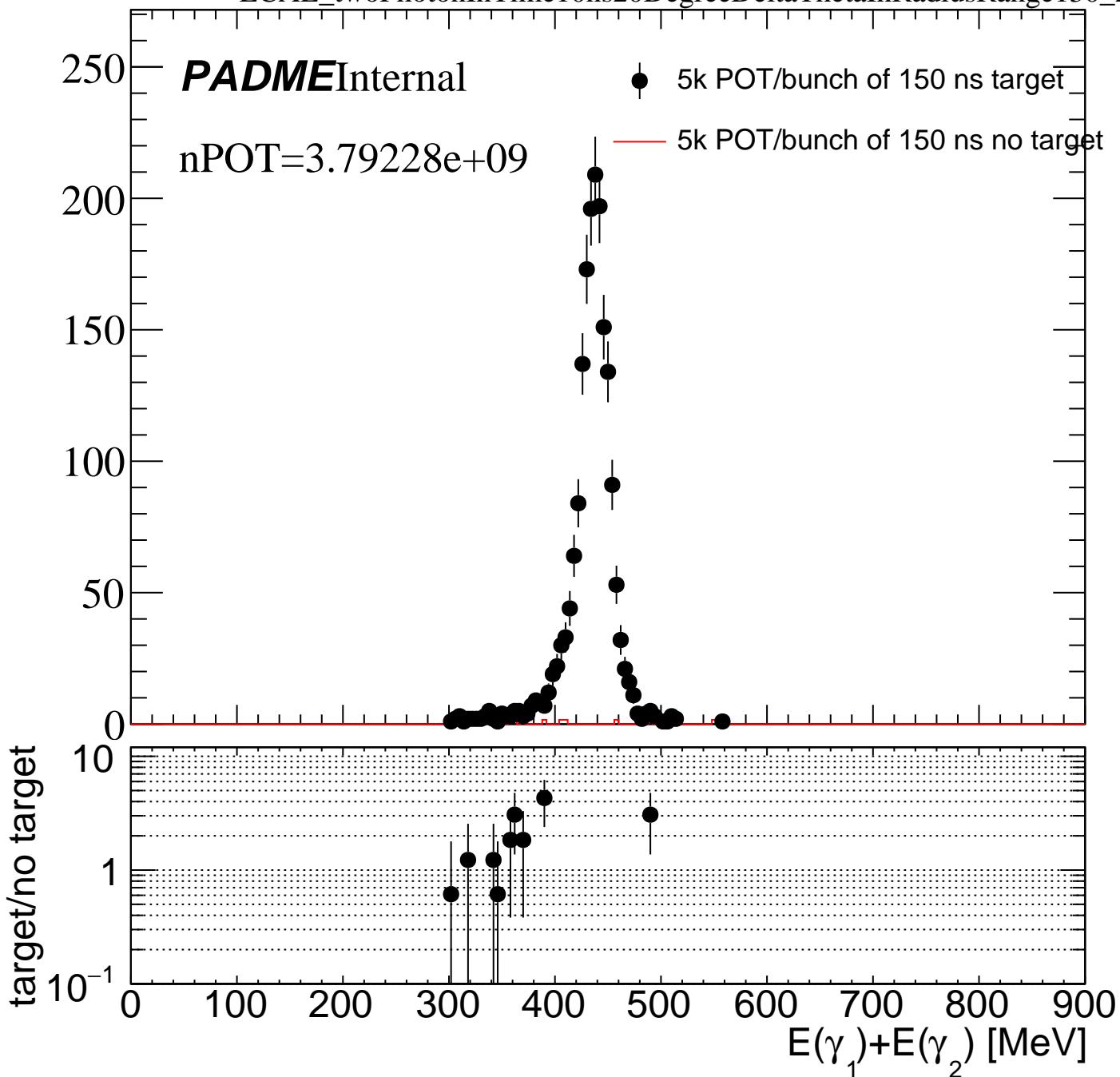


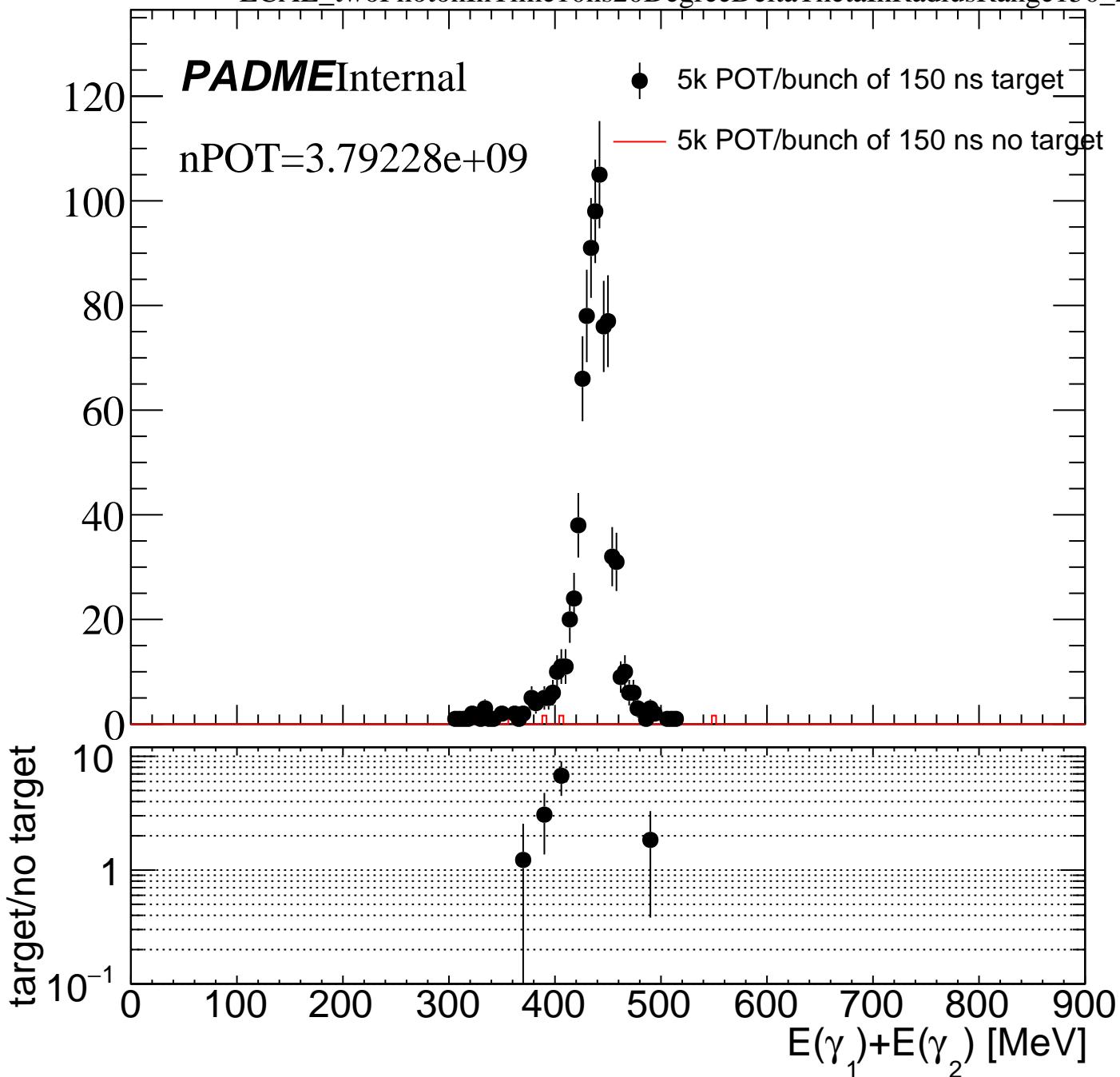


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90\_280

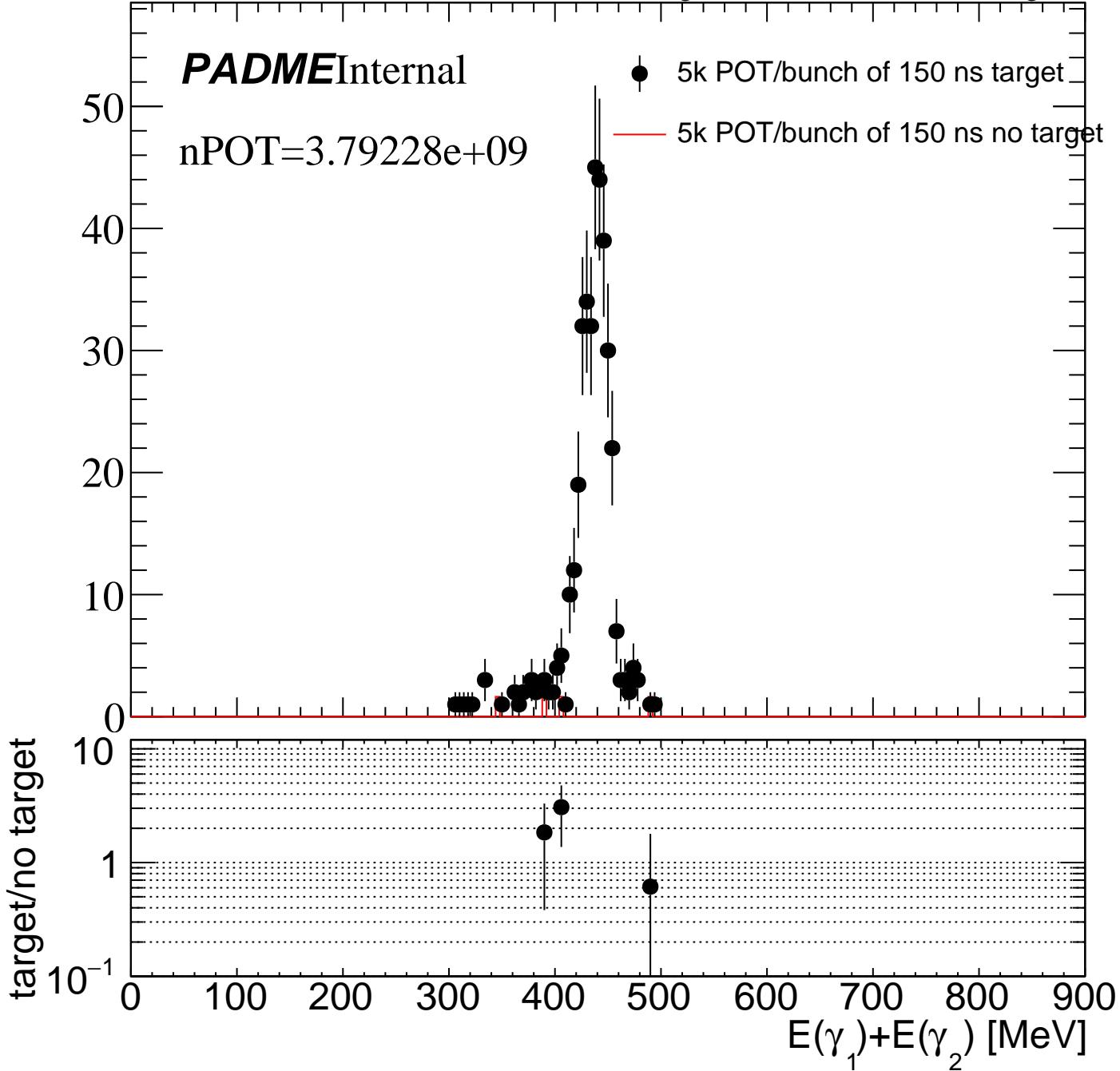




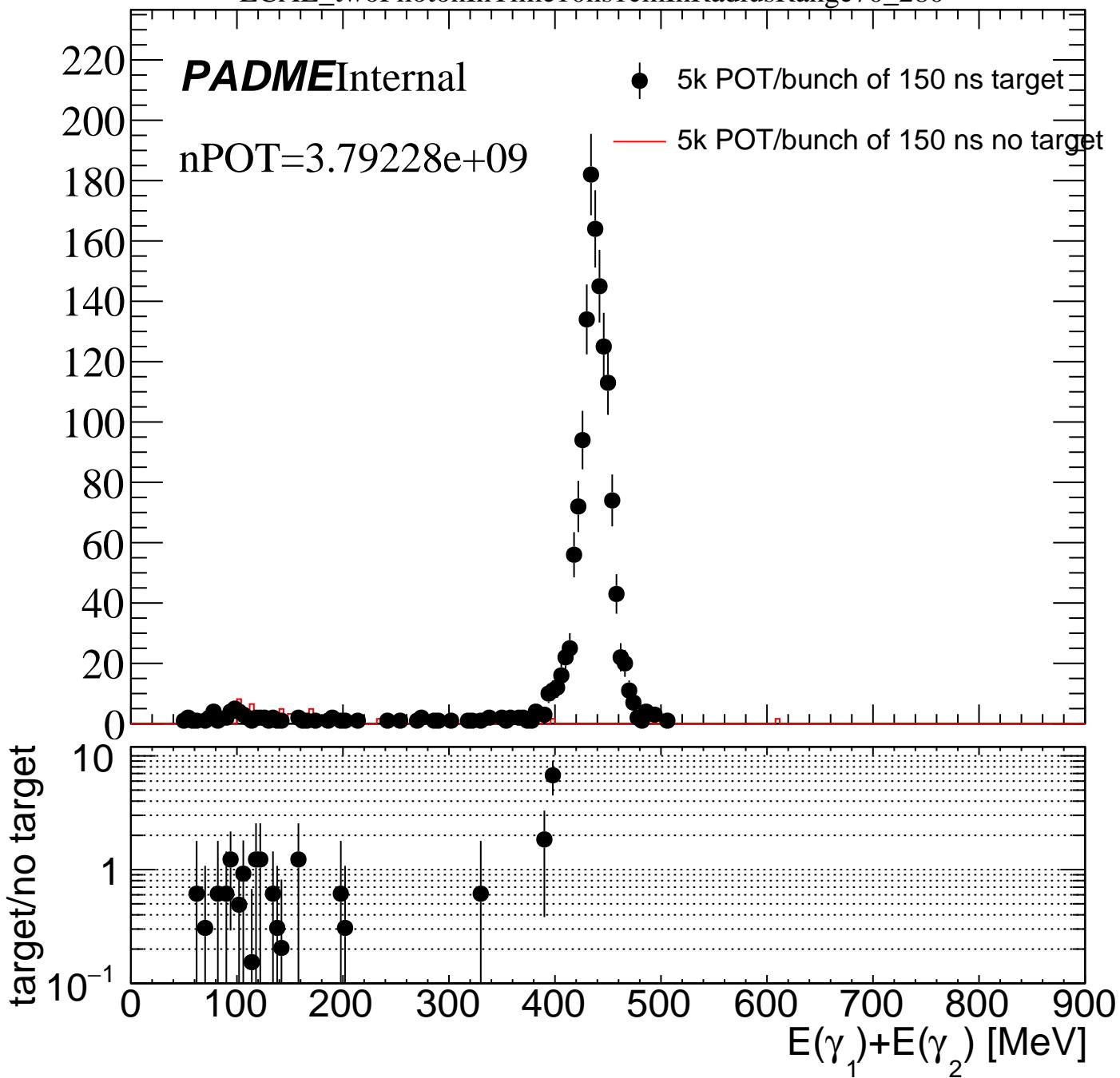




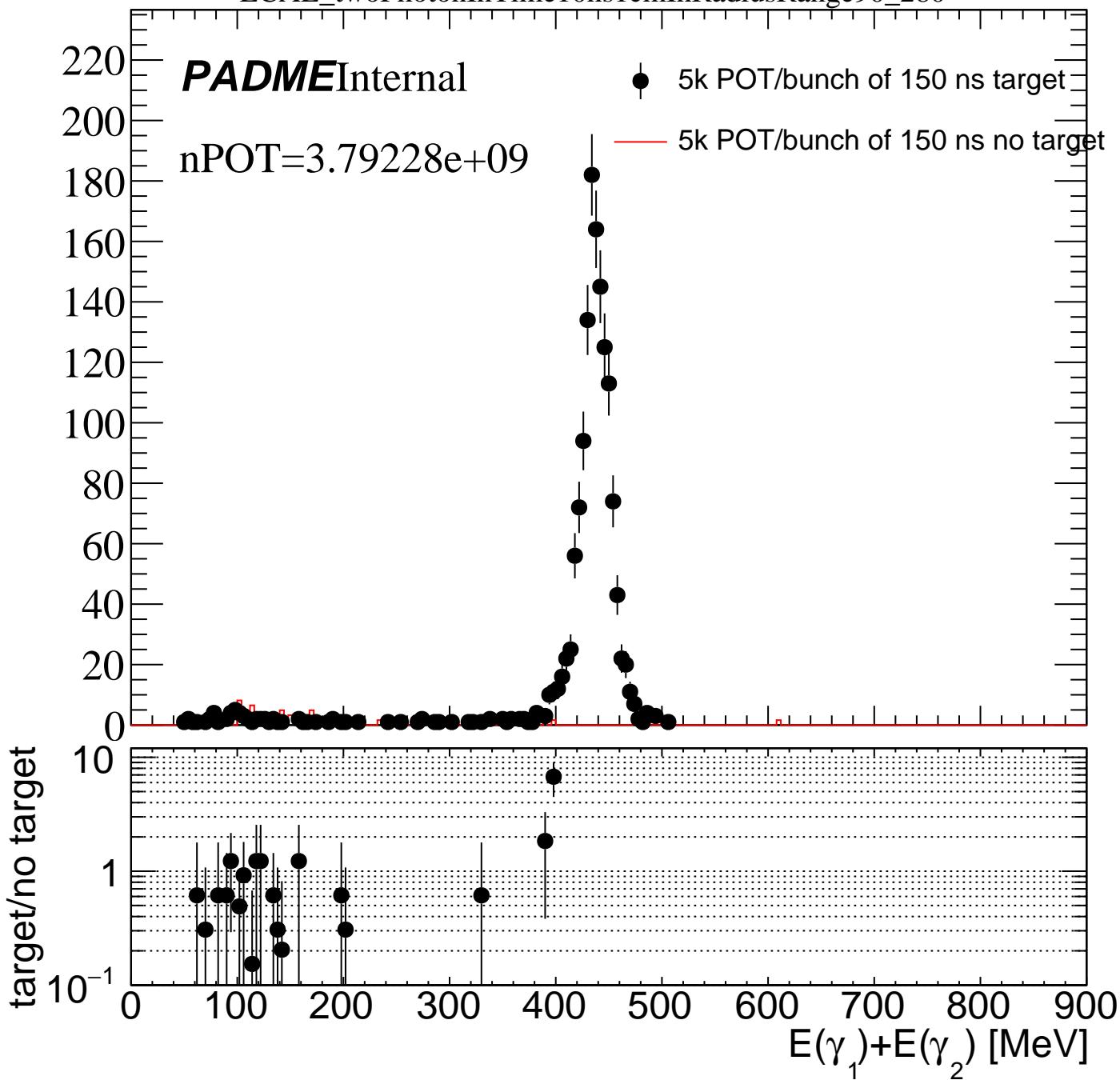
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160\_28

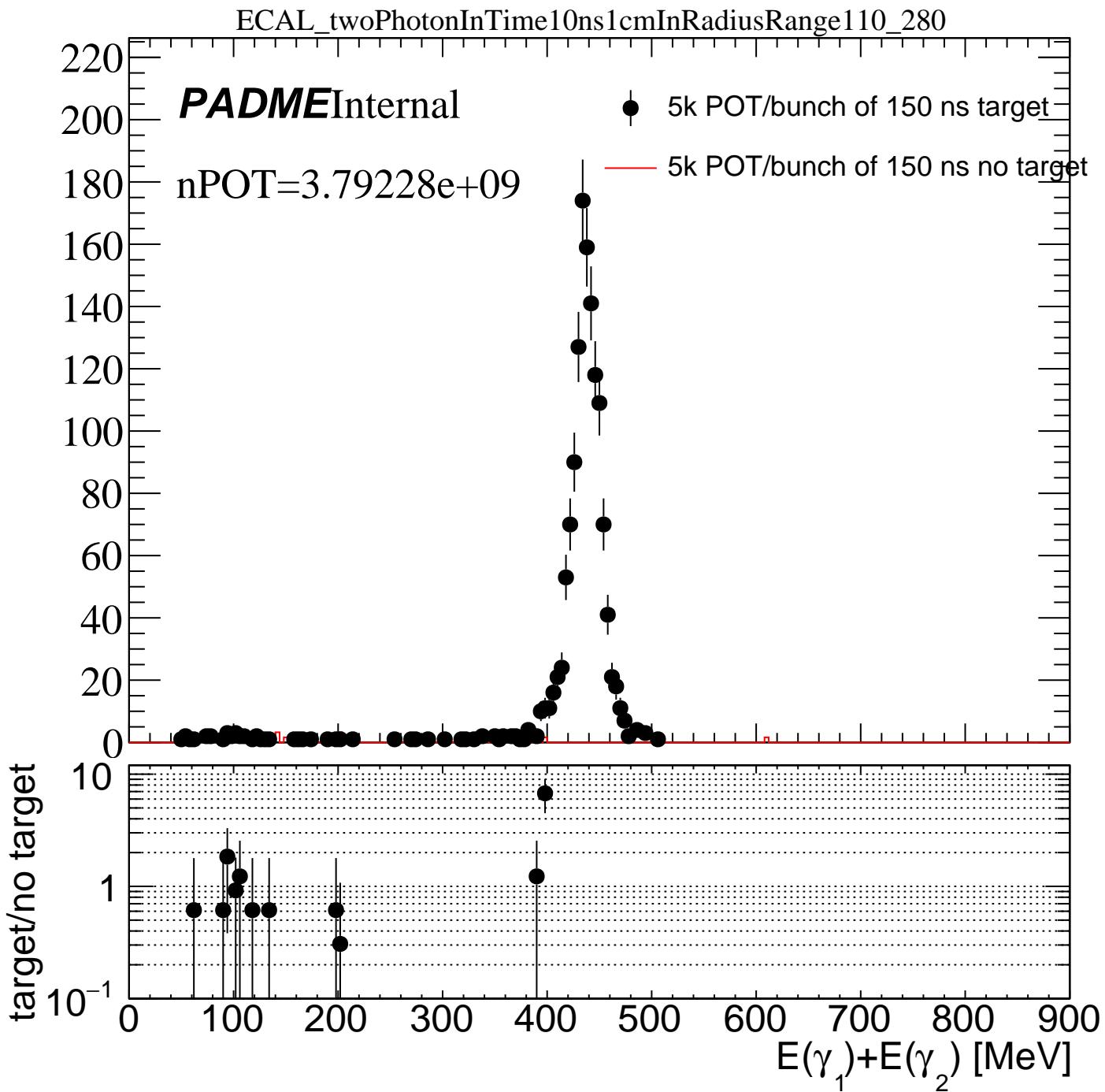


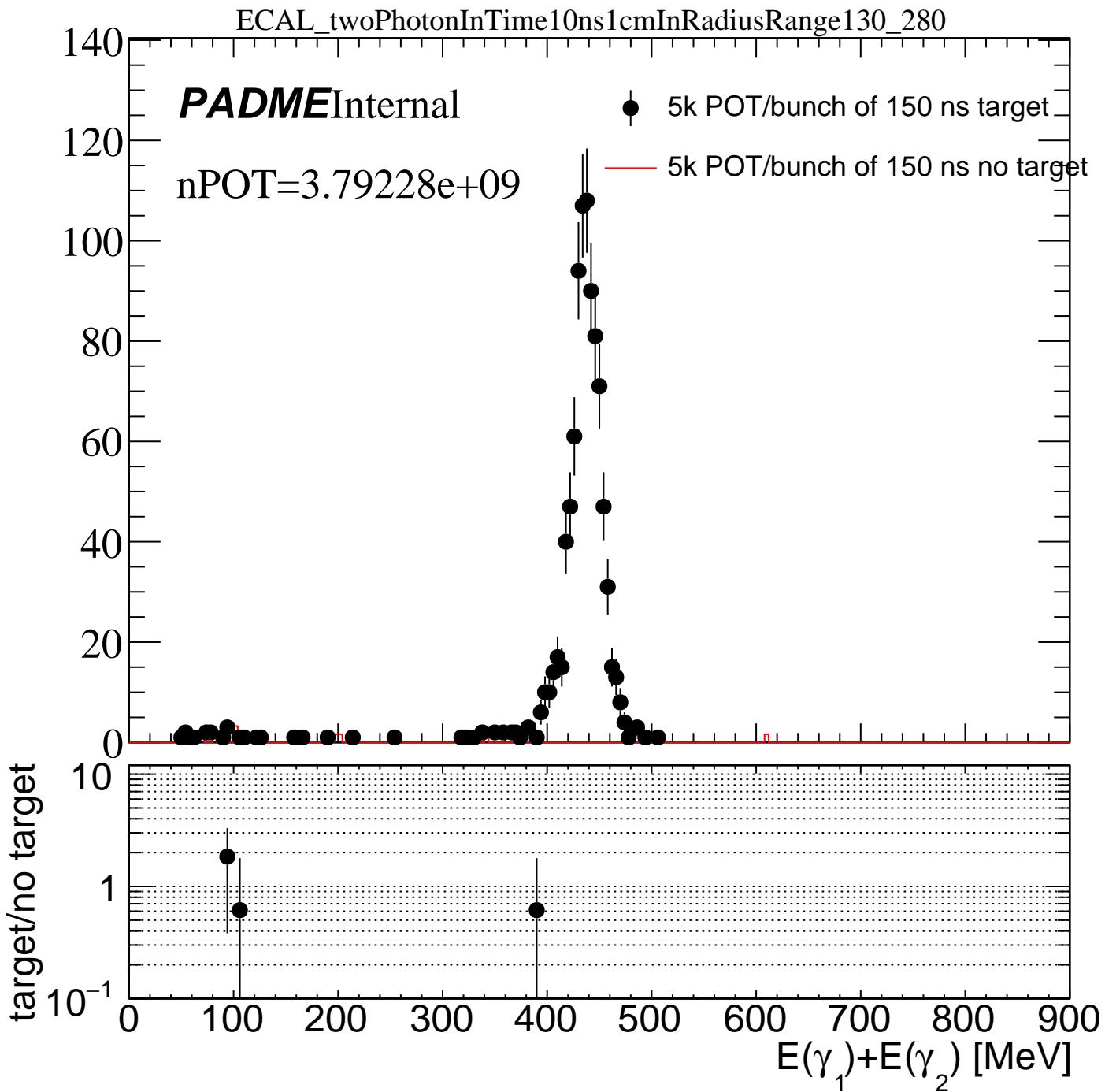
ECAL\_twoPhotonInTime10ns1cmInRadiusRange70\_280

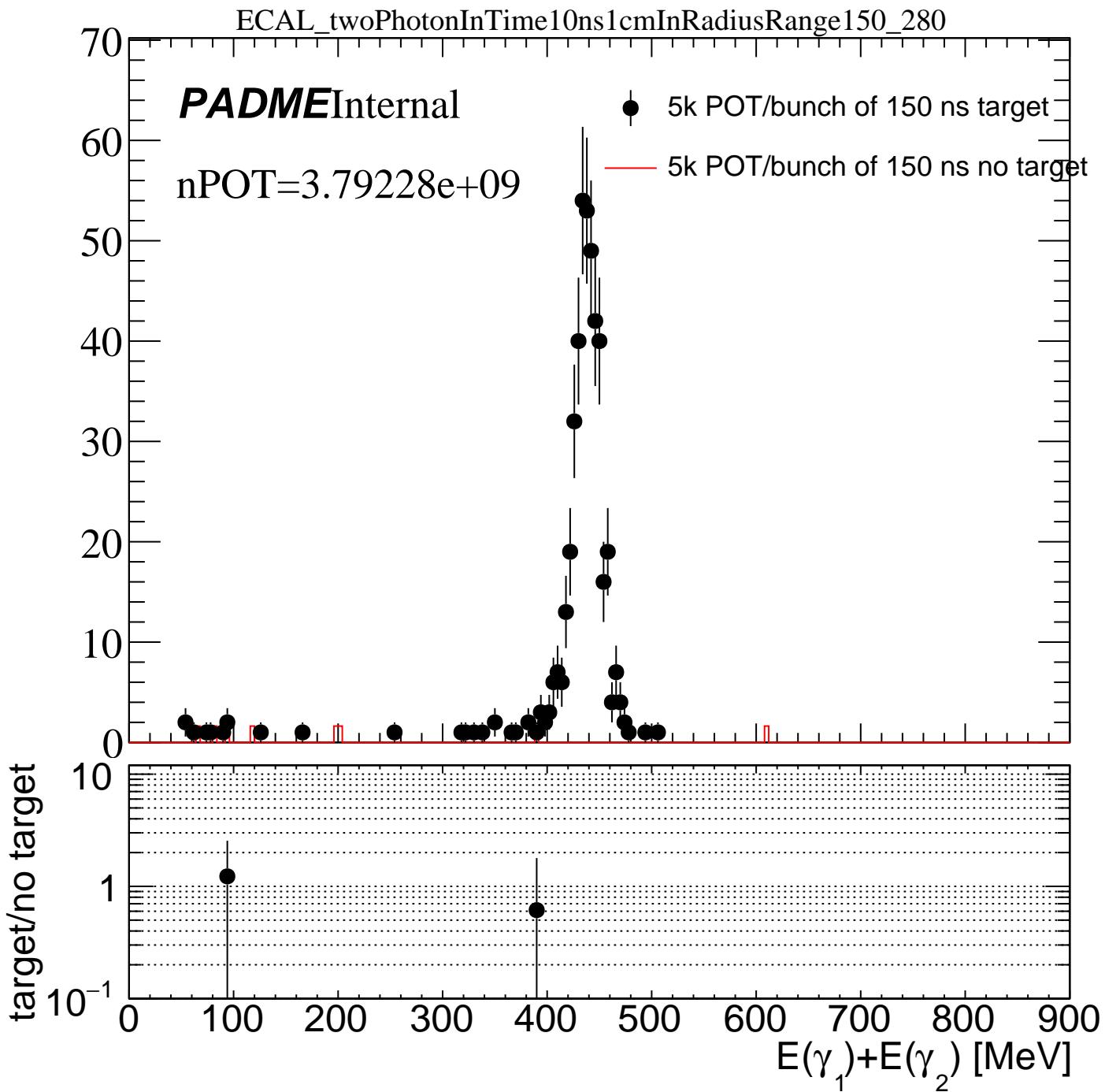


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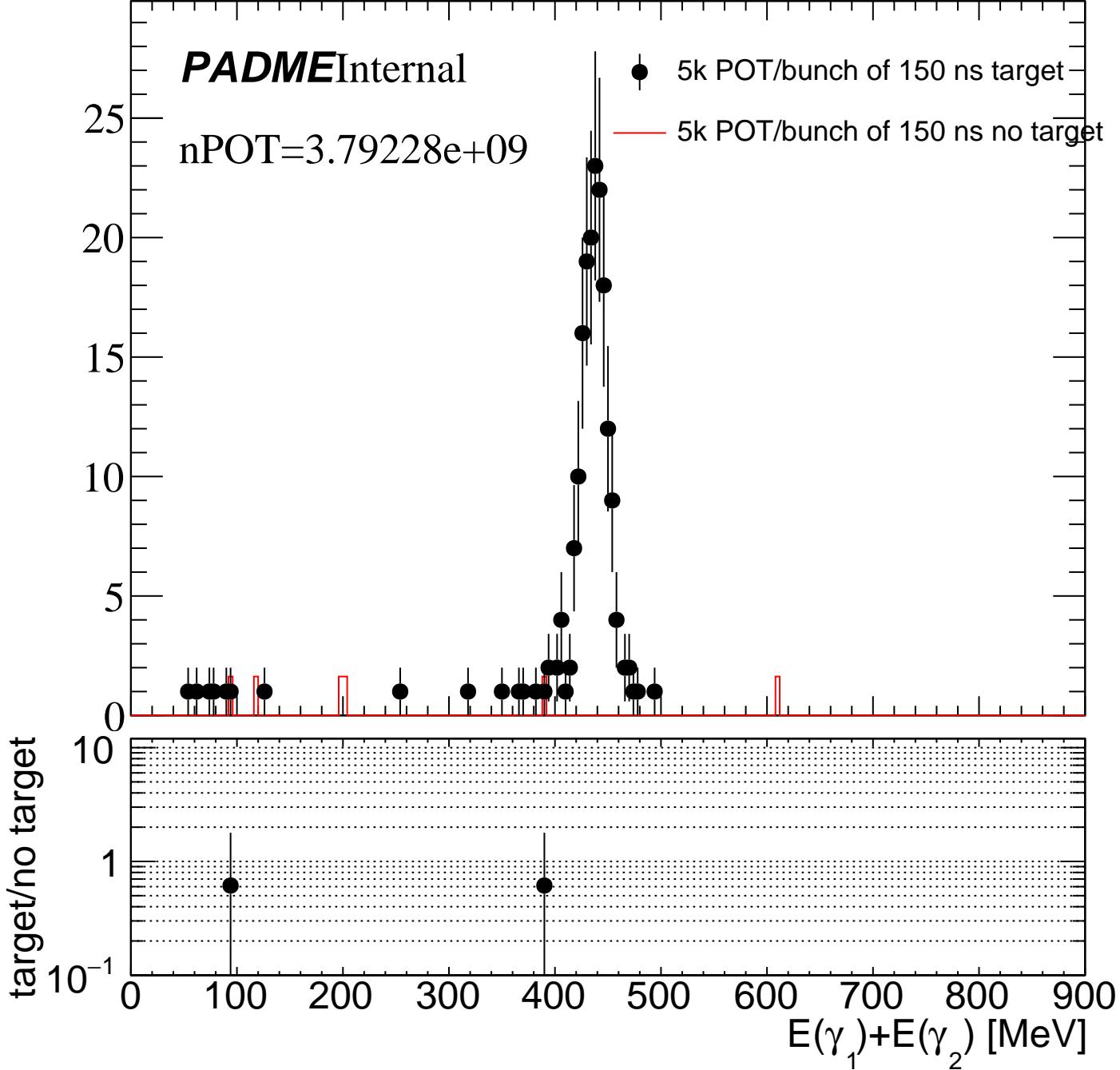




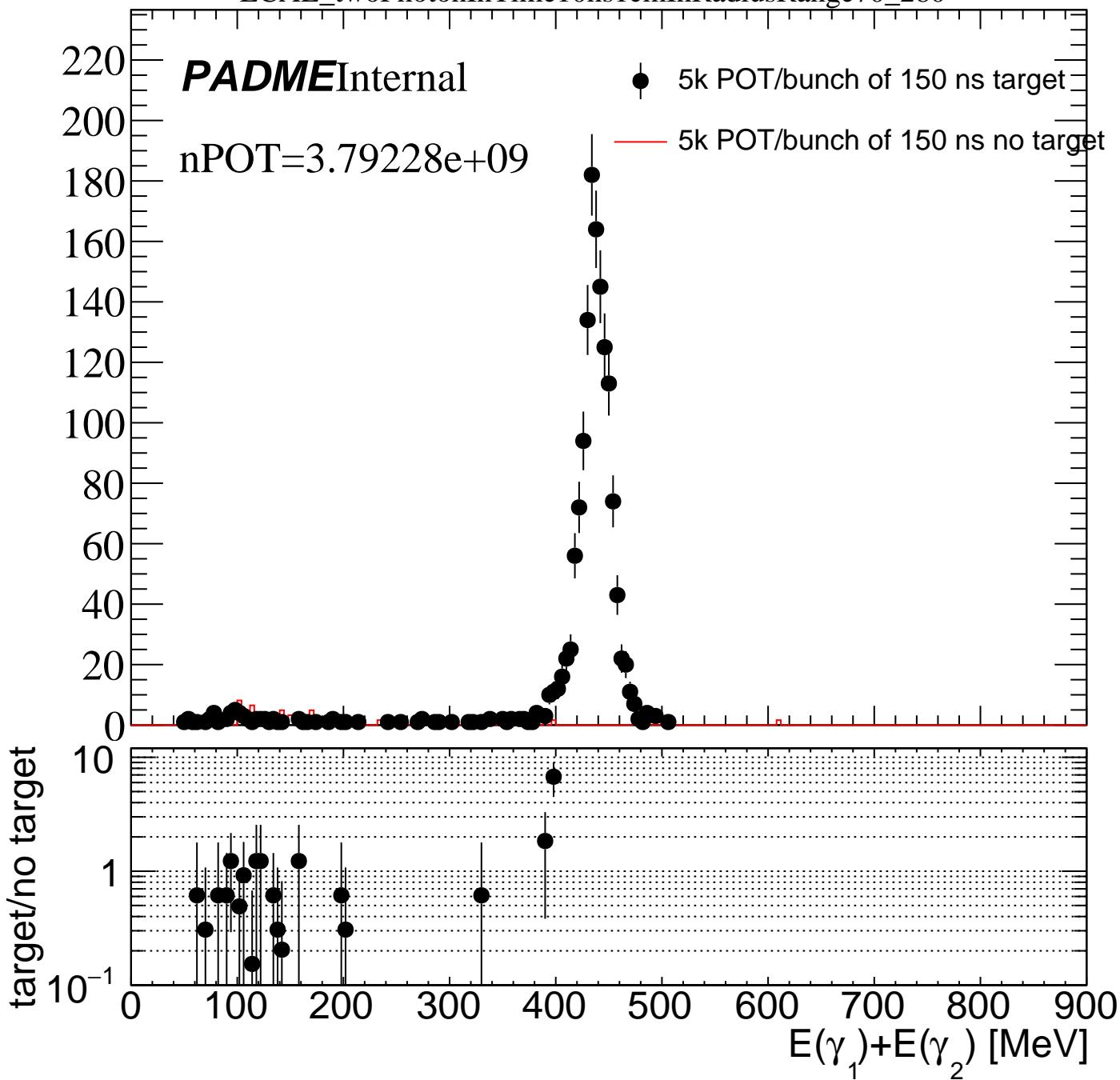




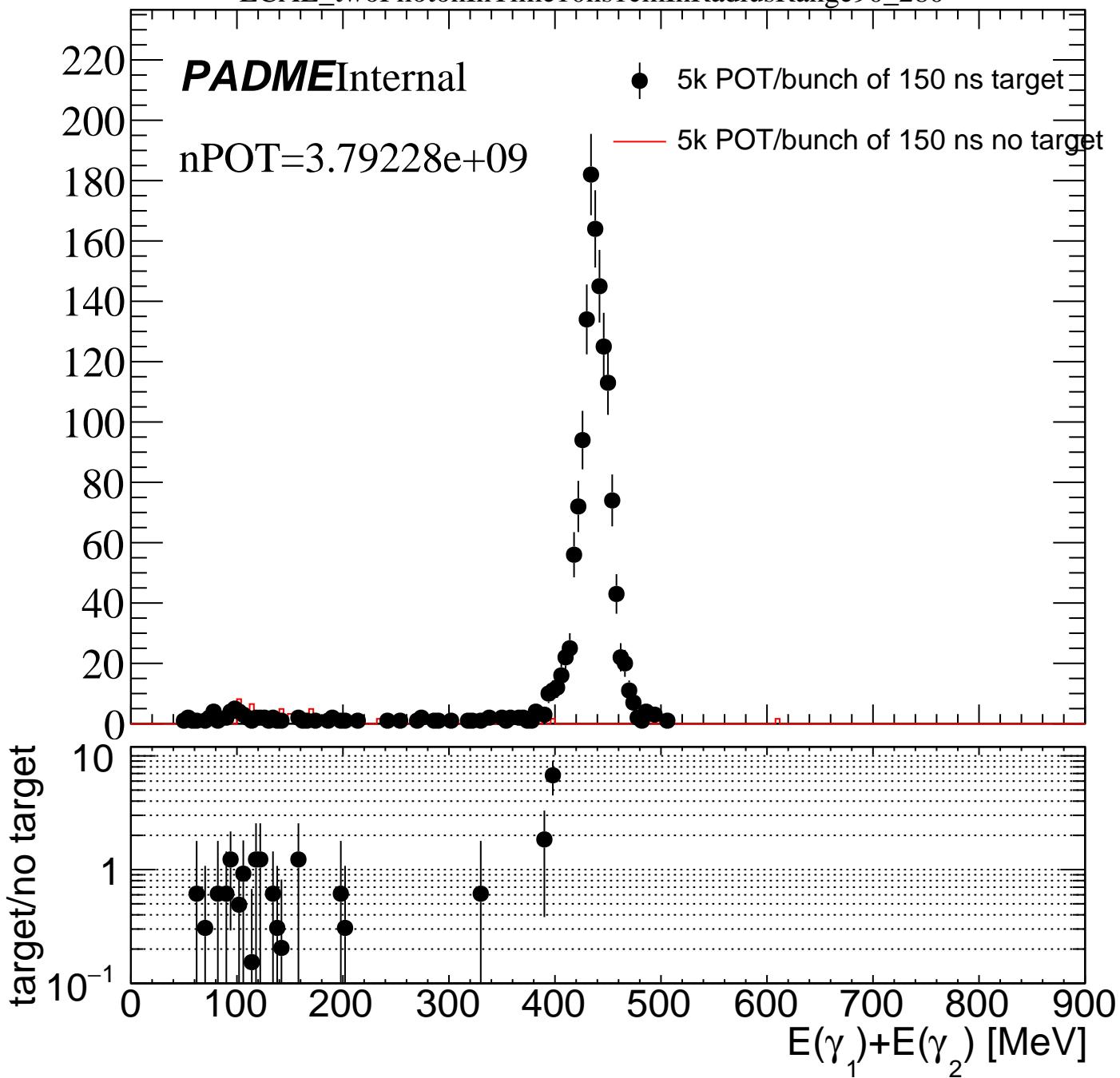
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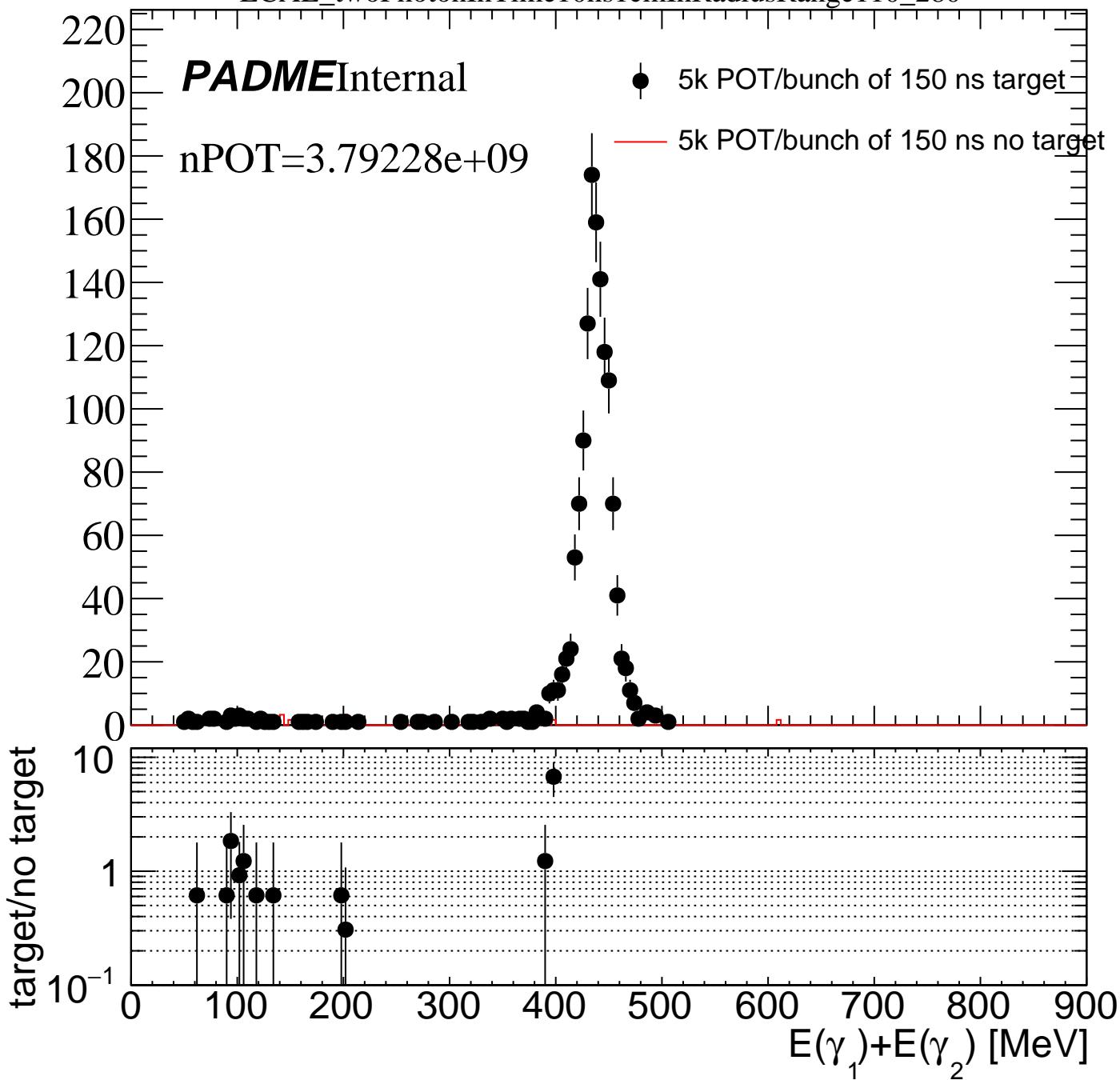
ECAL\_twoPhotonInTime10ns1cmInRadiusRange70\_280

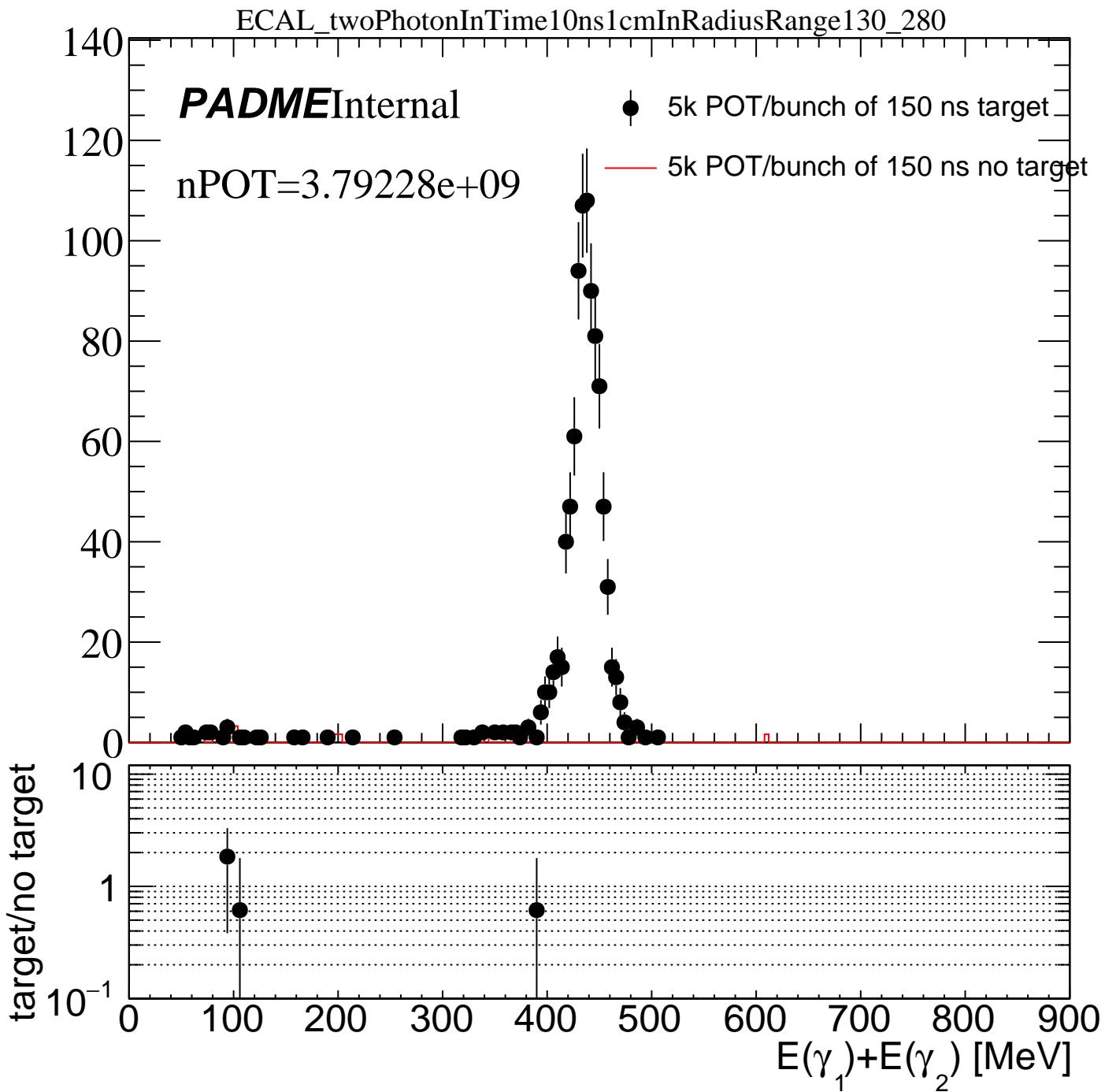


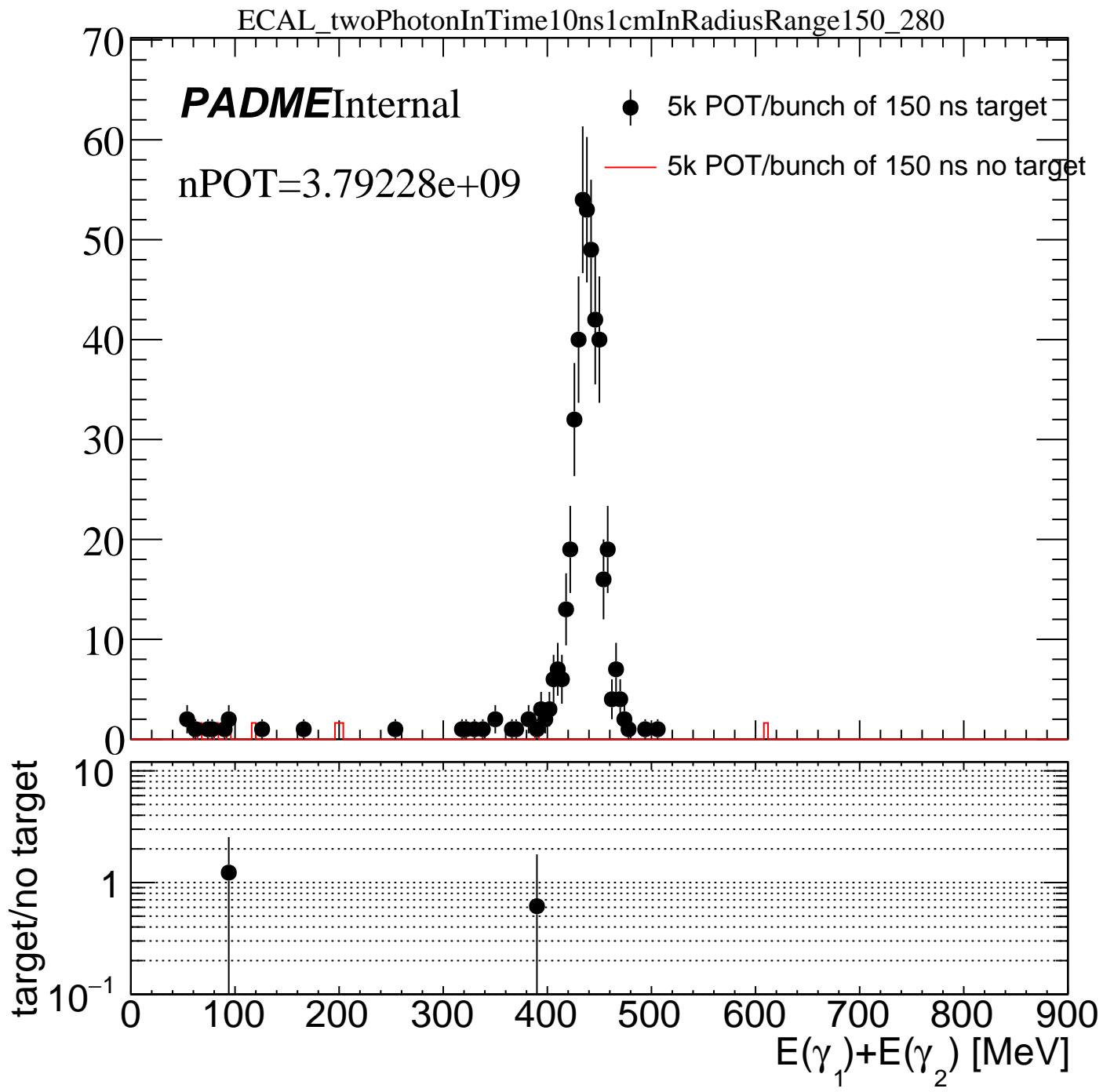
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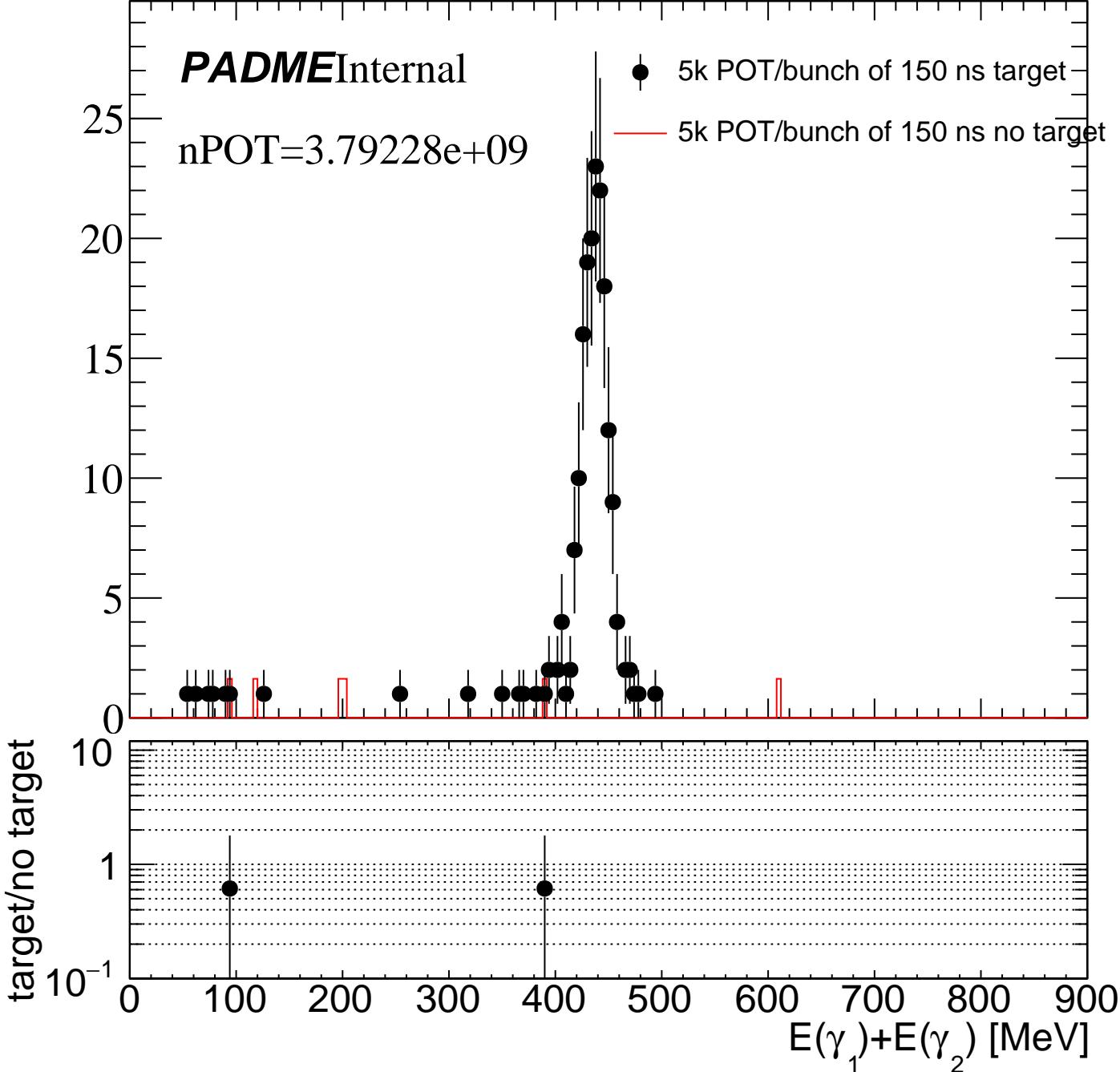
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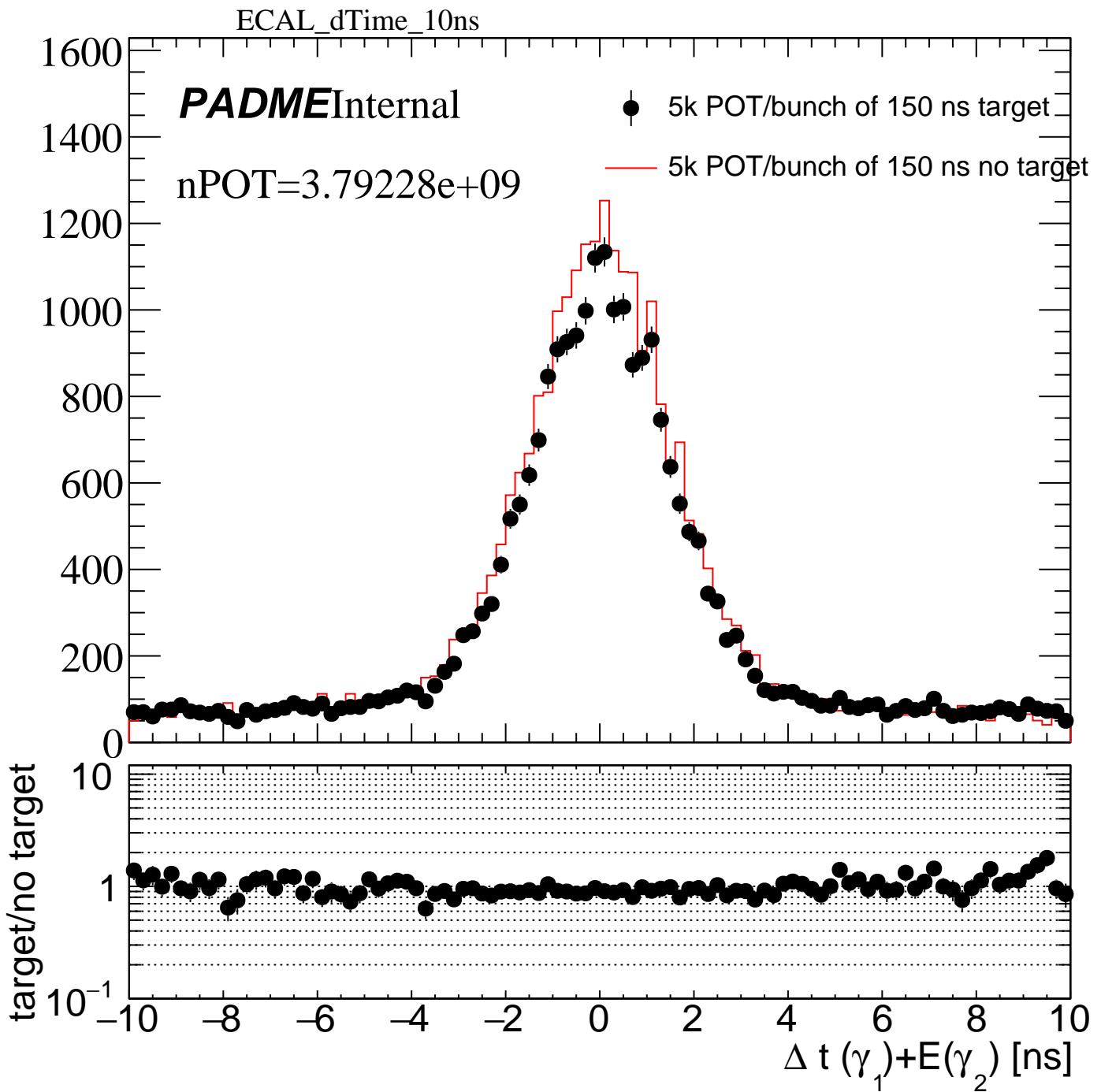


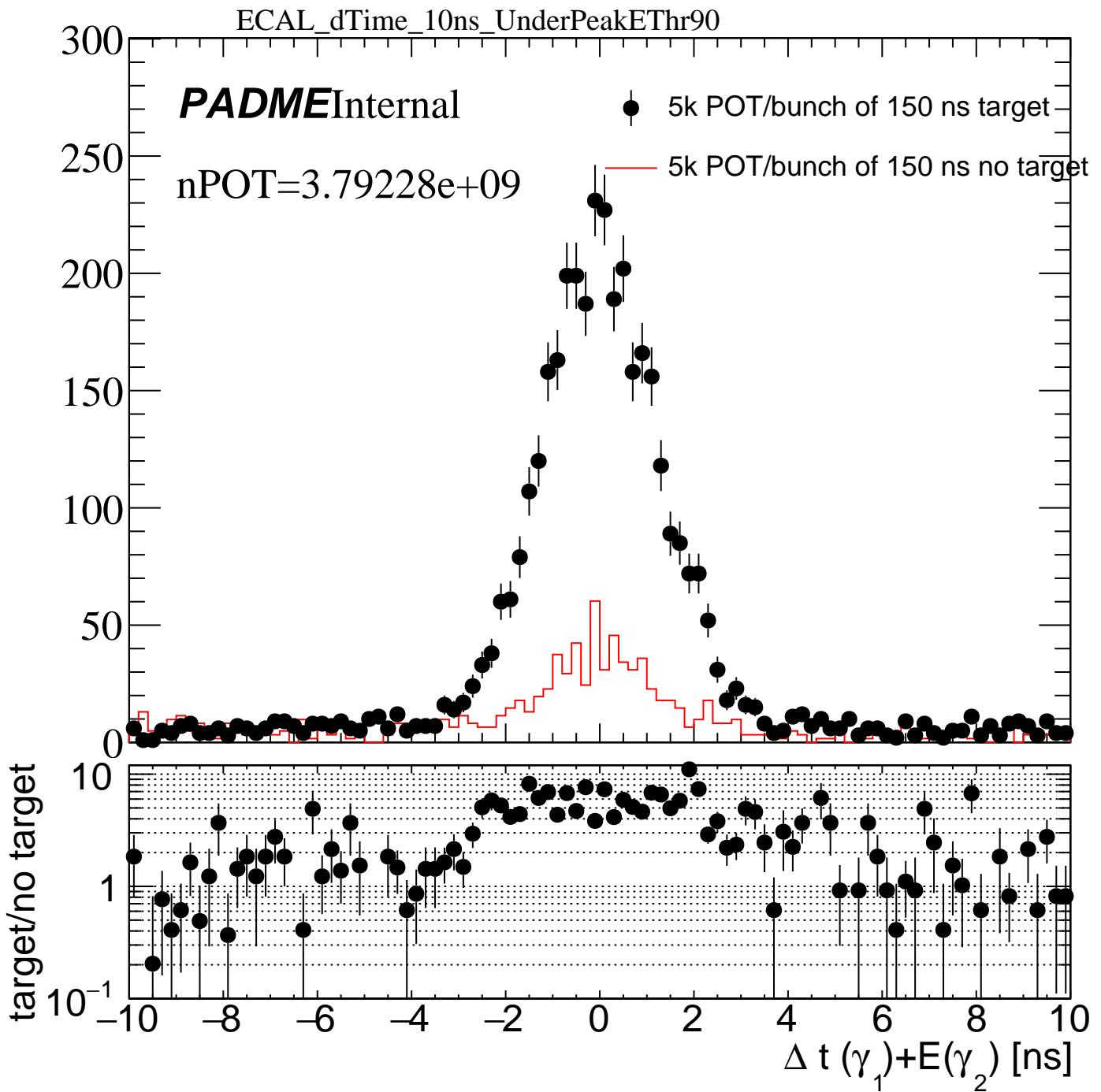




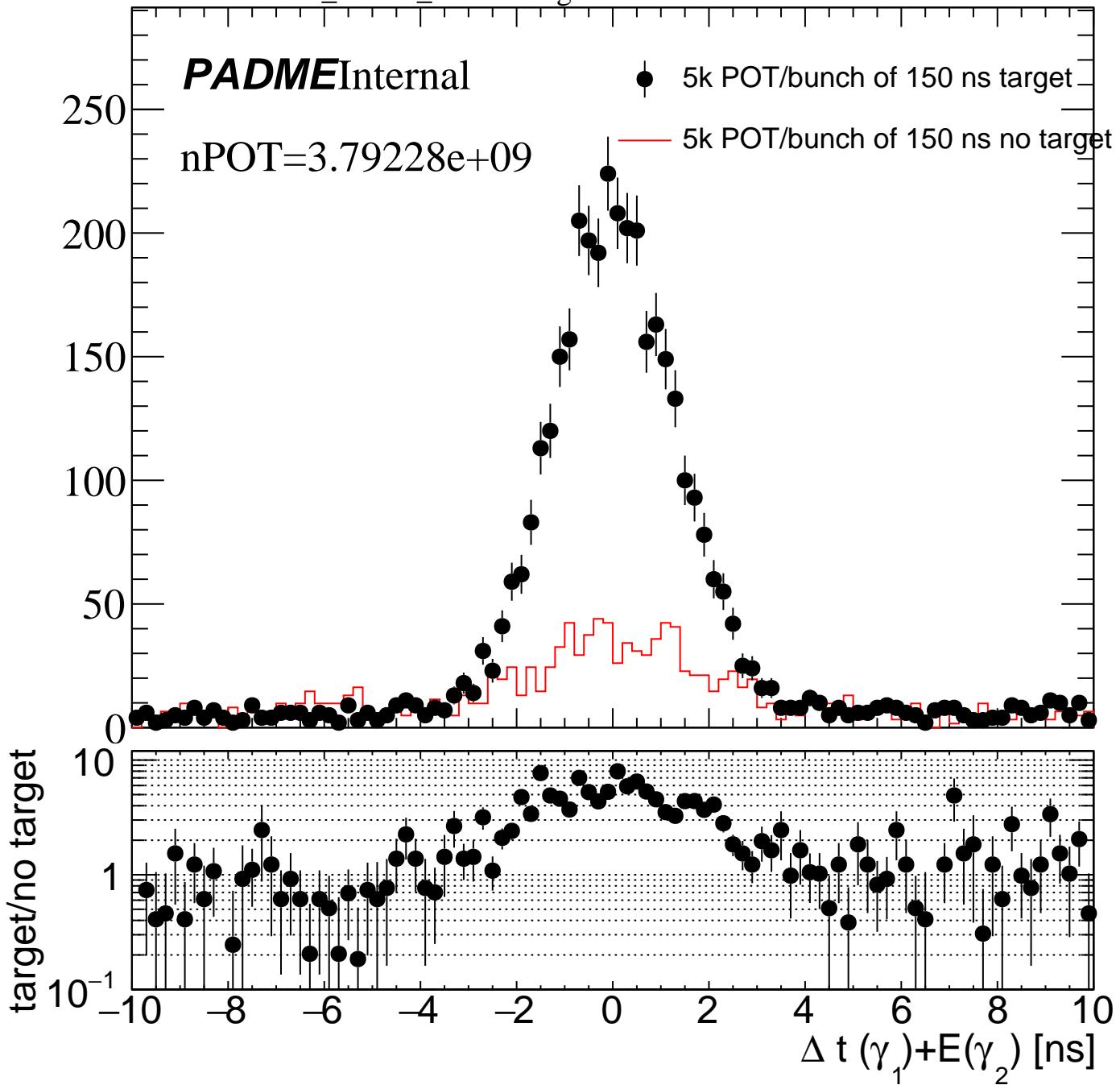
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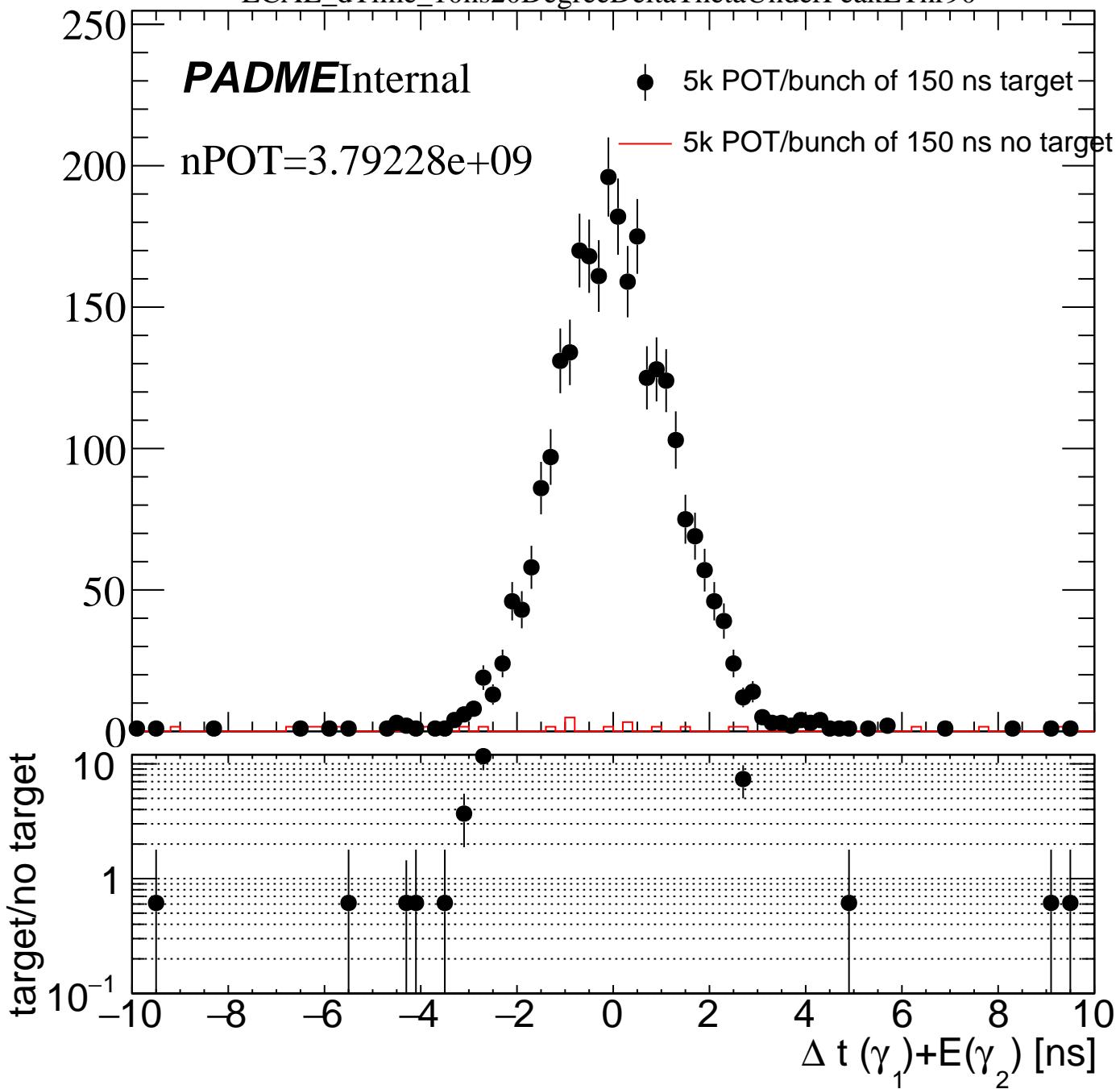




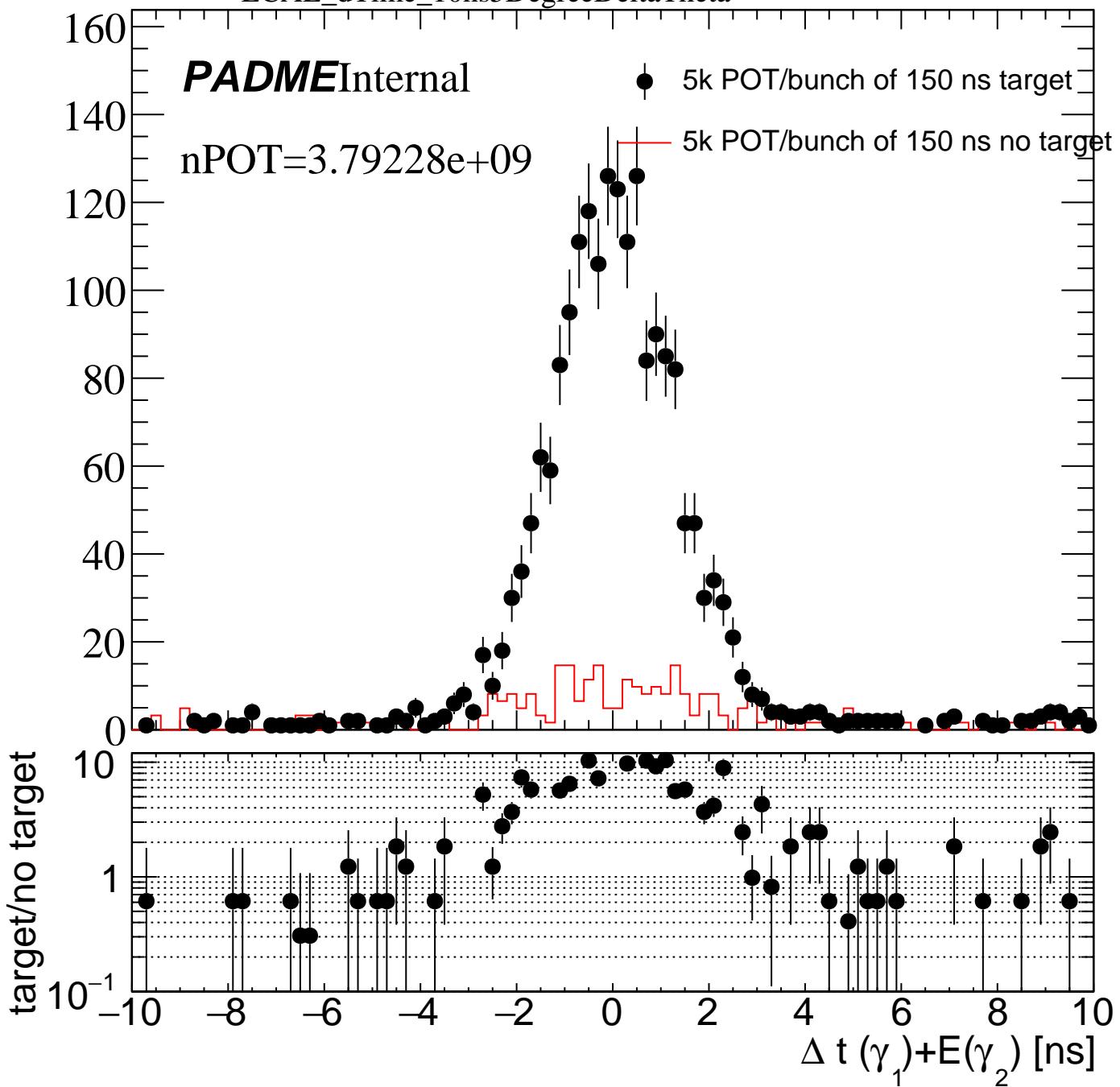
ECAL\_dTime\_10ns20DegreeDeltaTheta



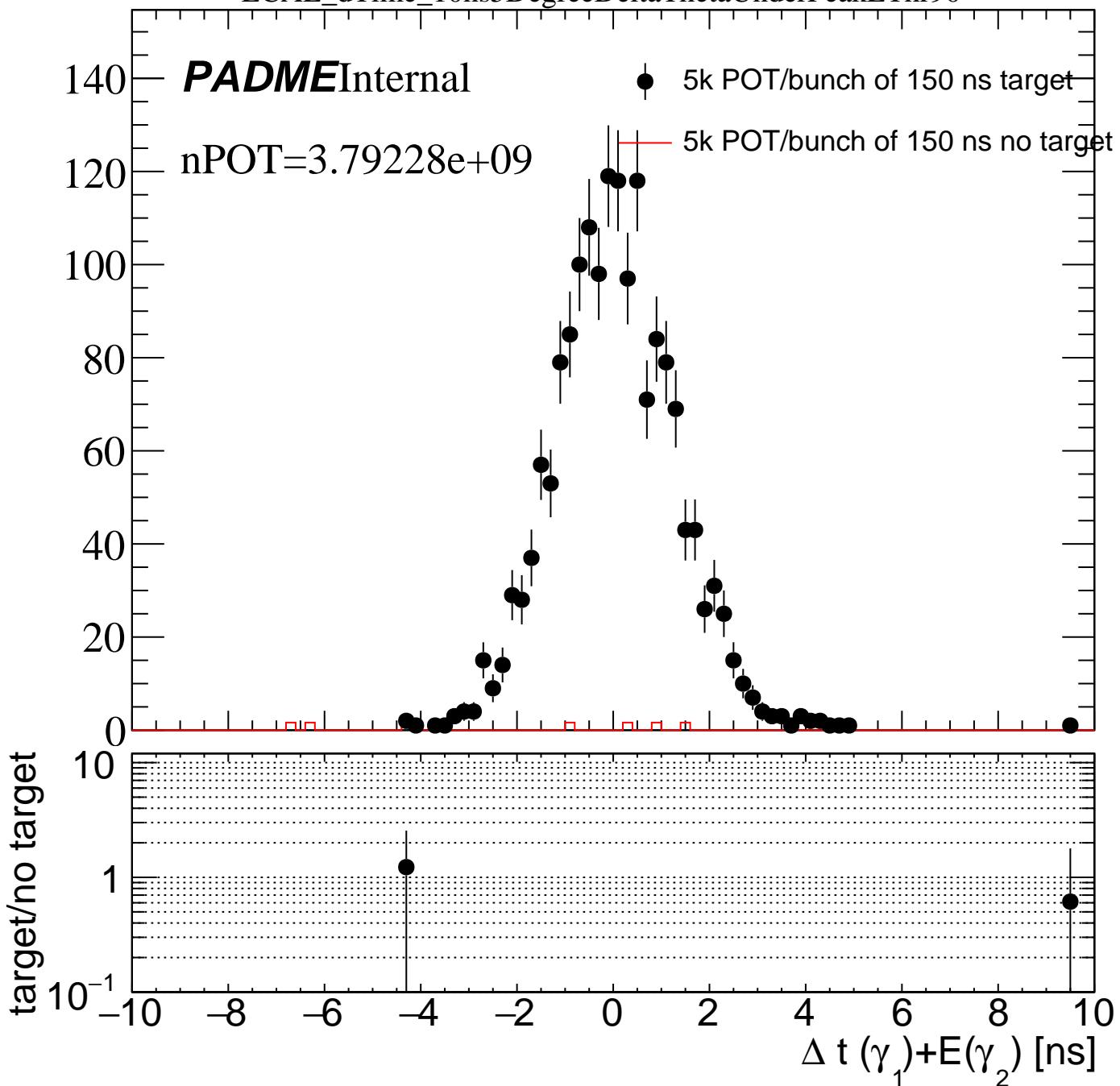
ECAL\_dTime\_10ns20DegreeDeltaThetaUnderPeakEThr90

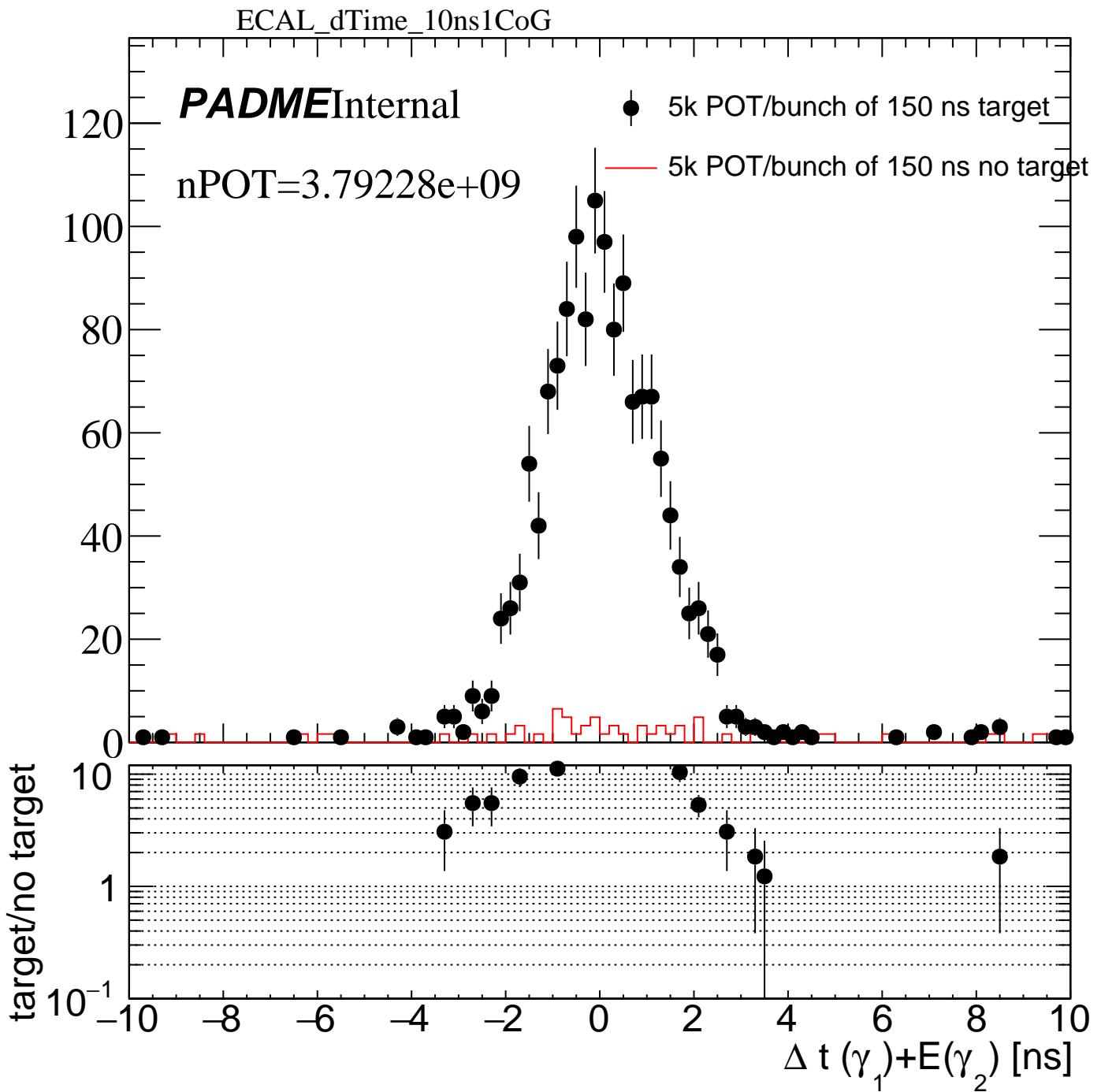


ECAL\_dTime\_10ns5DegreeDeltaTheta

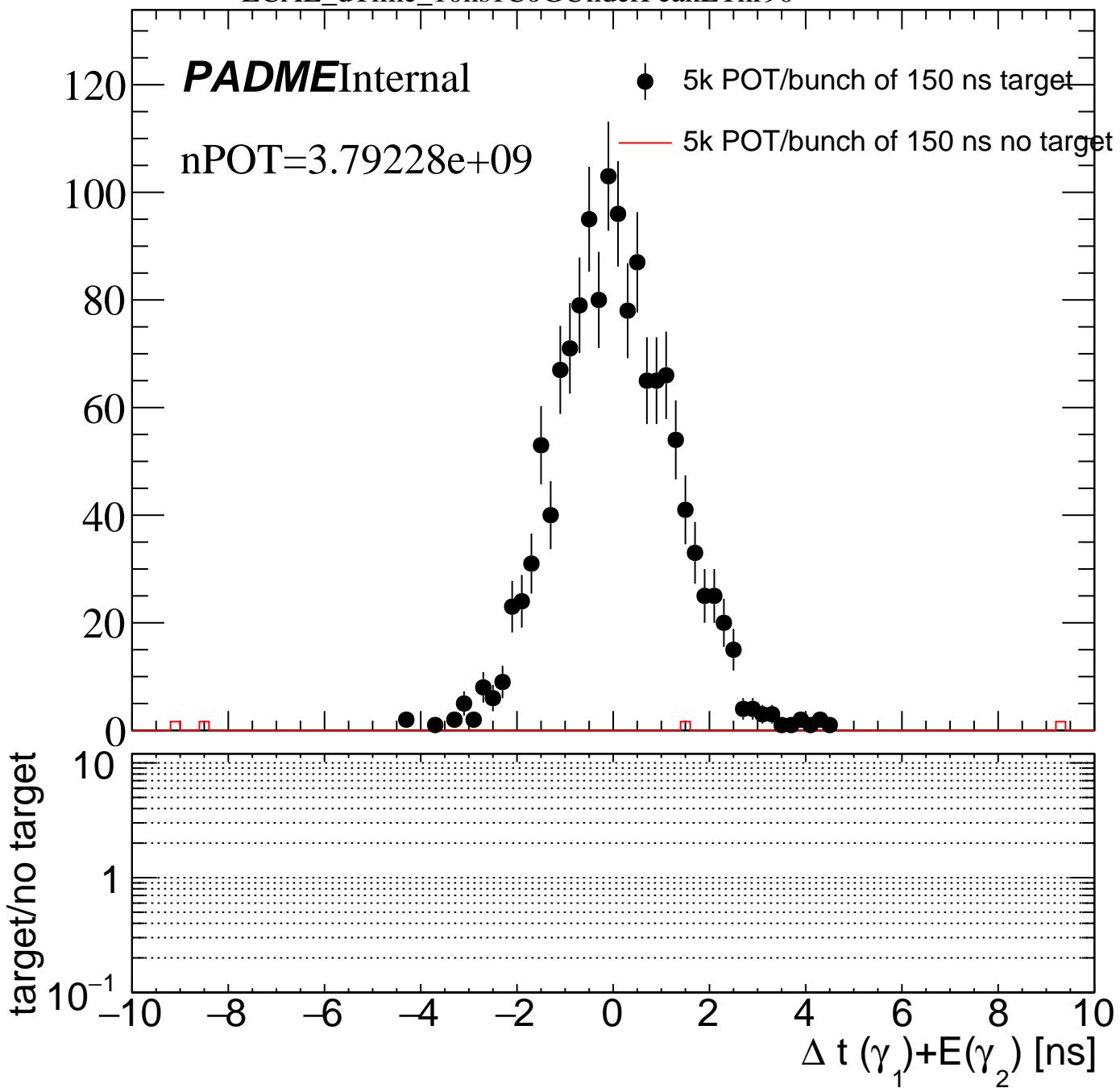


ECAL\_dTime\_10ns5DegreeDeltaThetaUnderPeakEThr90

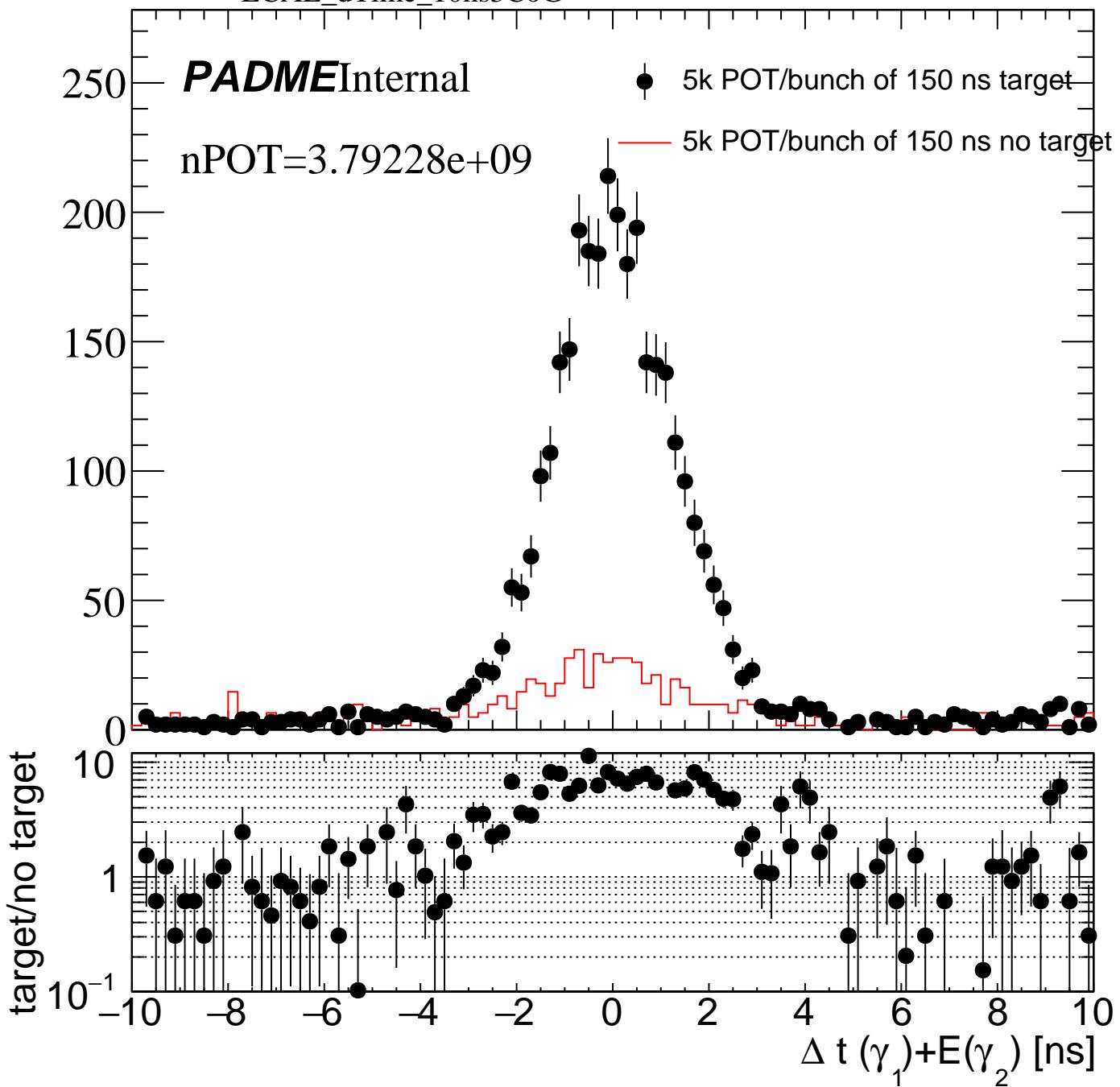


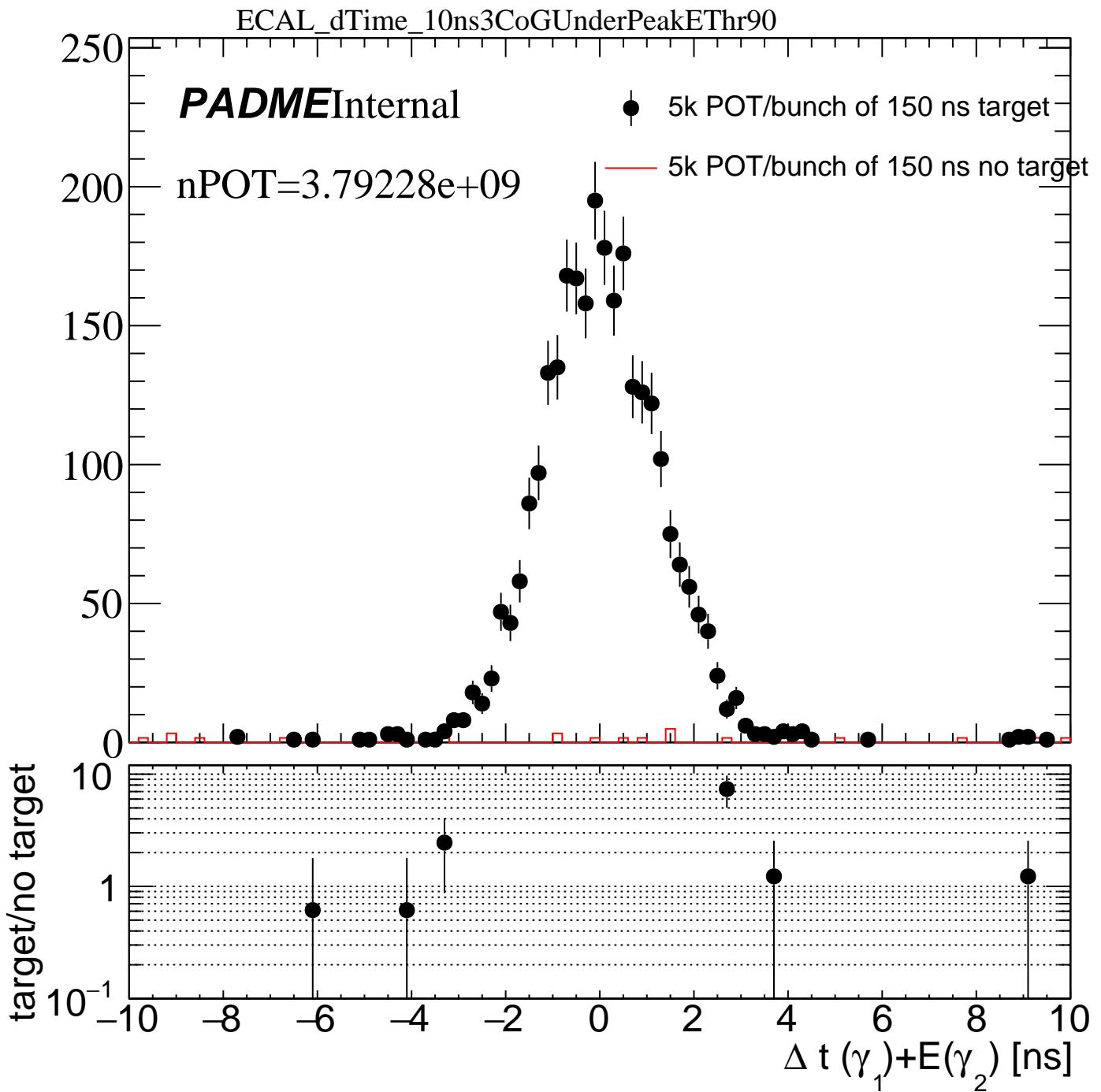


ECAL\_dTime\_10ns1CoGUnderPeakEThr90

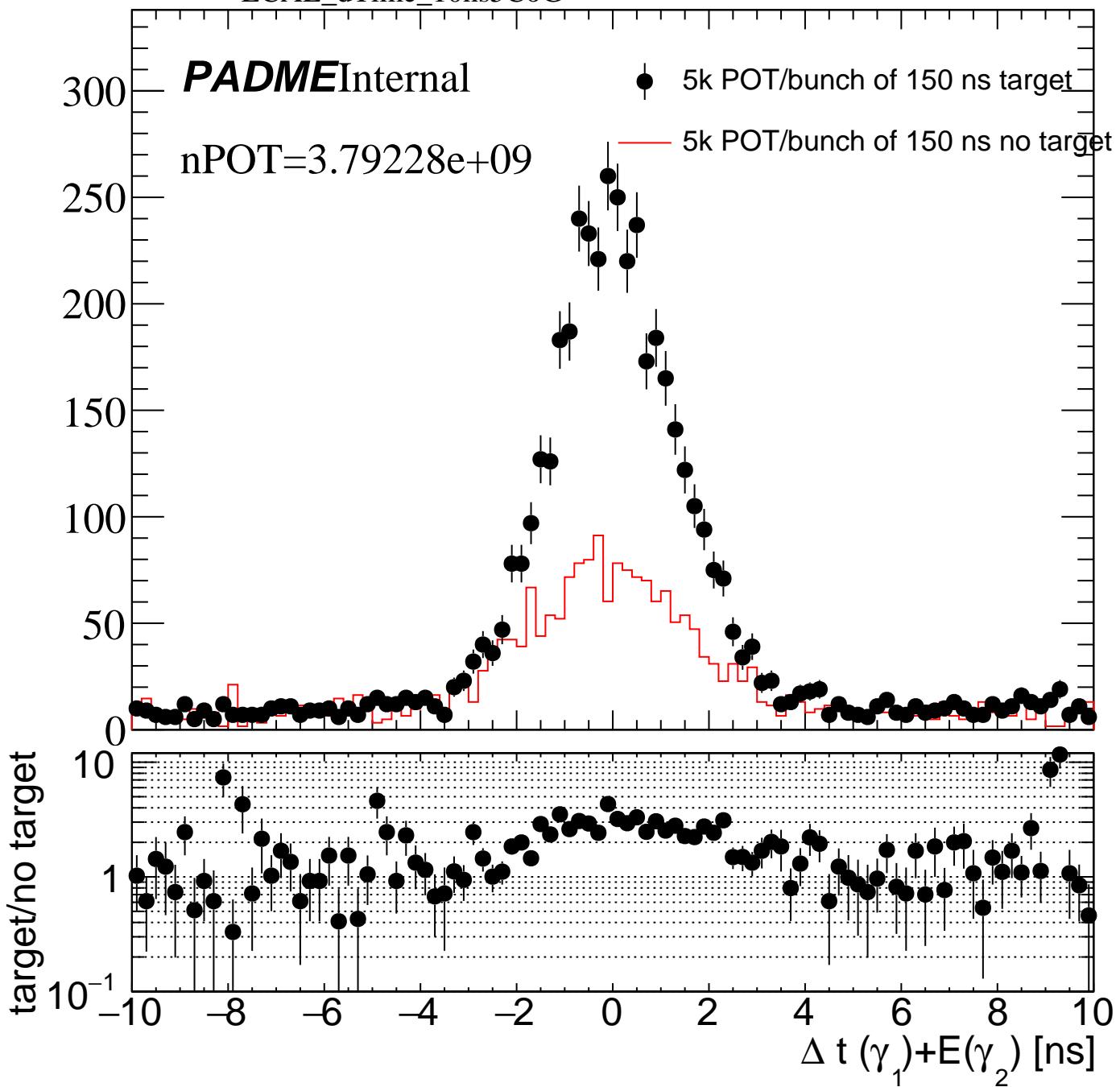


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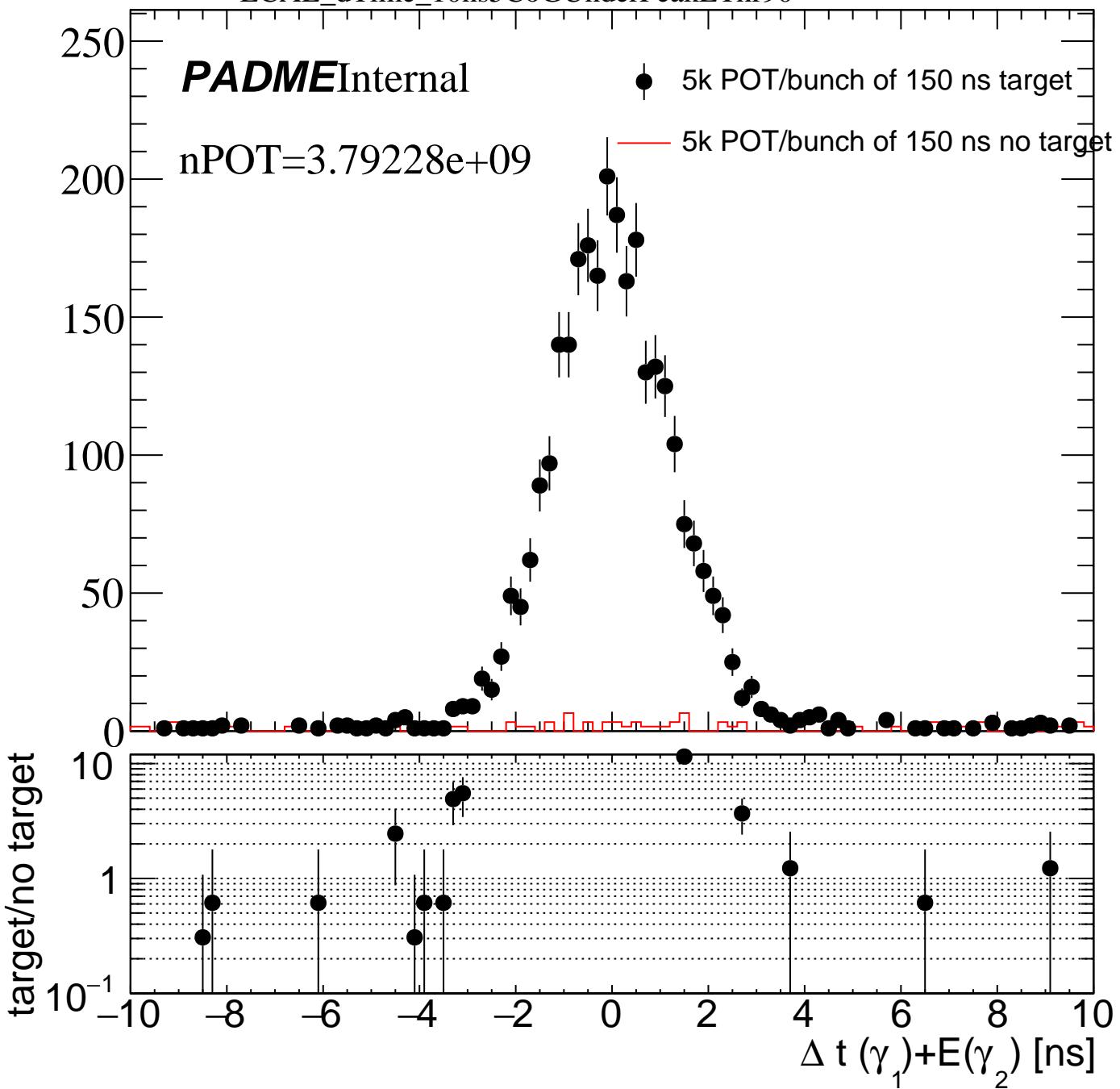




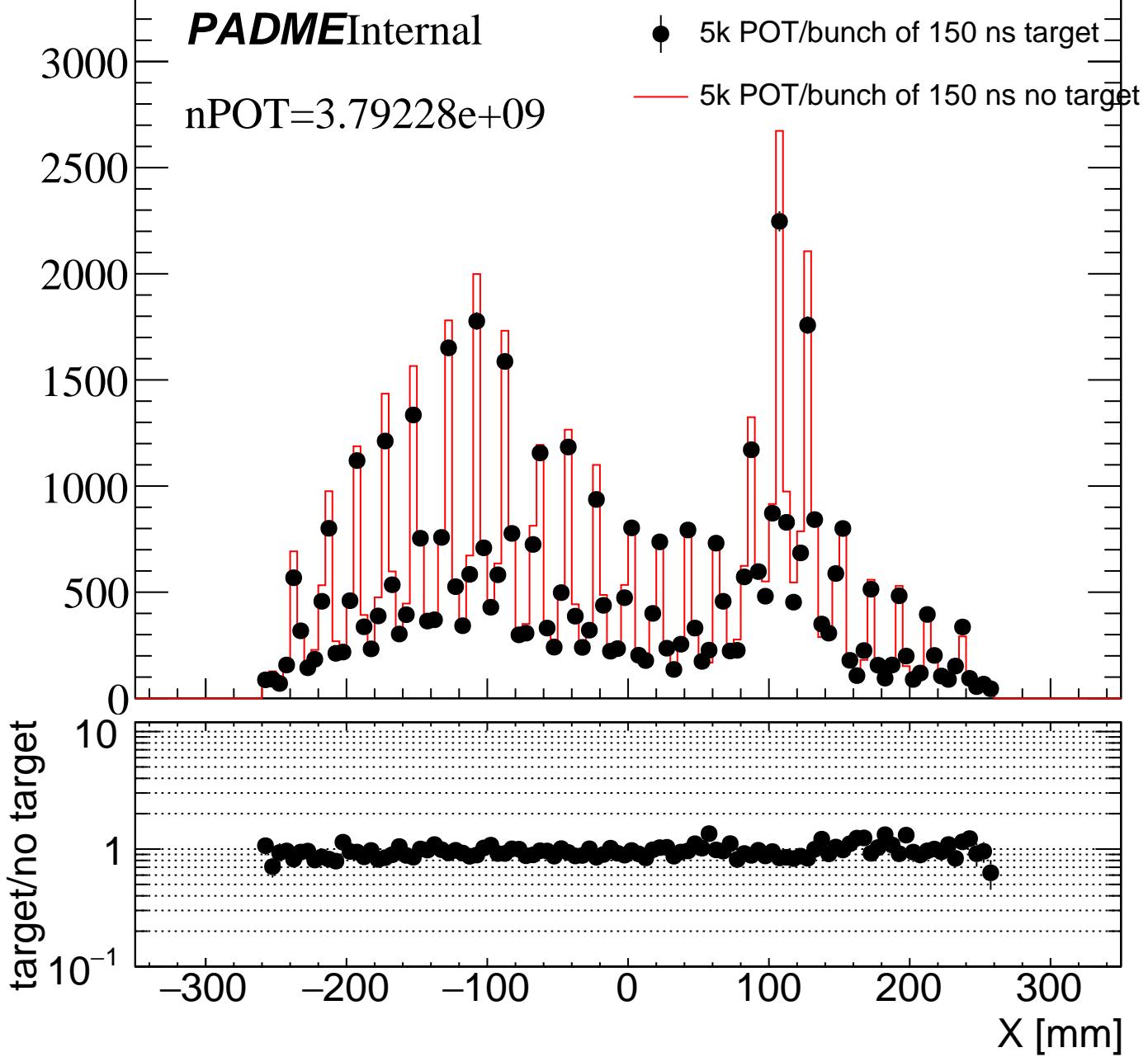
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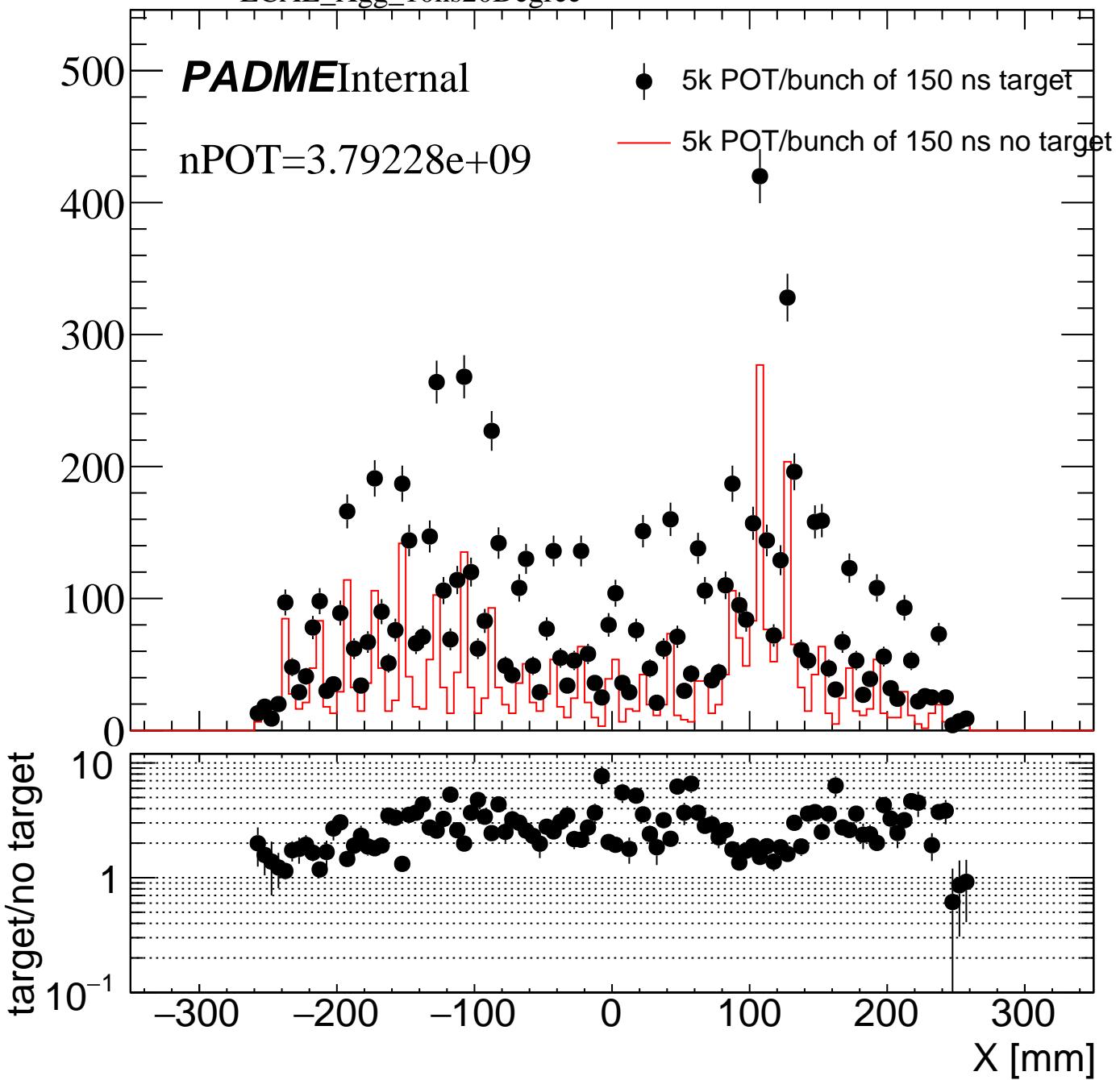
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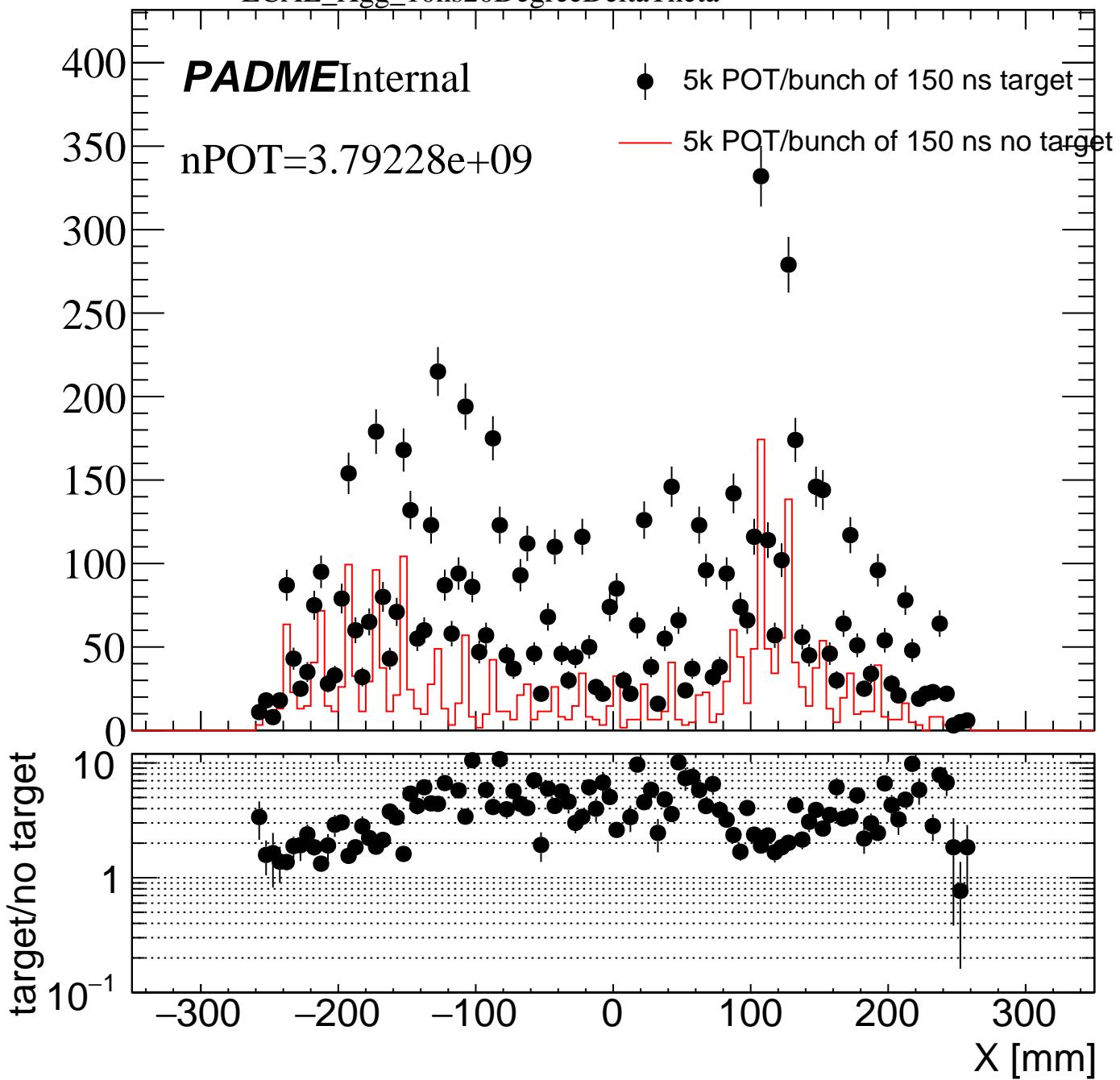
ECAL\_Xgg\_10ns

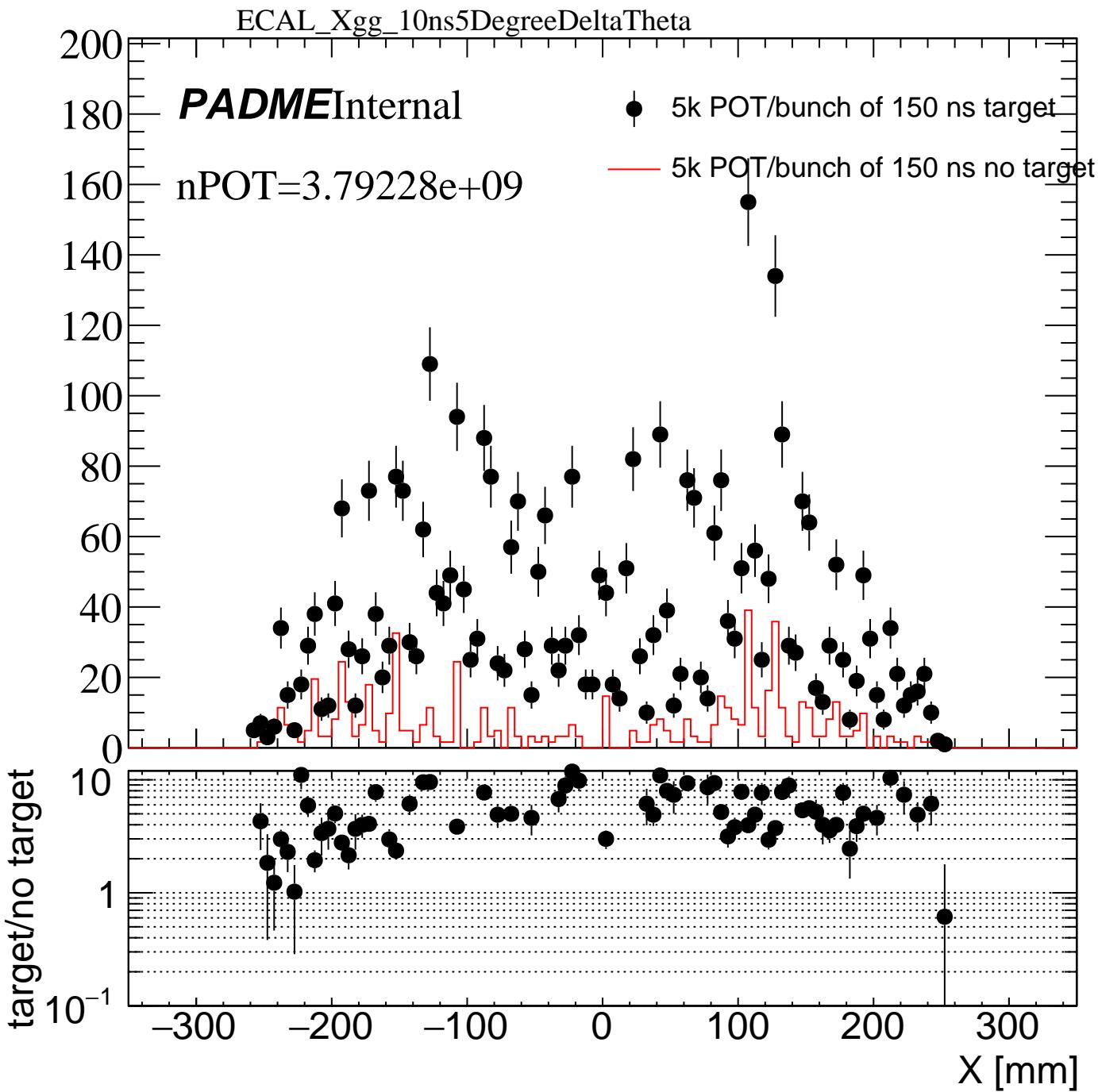


ECAL\_Xgg\_10ns20Degree

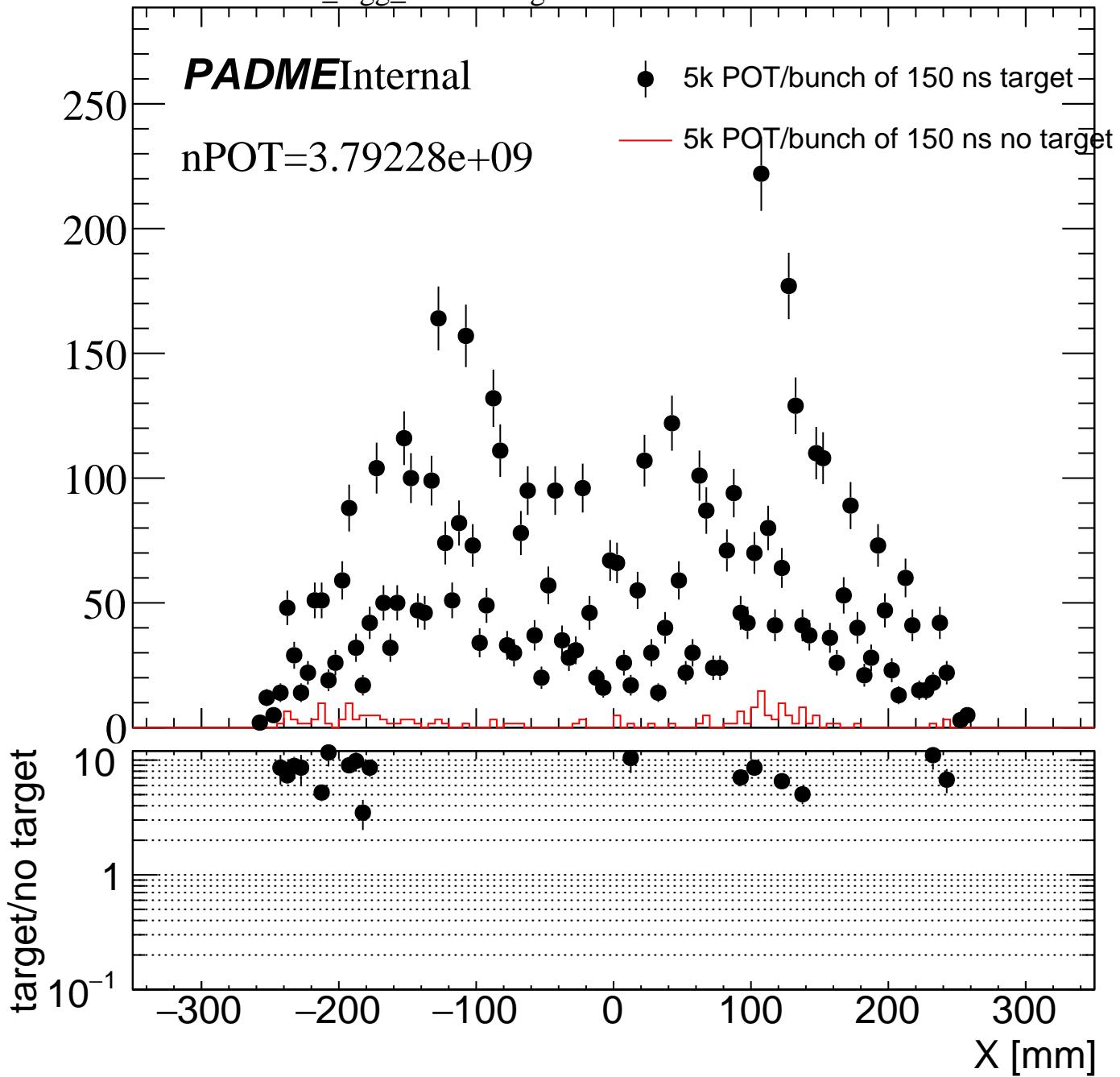


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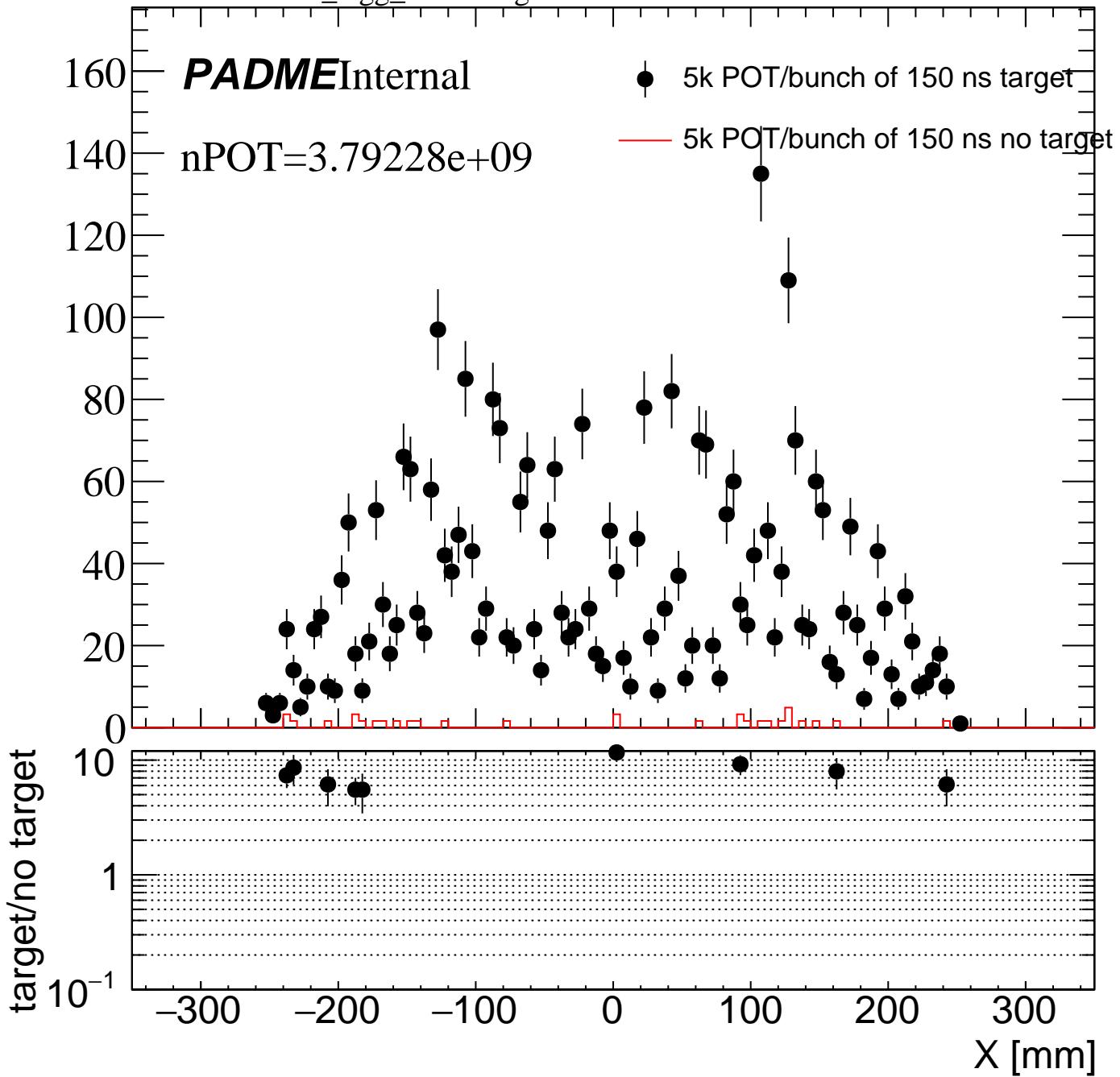




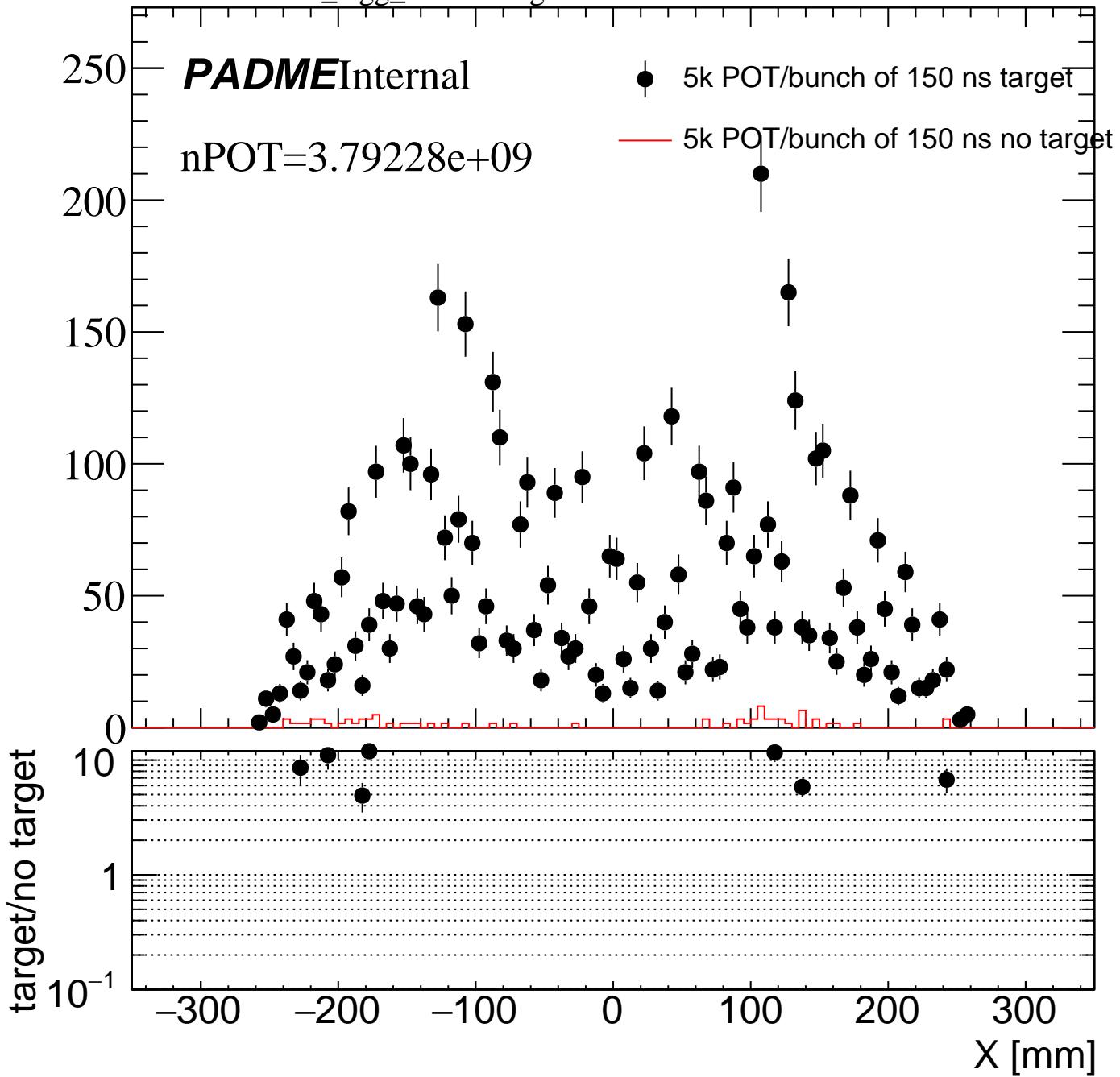
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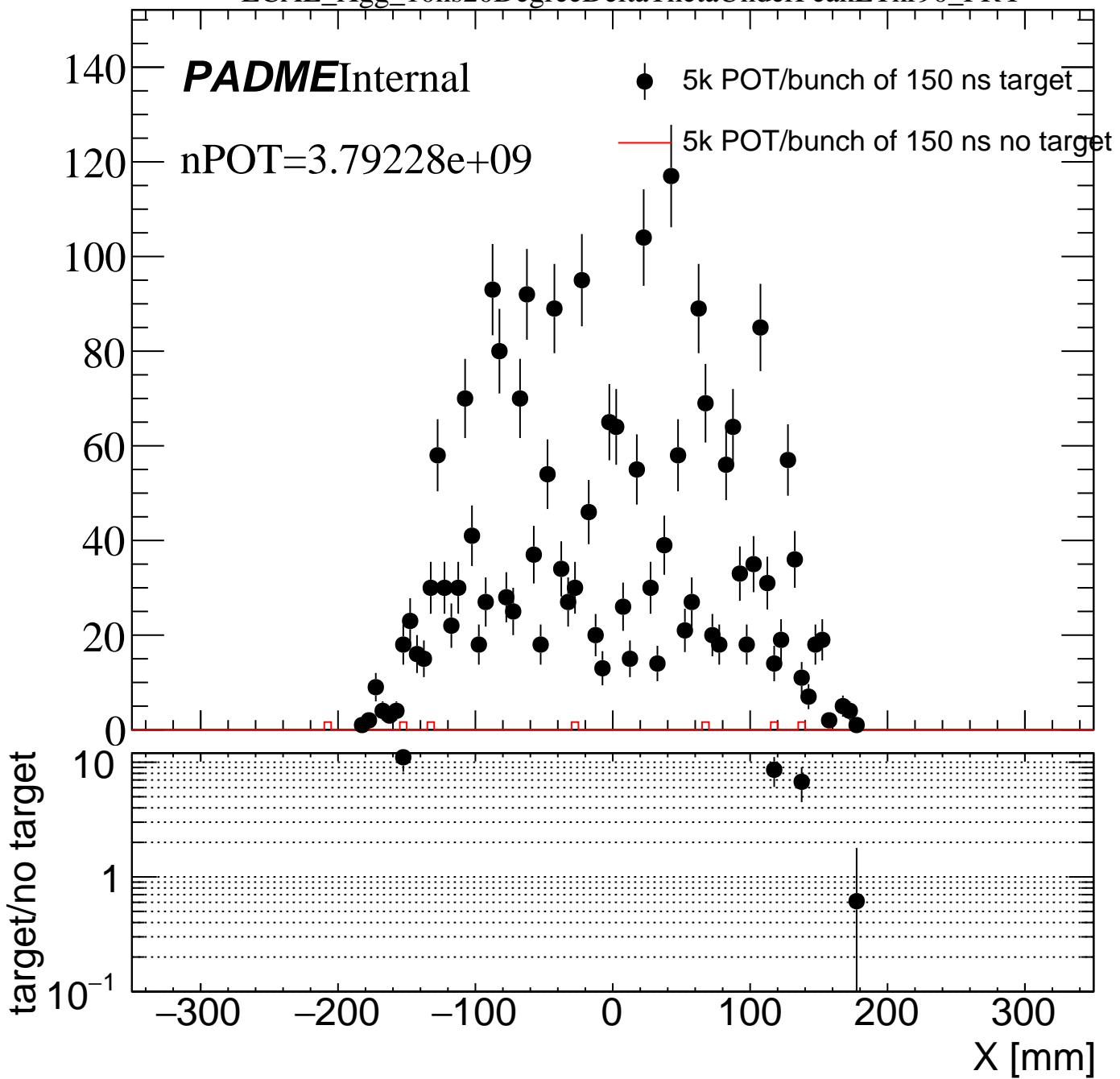
ECAL\_Xgg\_10ns5DegreeDeltaThetaUnderPeak



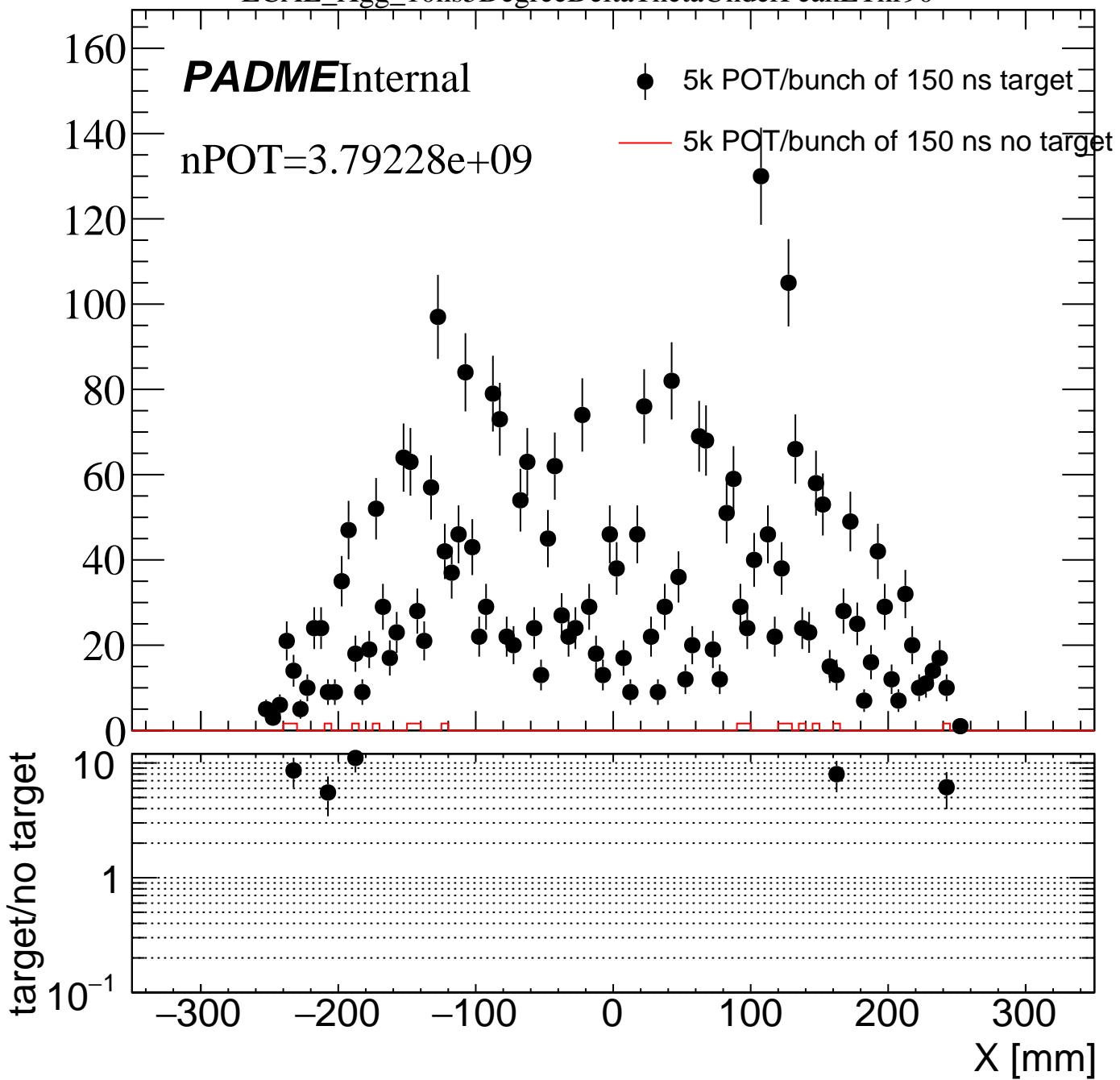
ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeakEThr90



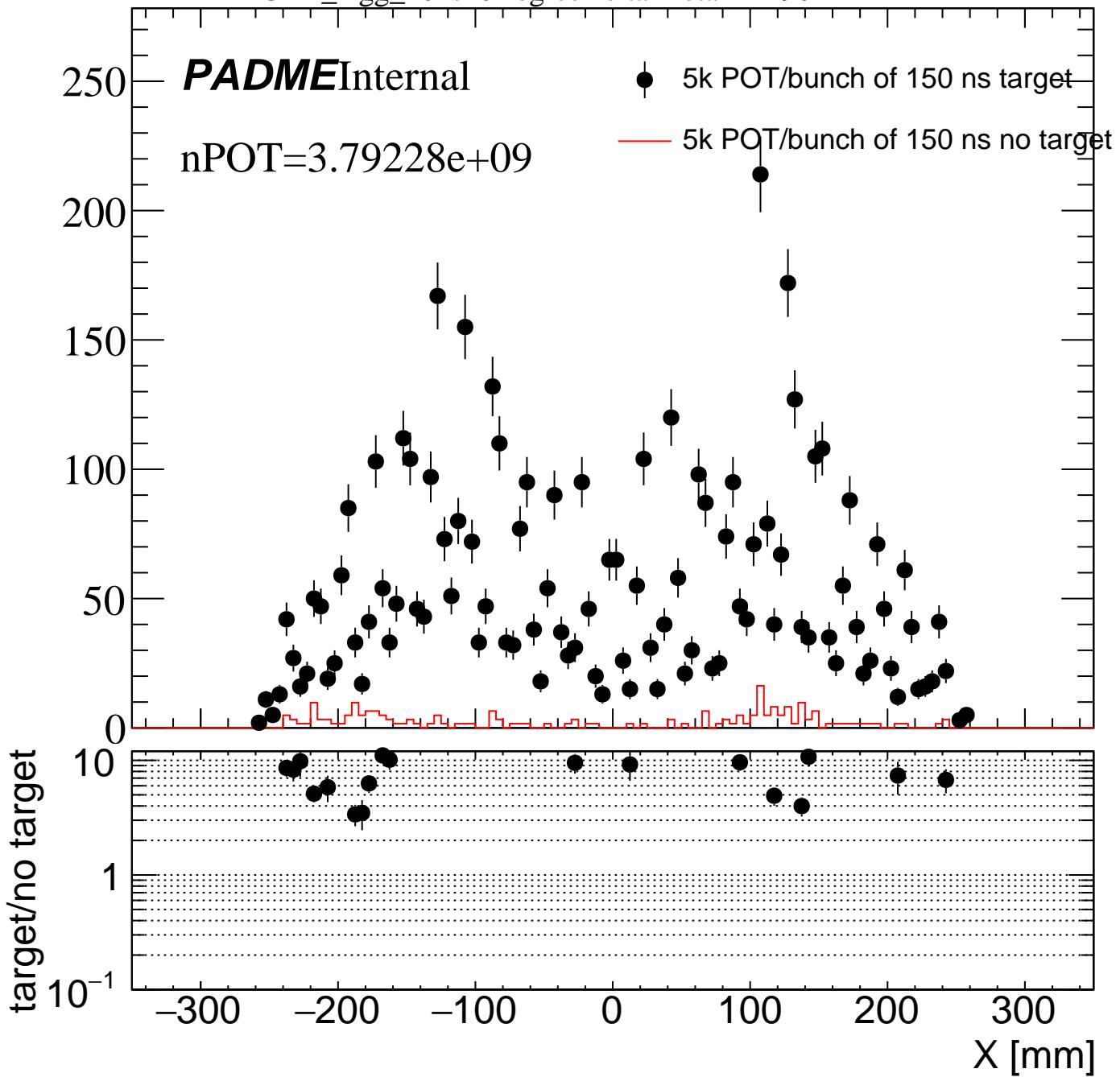
ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY



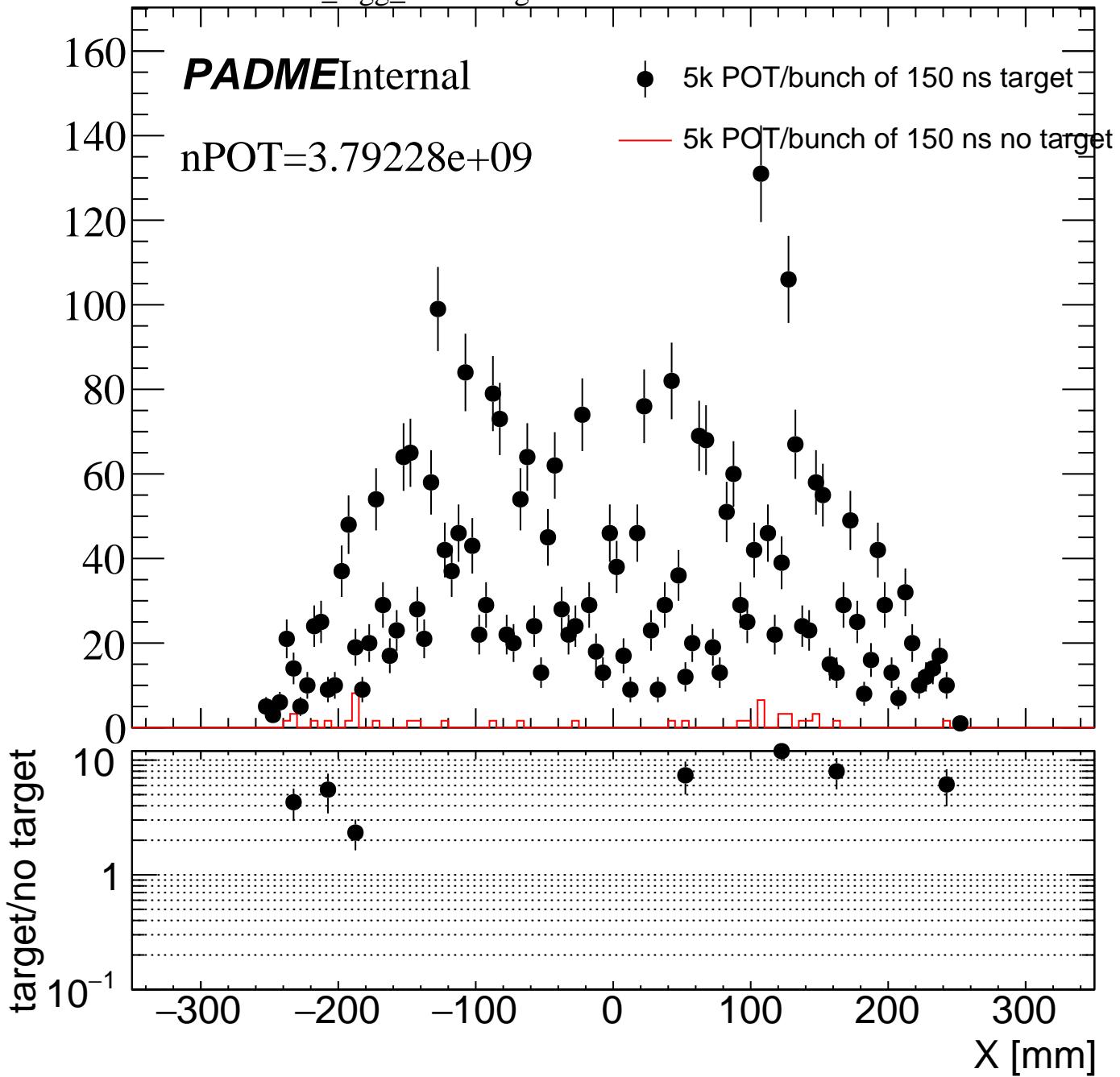
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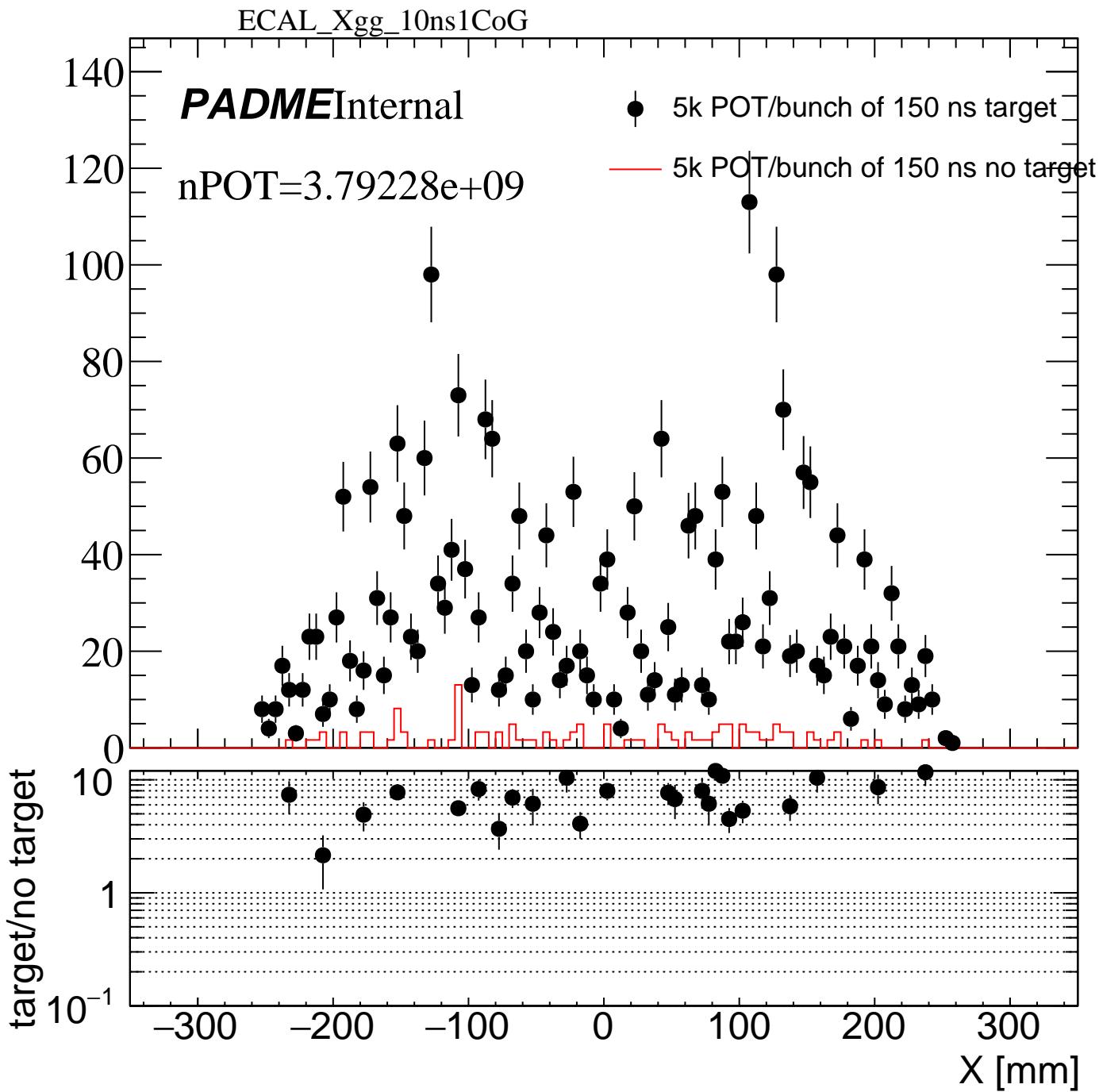


ECAL\_Xgg\_10ns20DegreeDeltaThetaEThr90

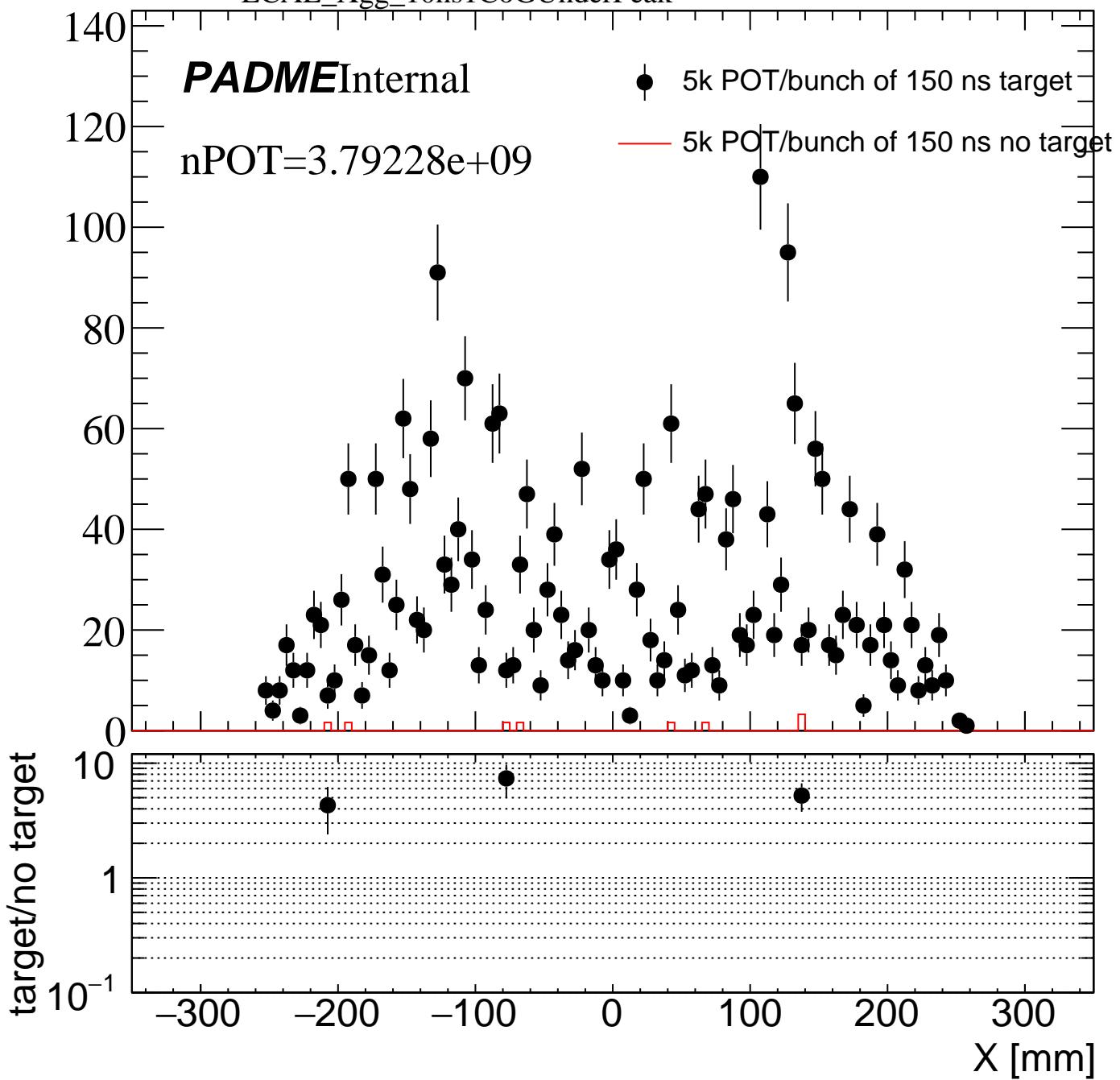


ECAL\_Xgg\_10ns5DegreeDeltaThetaEThr90

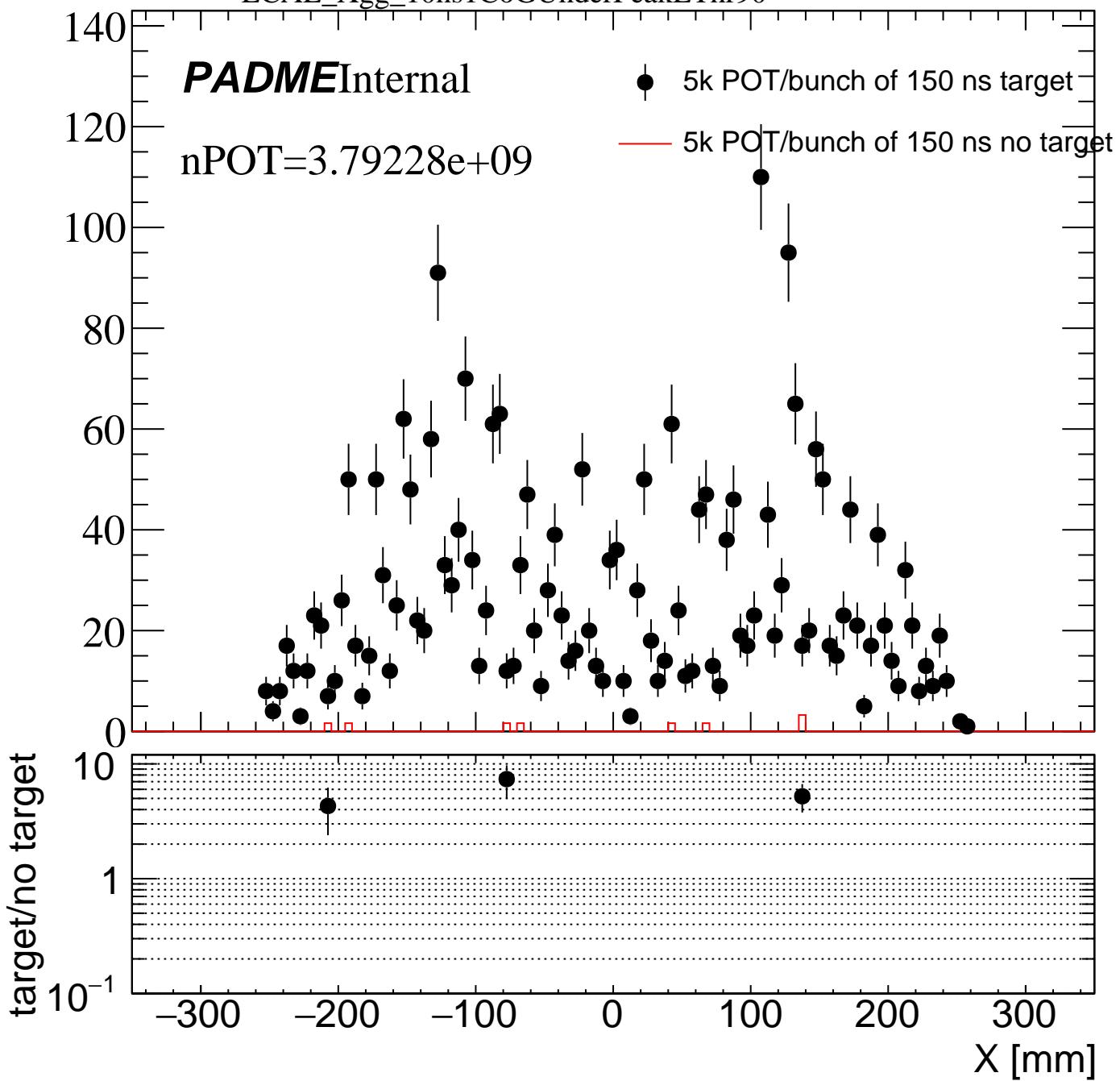


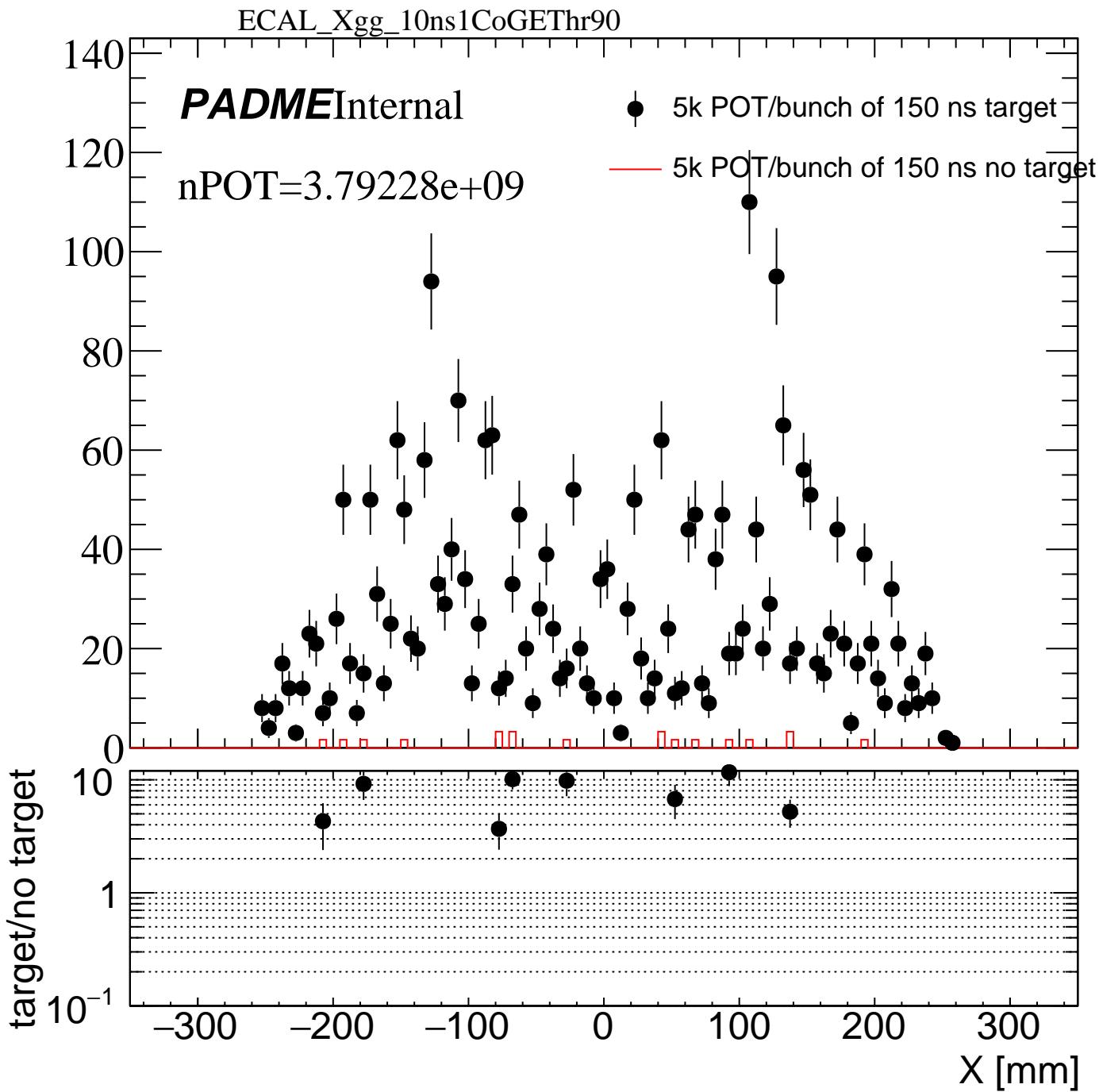


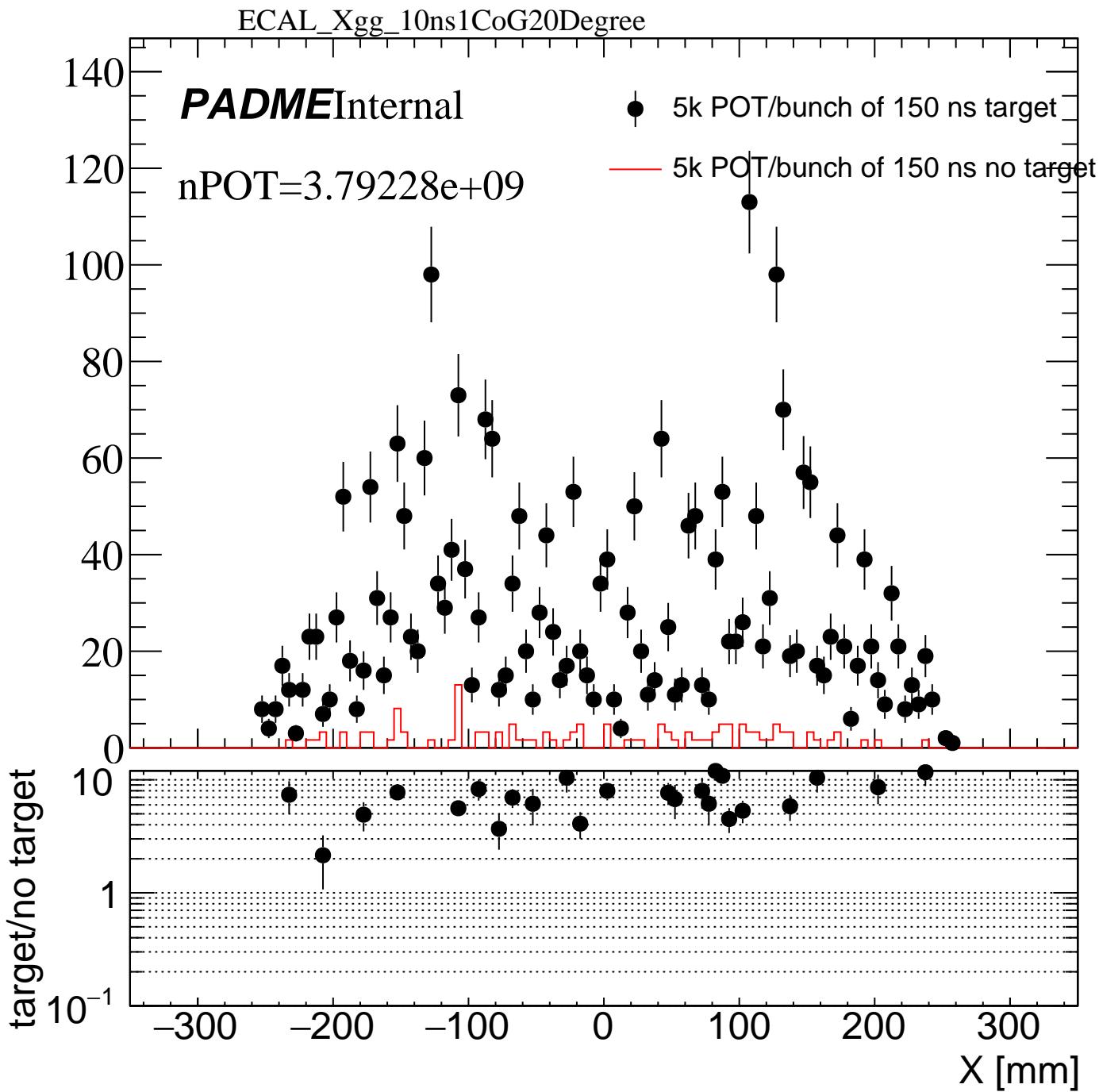
ECAL\_Xgg\_10ns1CoGUnderPeak

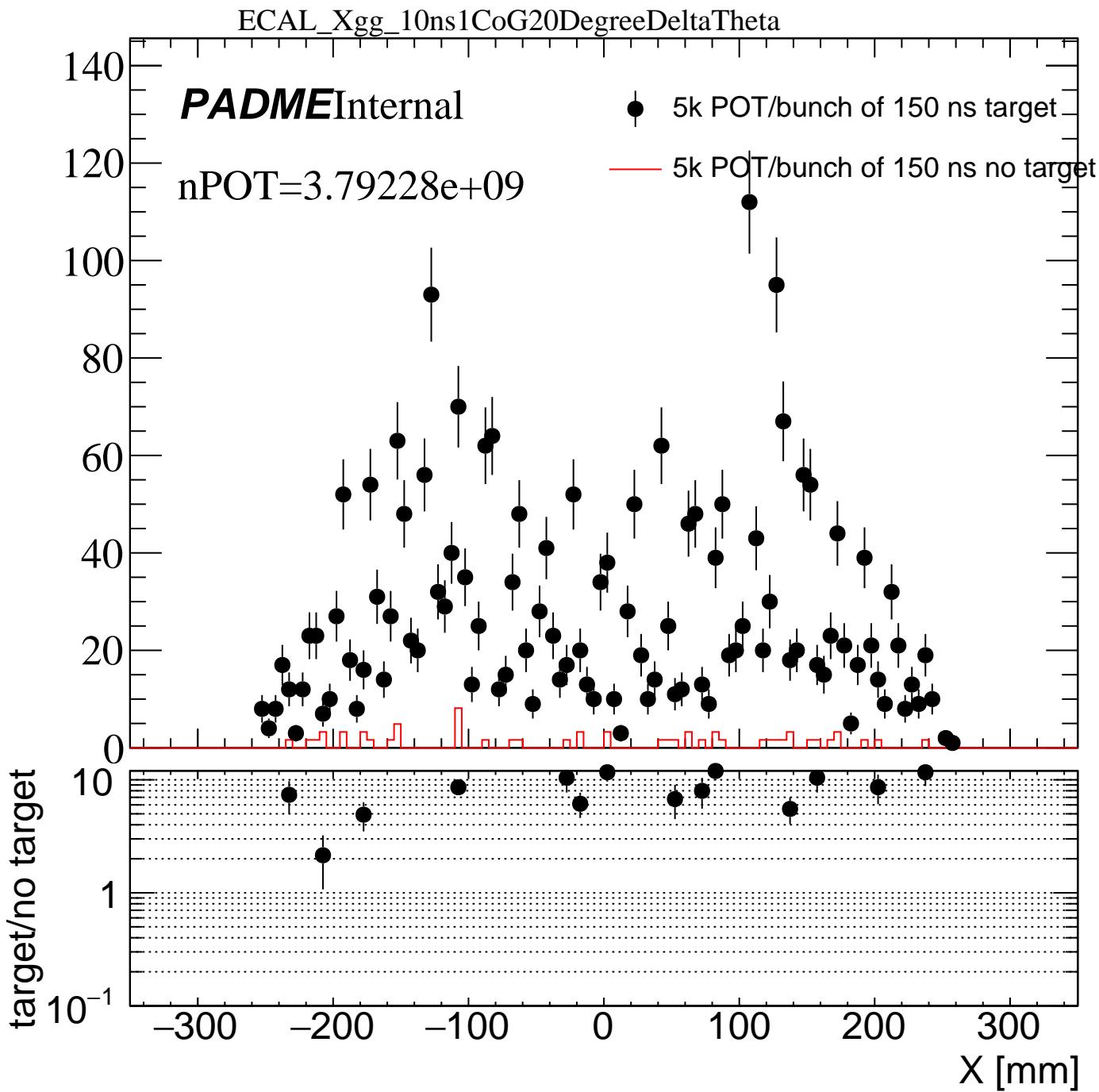


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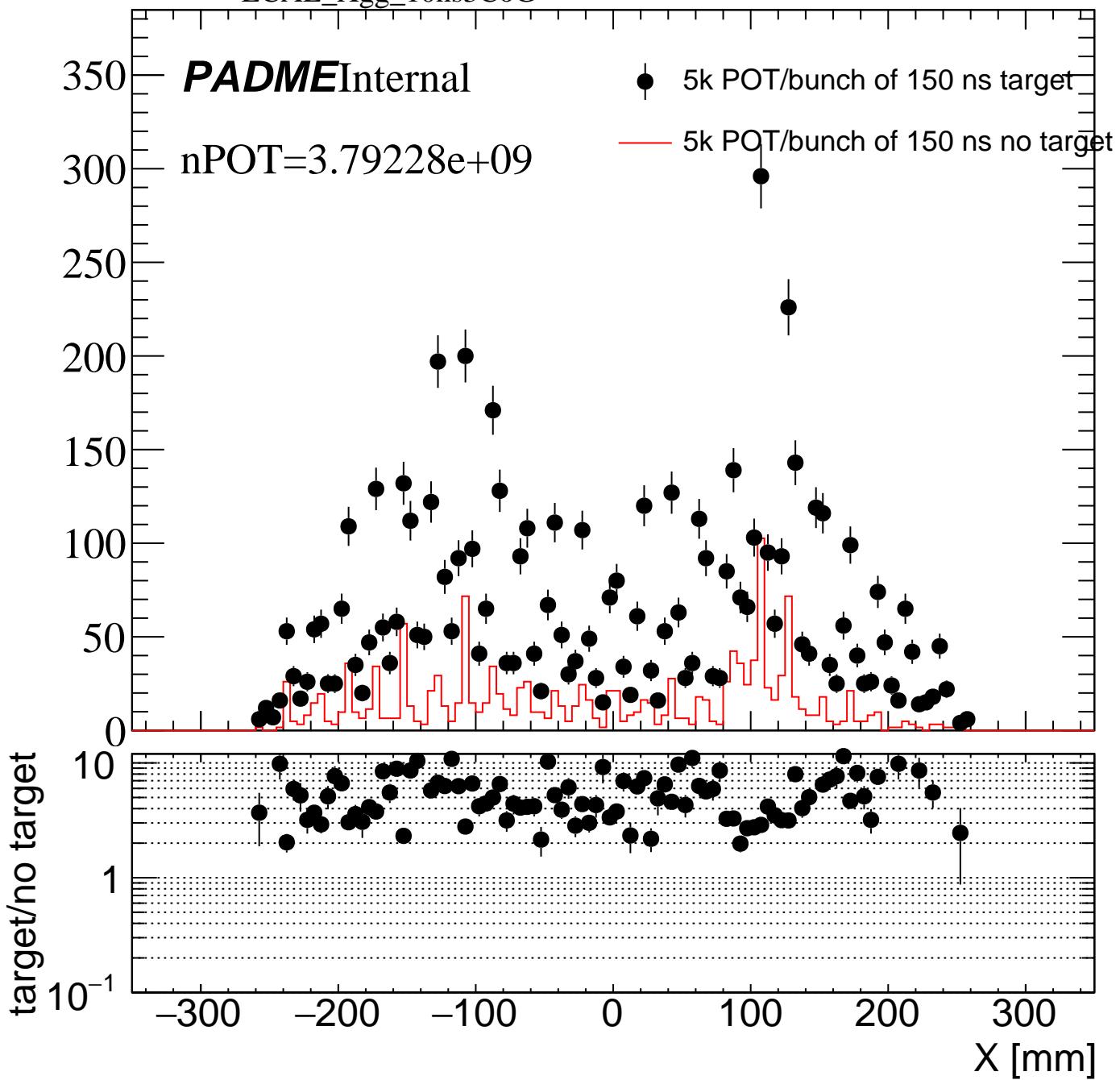




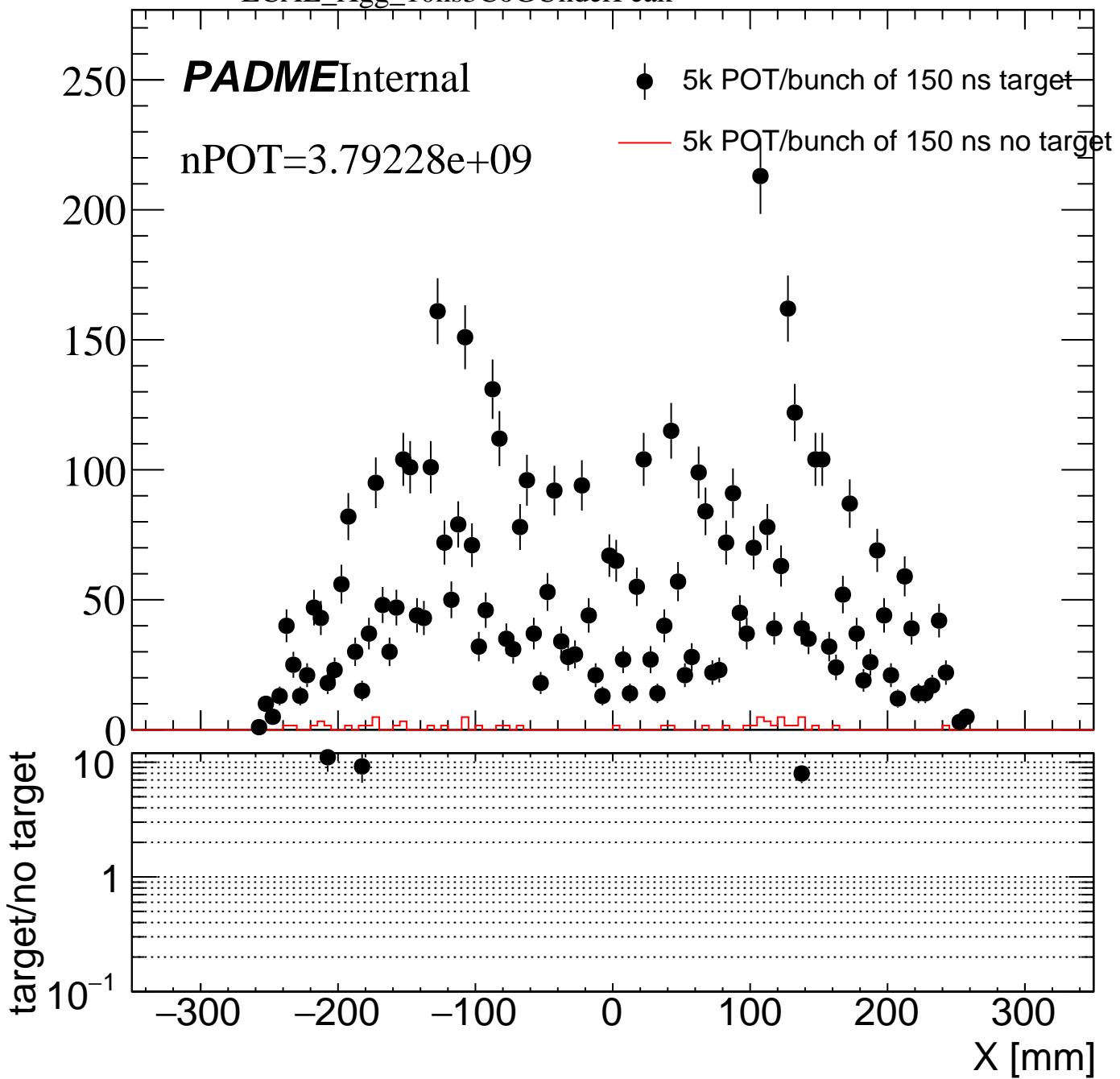




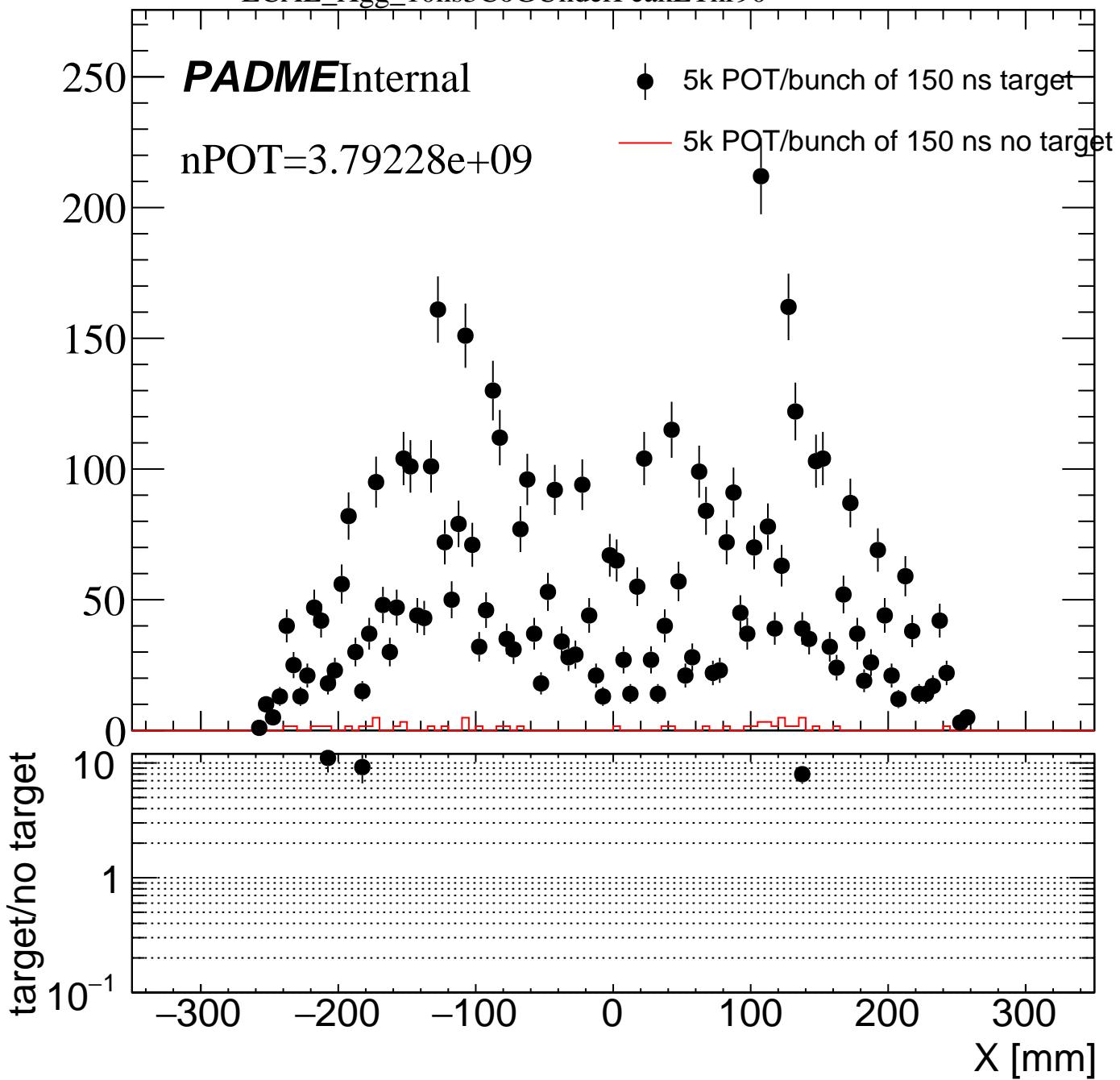
ECAL\_Xgg\_10ns3CoG



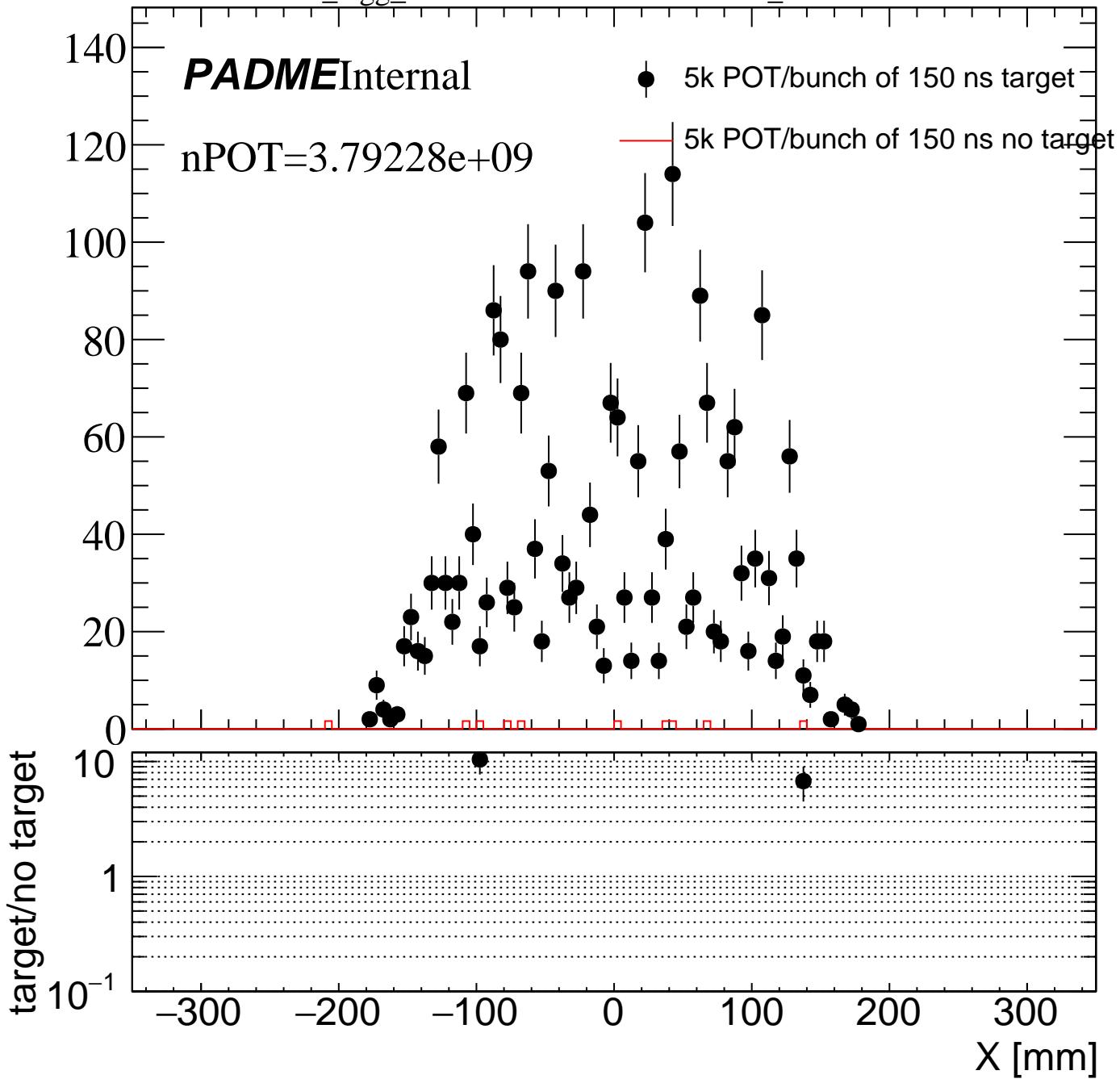
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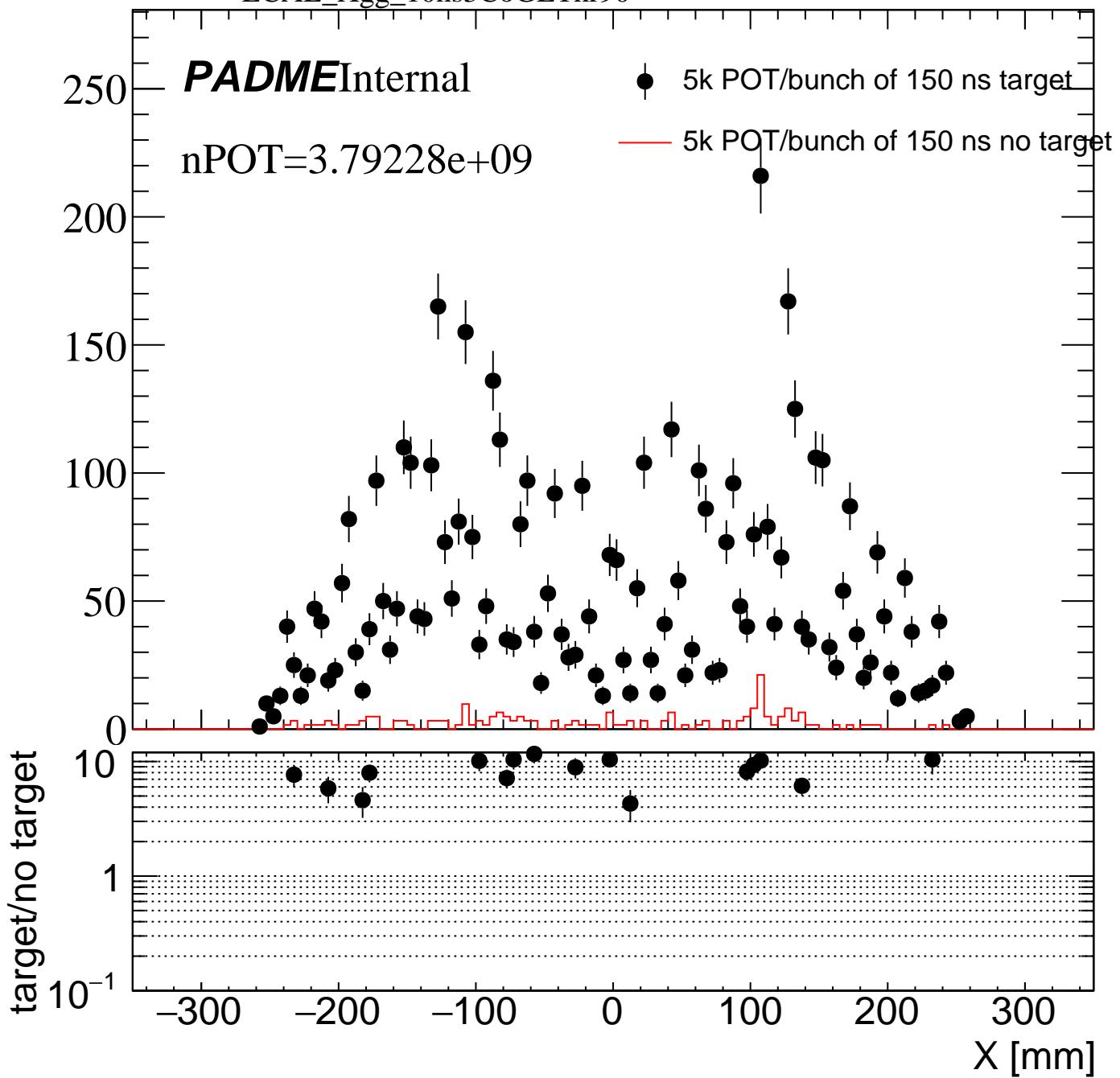
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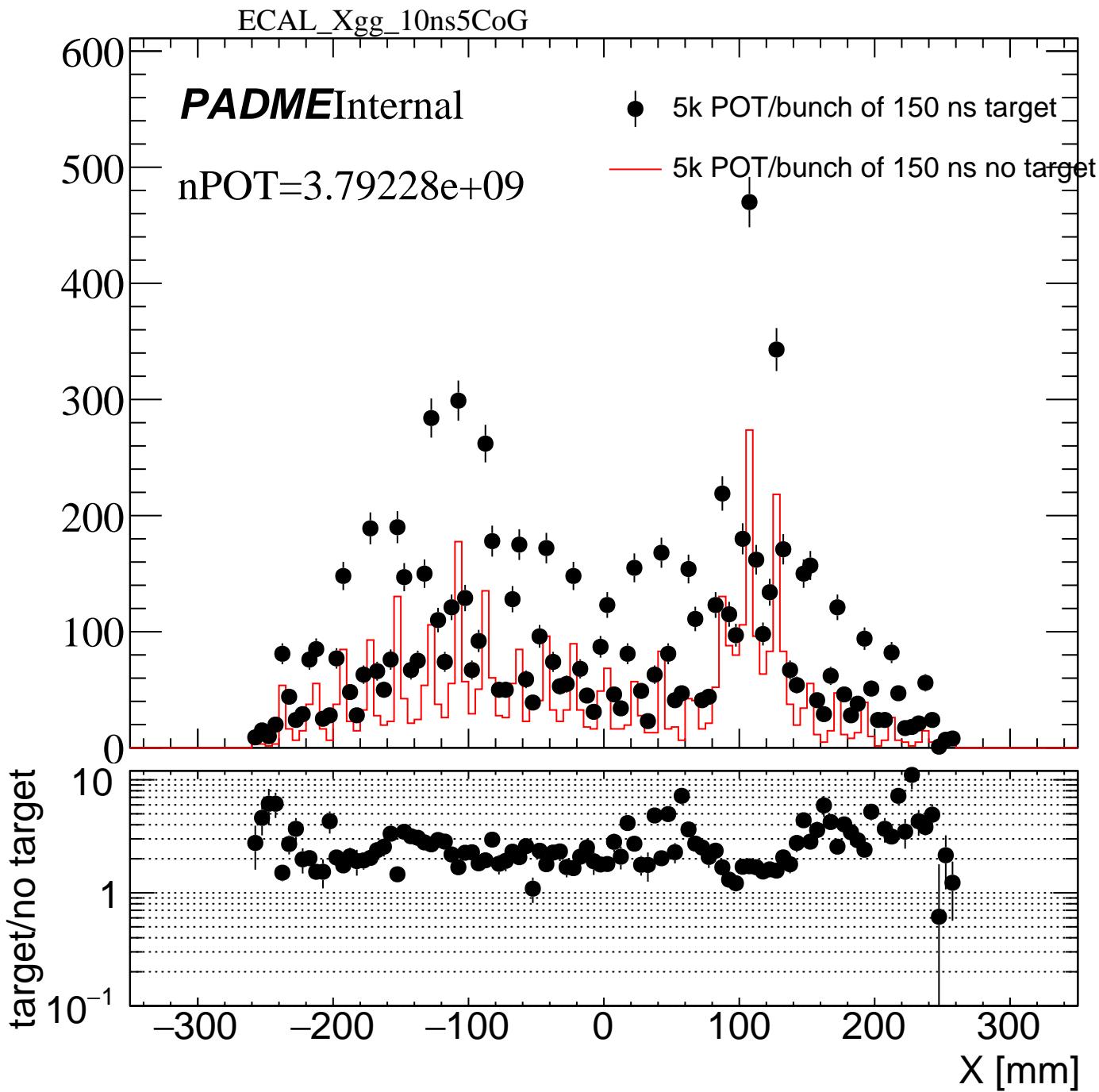


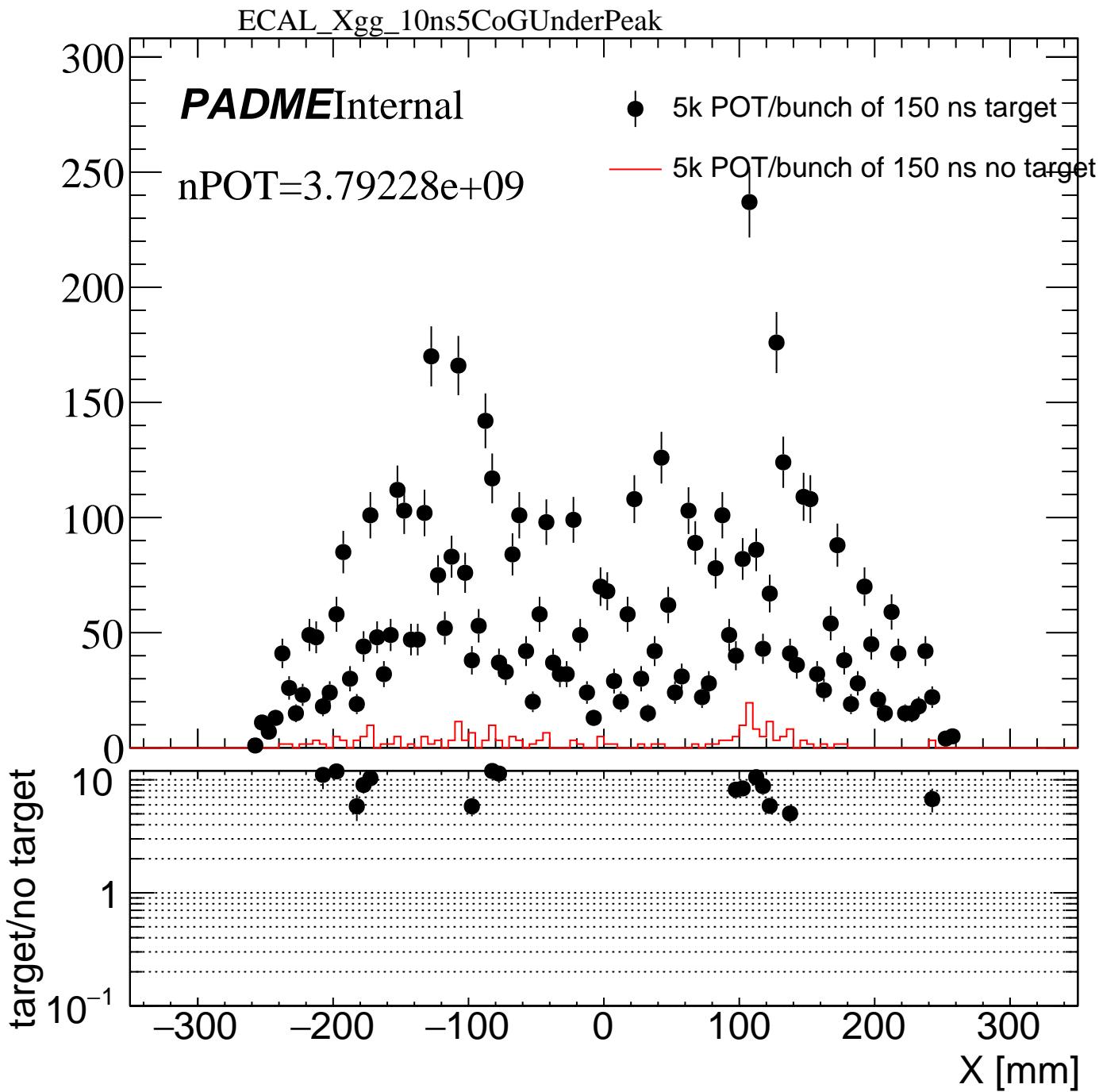
ECAL\_Xgg\_10ns3CoGUnderPeakEThr90\_FRY

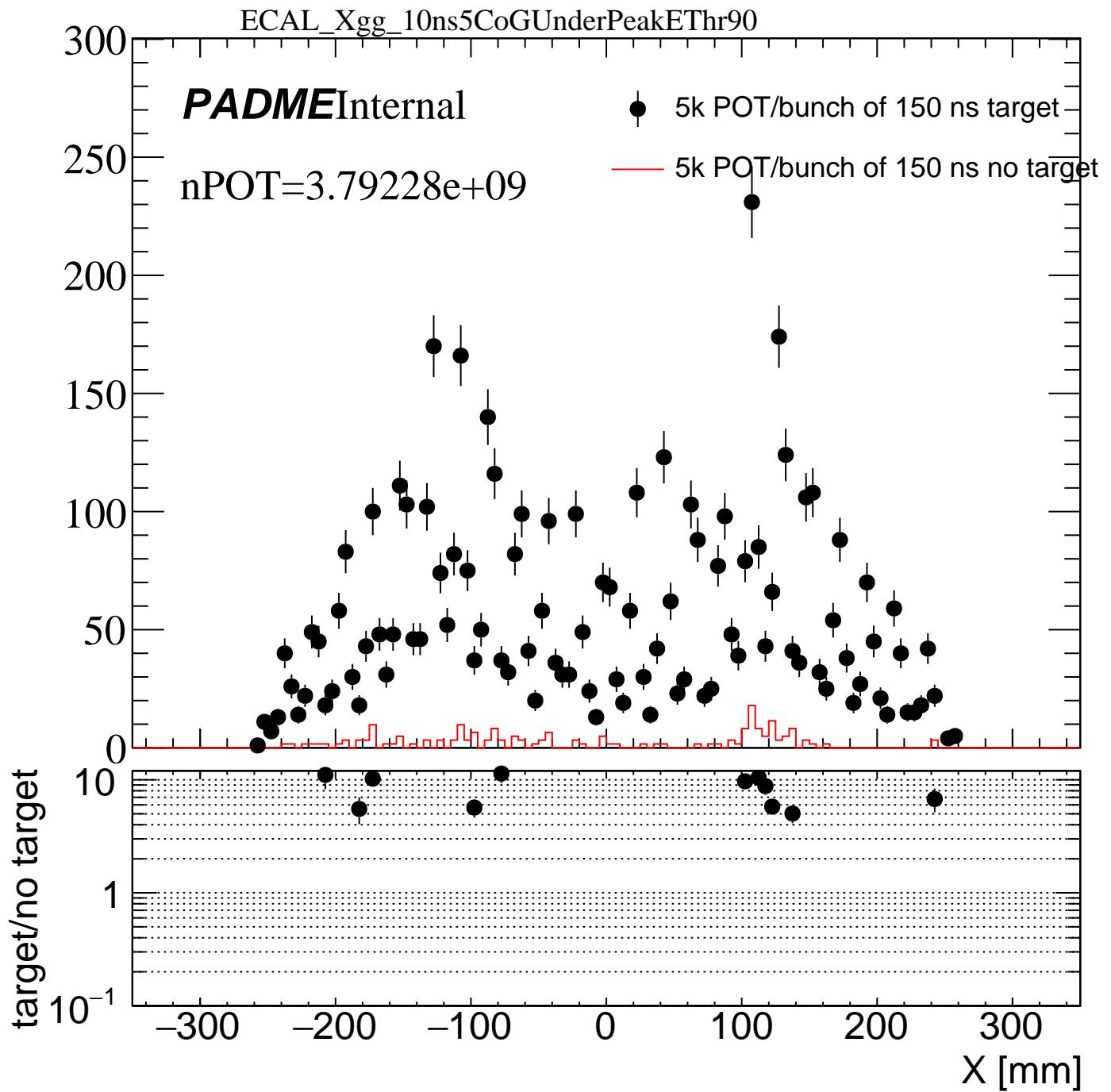


ECAL\_Xgg\_10ns3CoGEThr90

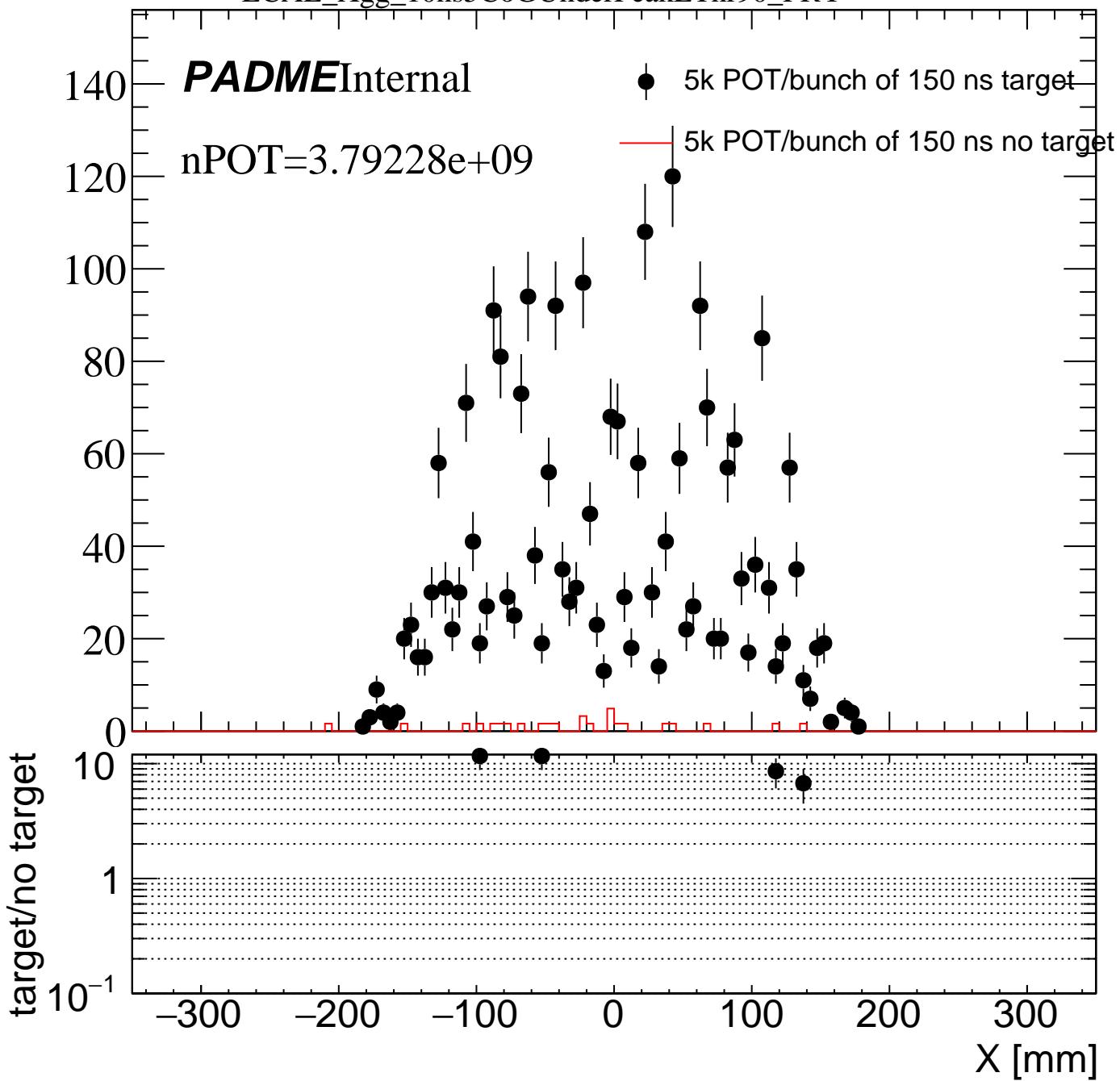




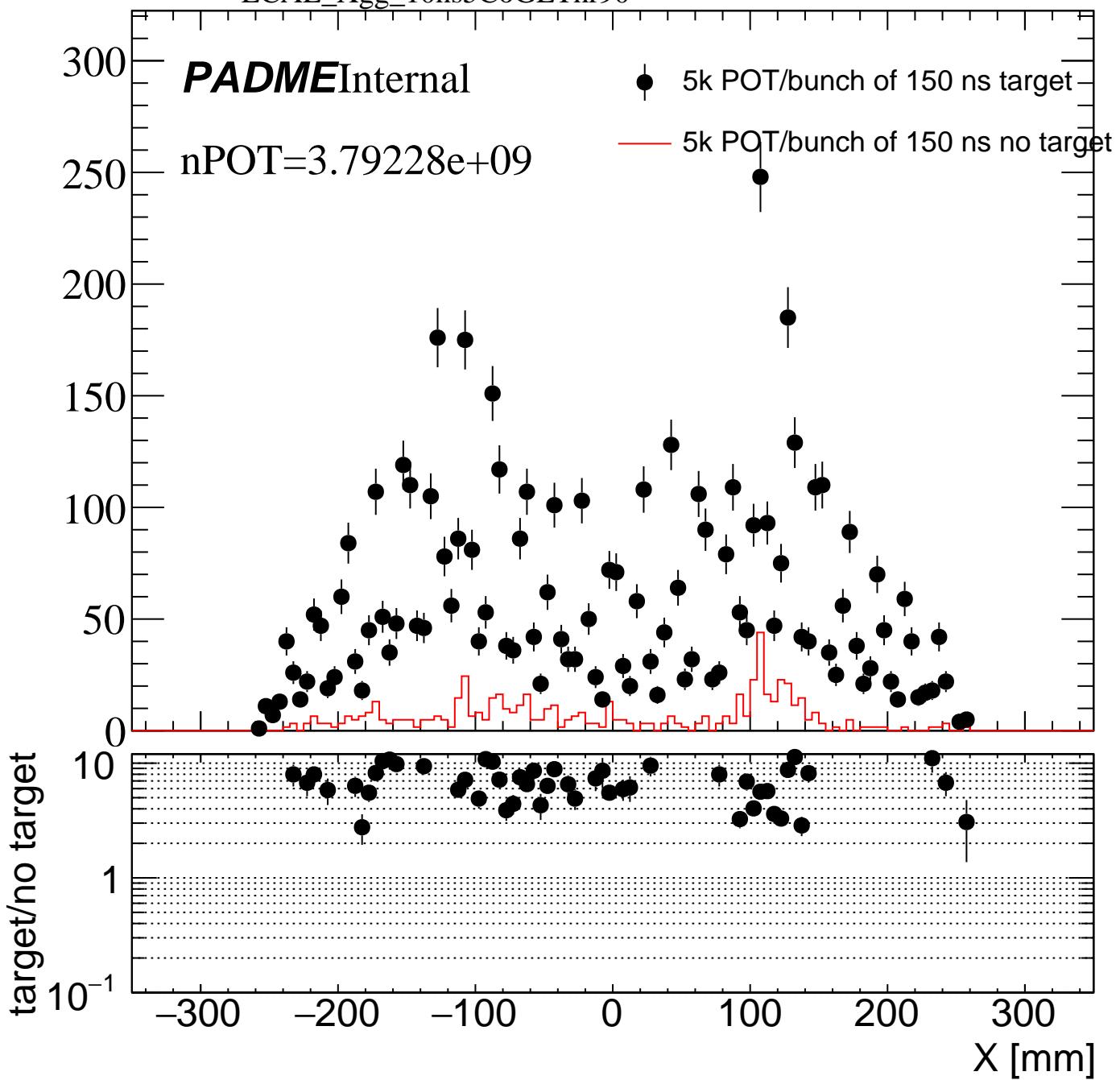


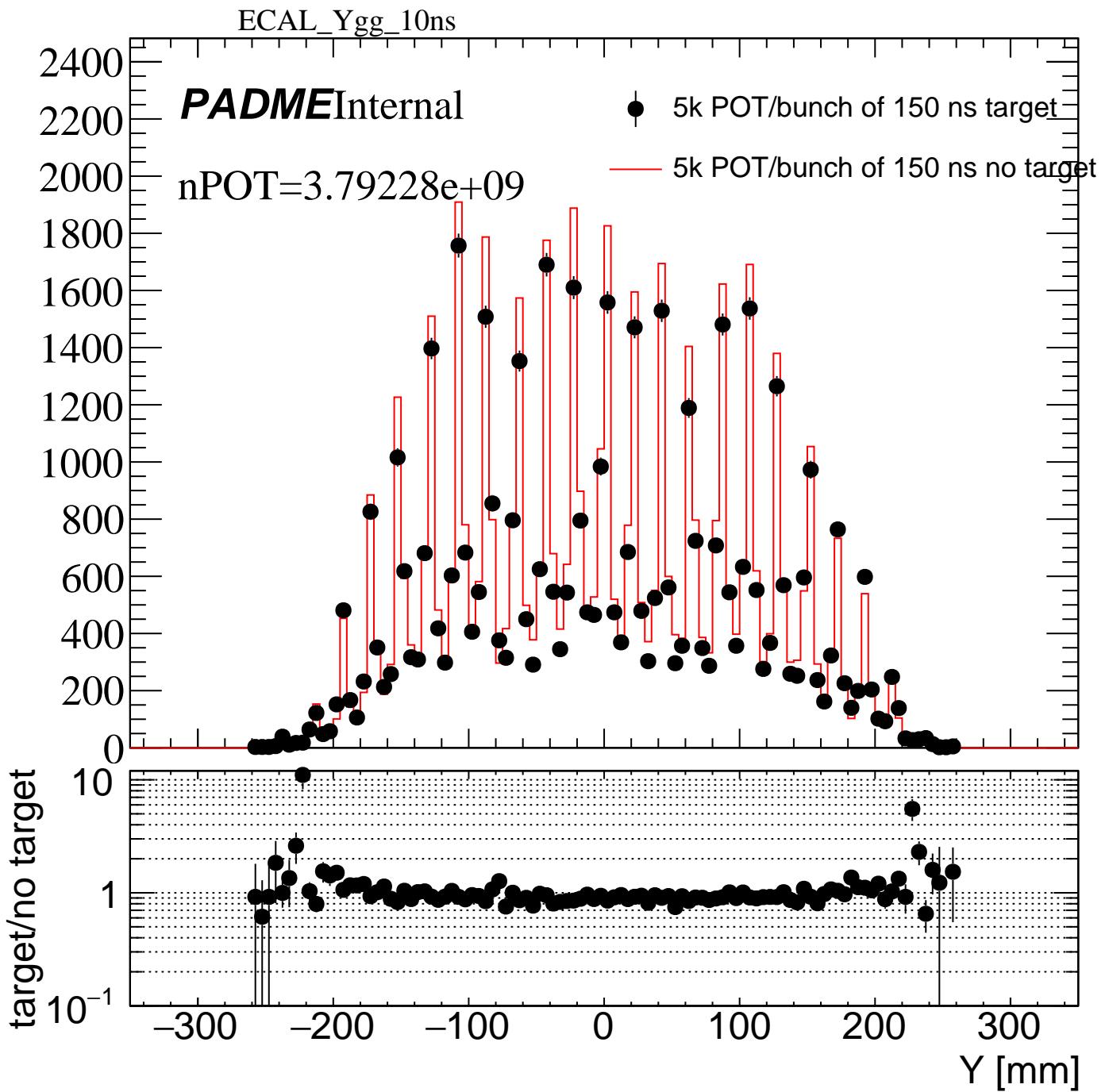


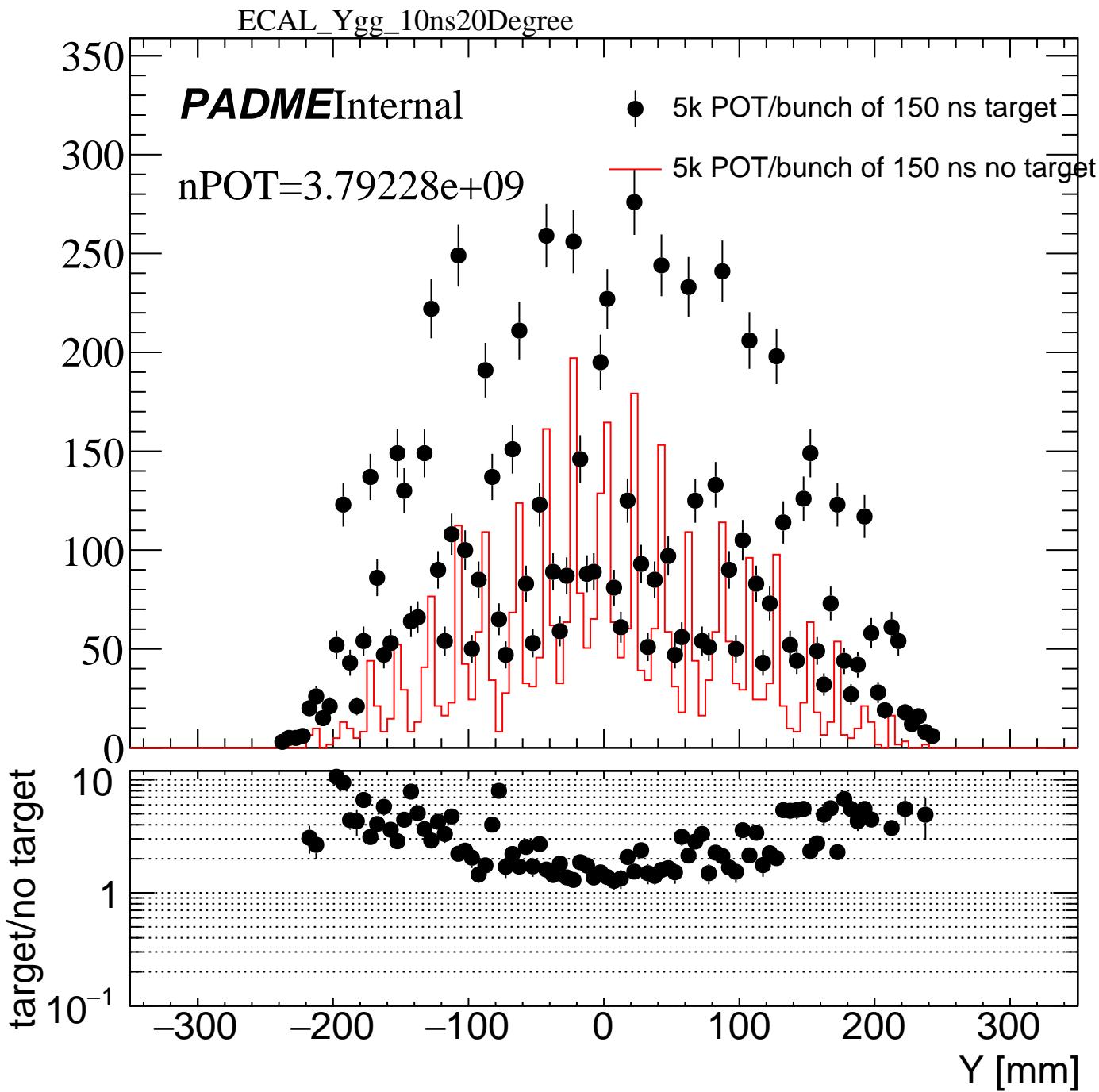
ECAL\_Xgg\_10ns5CoGUnderPeakEThr90\_FRY



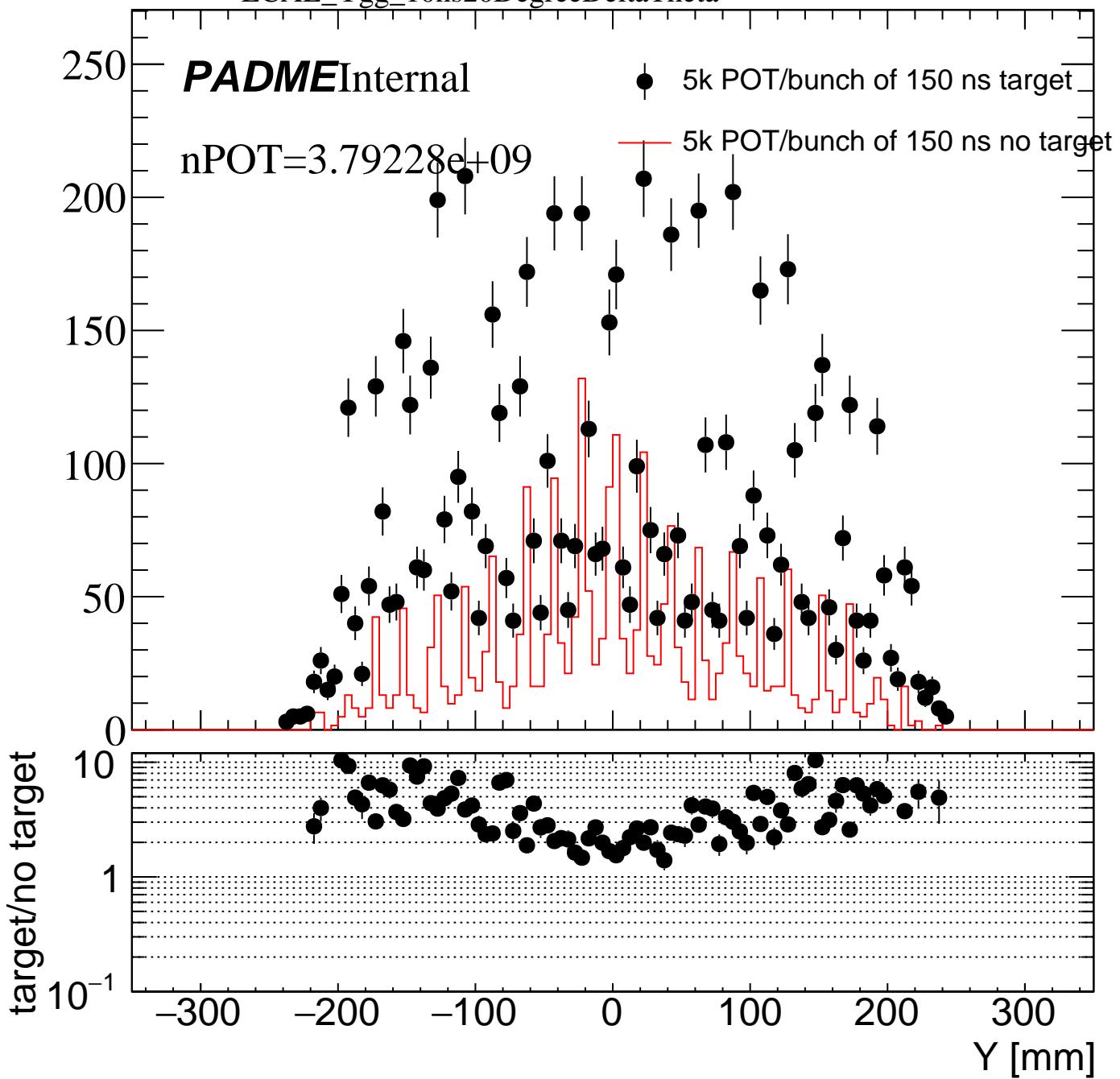
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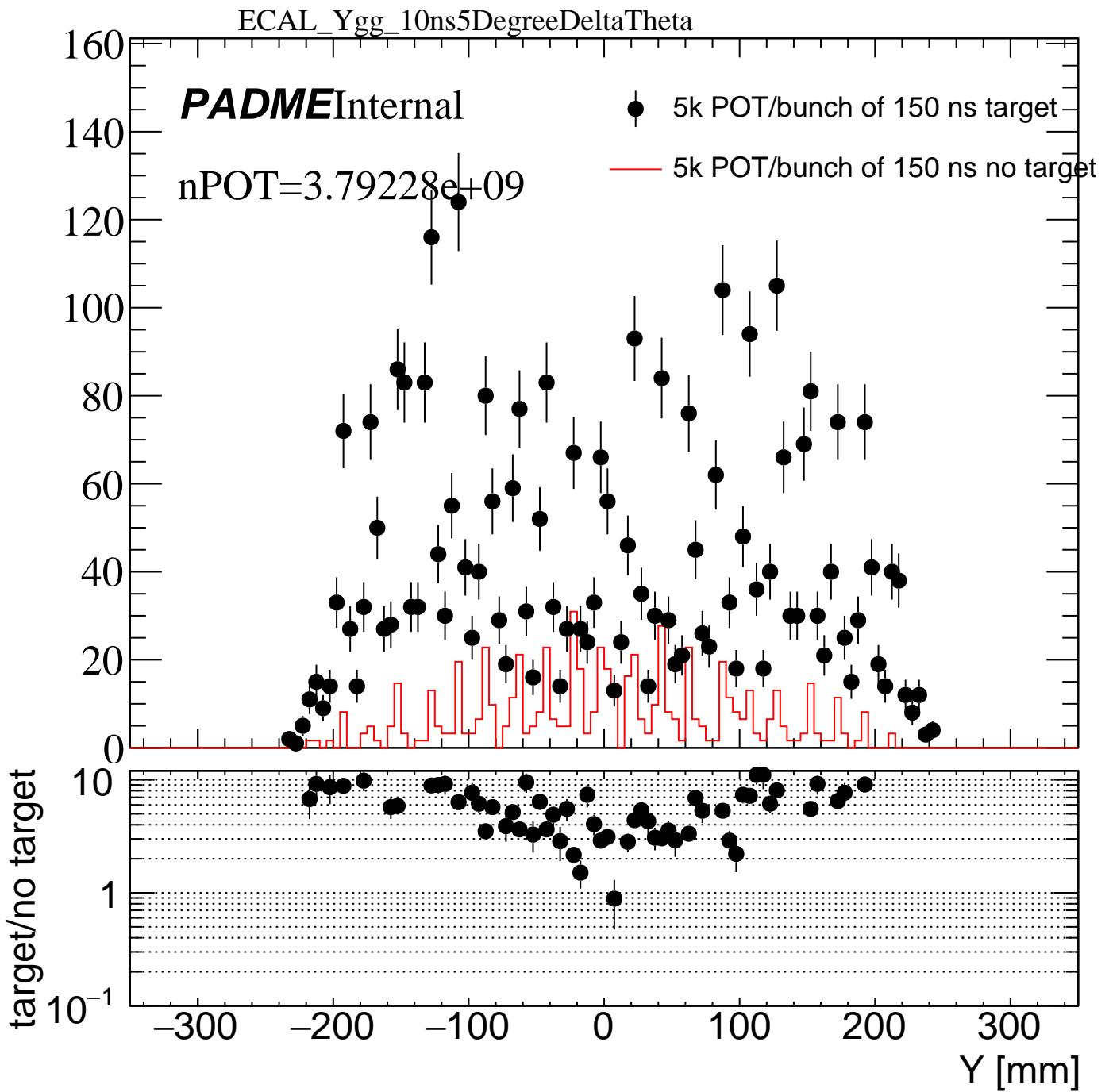




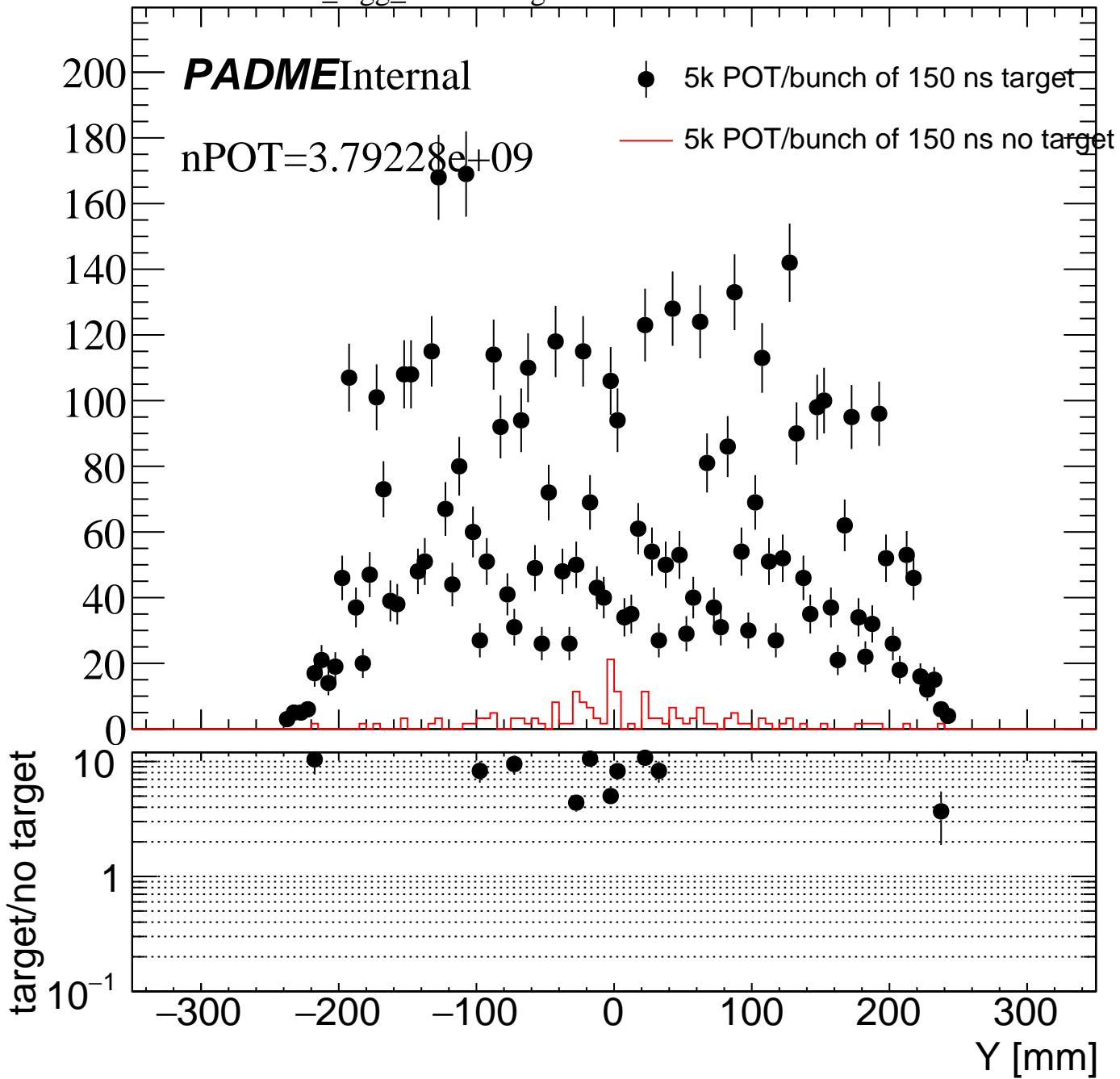


# ECAL\_Ygg\_10ns20DegreeDeltaTheta

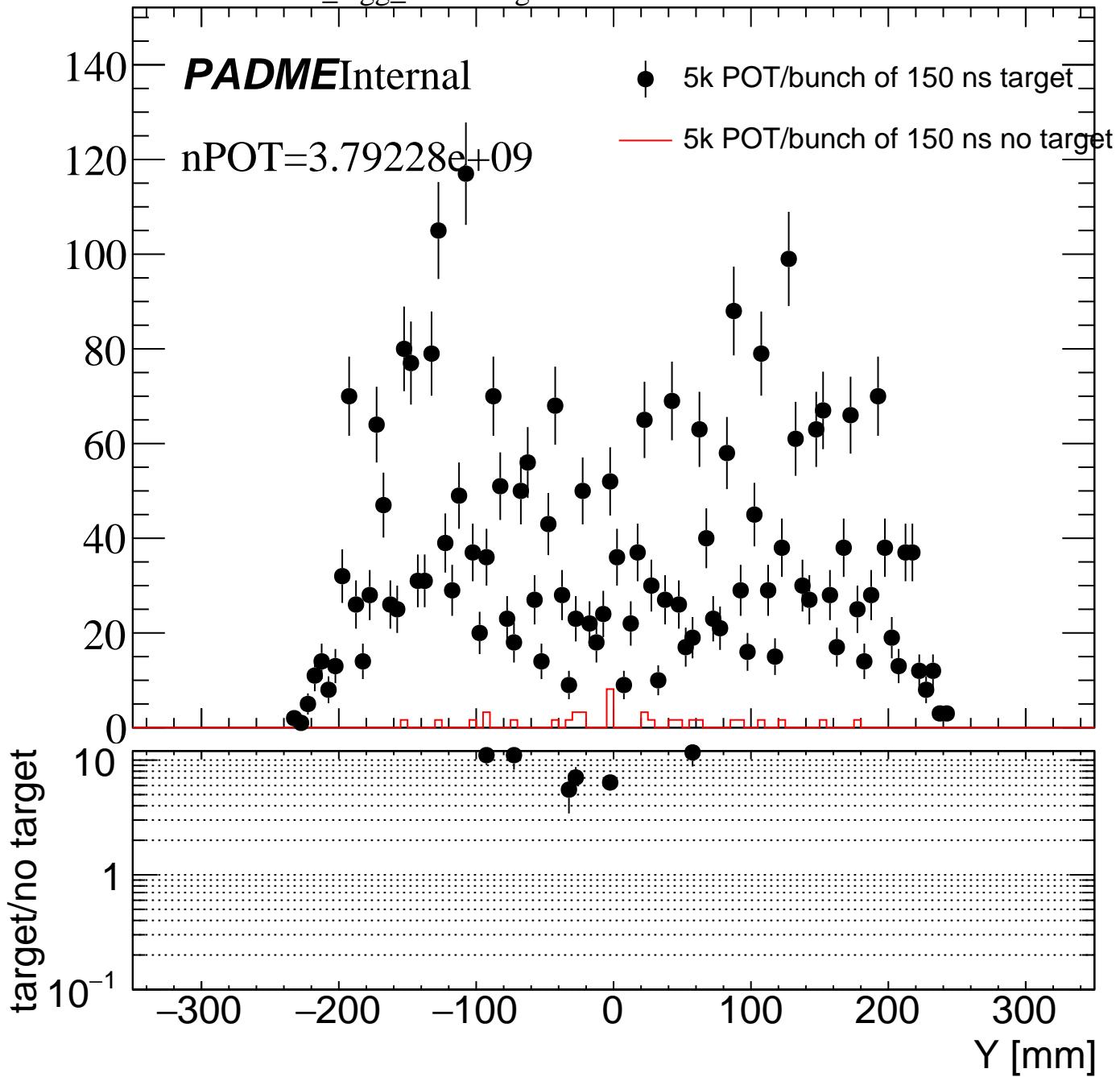




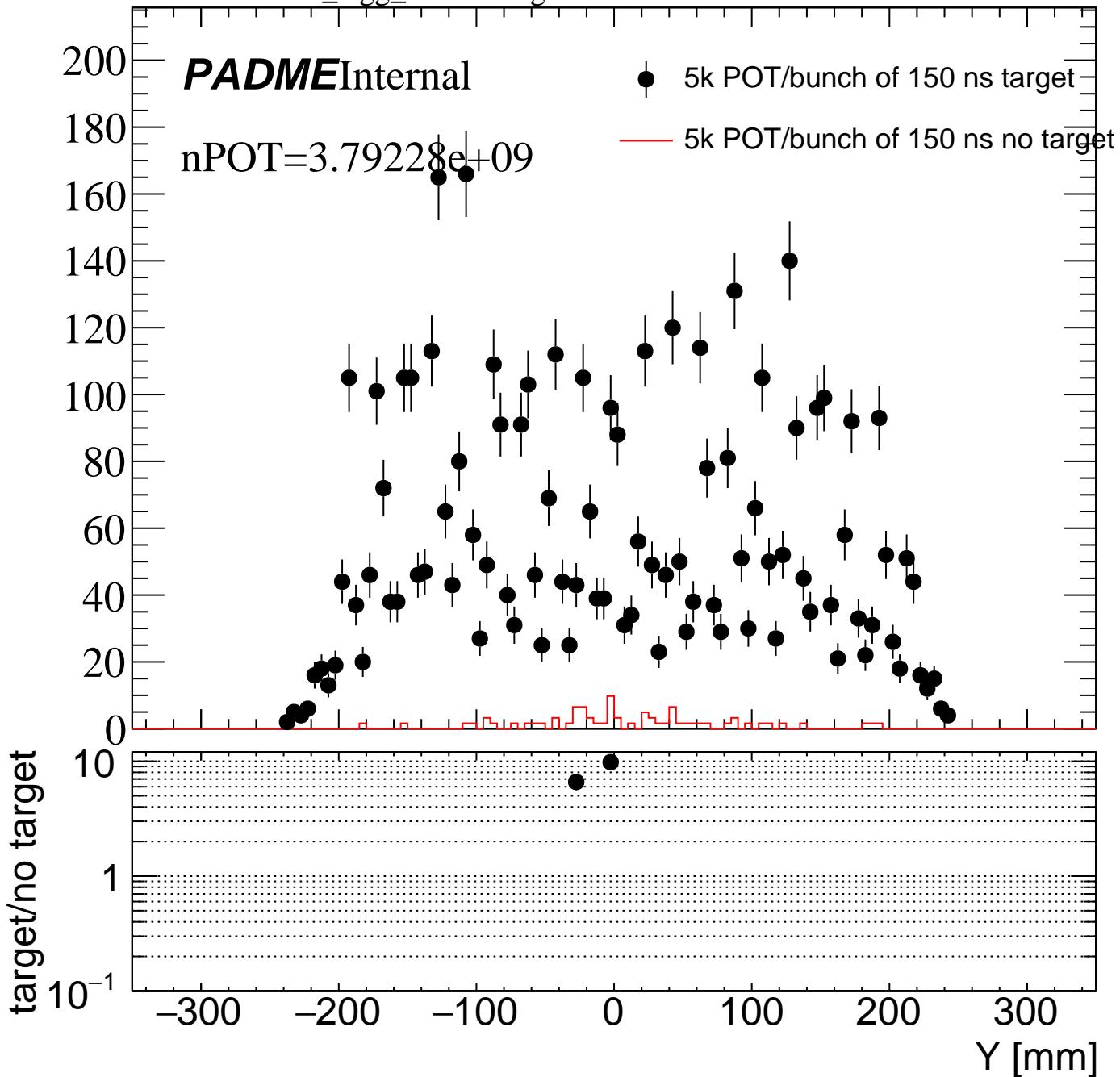
# ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeak



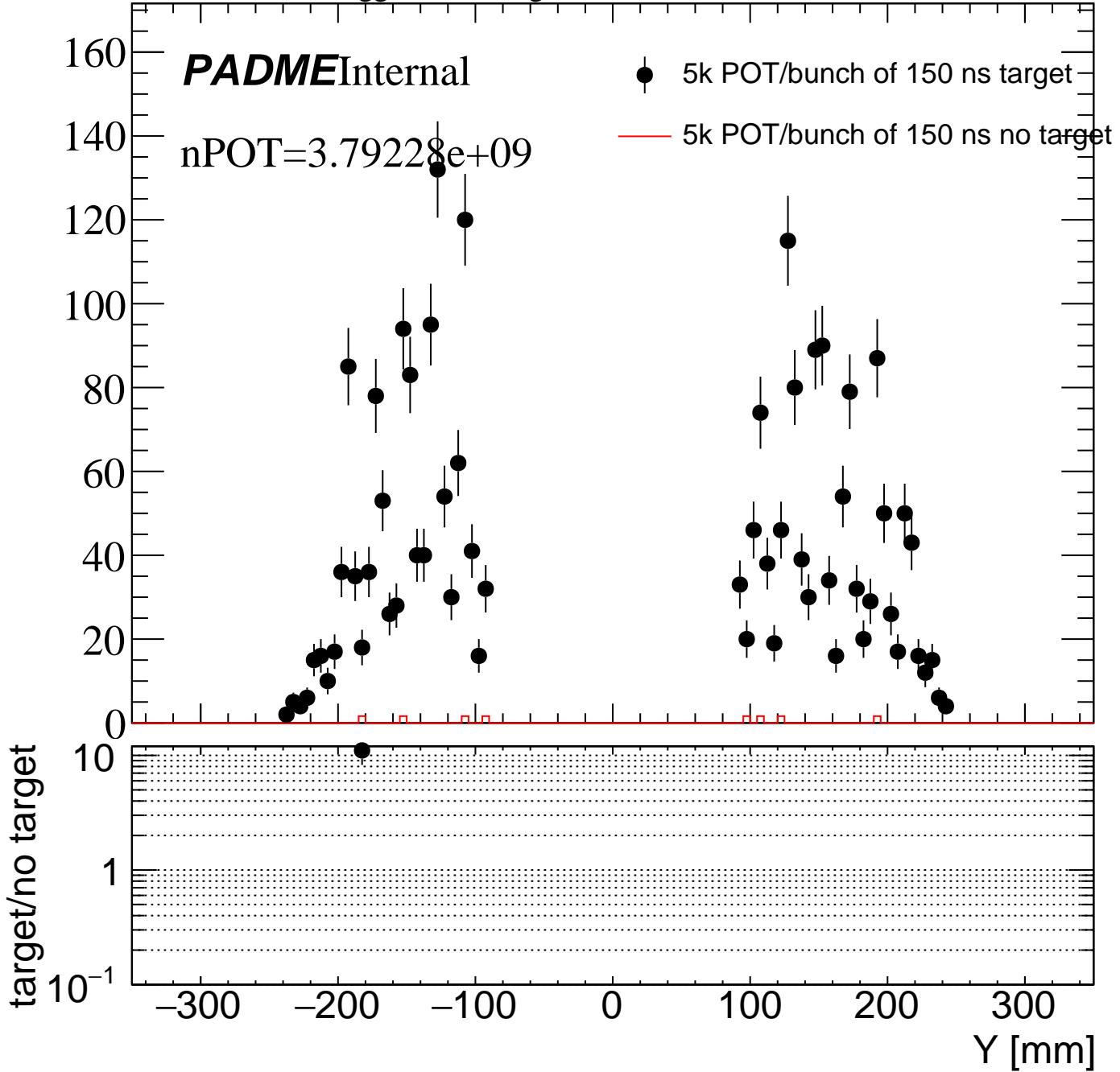
ECAL\_Ygg\_10ns5DegreeDeltaThetaUnderPeak



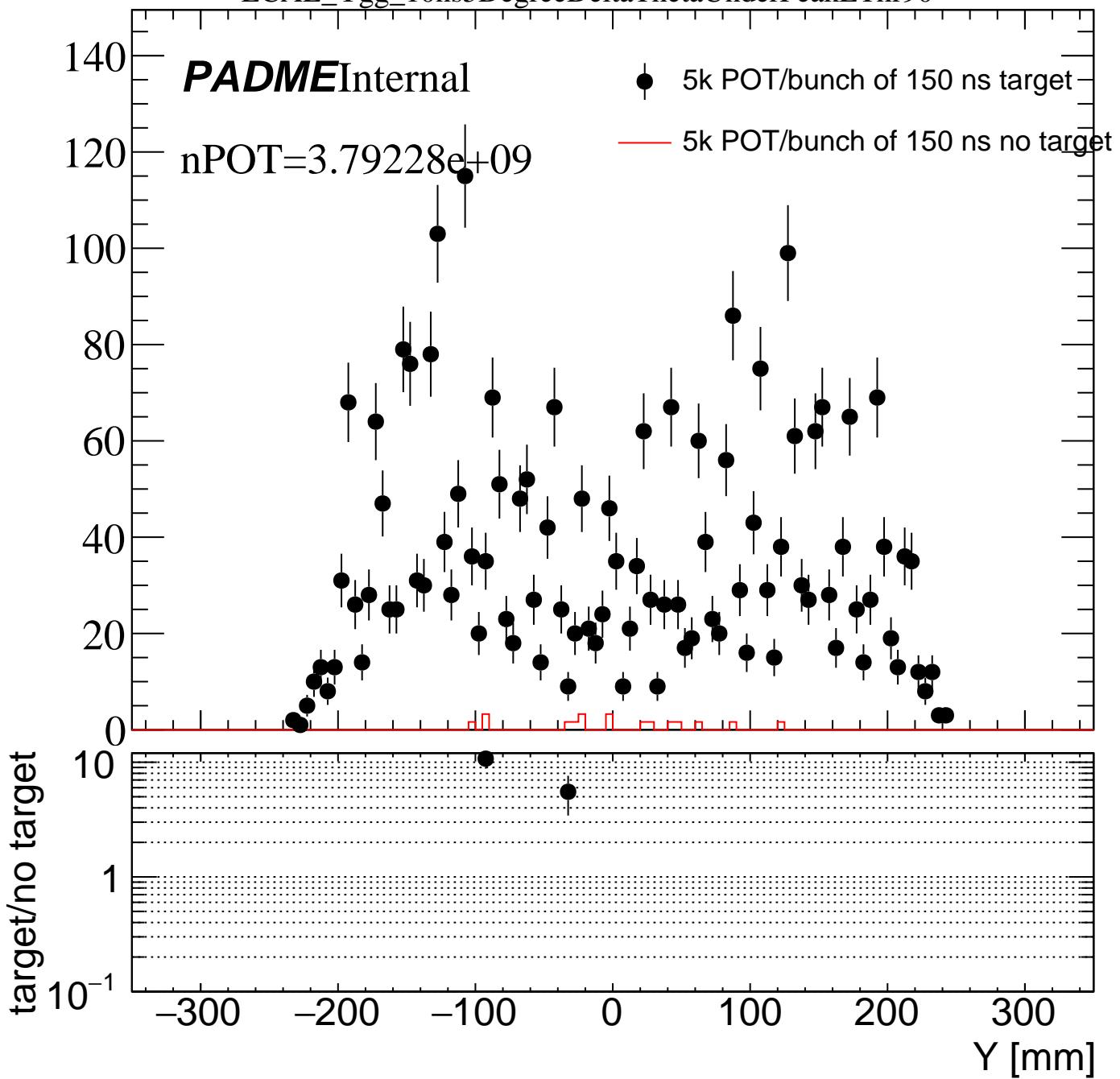
ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeakEThr90

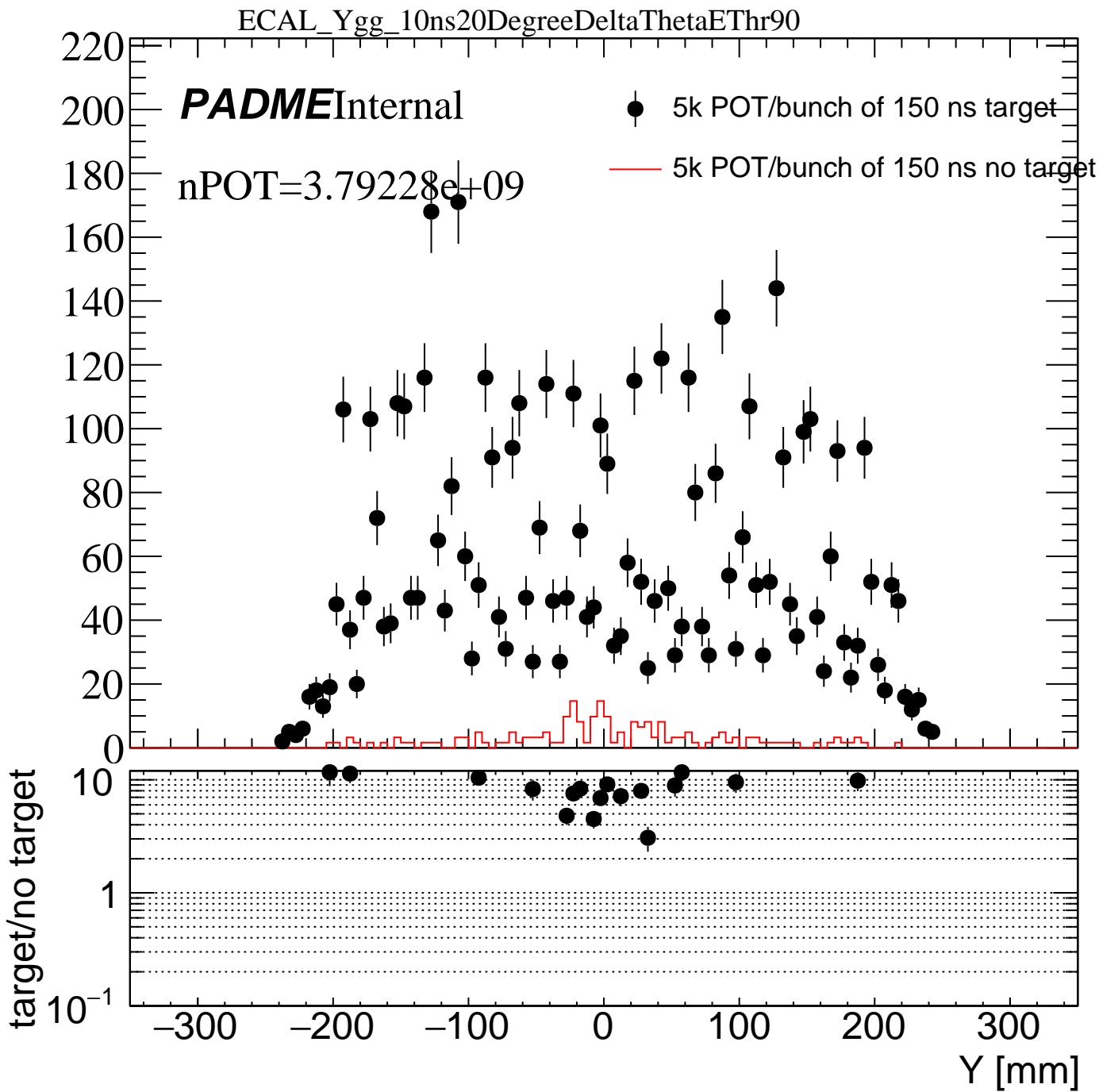


ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY

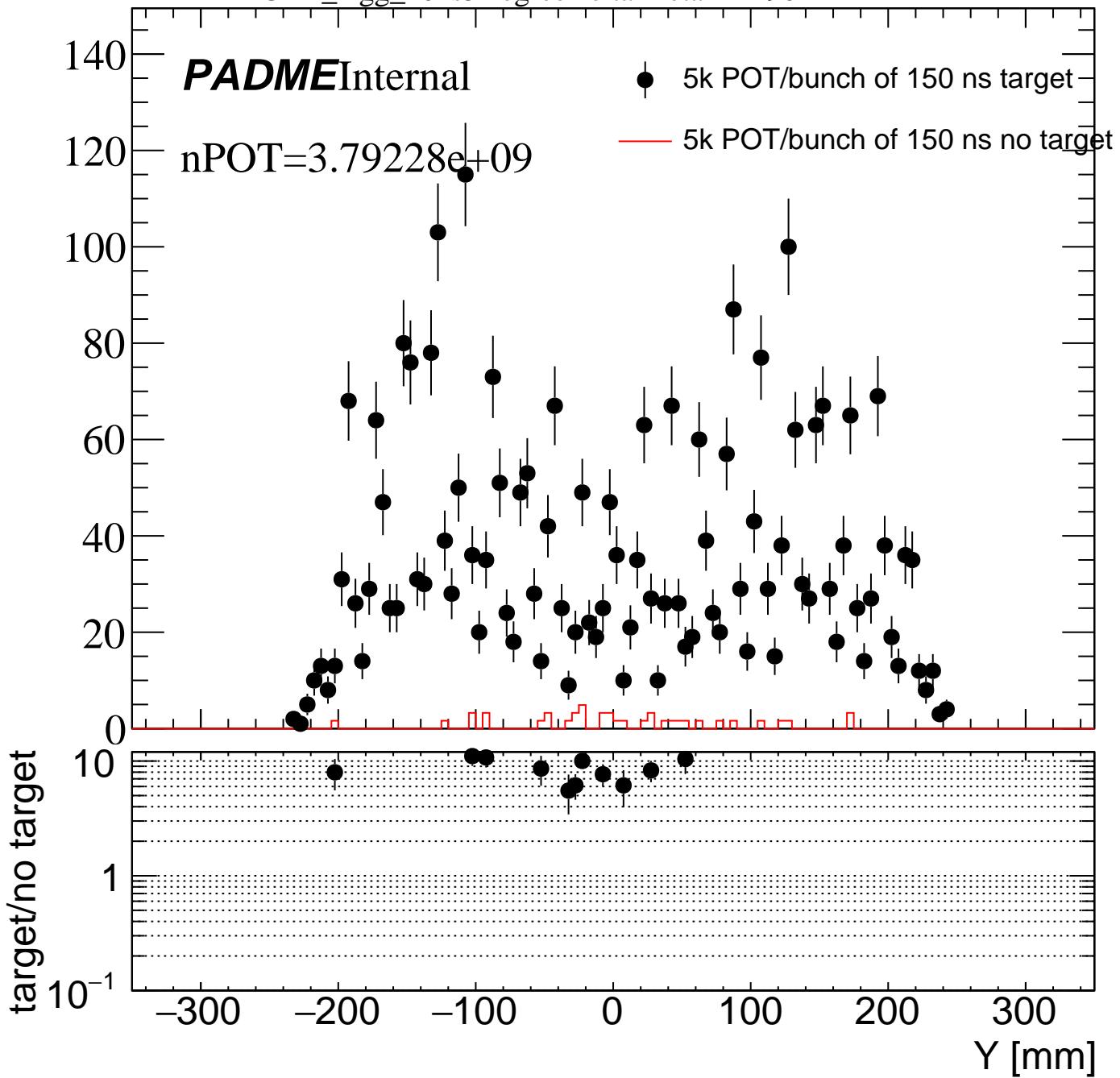


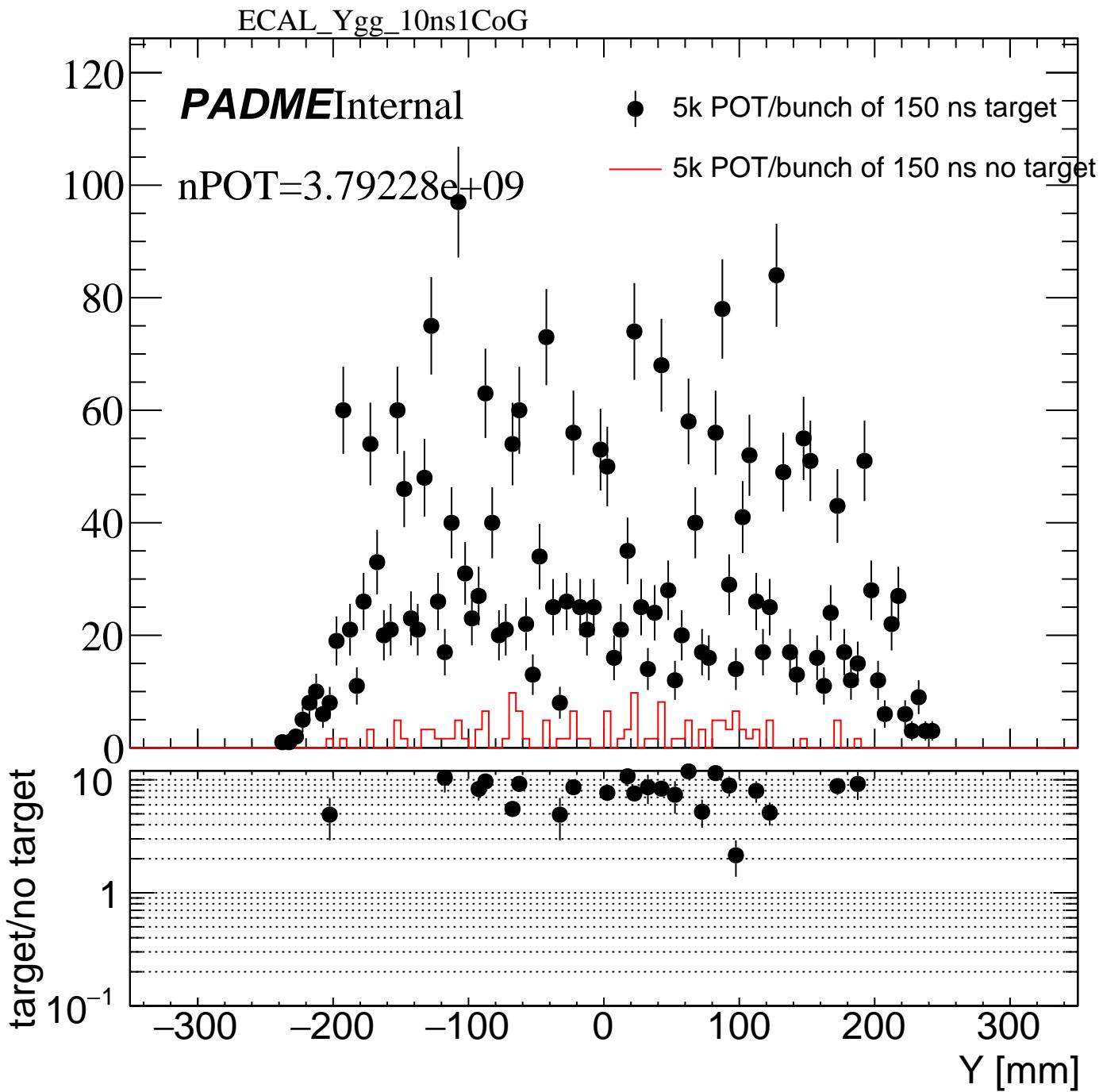
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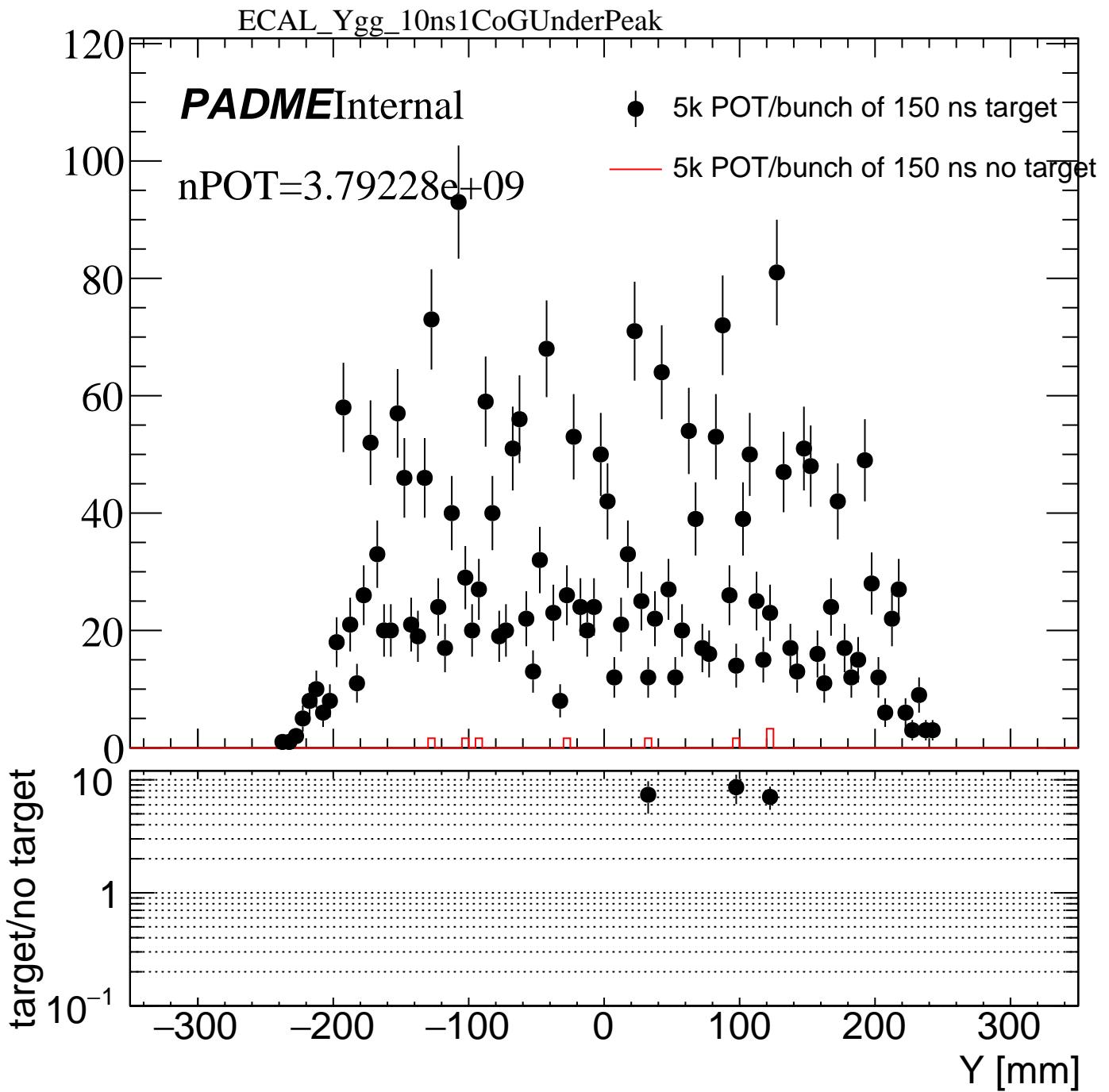


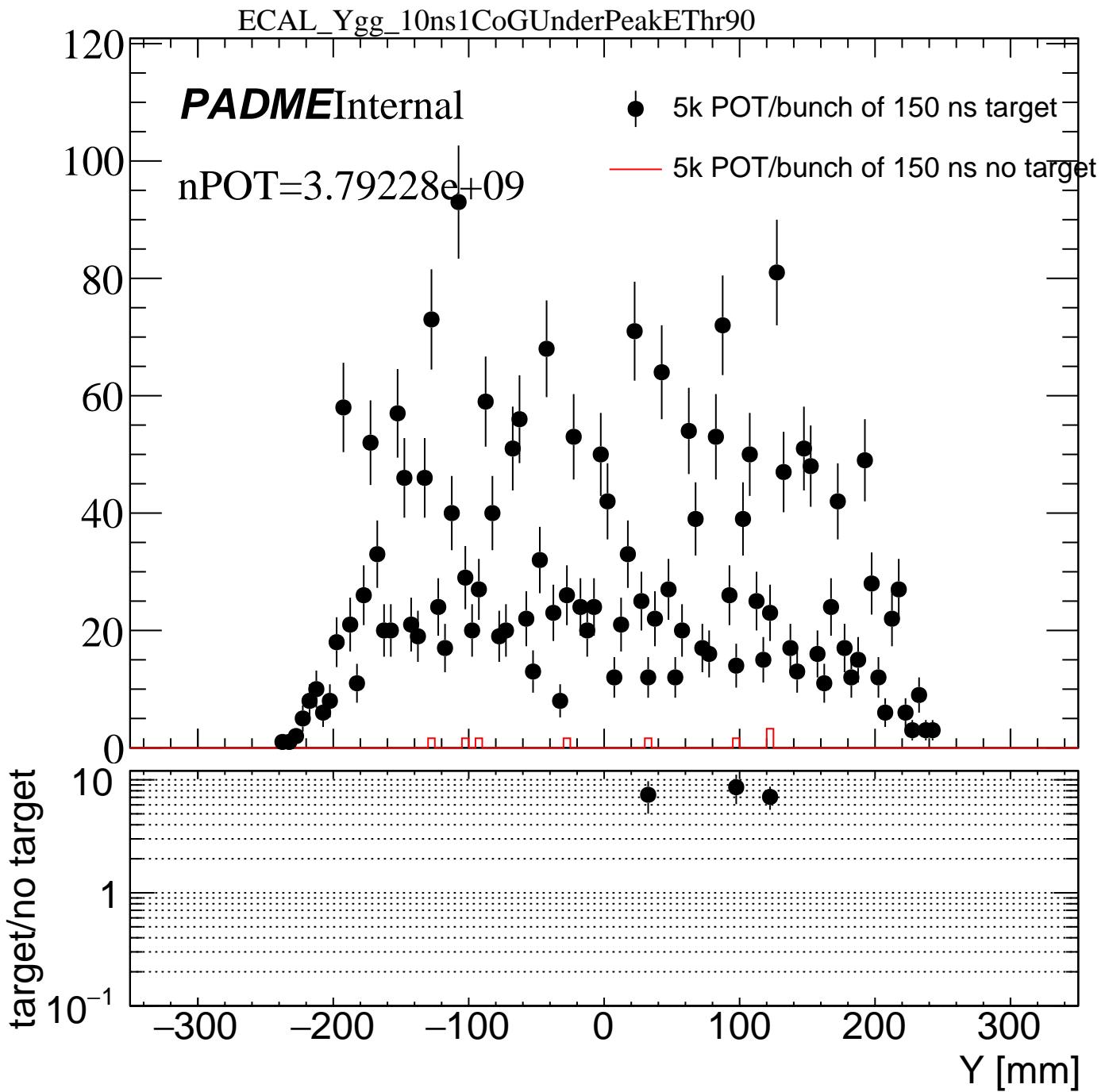


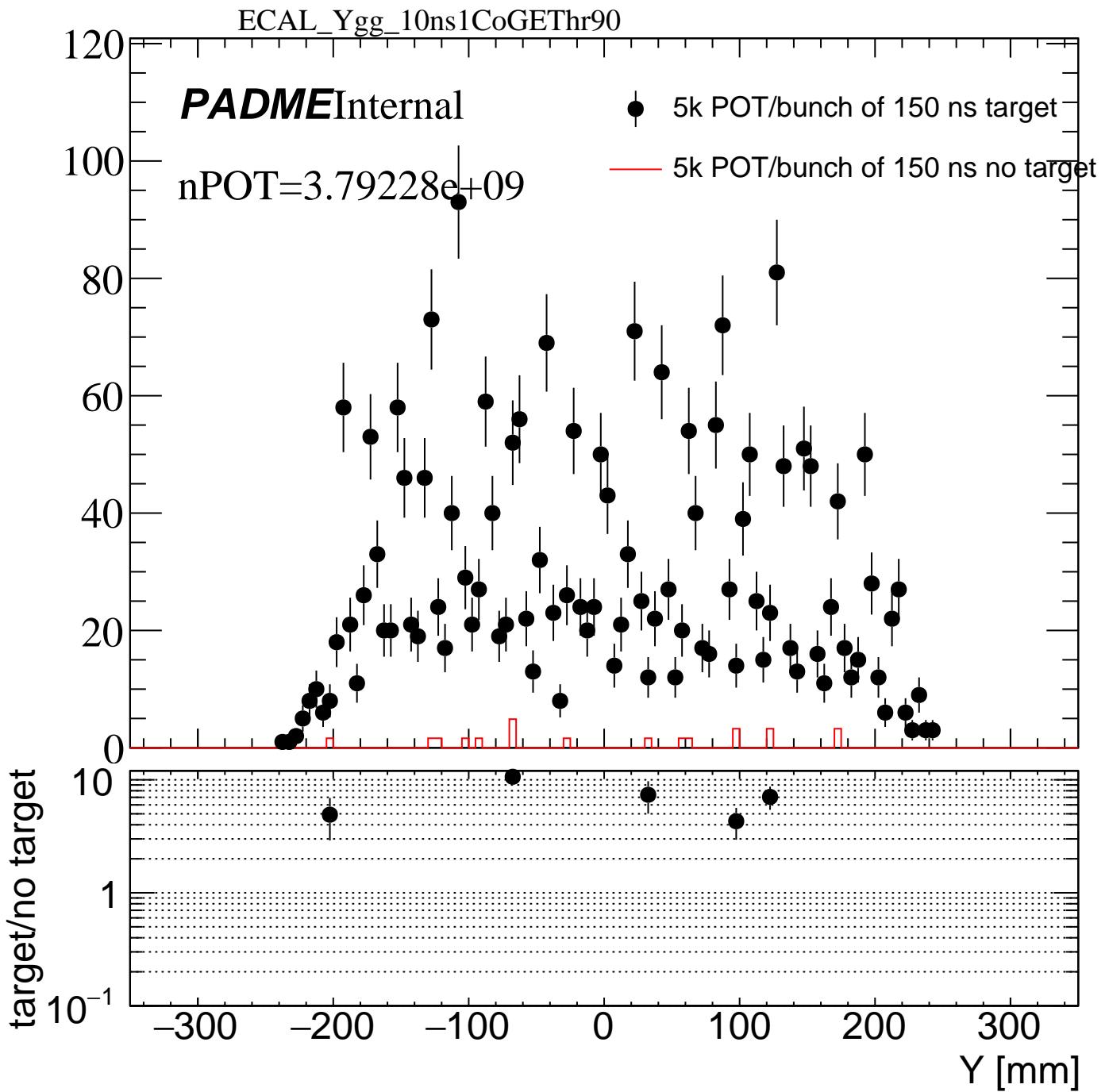
ECAL\_Ygg\_10ns5DegreeDeltaThetaEThr90

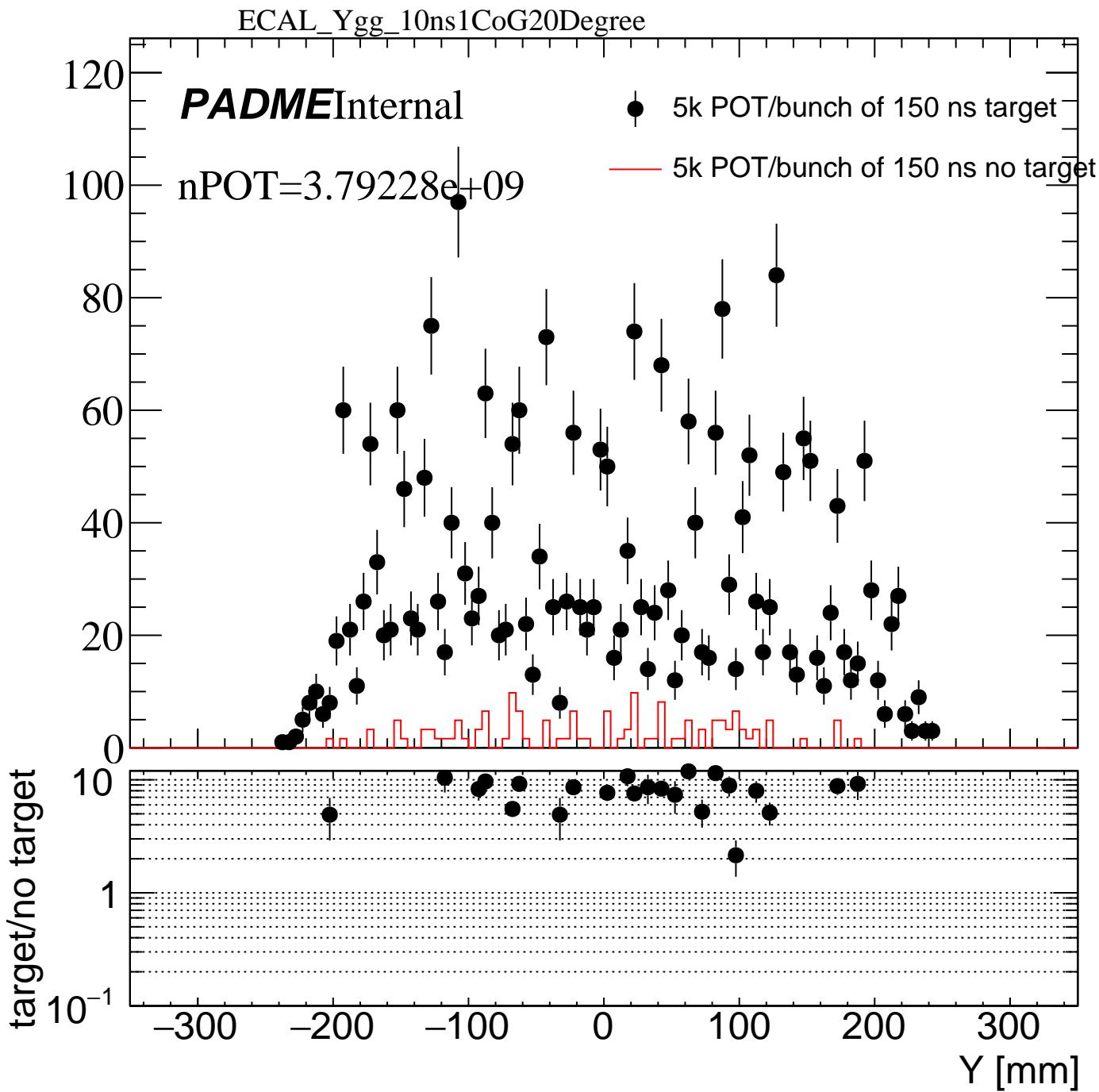


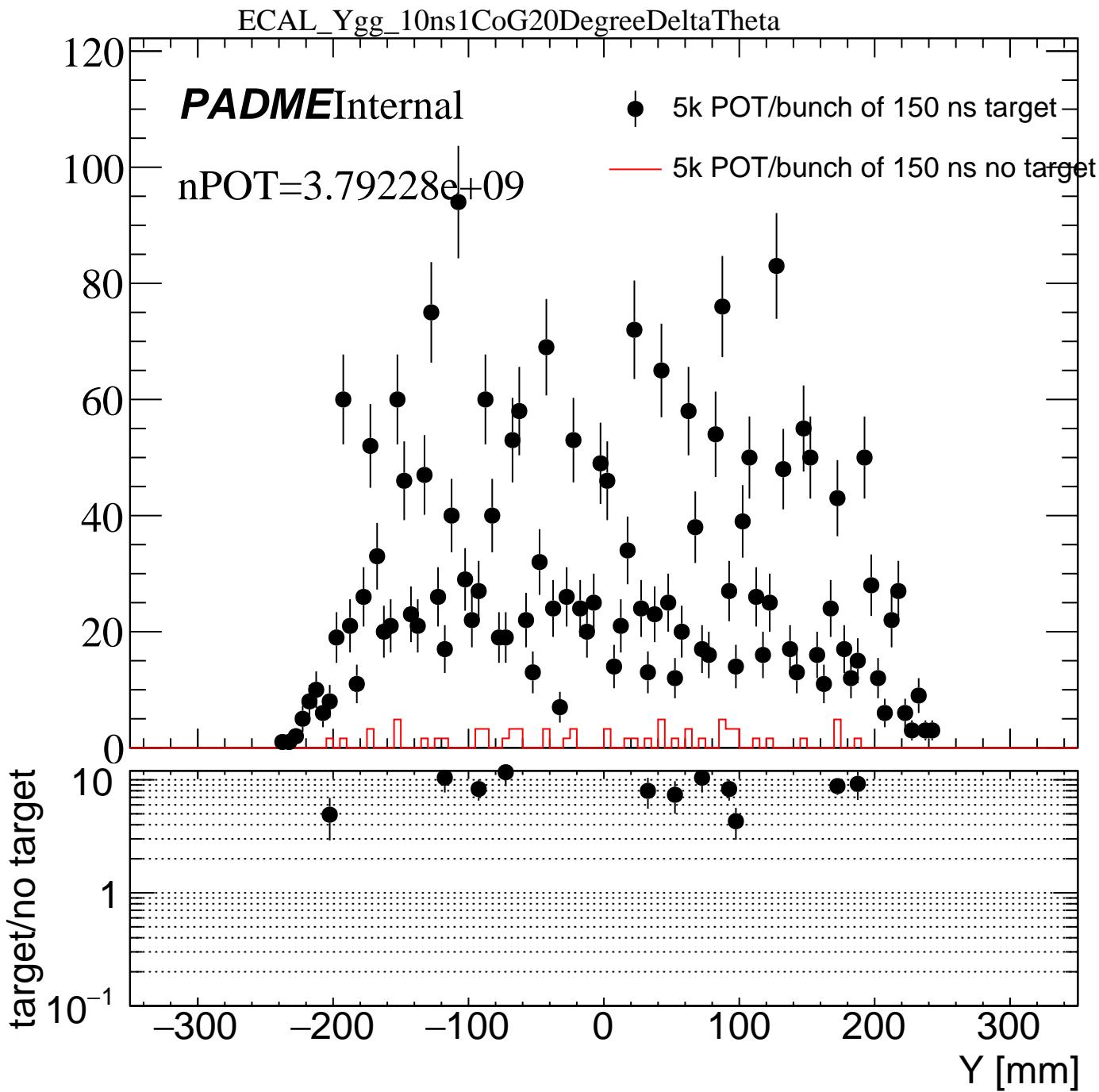


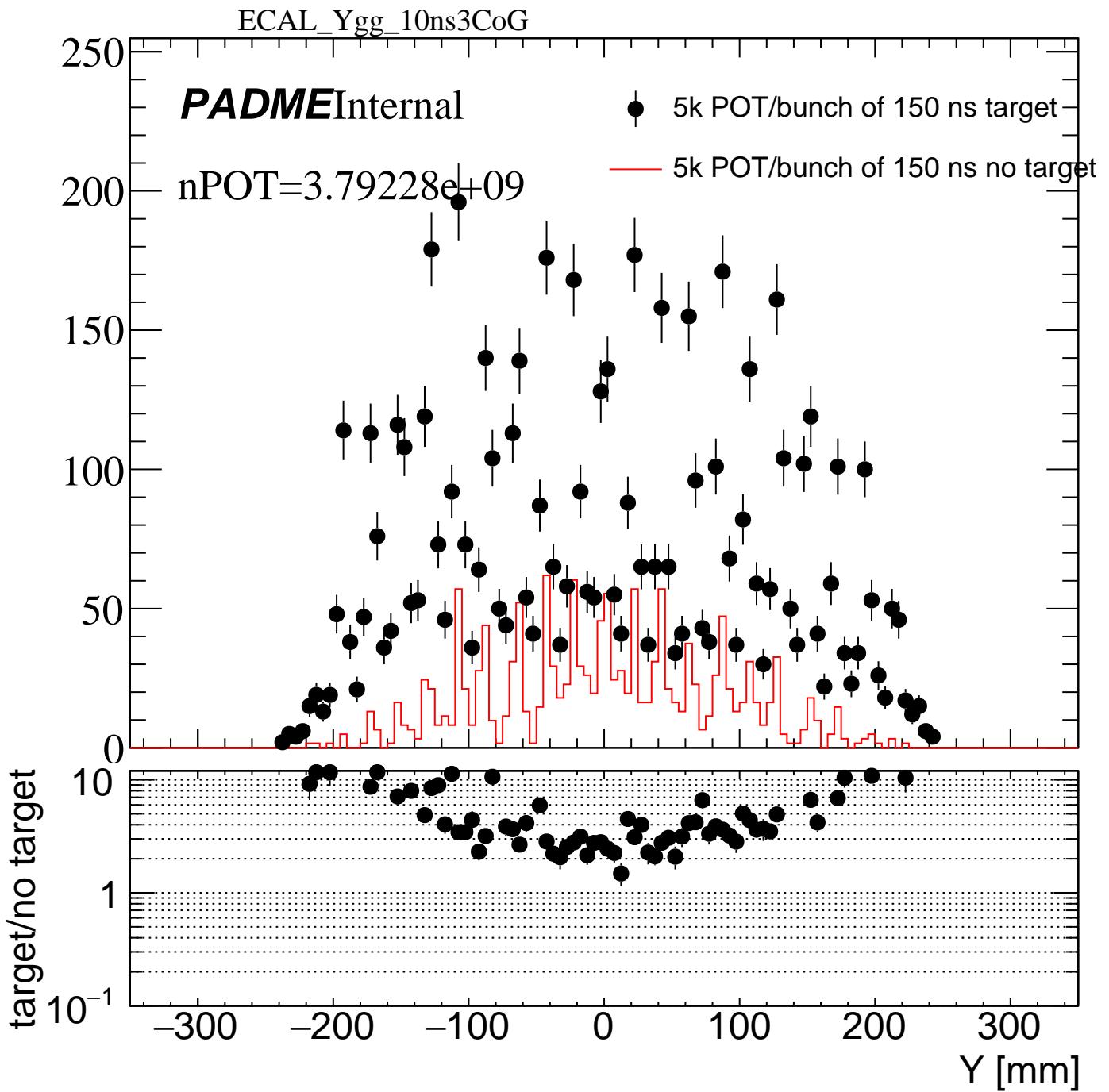




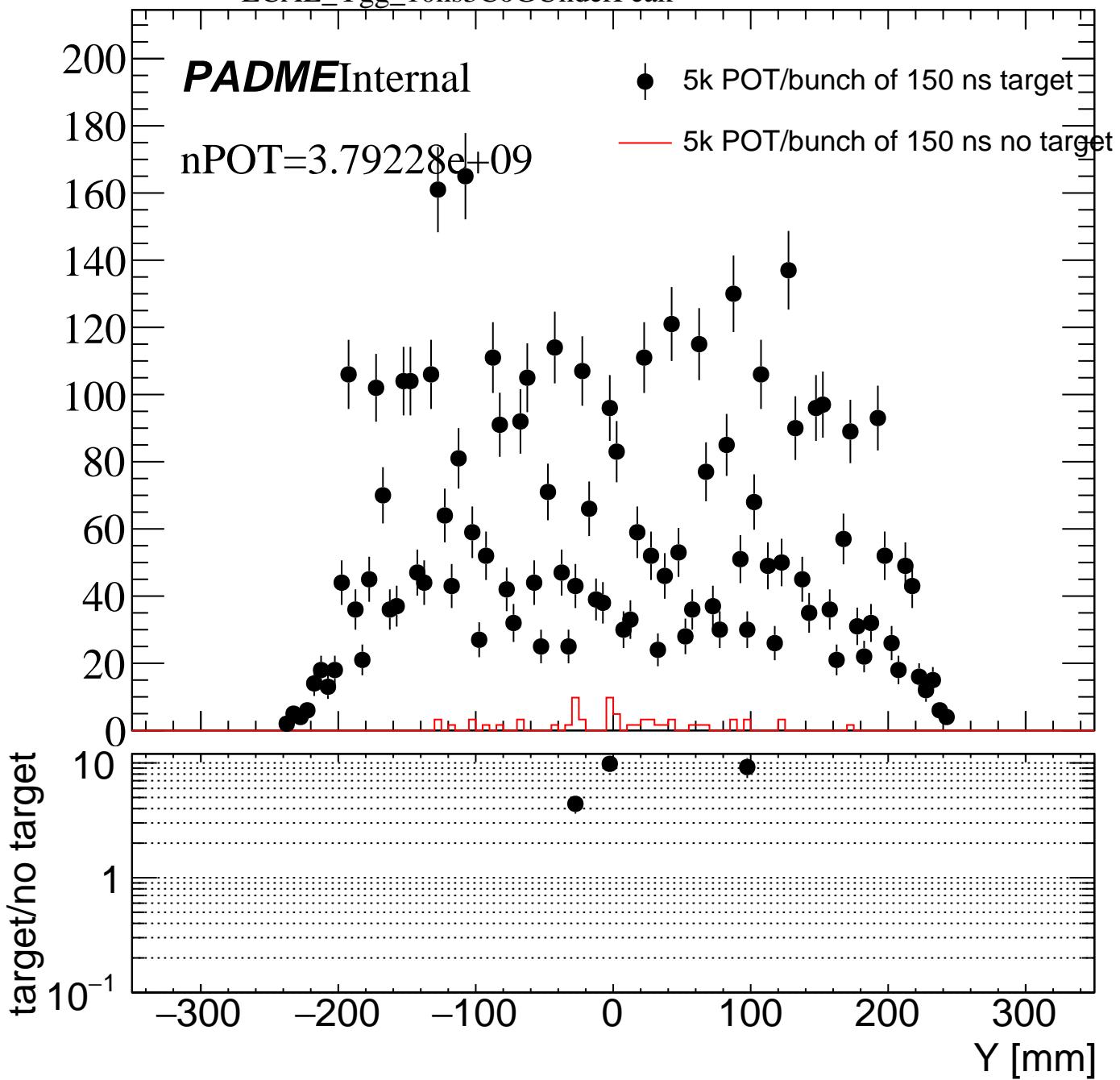




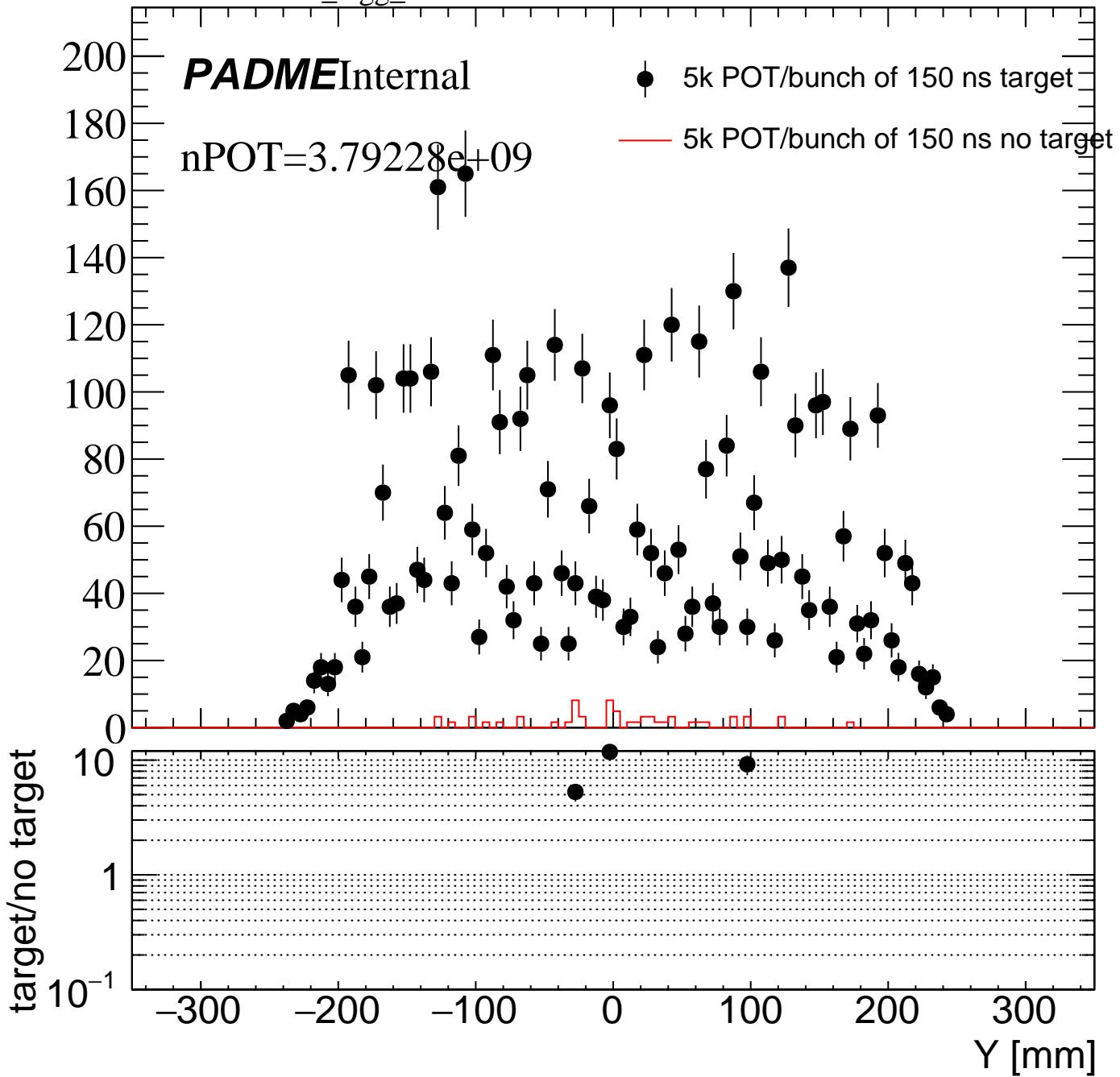




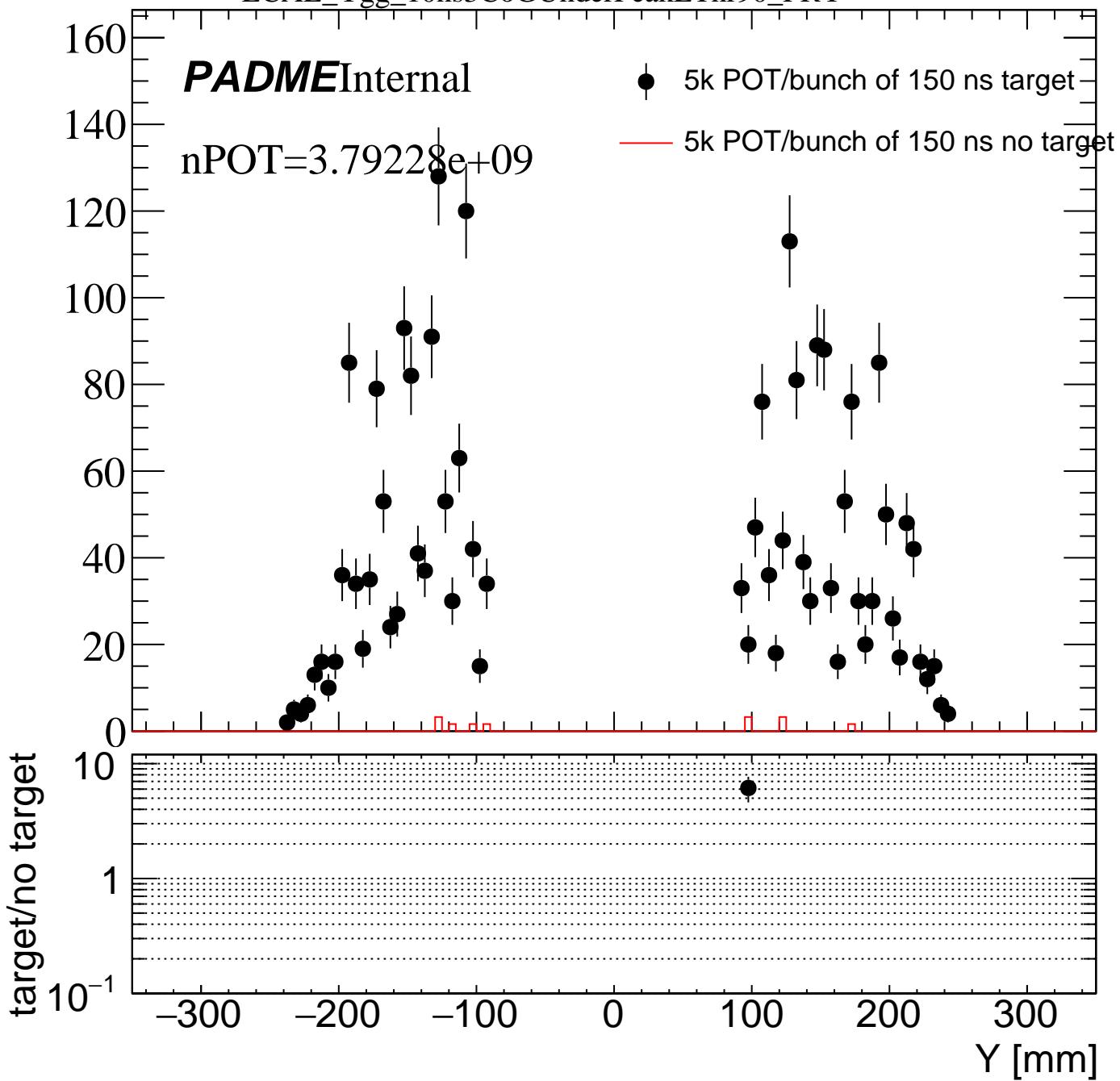
# ECAL\_Ygg\_10ns3CoGUnderPeak



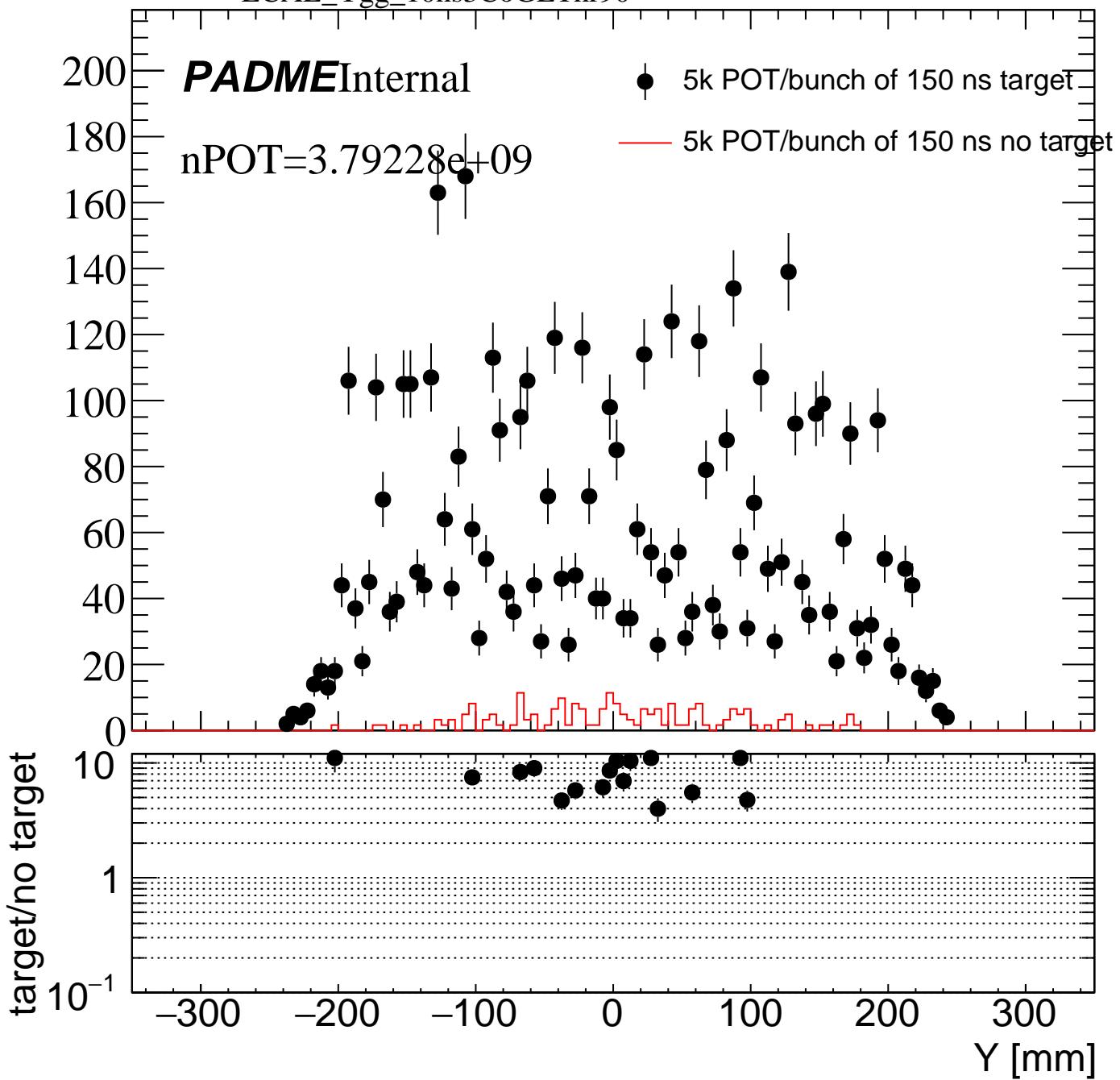
ECAL\_Ygg\_10ns3CoGUnderPeakEThr90

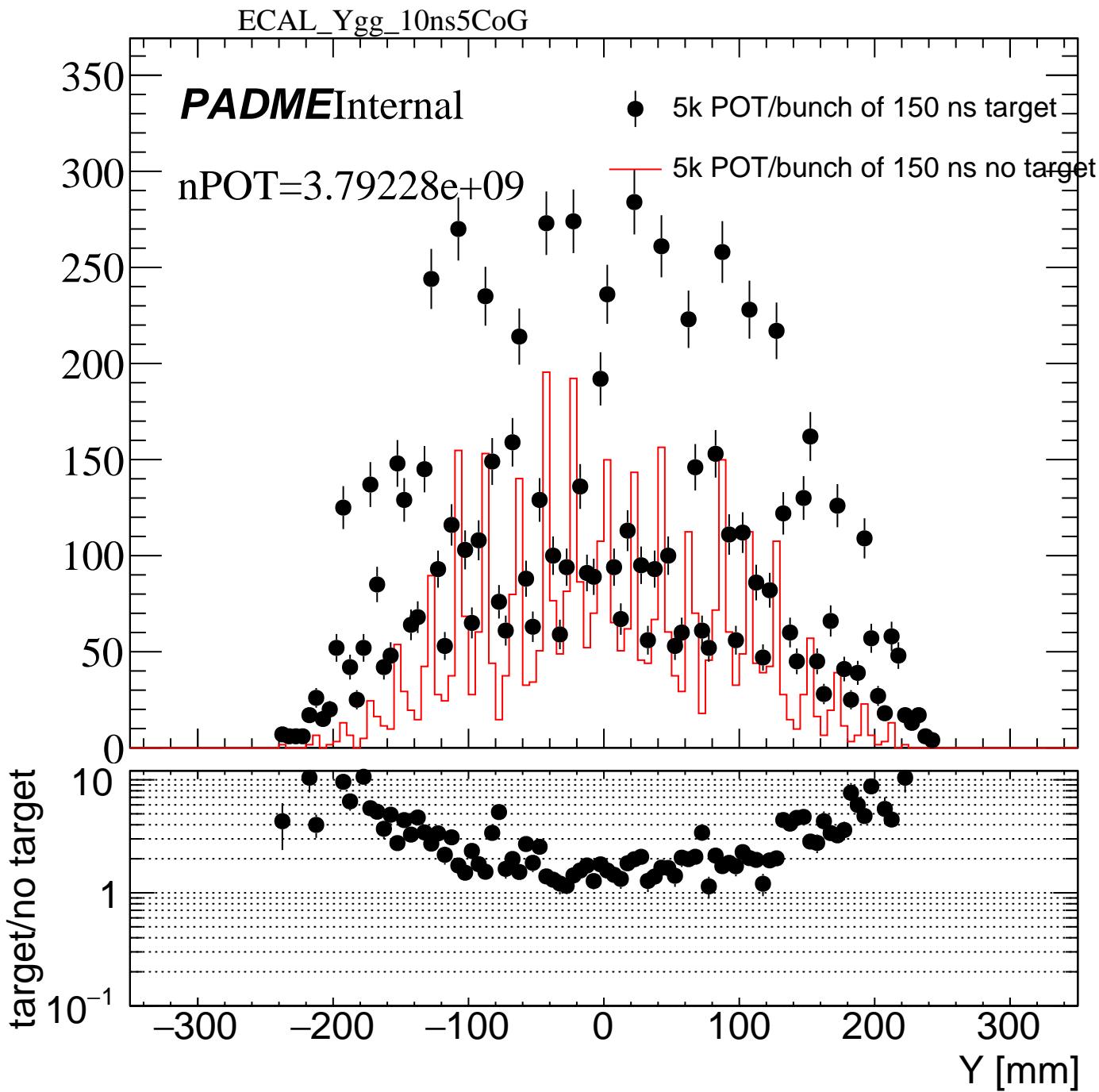


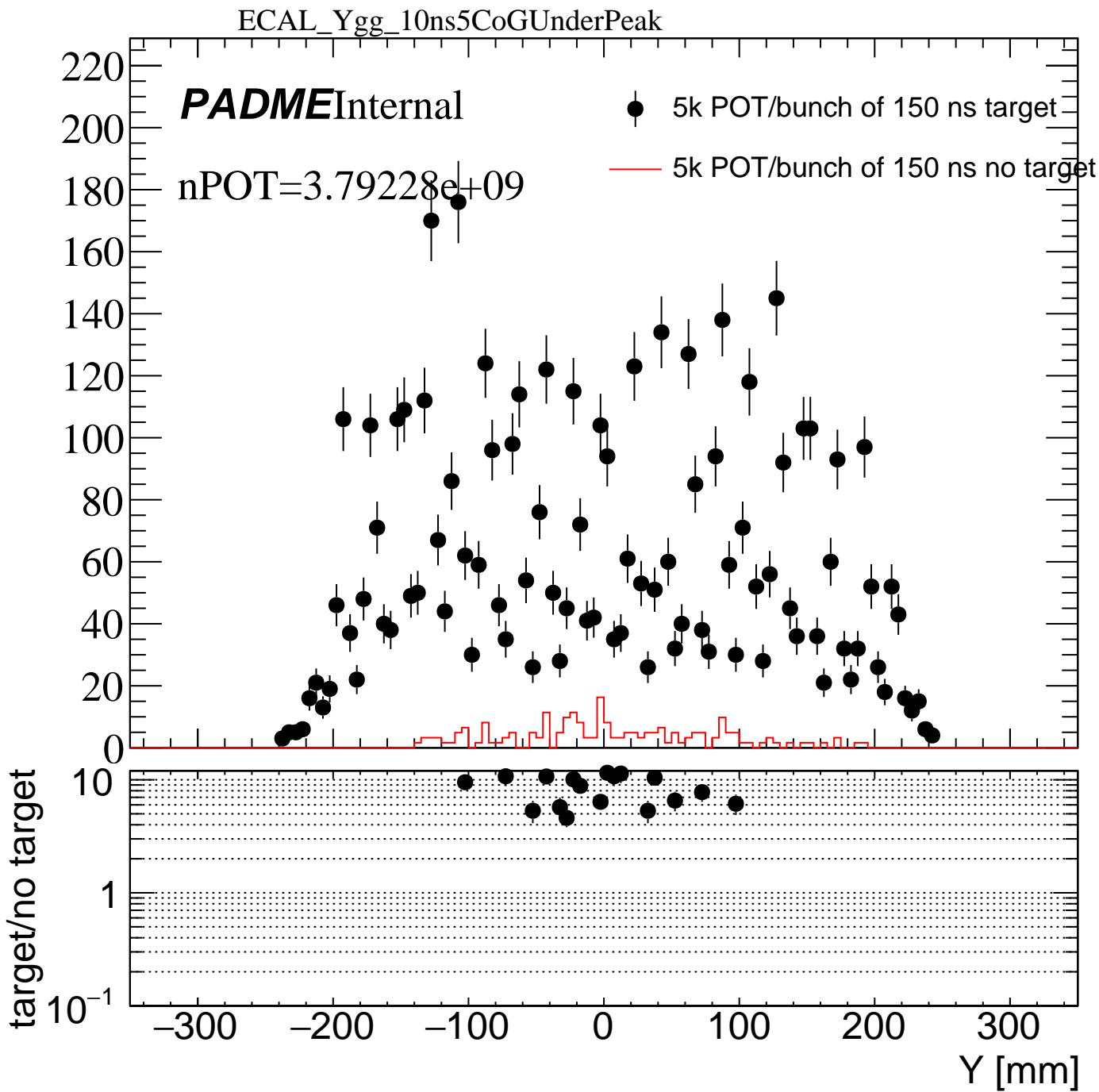
ECAL\_Ygg\_10ns3CoGUnderPeakEThr90\_FRY



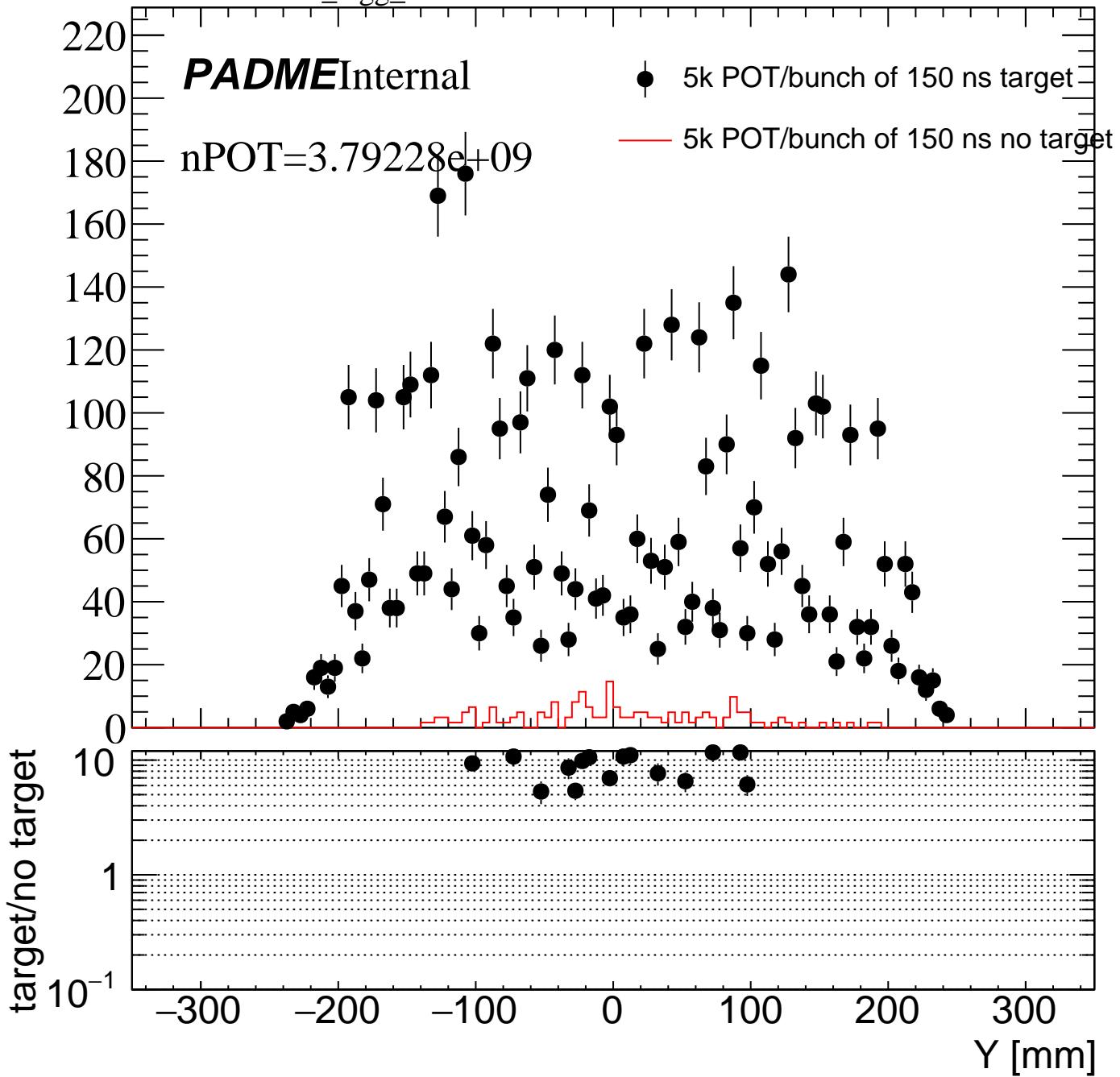
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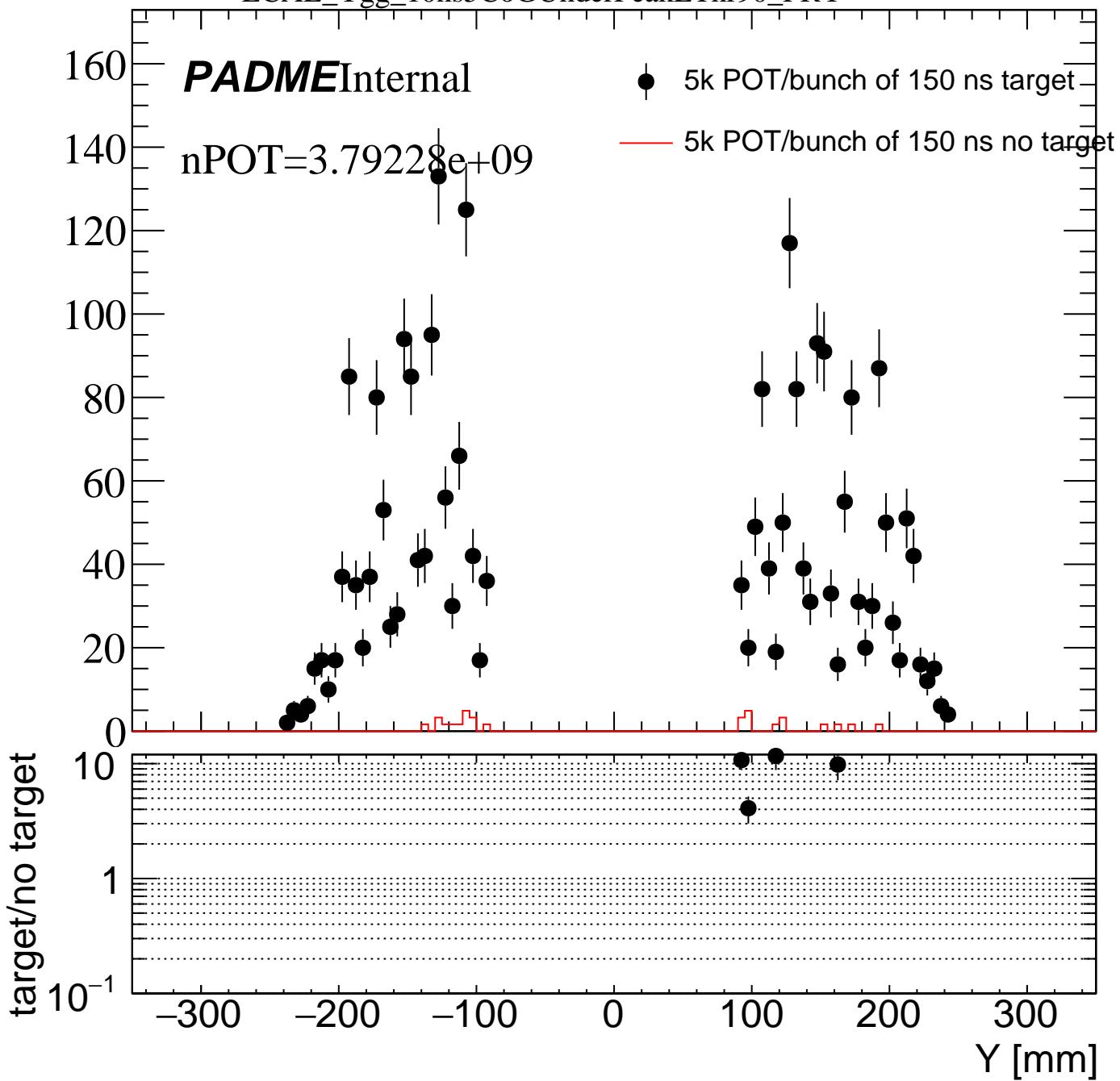




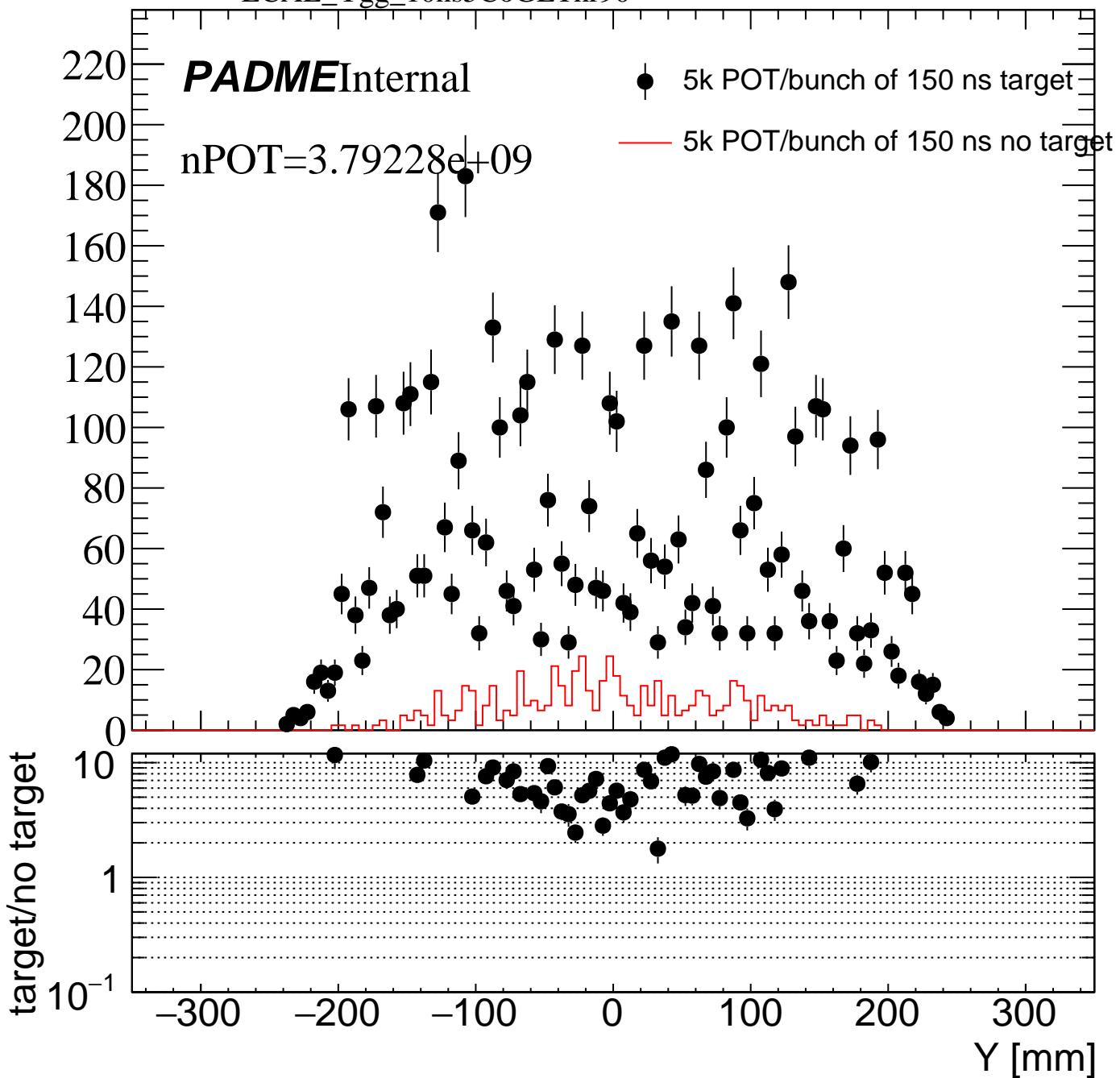
ECAL\_Ygg\_10ns5CoGUnderPeakETHr90

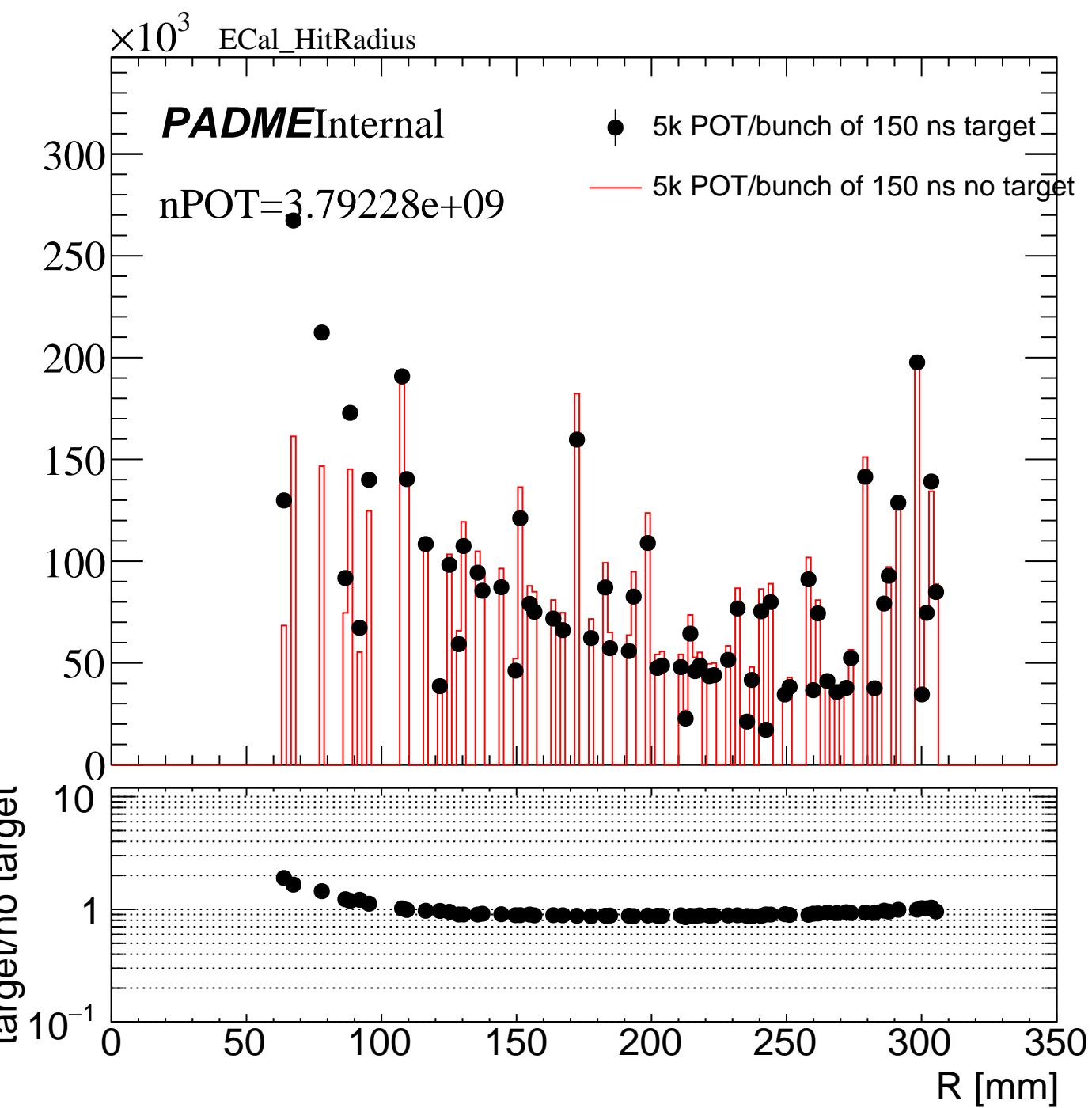


ECAL\_Ygg\_10ns5CoGUnderPeakEThr90\_FRY

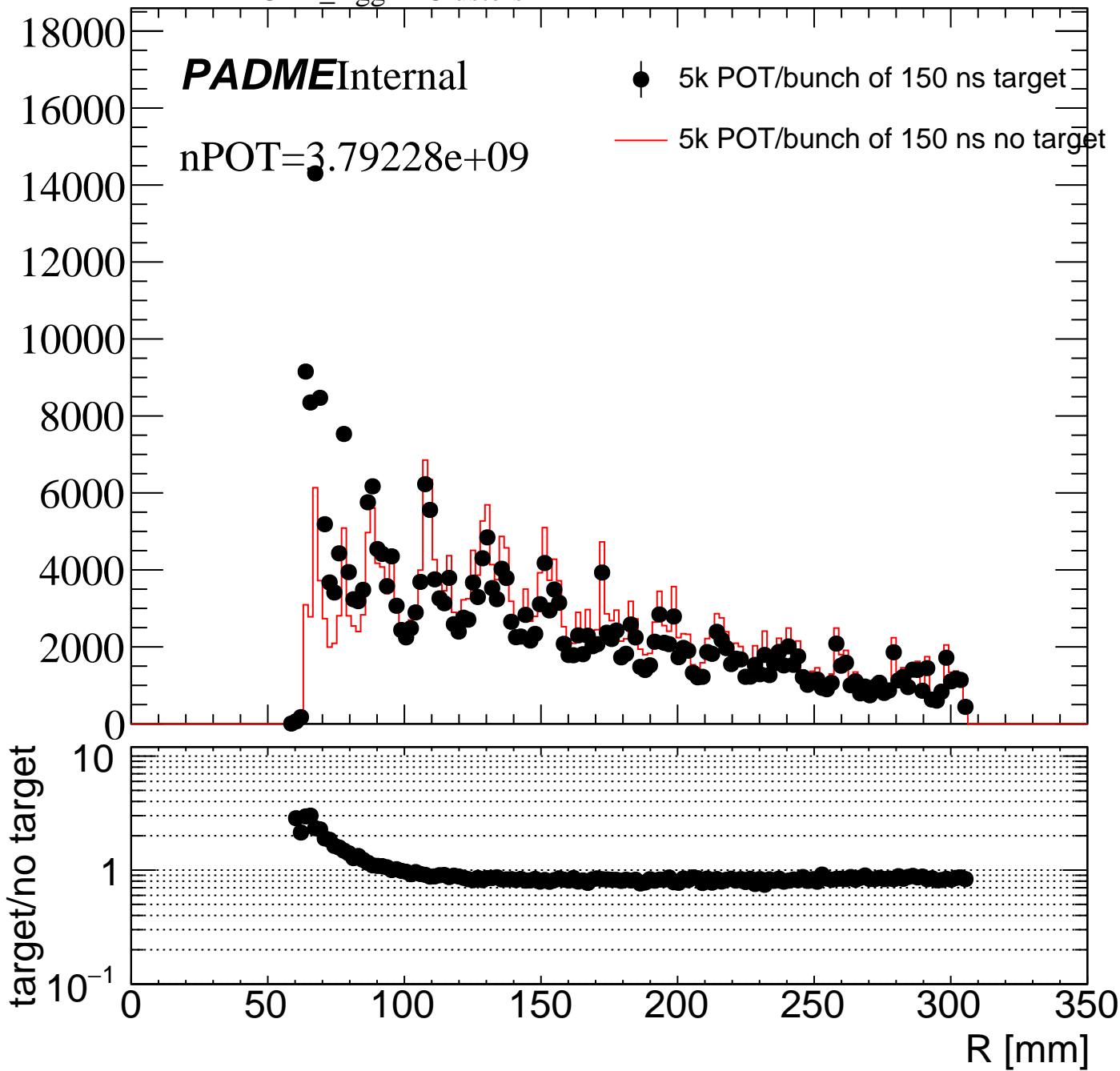


ECAL\_Ygg\_10ns5CoGEThr90





# ECAL\_RggAllClusters

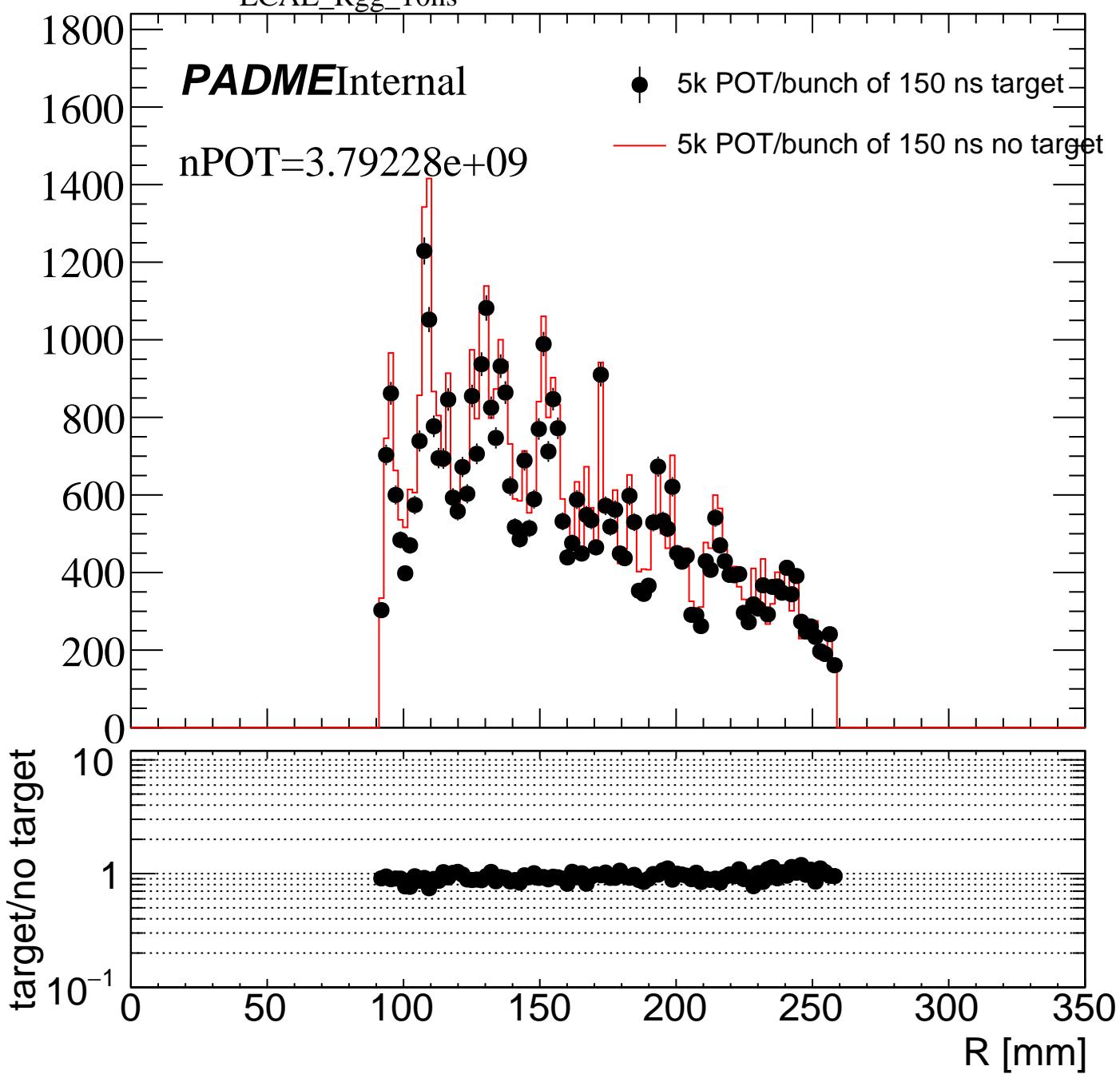


ECAL\_Rgg\_10ns

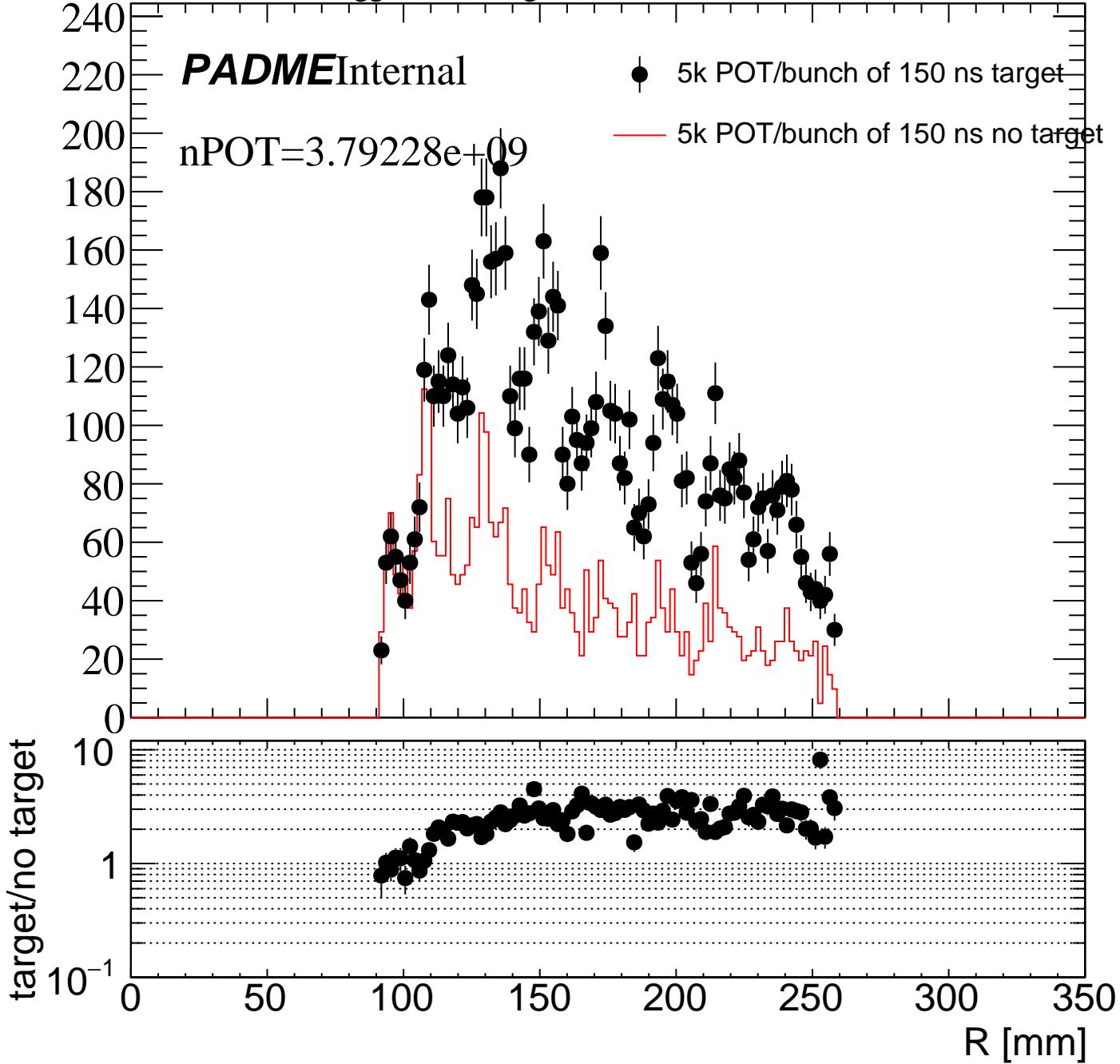
**PADME** Internal

nPOT=3.79228e+09

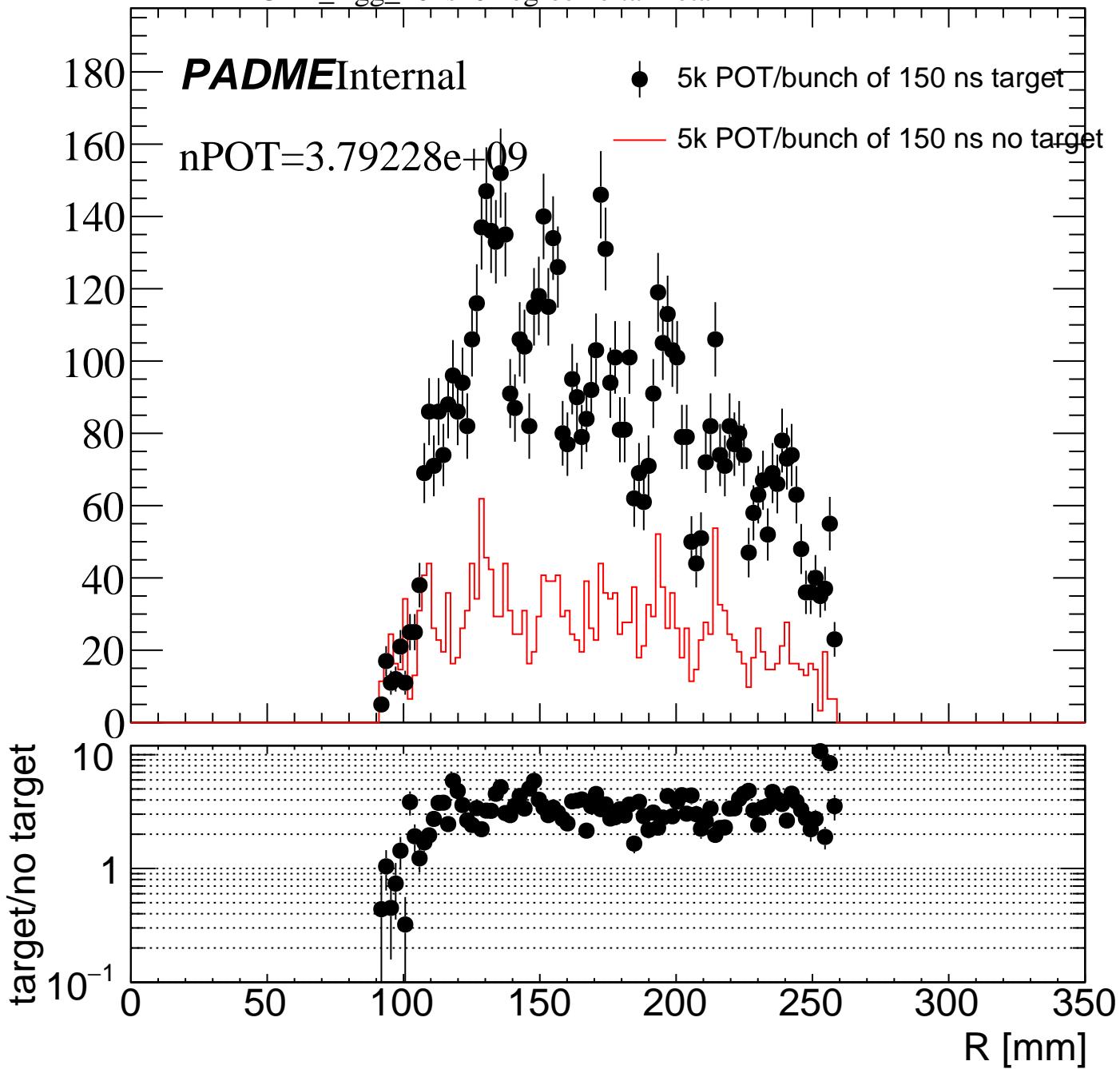
● 5k POT/bunch of 150 ns target  
— 5k POT/bunch of 150 ns no target

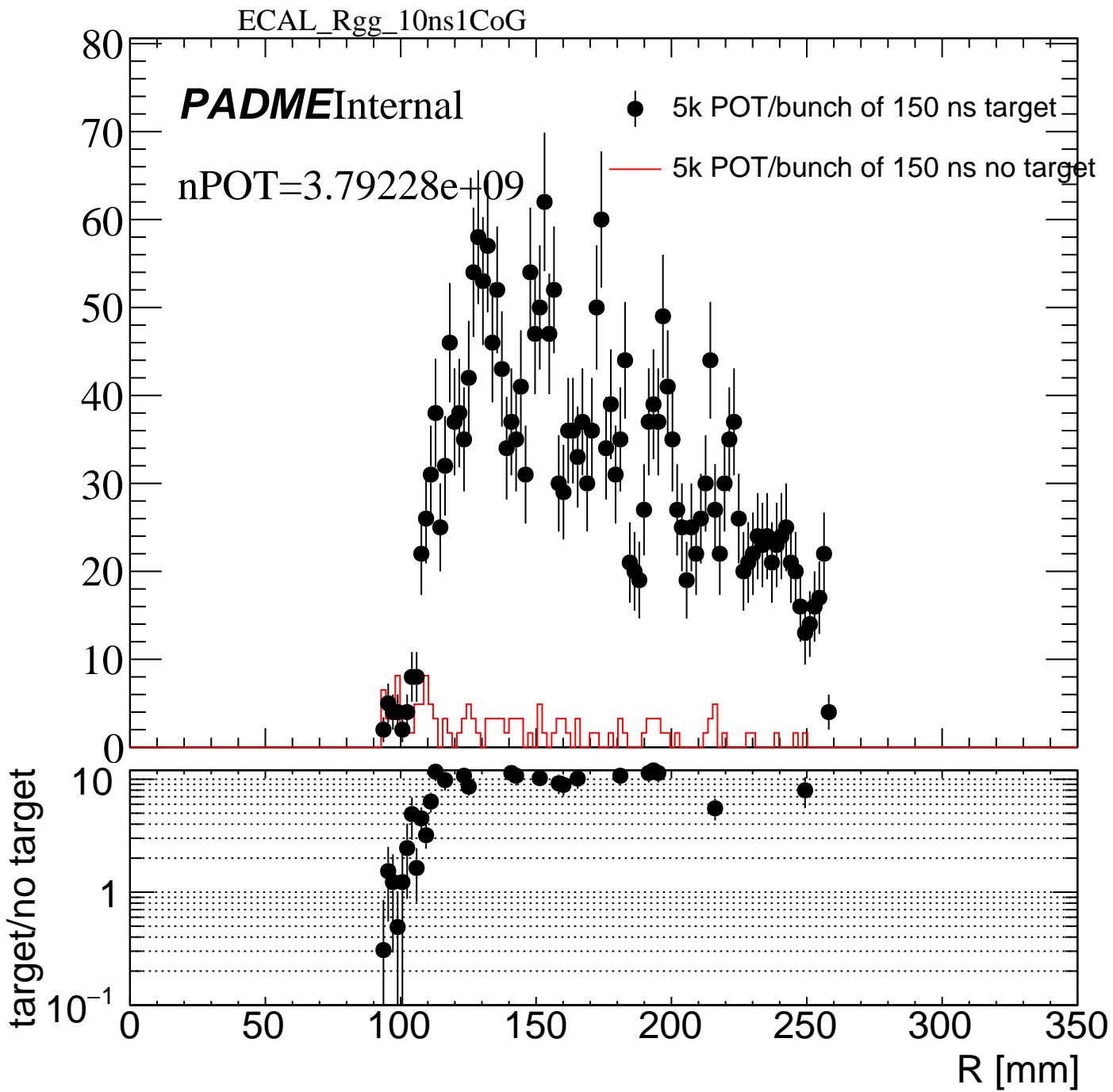


ECAL\_Rgg\_10ns20Degree

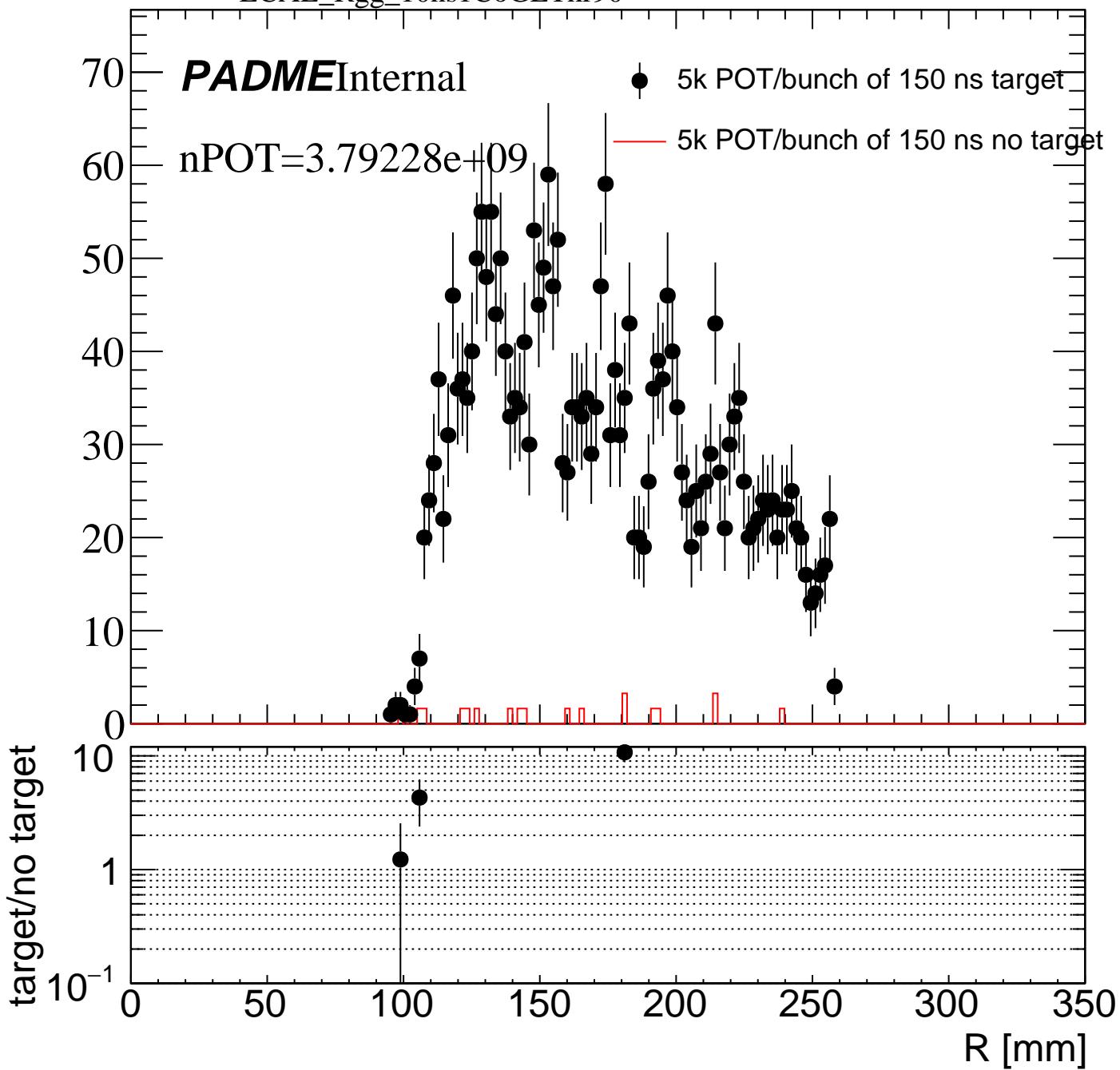


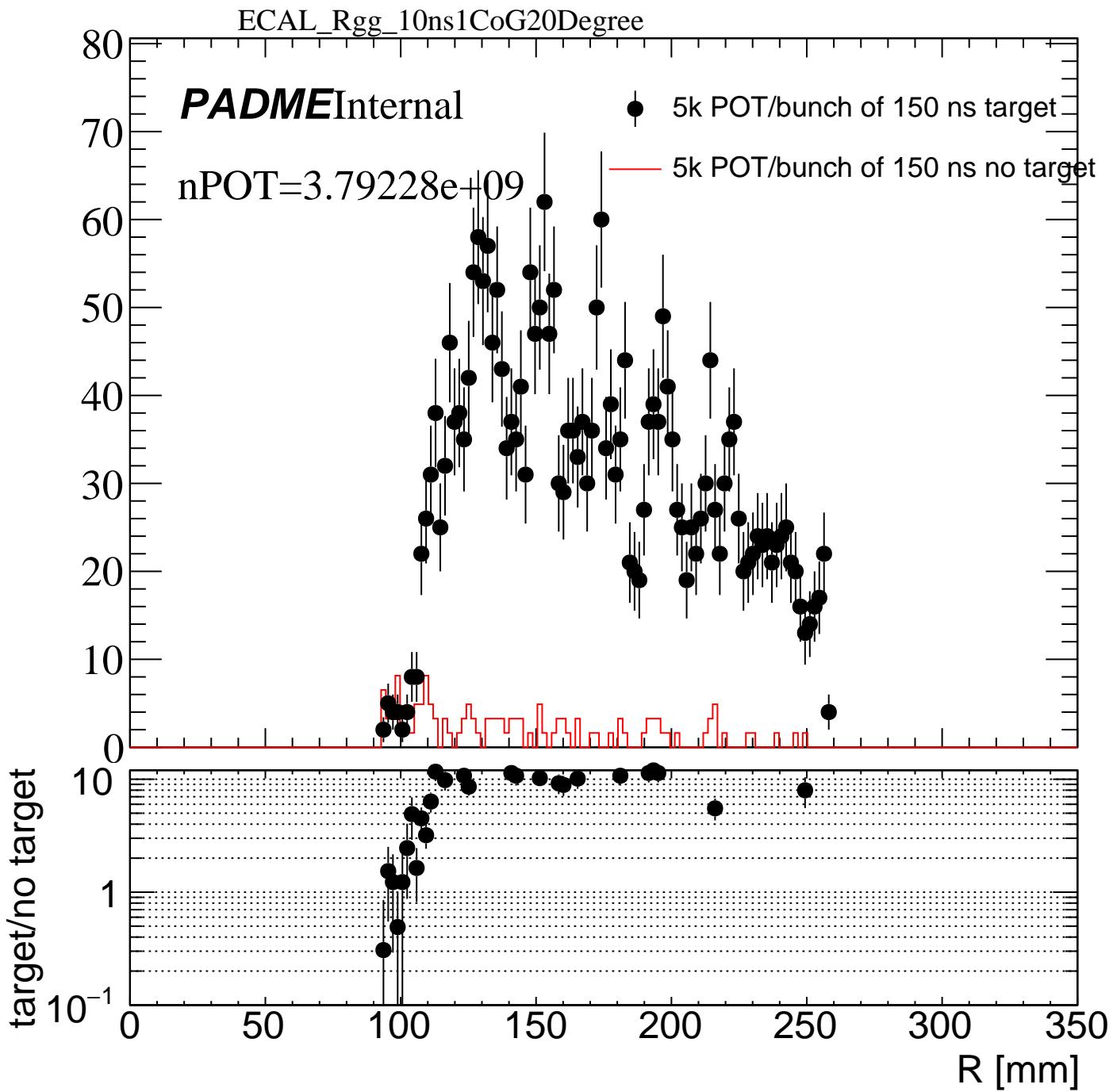
ECAL\_Rgg\_10ns20DegreeDeltaTheta



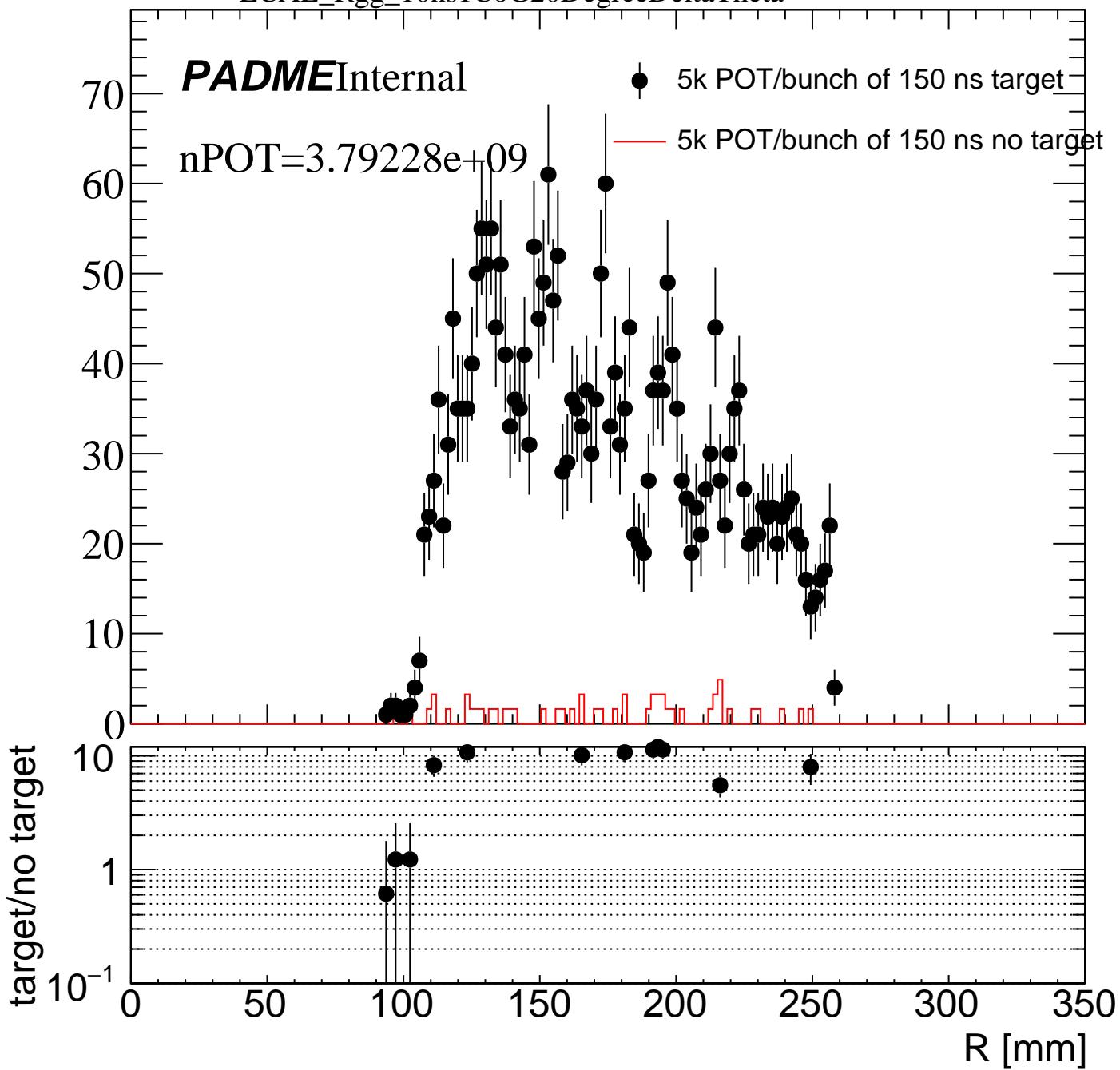


ECAL\_Rgg\_10ns1CoGEThr90

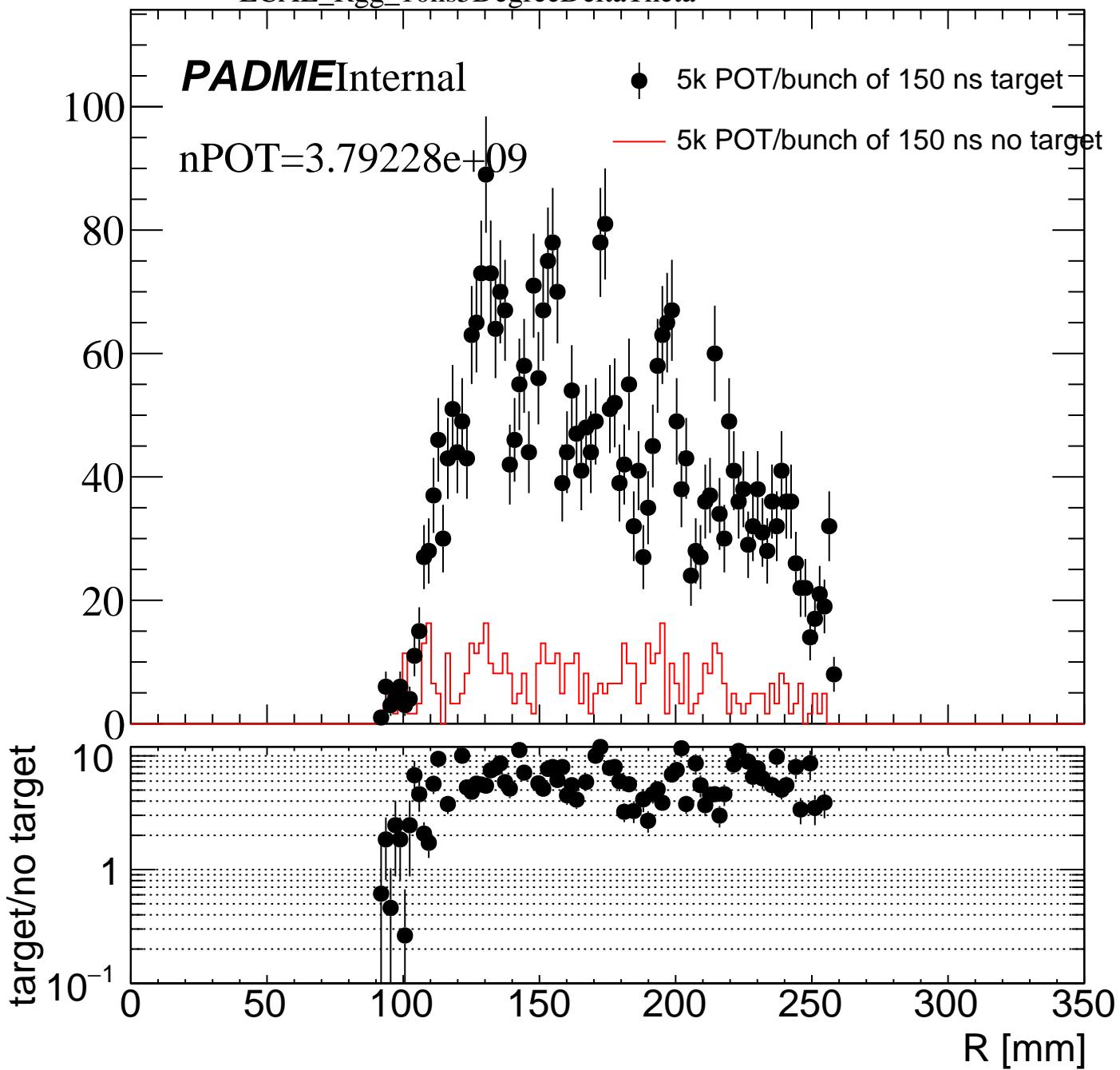




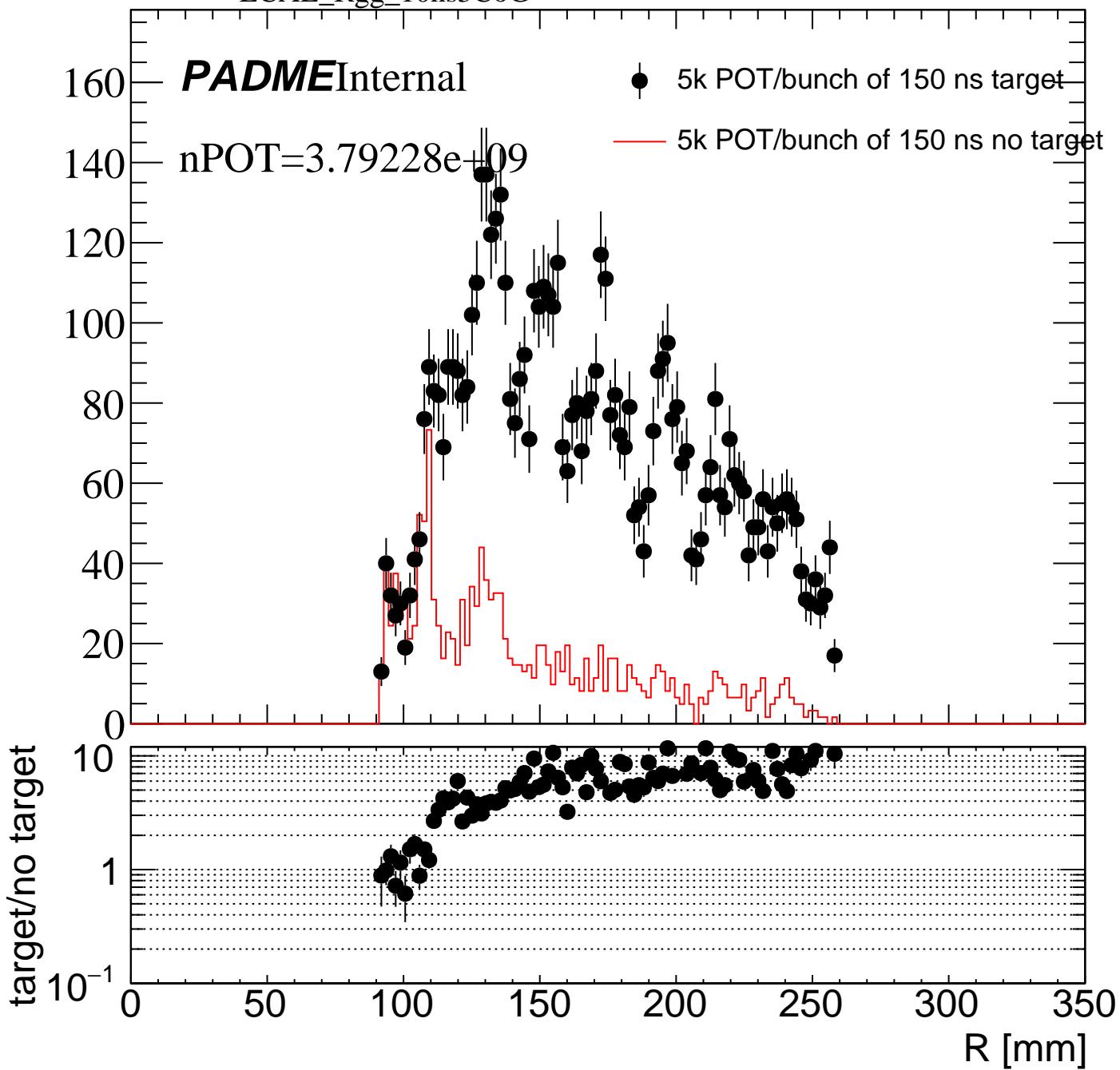
ECAL\_Rgg\_10ns1CoG20DegreeDeltaTheta

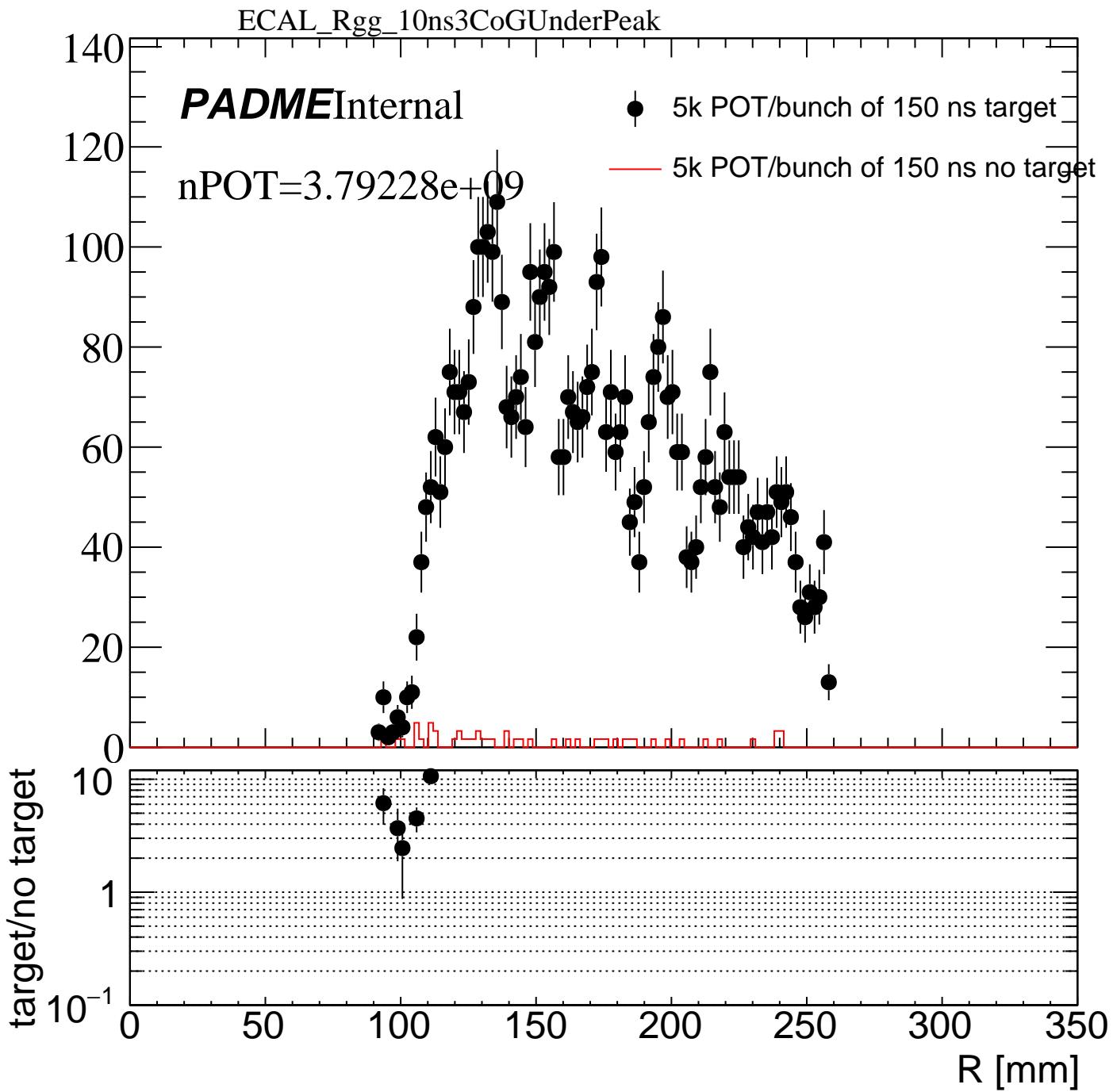


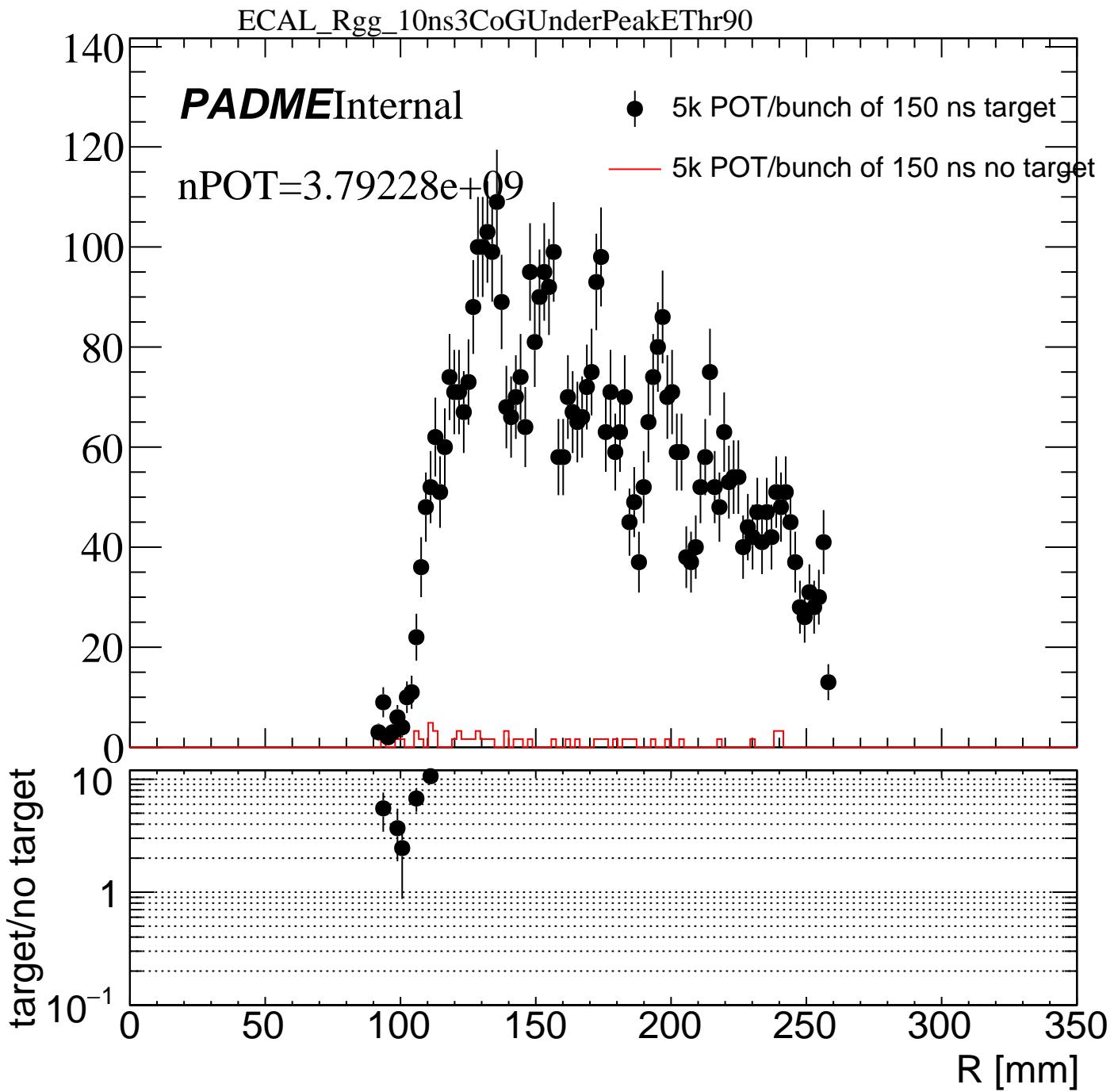
ECAL\_Rgg\_10ns5DegreeDeltaTheta



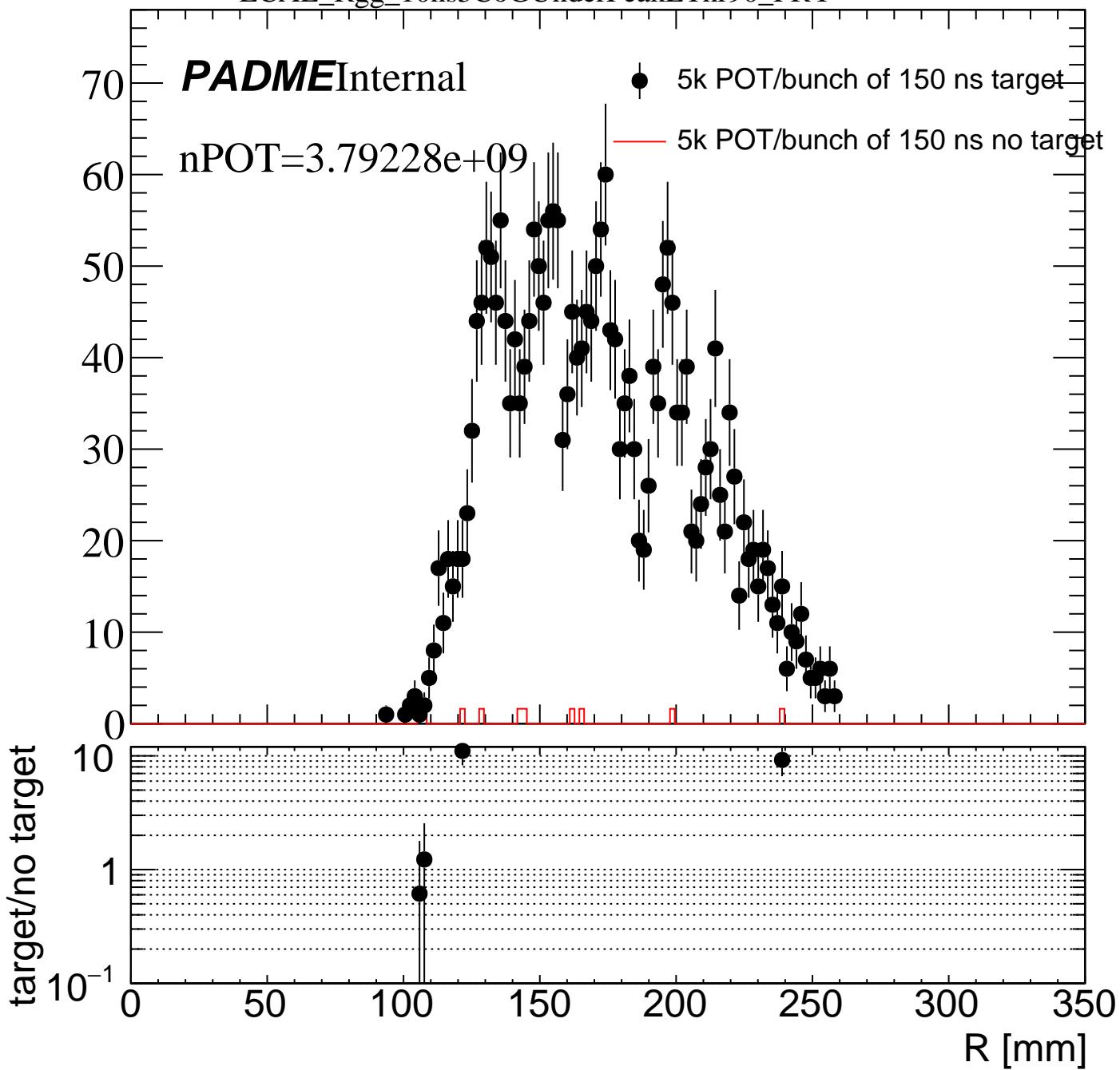
ECAL\_Rgg\_10ns3CoG



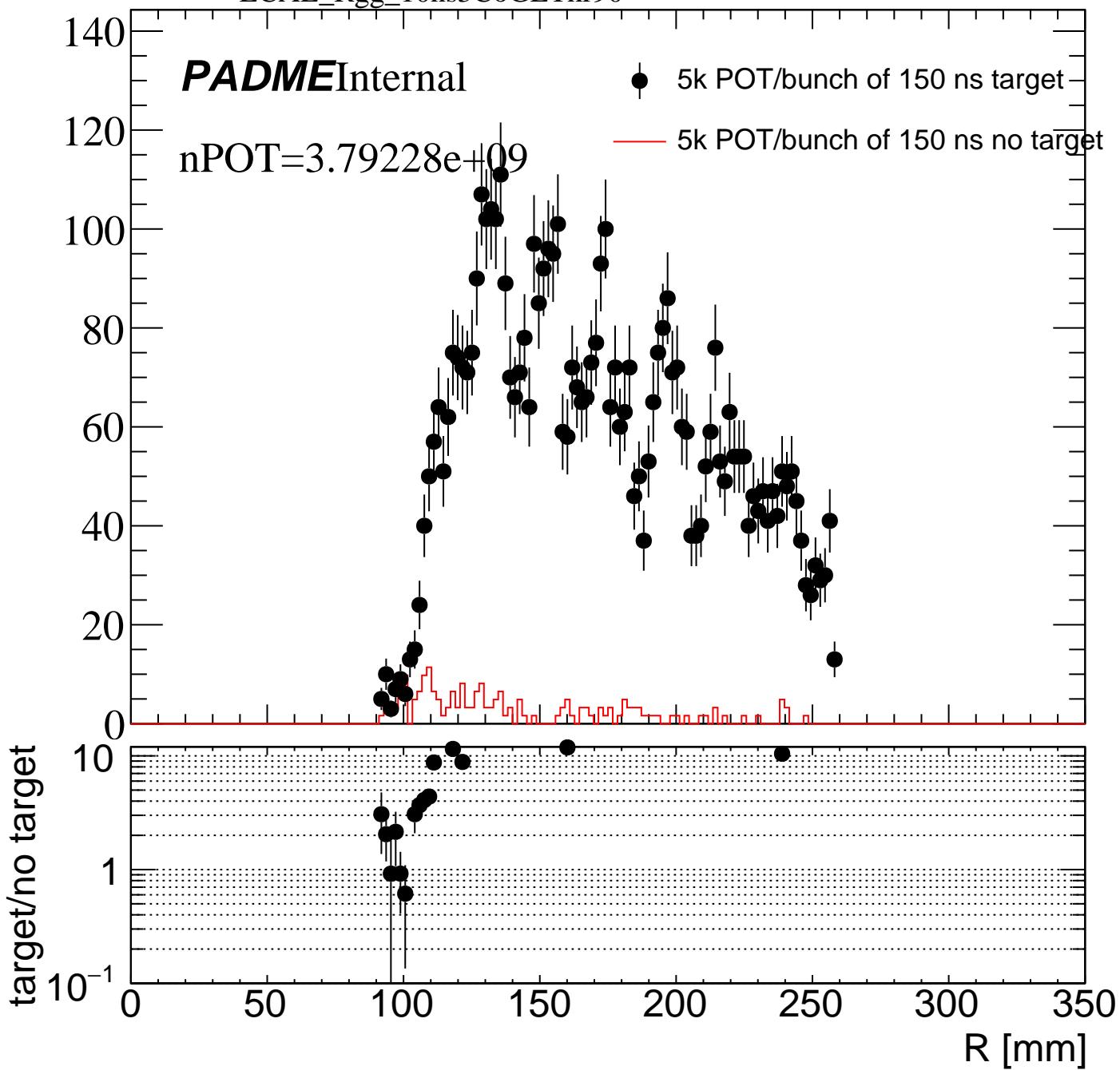




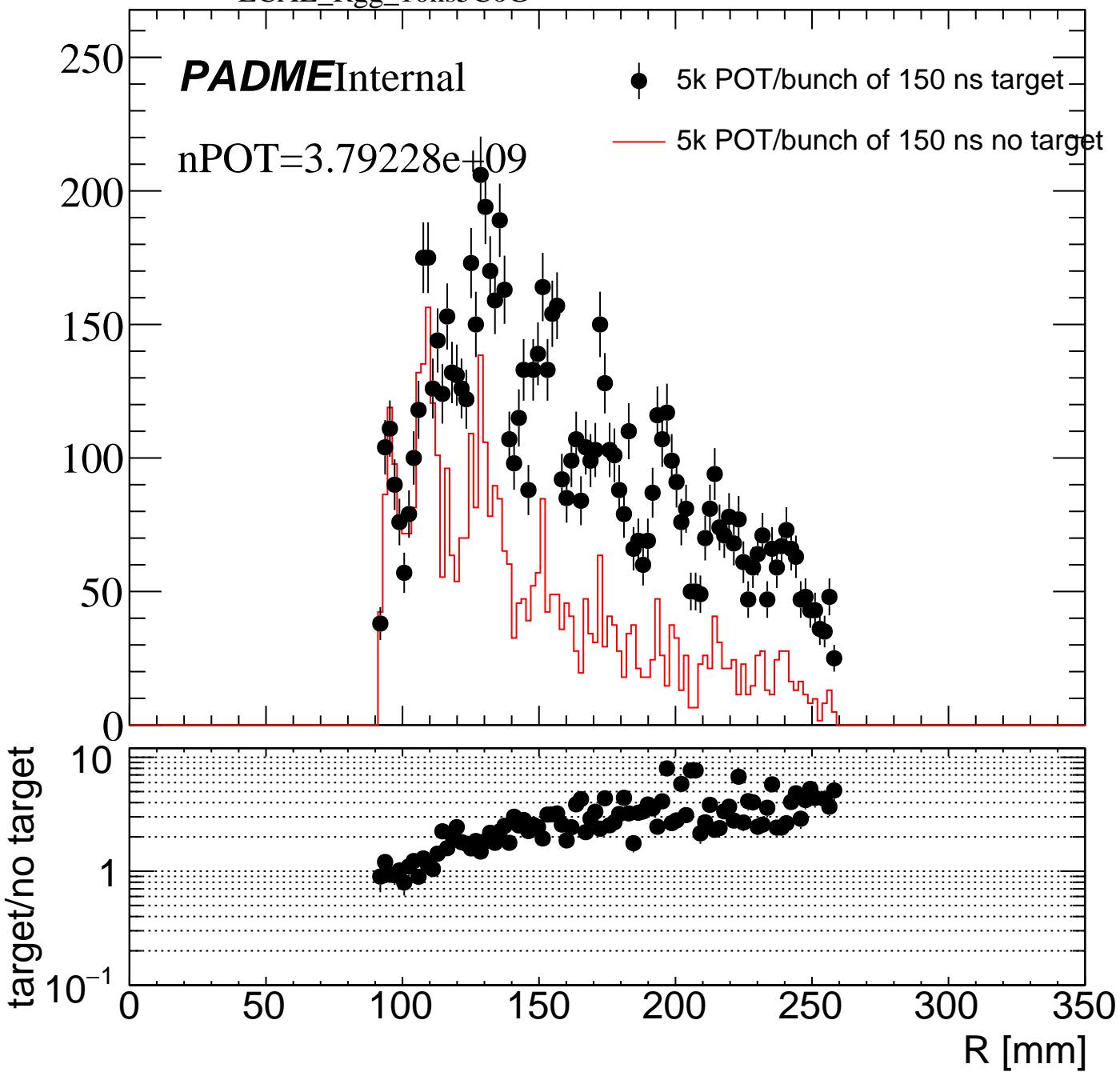
ECAL\_Rgg\_10ns3CoGUnderPeakEThr90\_FRY



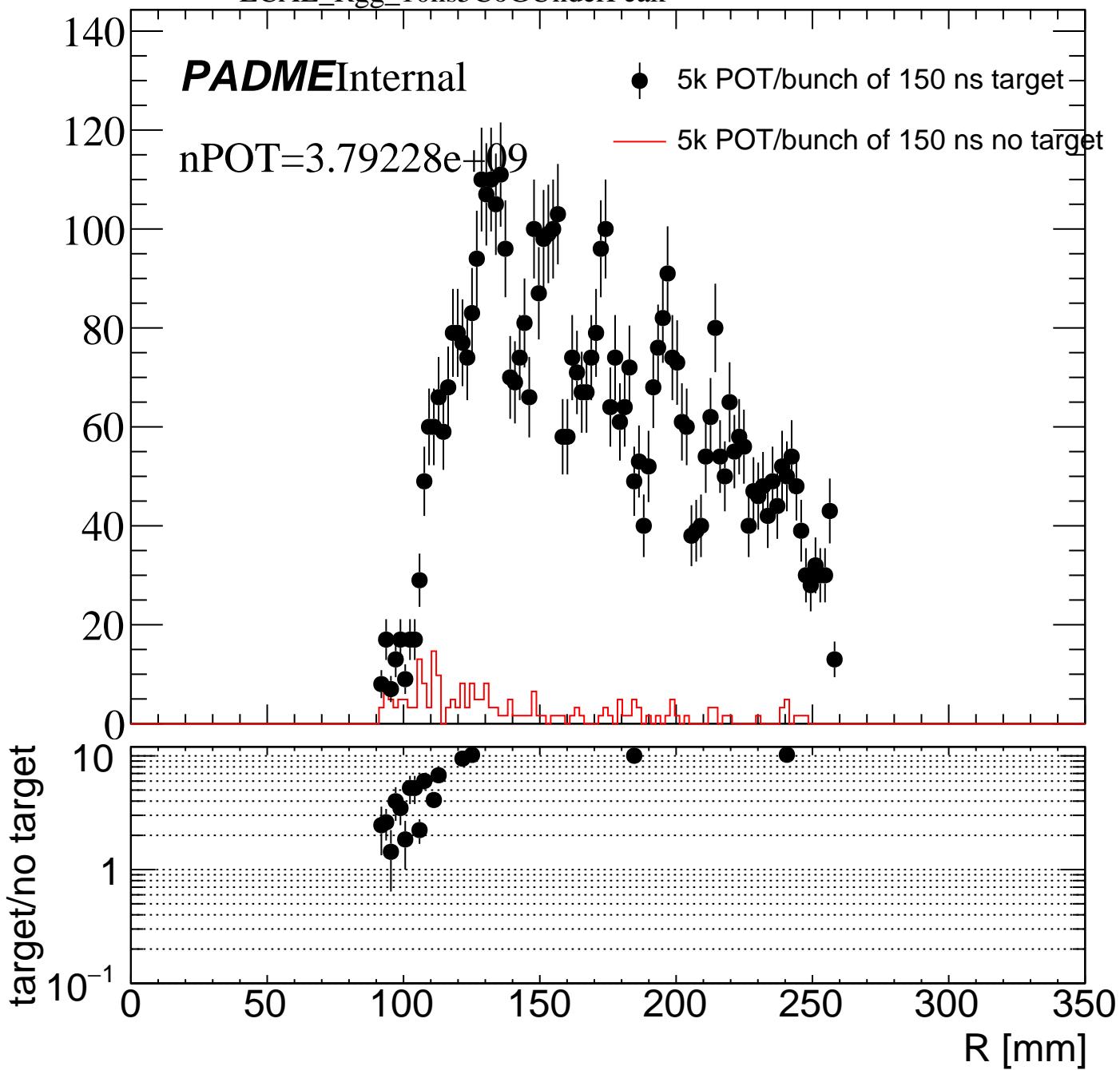
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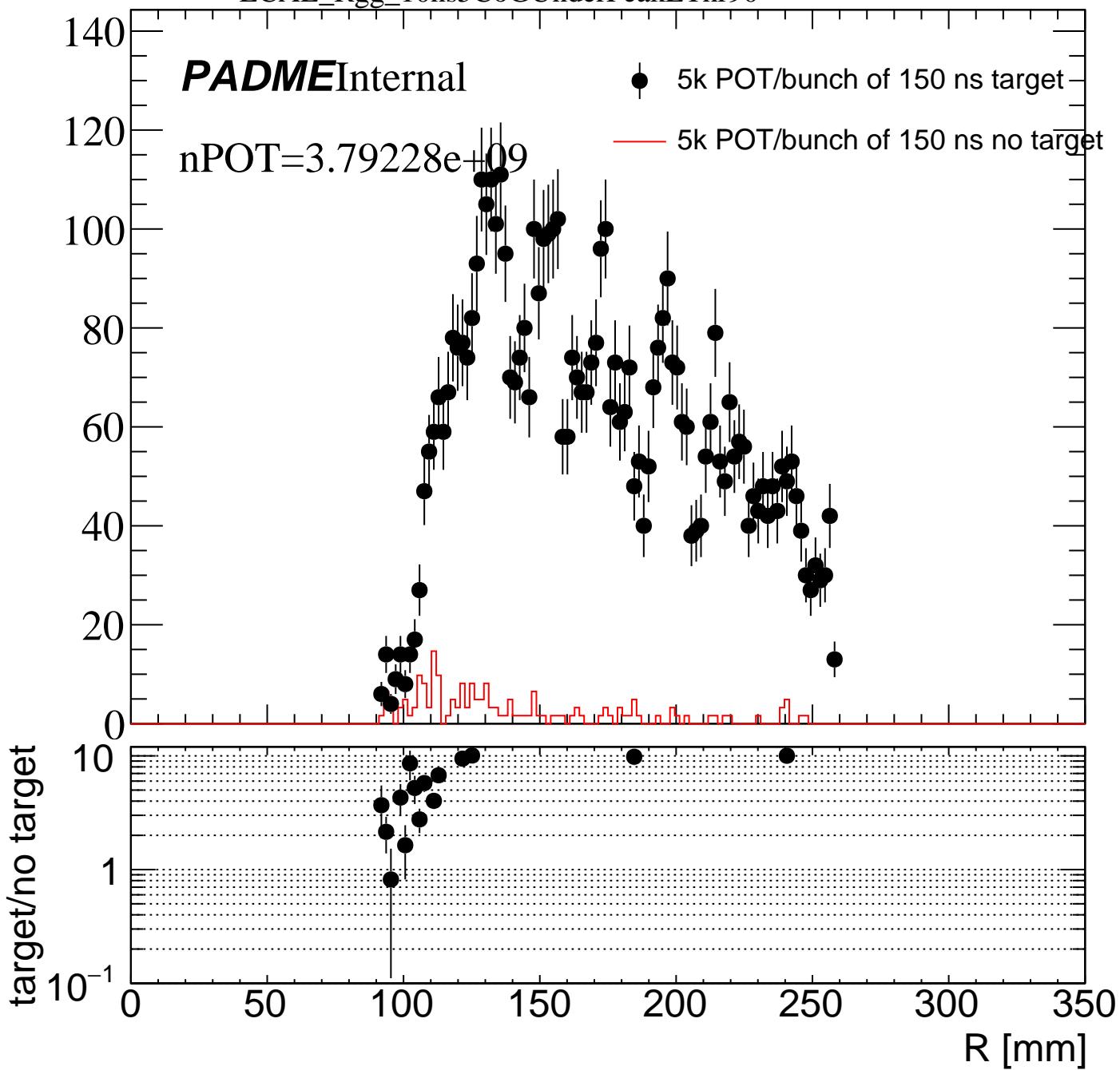
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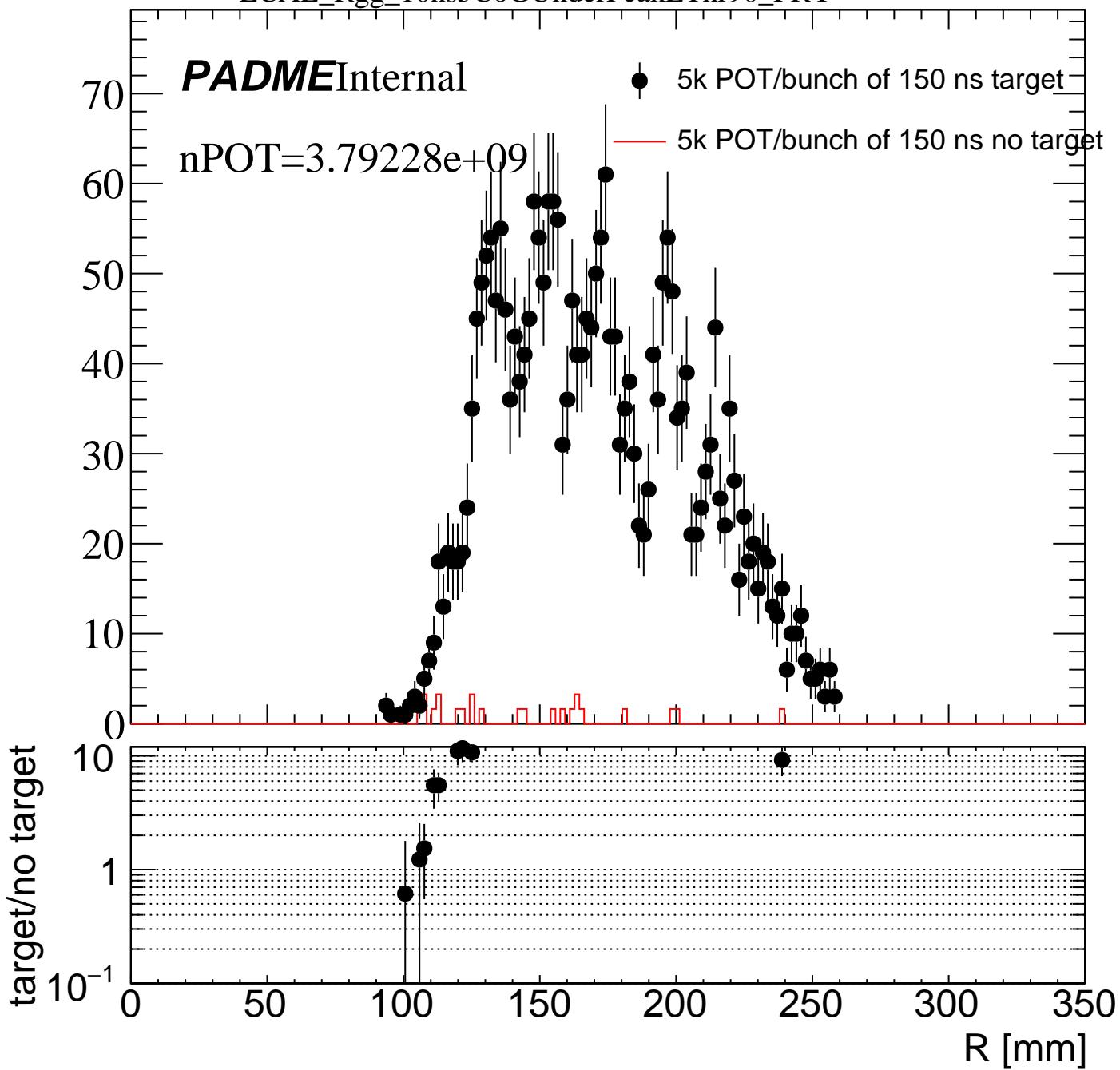
ECAL\_Rgg\_10ns5CoGUnderPeak



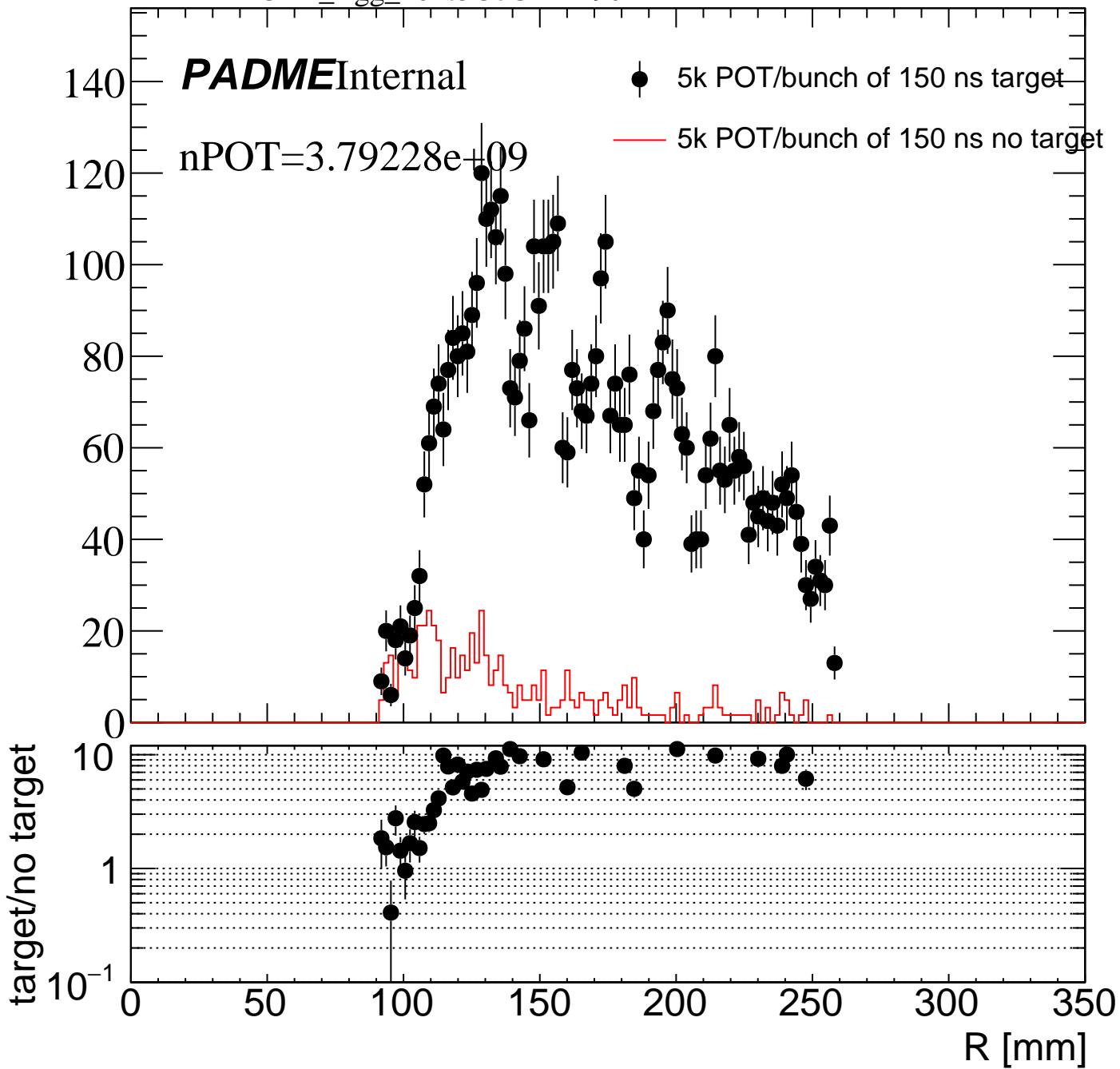
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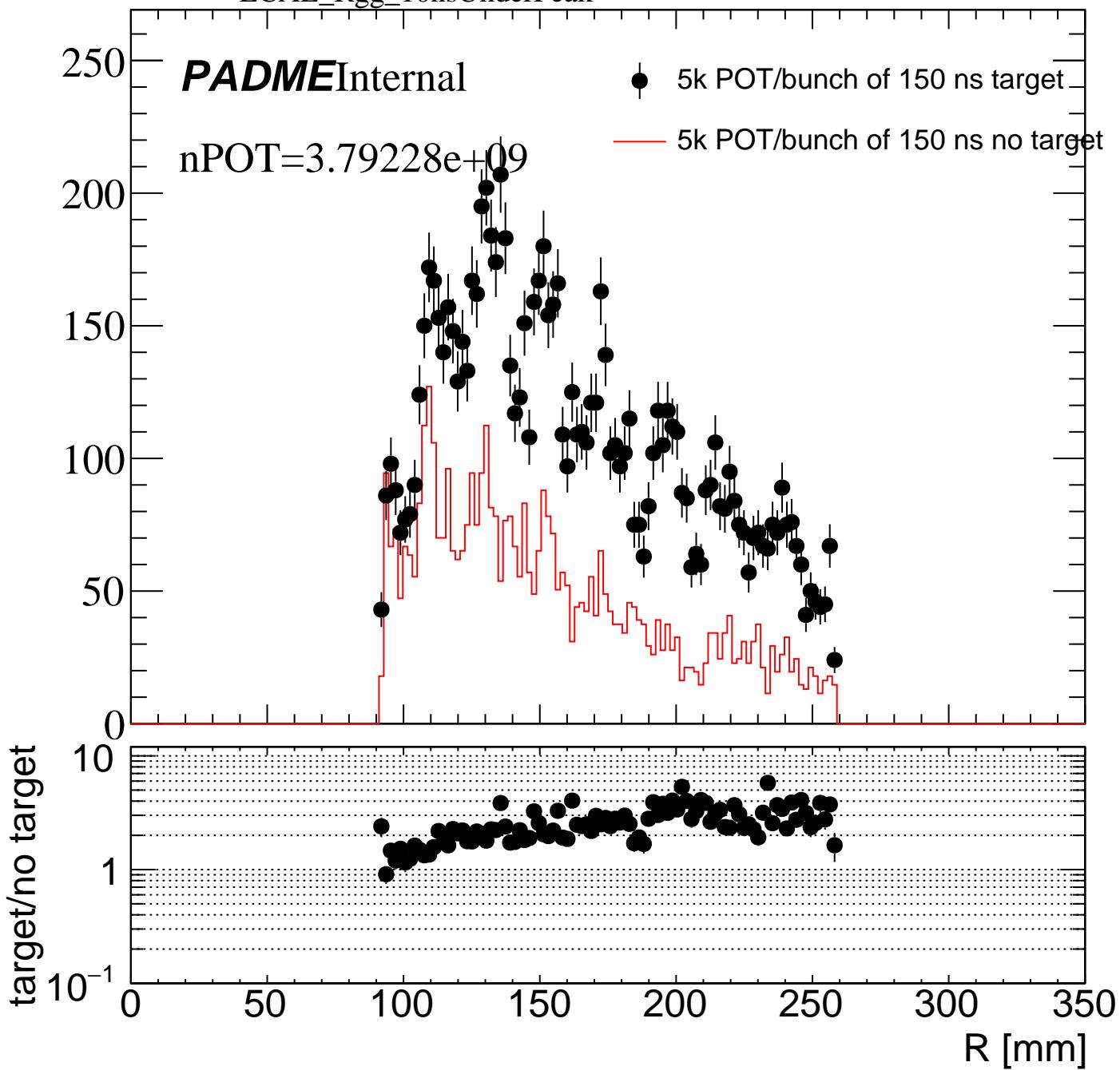
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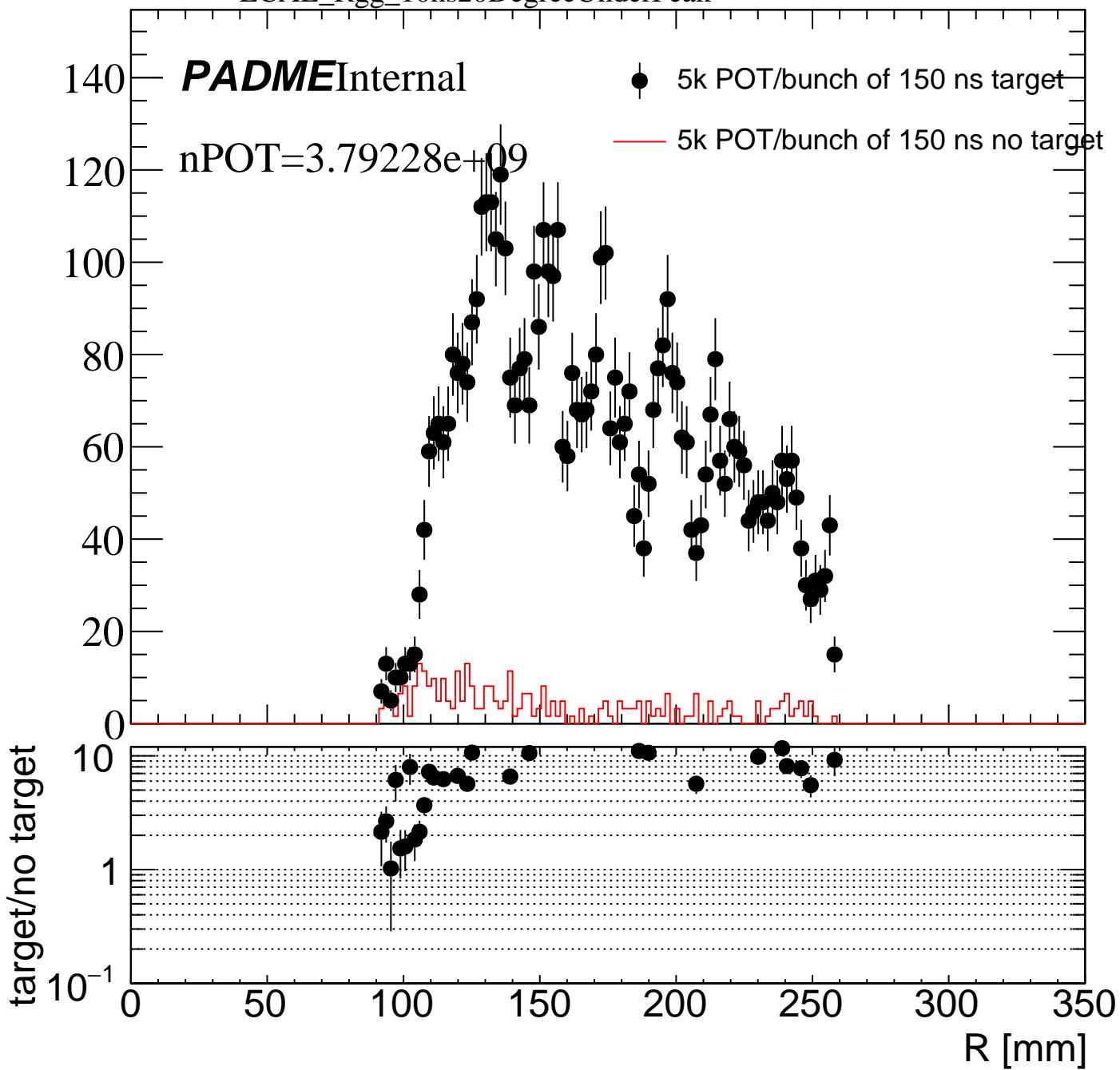
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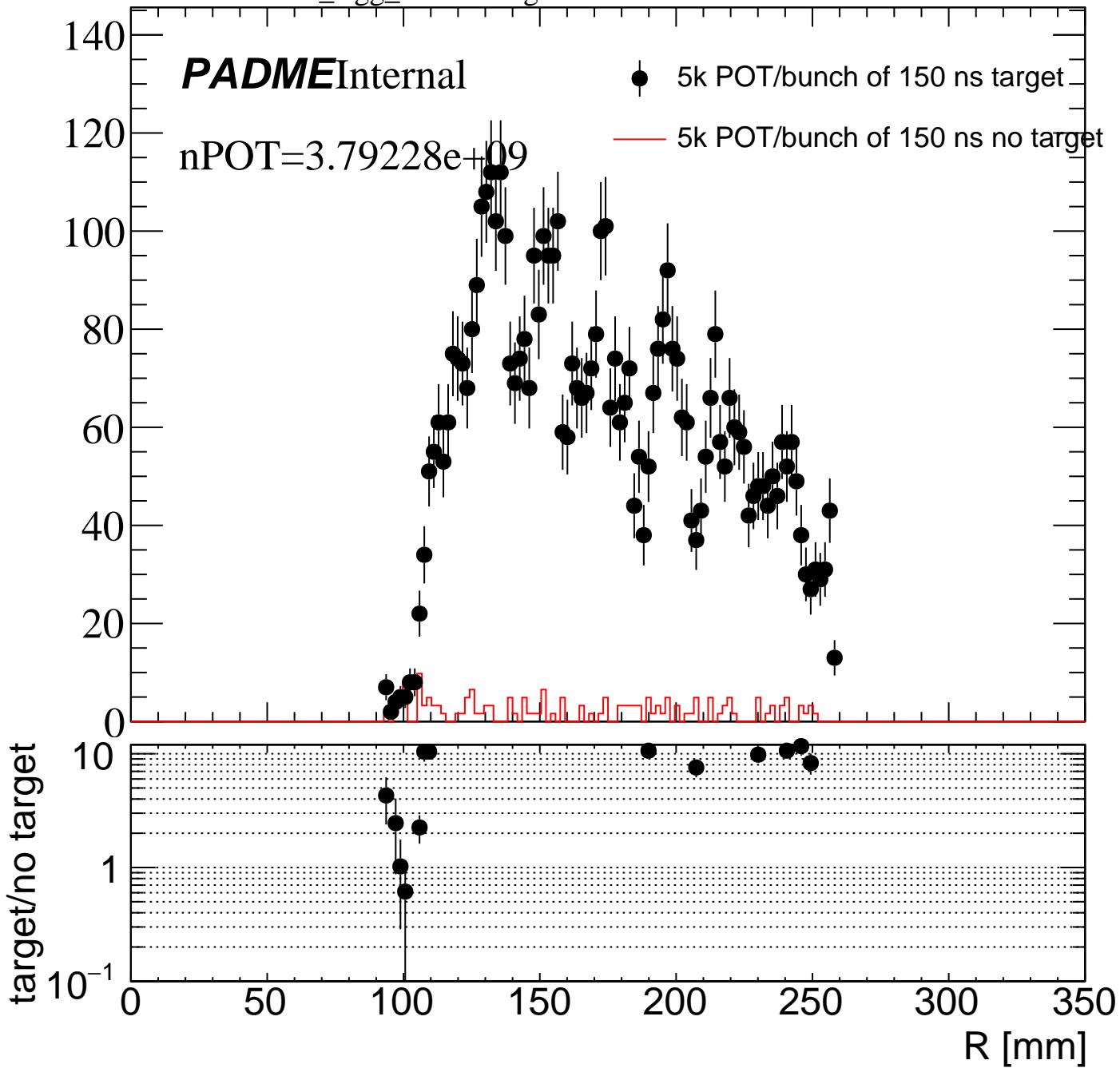
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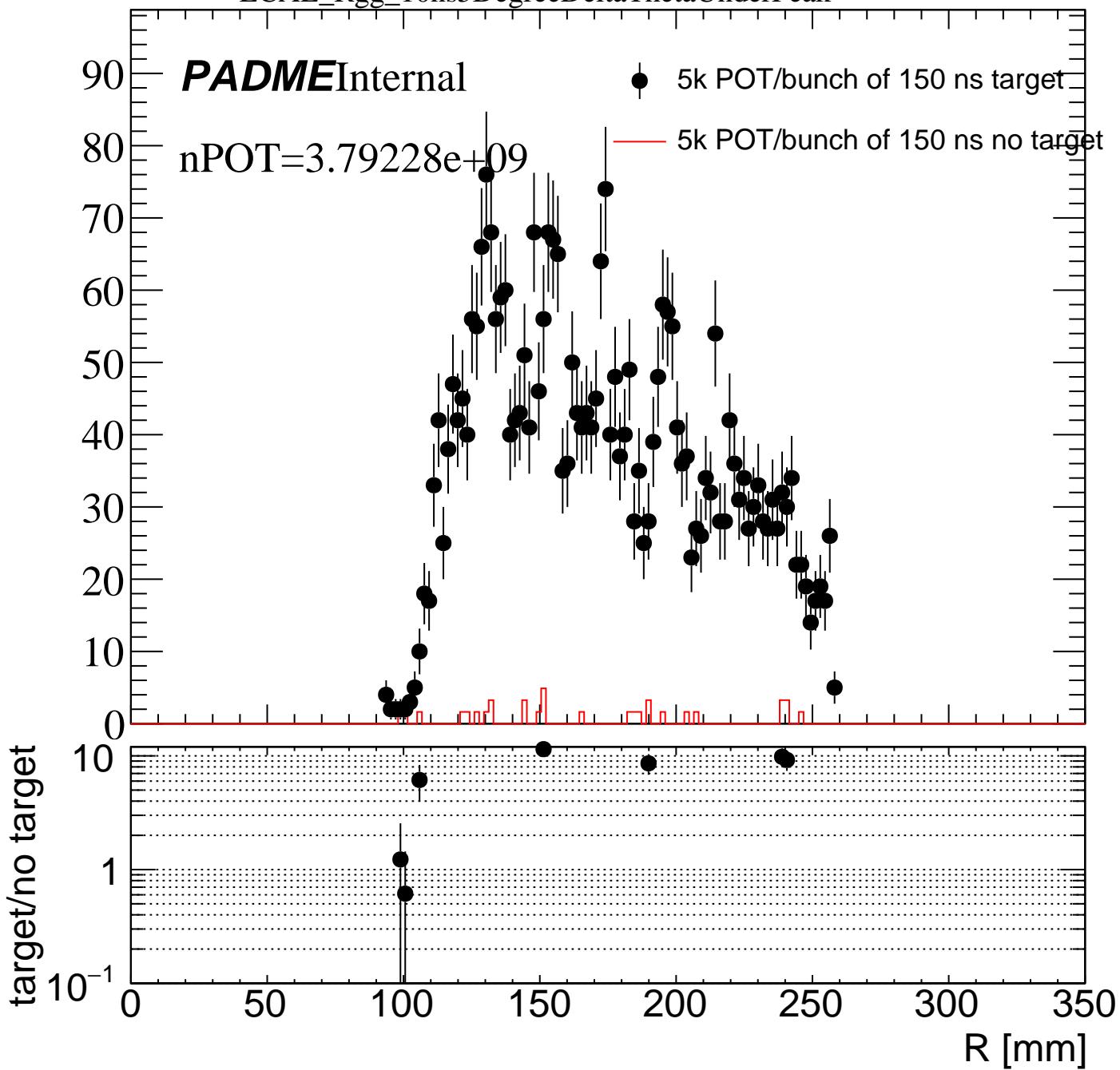
ECAL\_Rgg\_10ns20DegreeUnderPeak

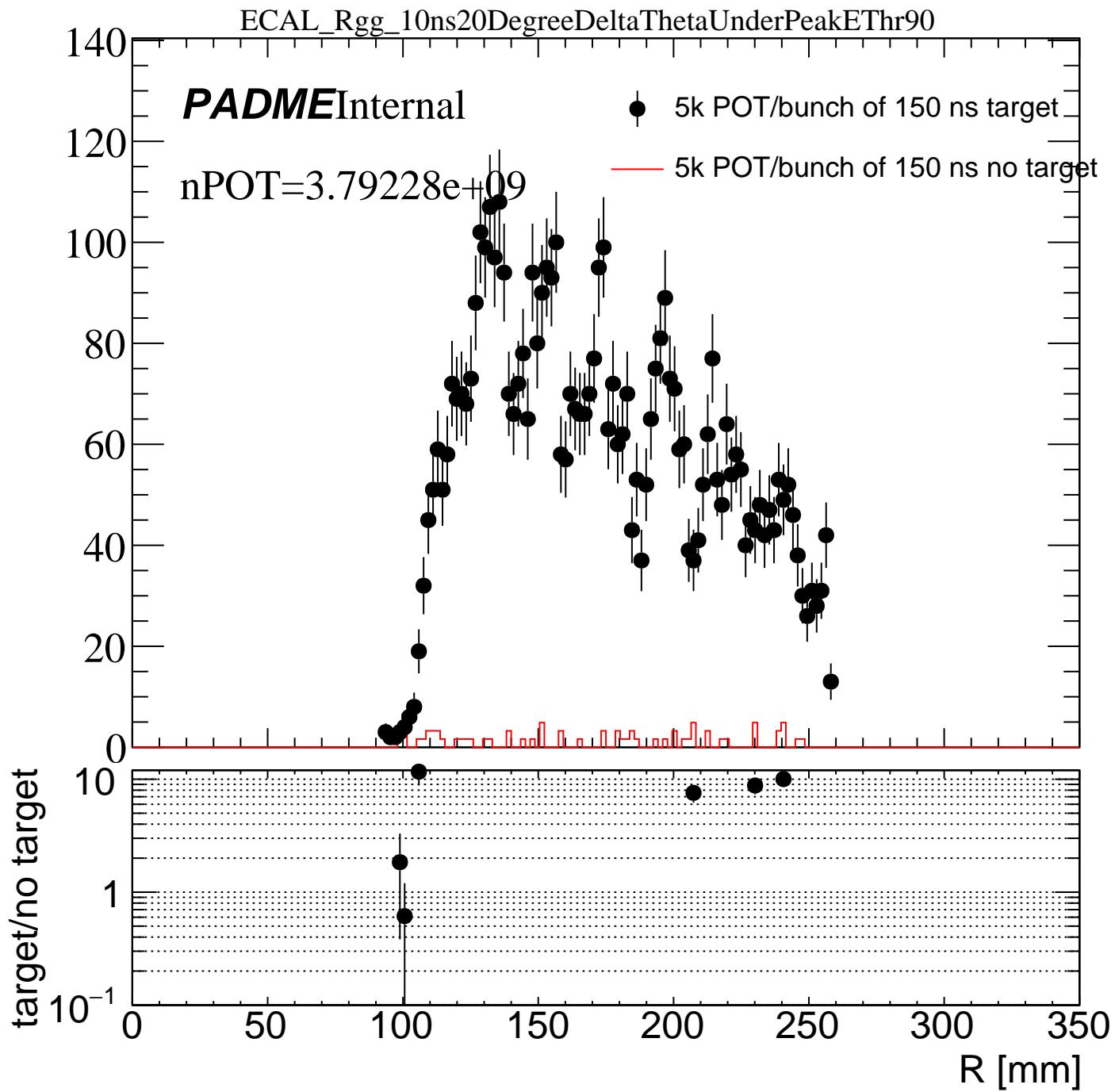


ECAL\_Rgg\_10ns20DegreeDeltaThetaUnderPeak

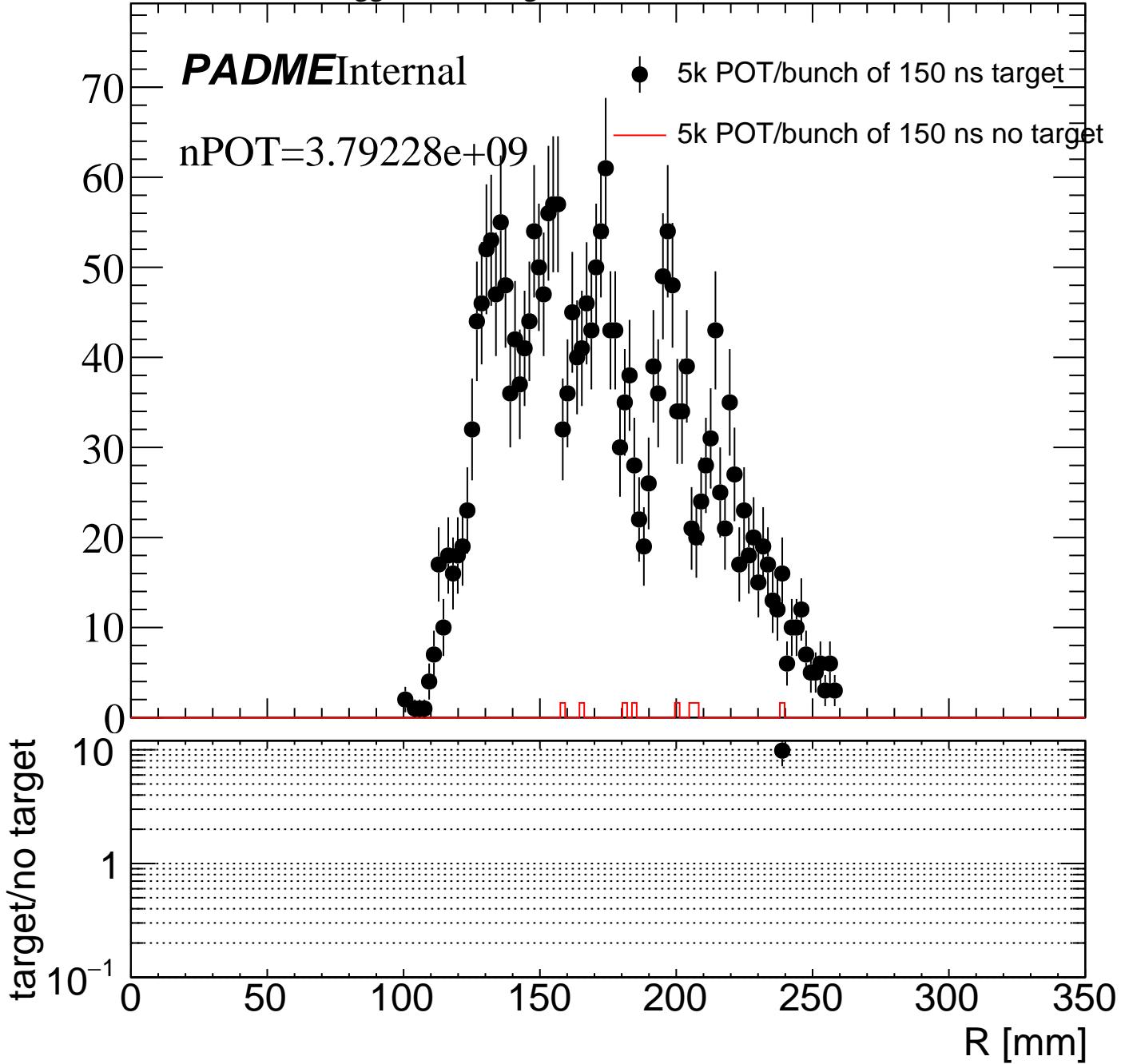


ECAL\_Rgg\_10ns5DegreeDeltaThetaUnderPeak

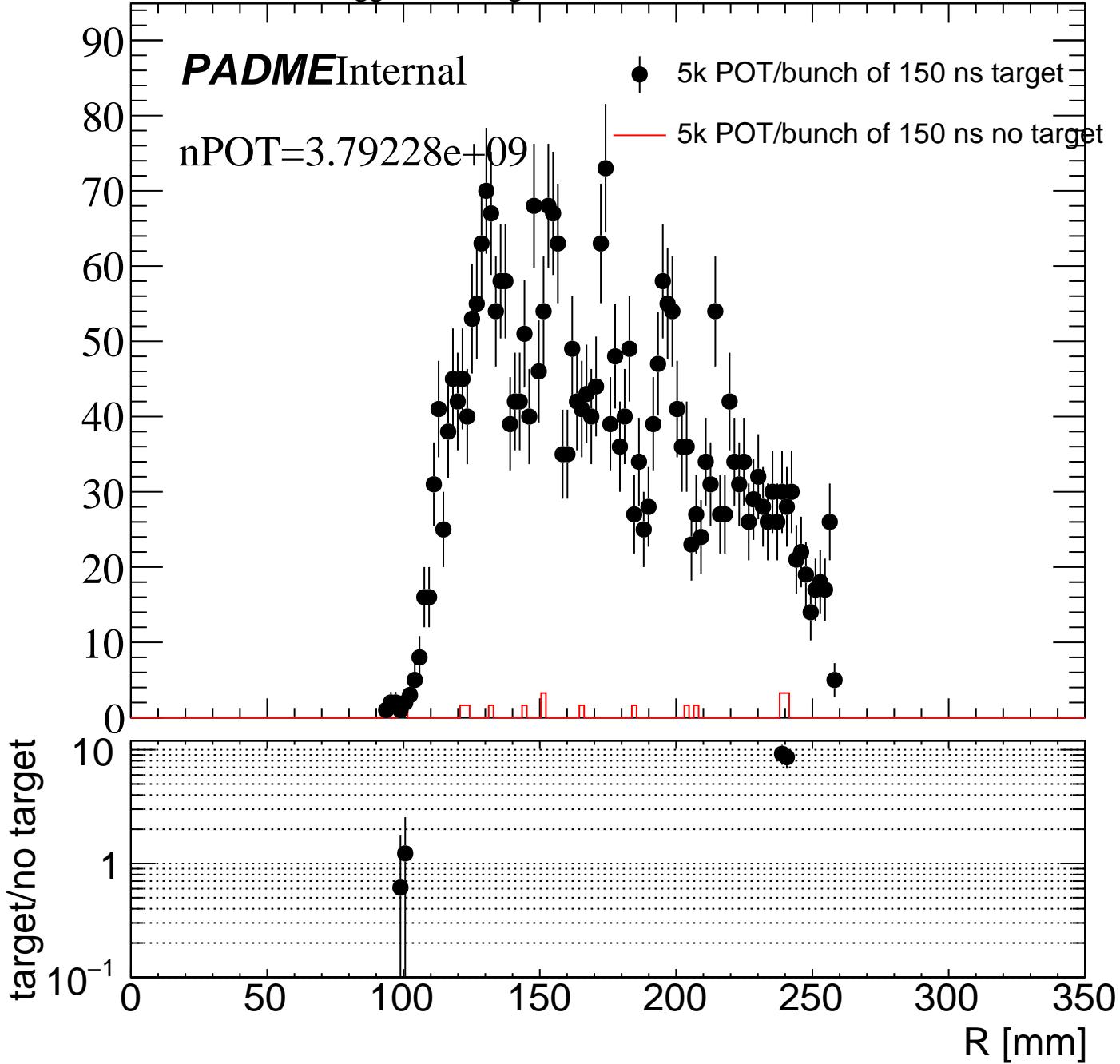




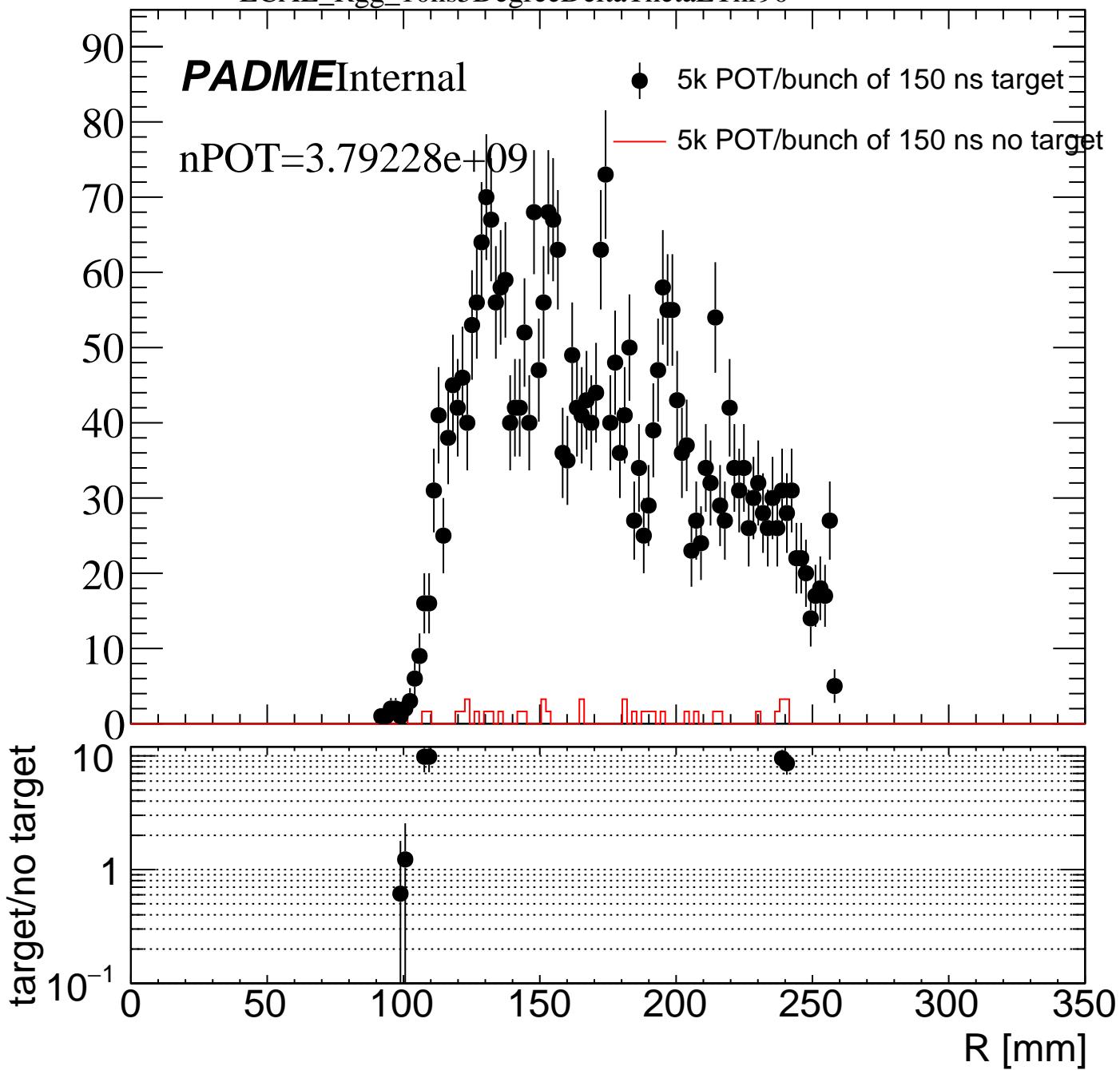
ECAL\_Rgg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY



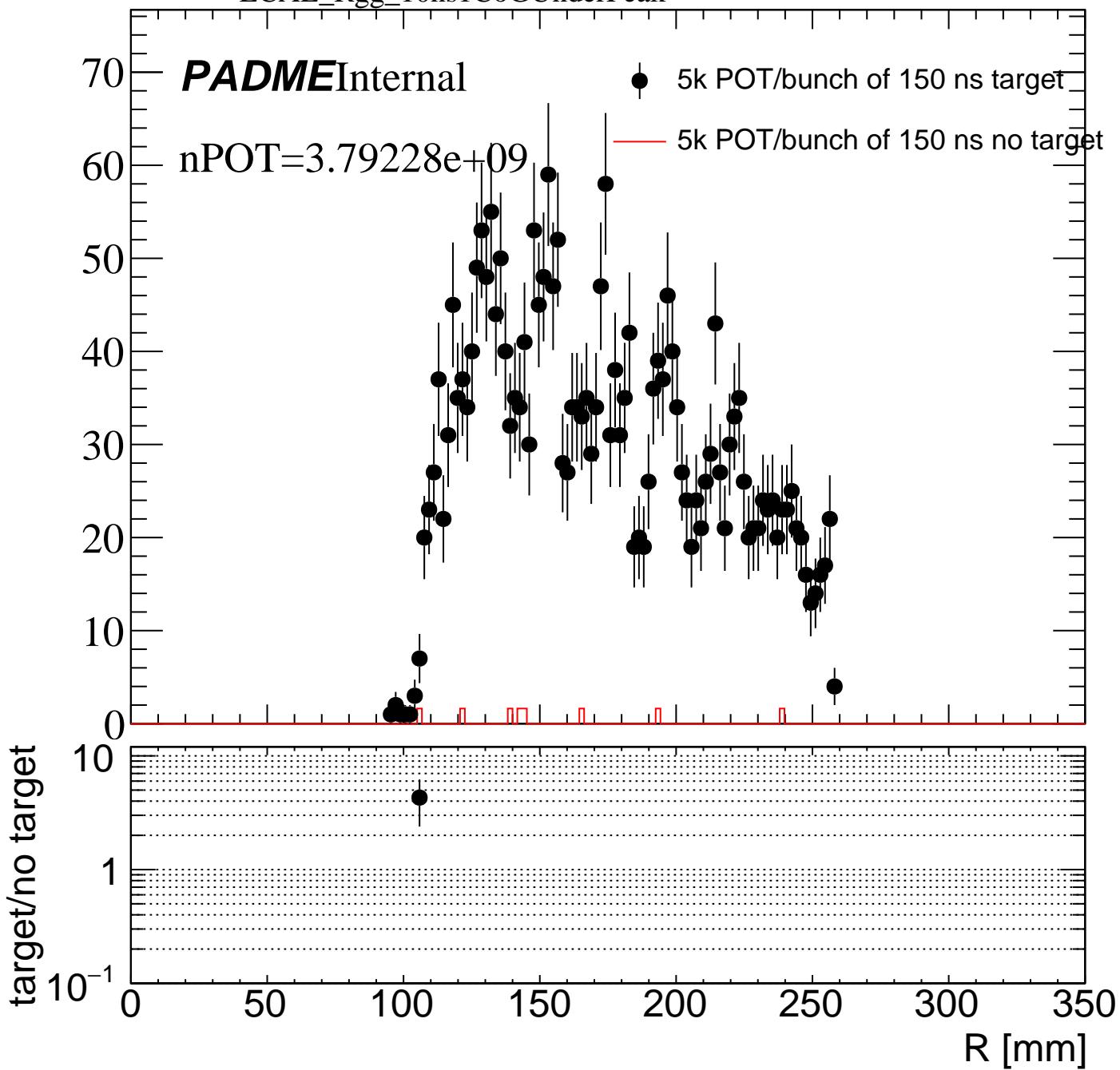
ECAL\_Rgg\_10ns5DegreeDeltaThetaUnderPeakEThr90



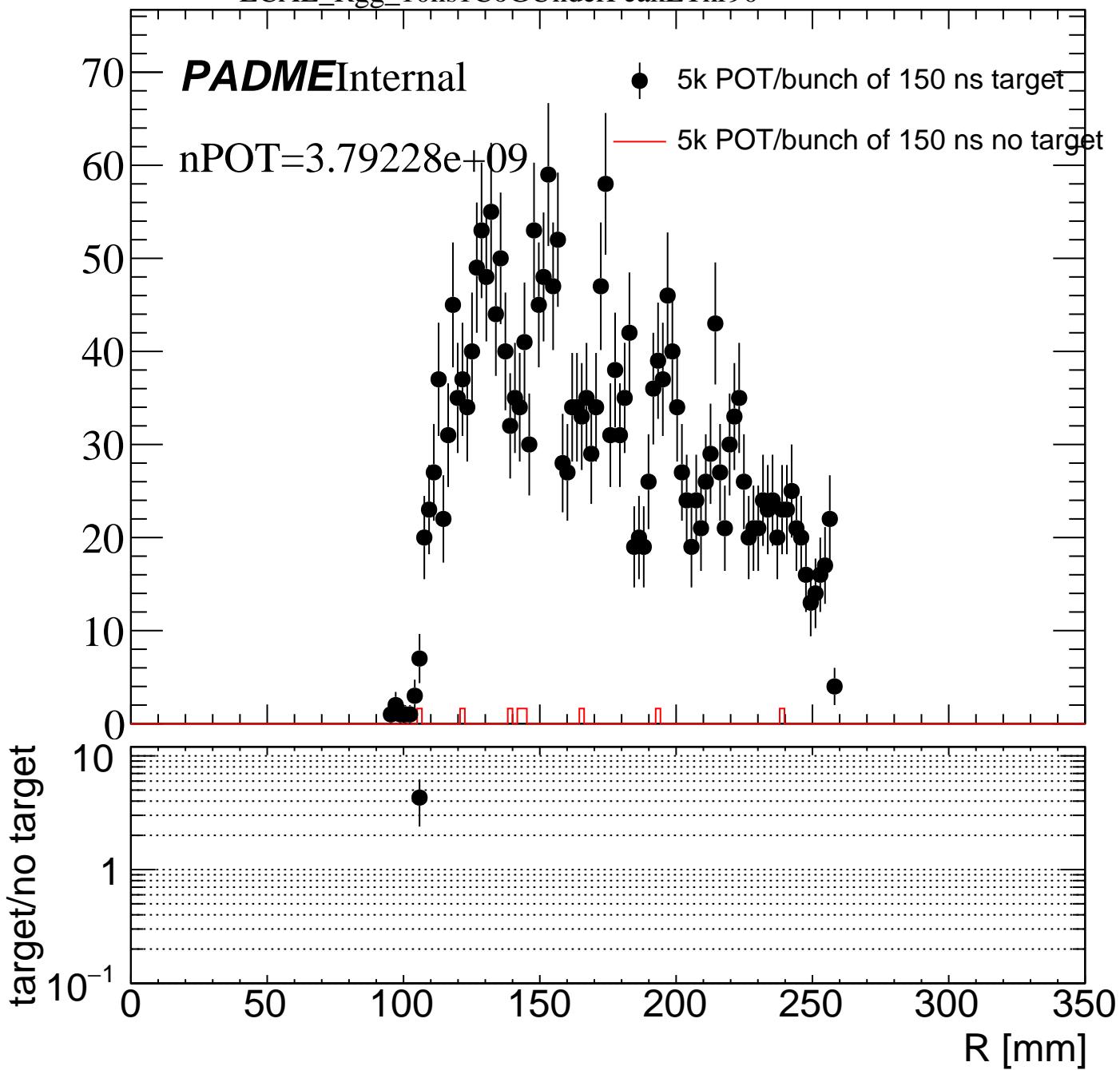
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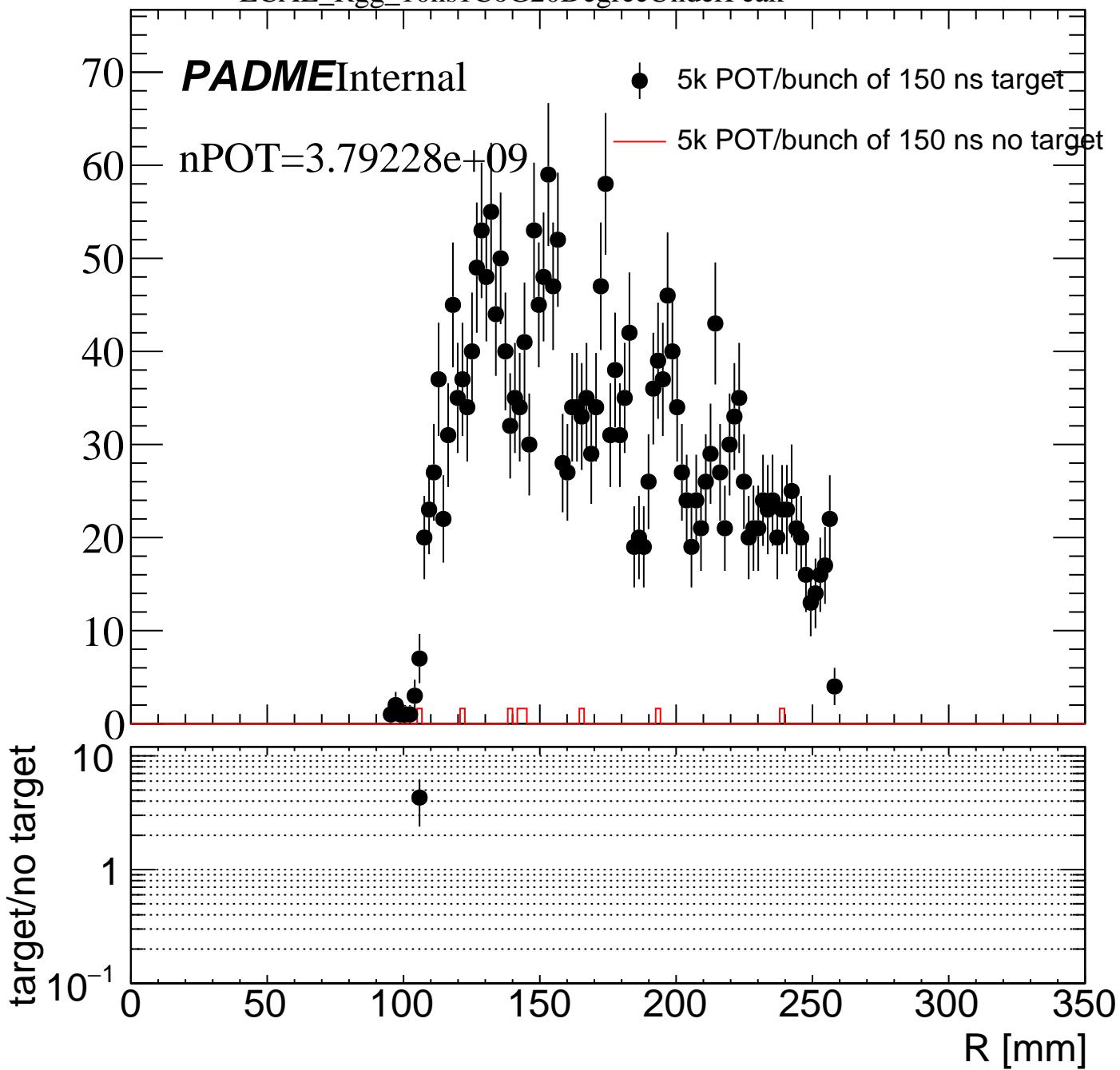
# ECAL\_Rgg\_10ns1CoGUnderPeak



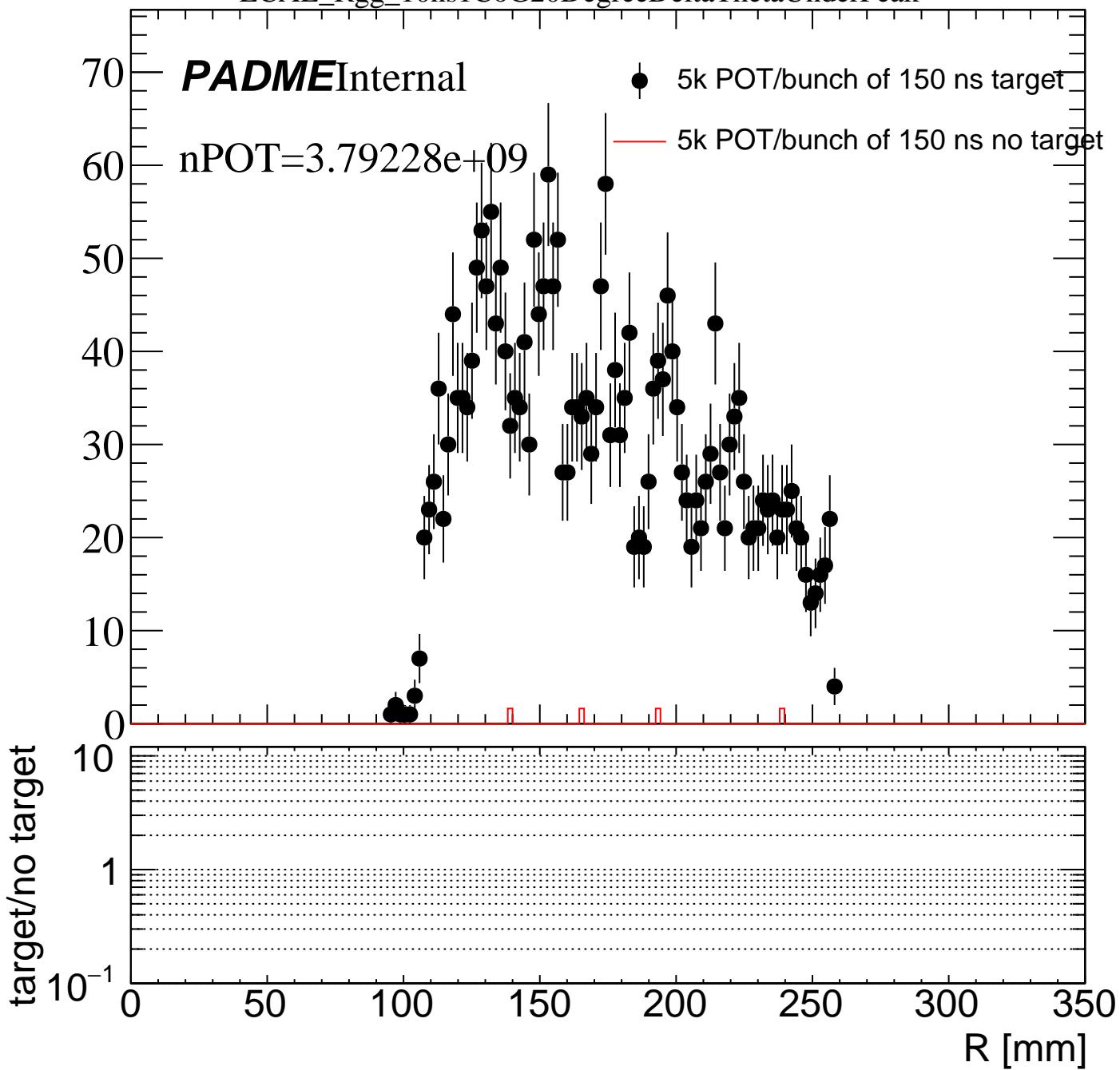
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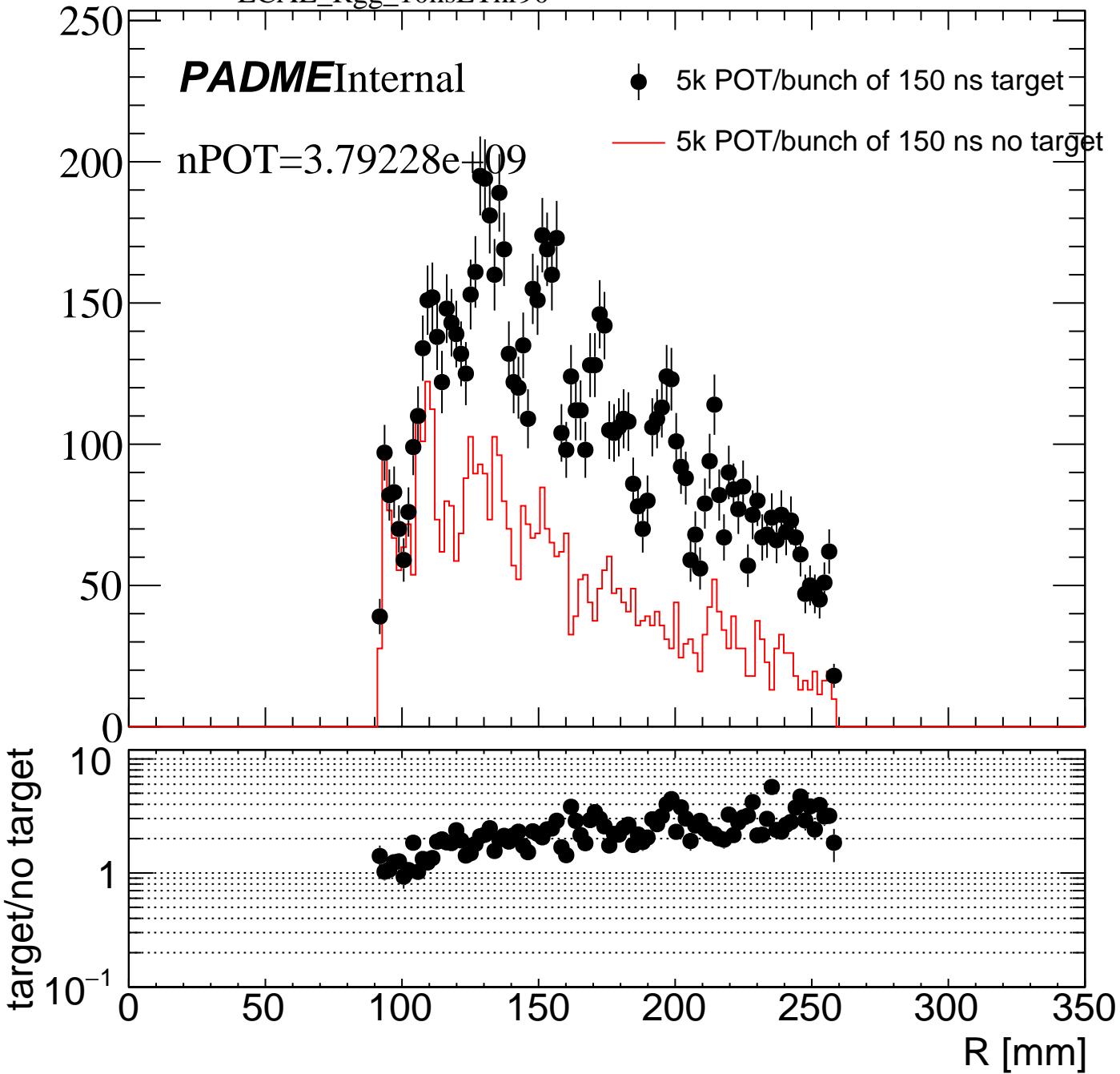
ECAL\_Rgg\_10ns1CoG20DegreeUnderPeak



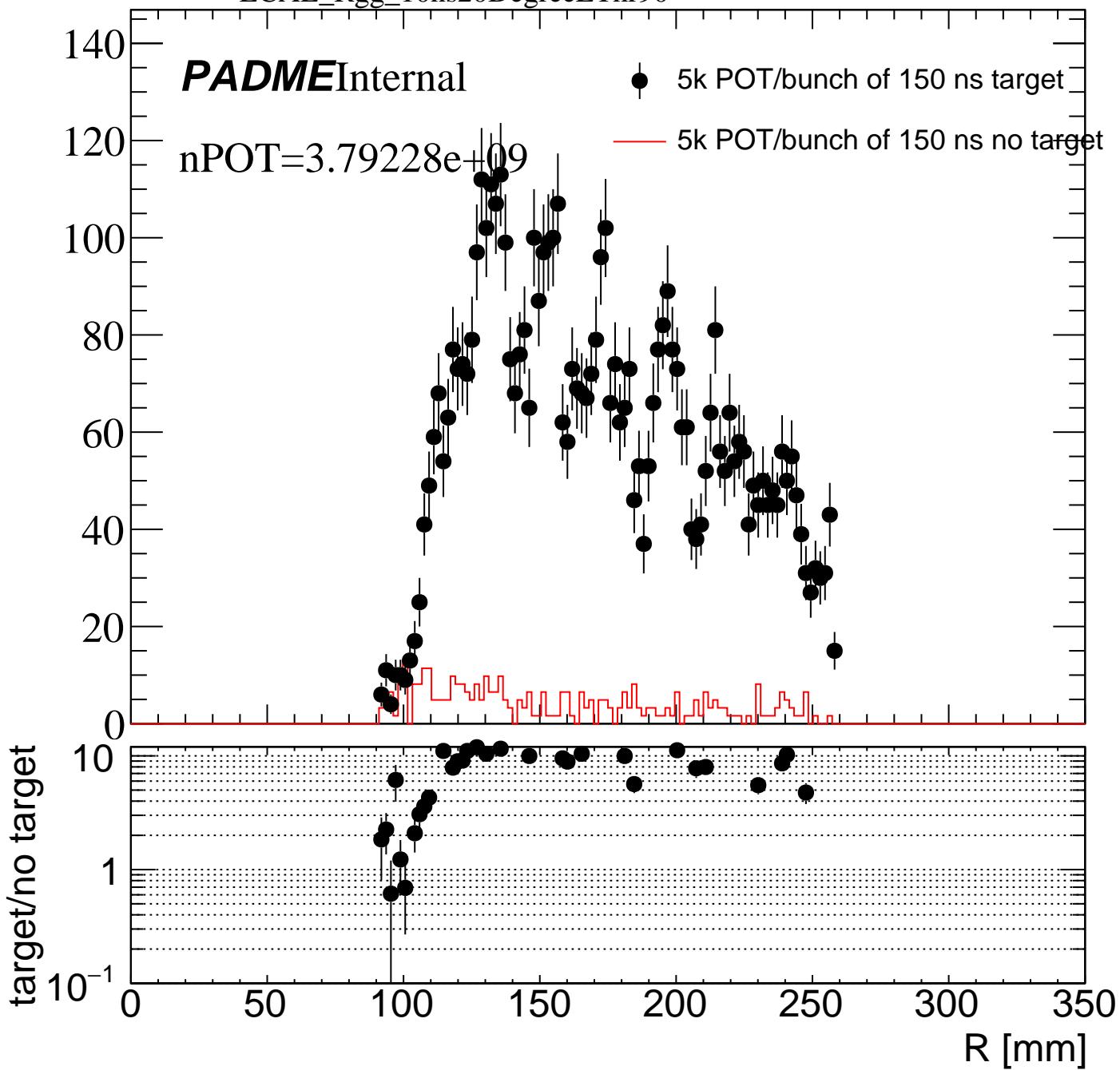
ECAL\_Rgg\_10ns1CoG20DegreeDeltaThetaUnderPeak



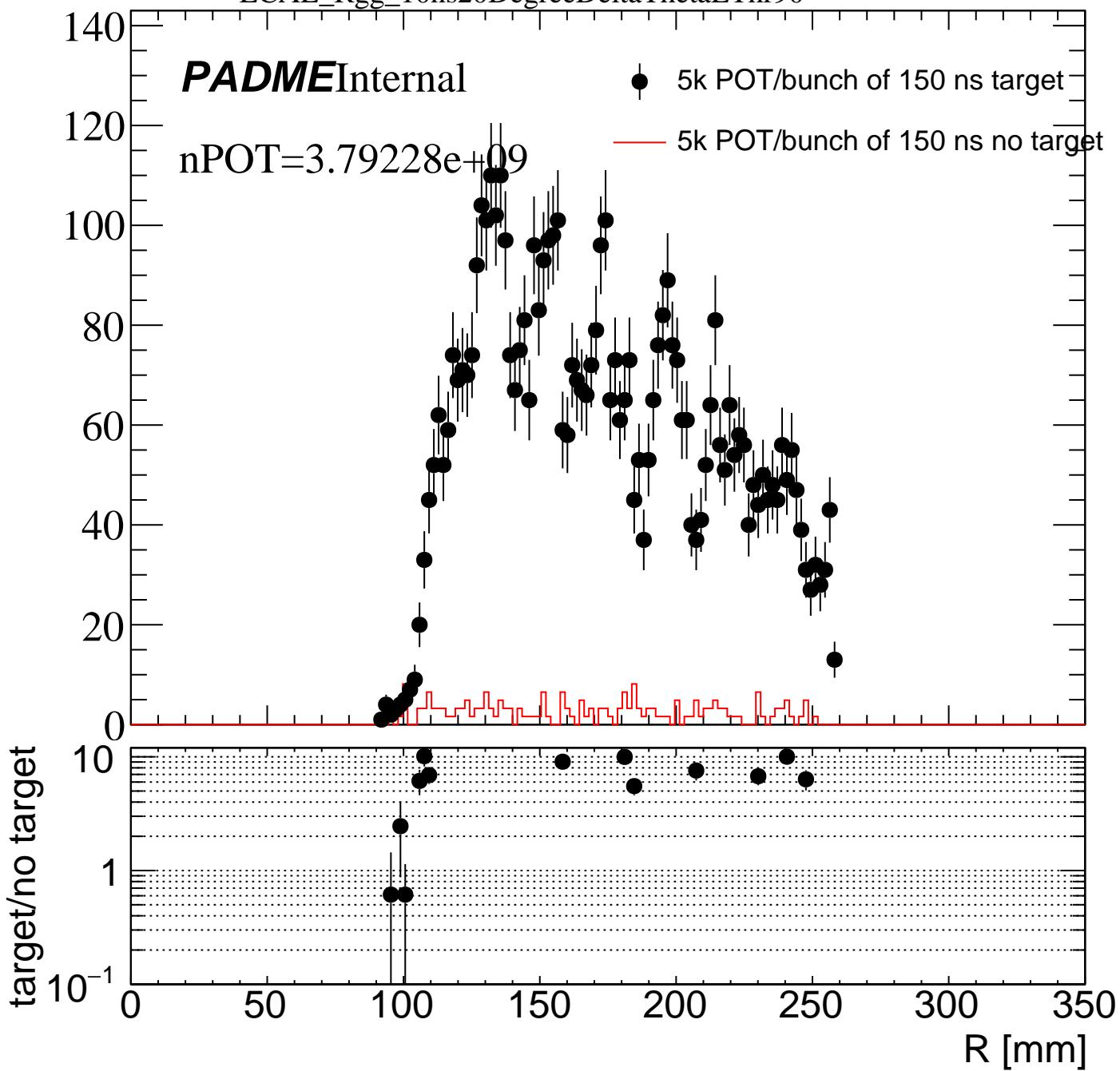
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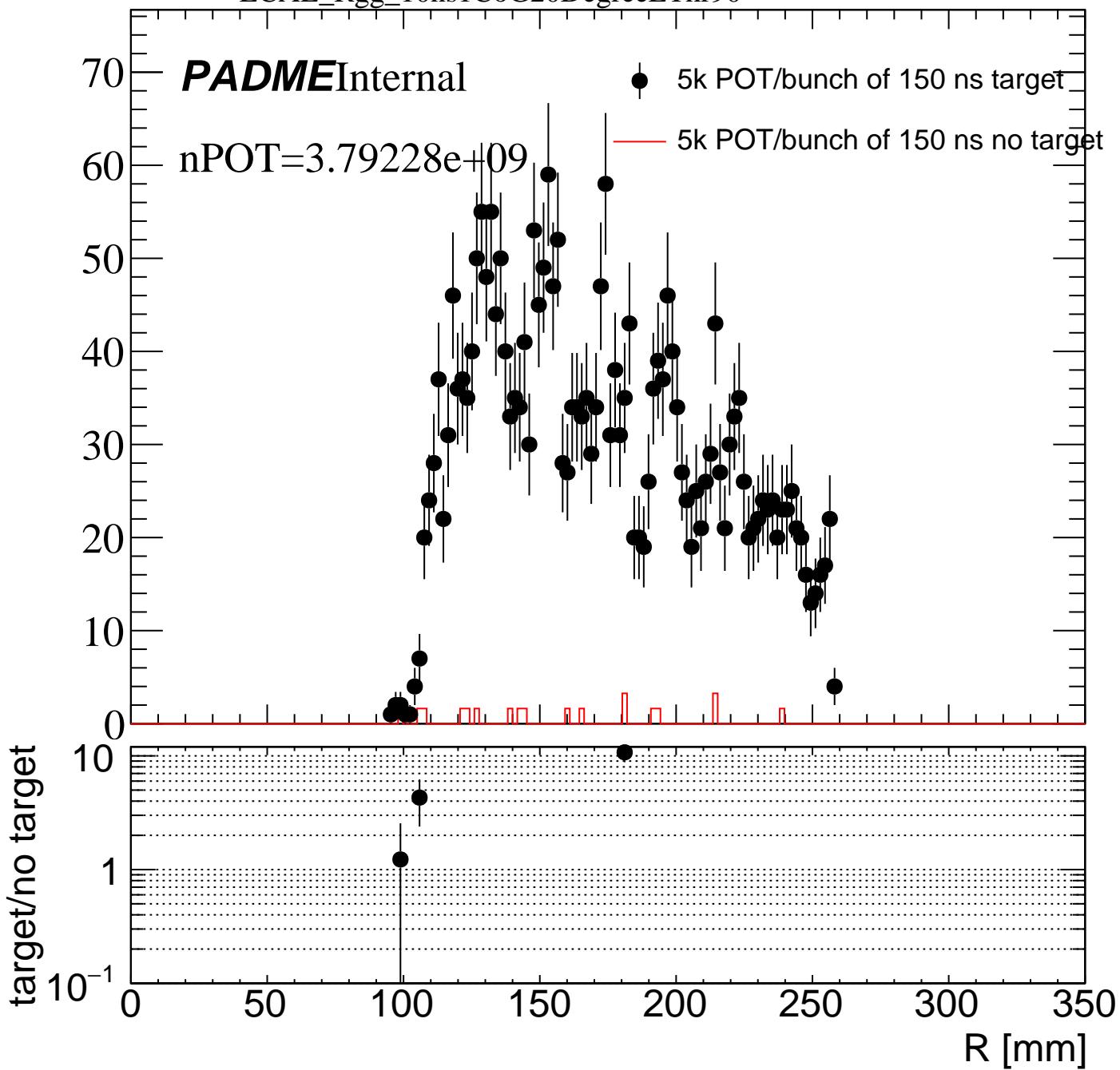
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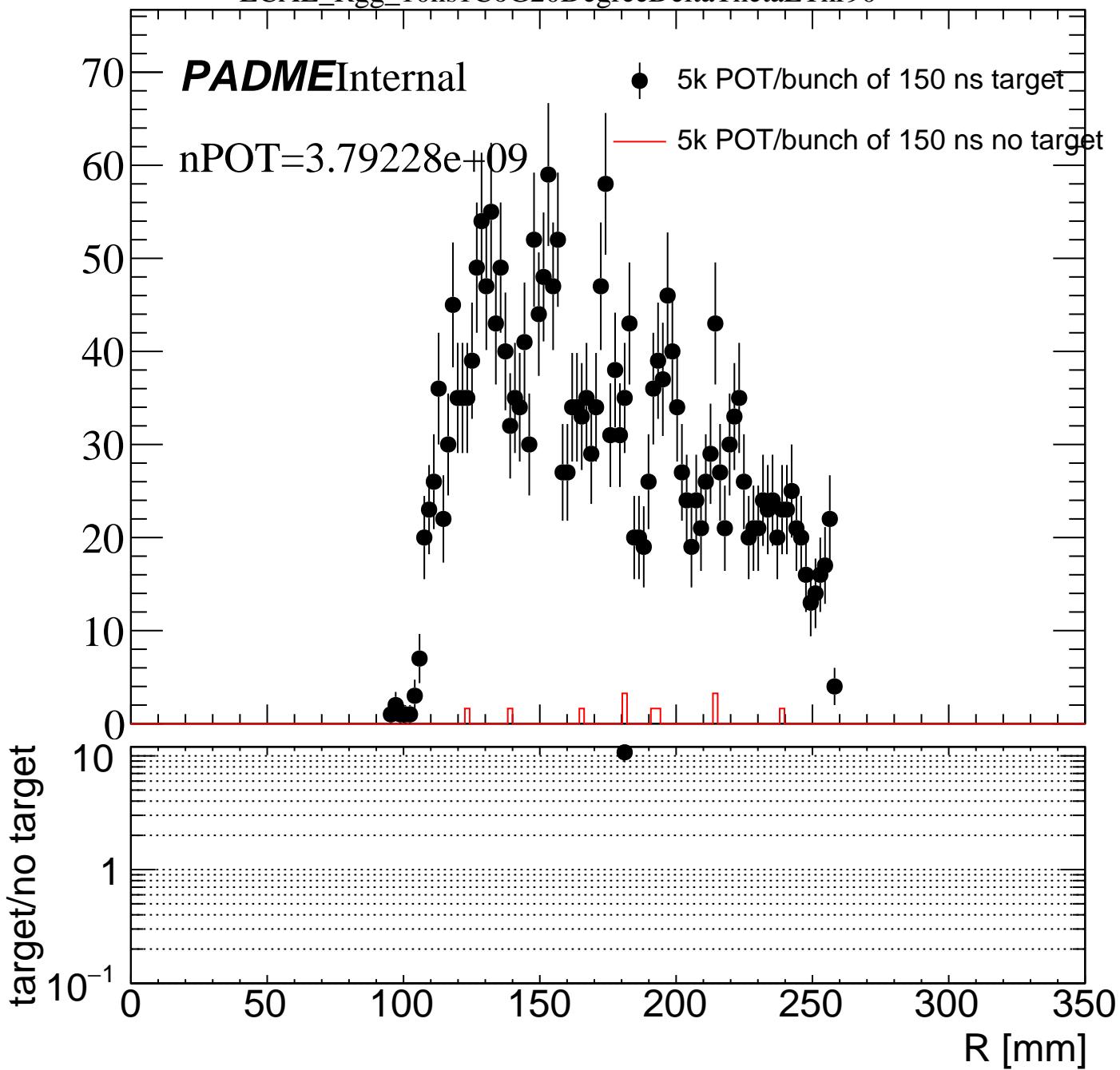
ECAL\_Rgg\_10ns20DegreeDeltaThetaETHr90



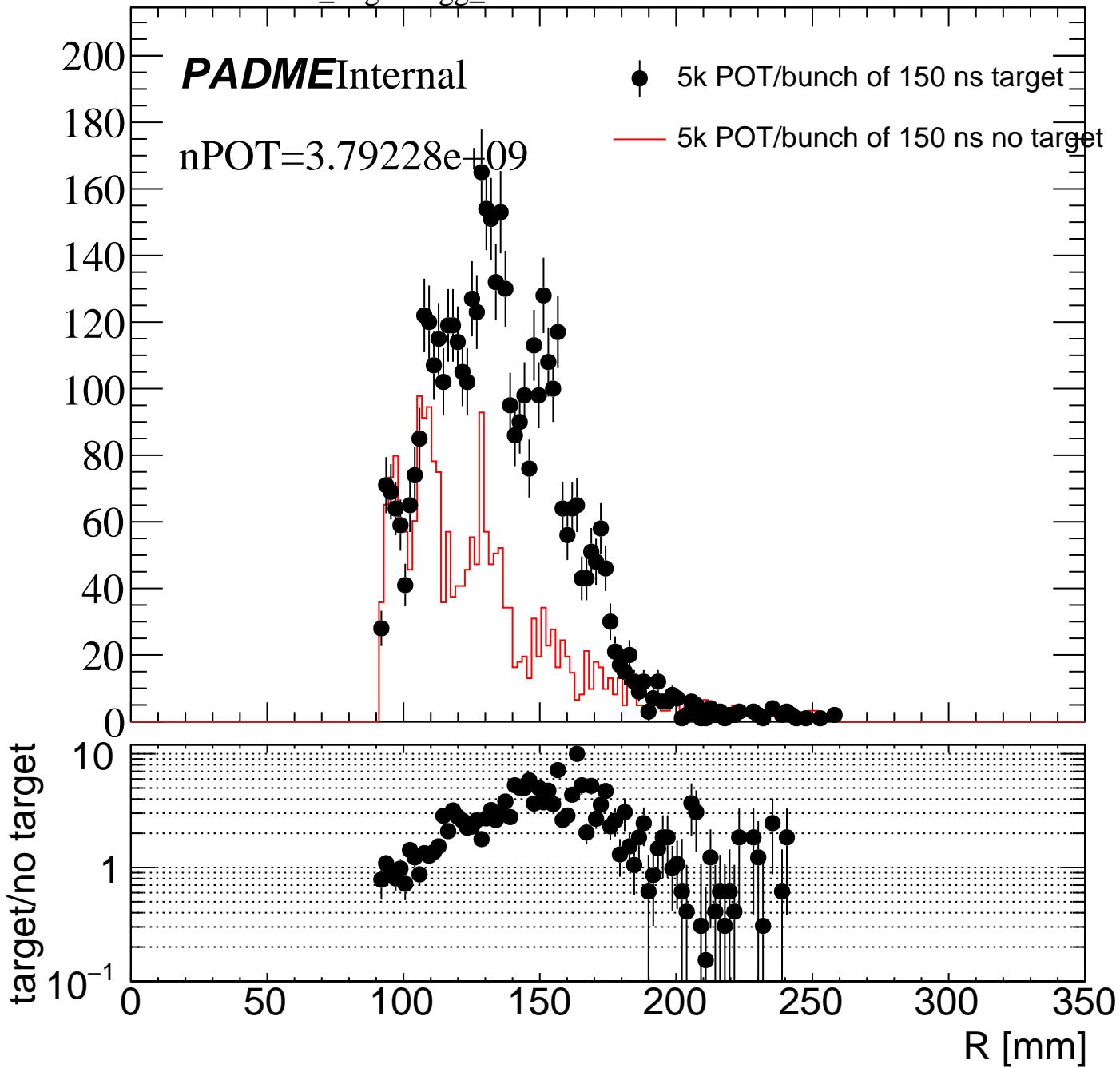
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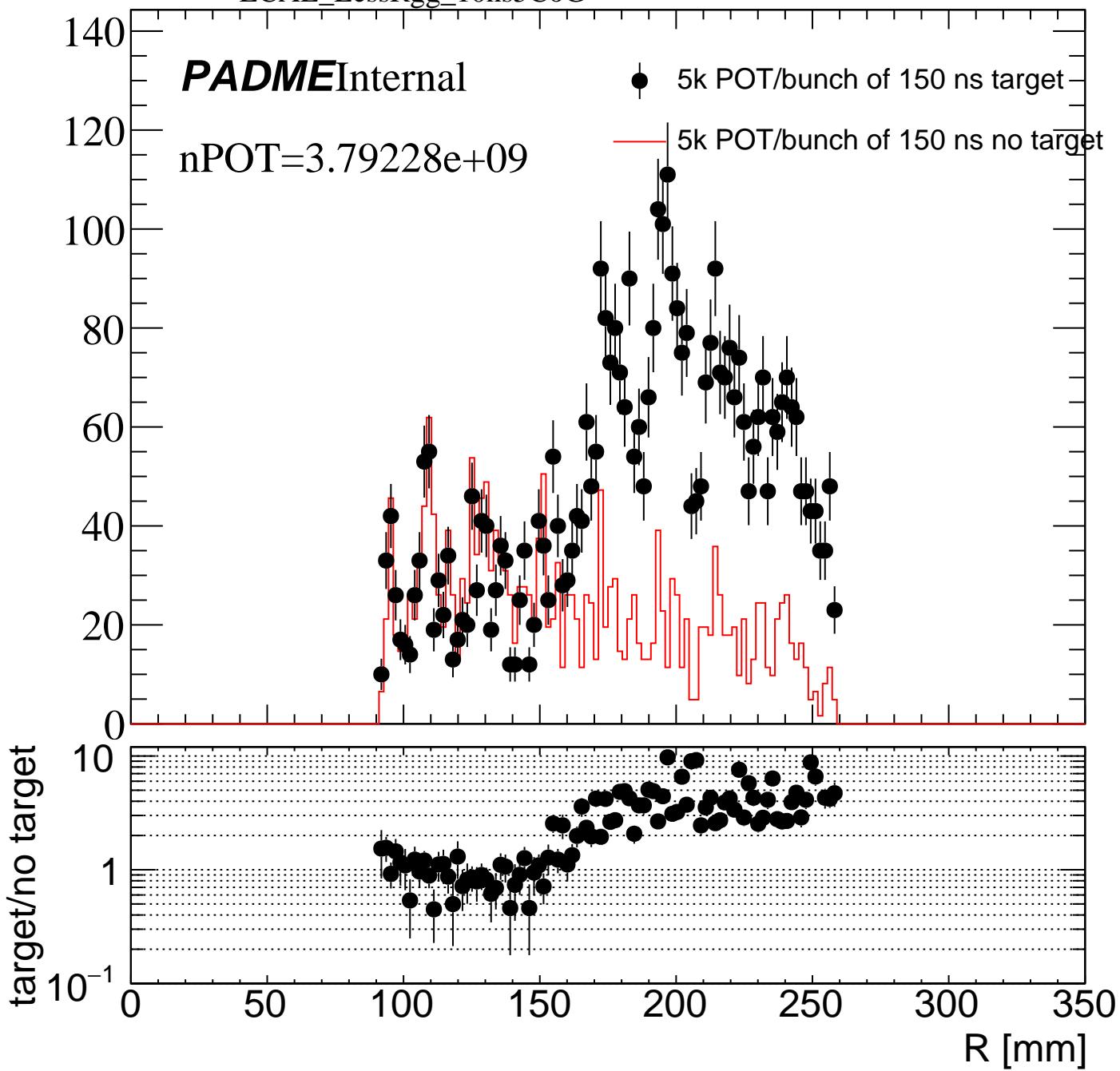
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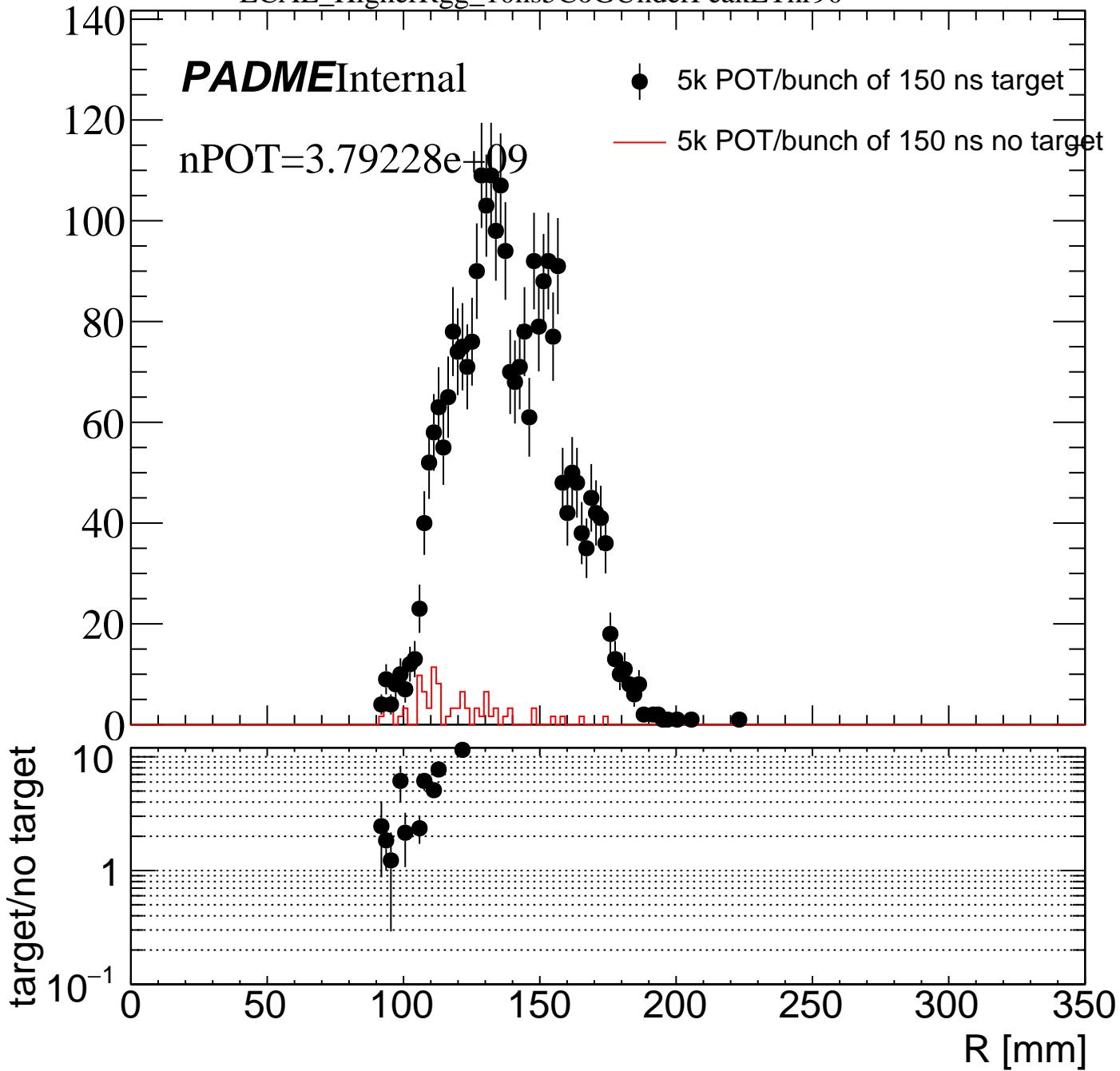
ECAL\_HigherRgg\_10ns5CoG



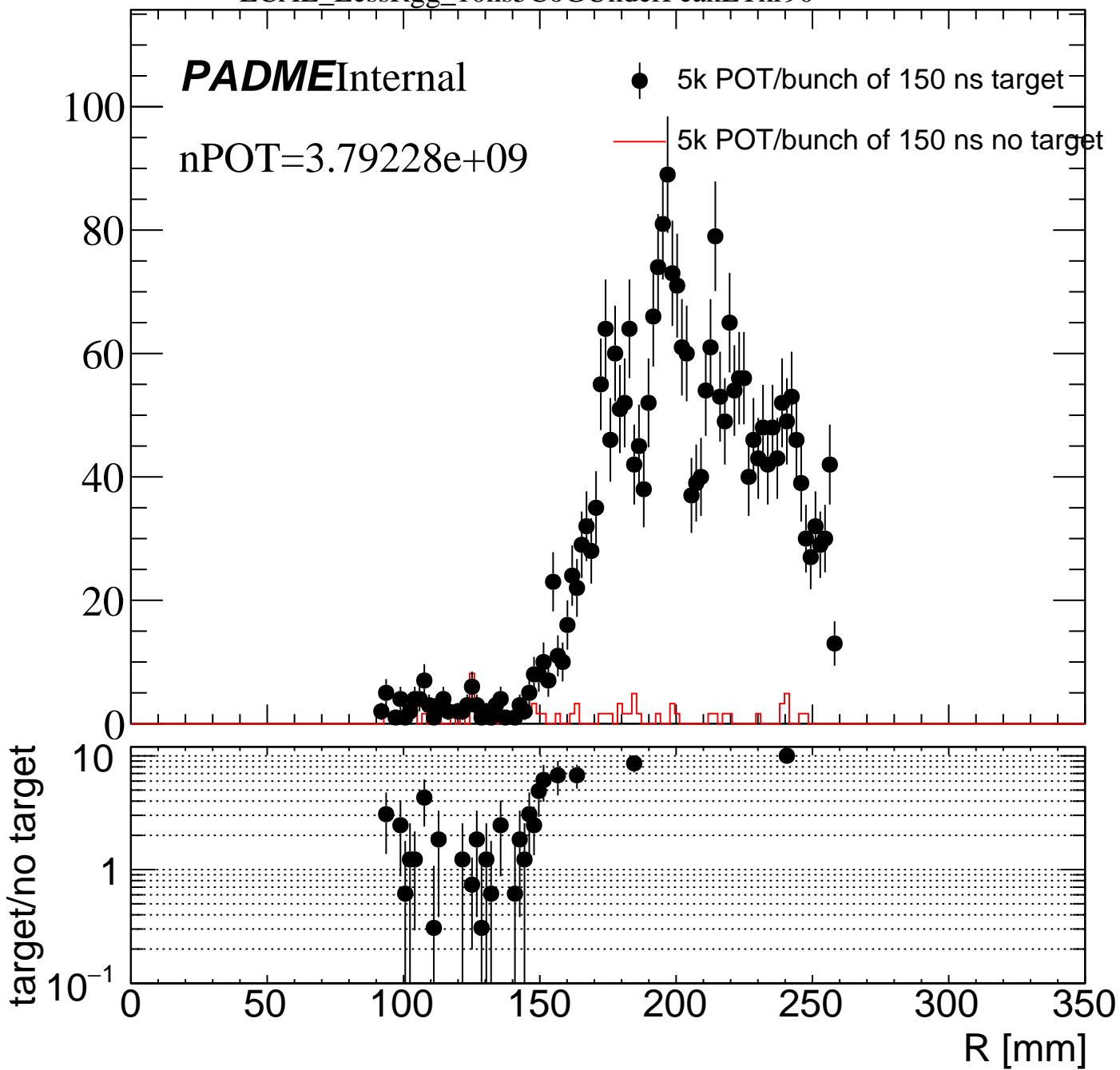
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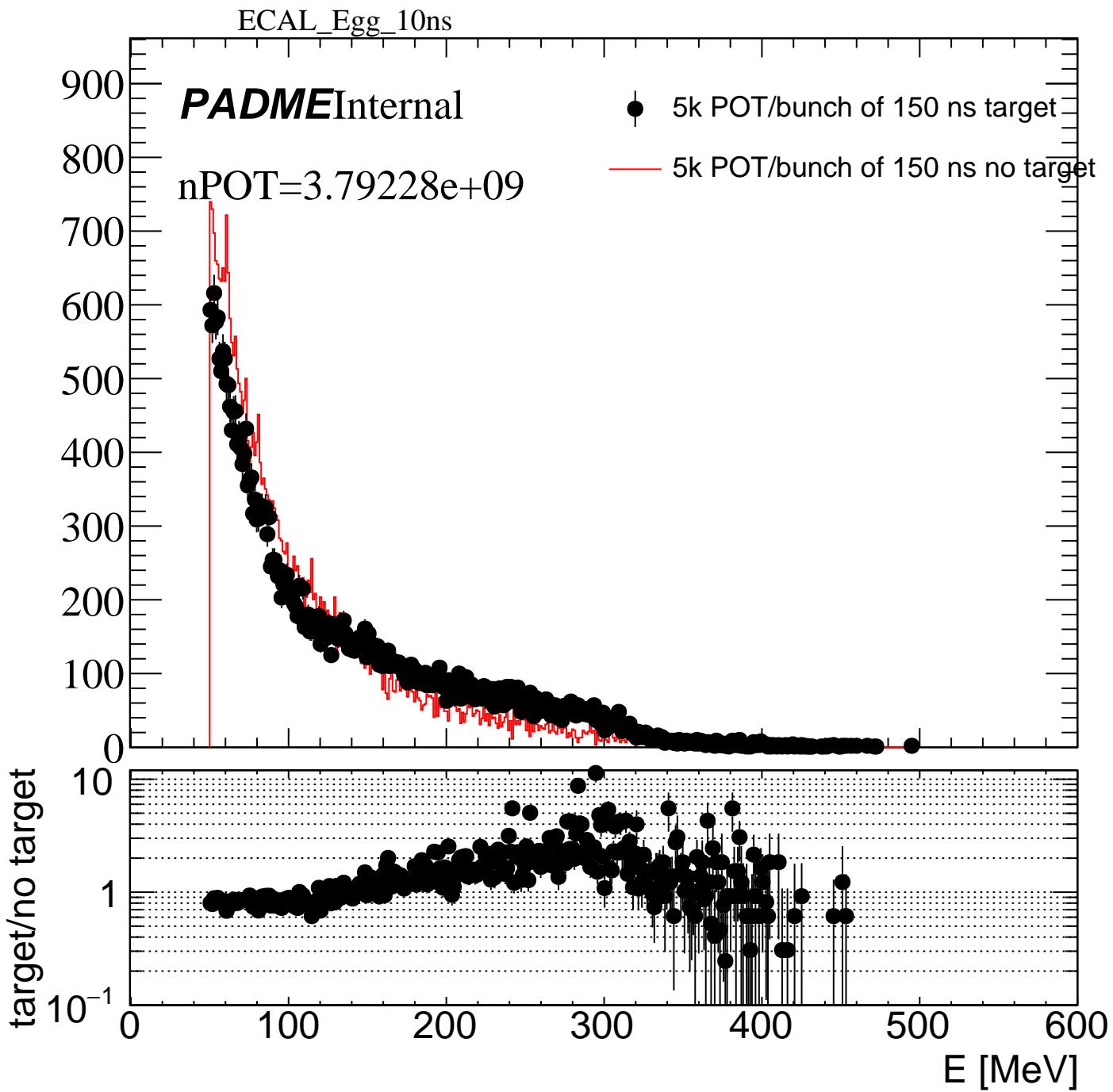


ECAL\_HigherRgg\_10ns5CoGUnderPeakEThr90

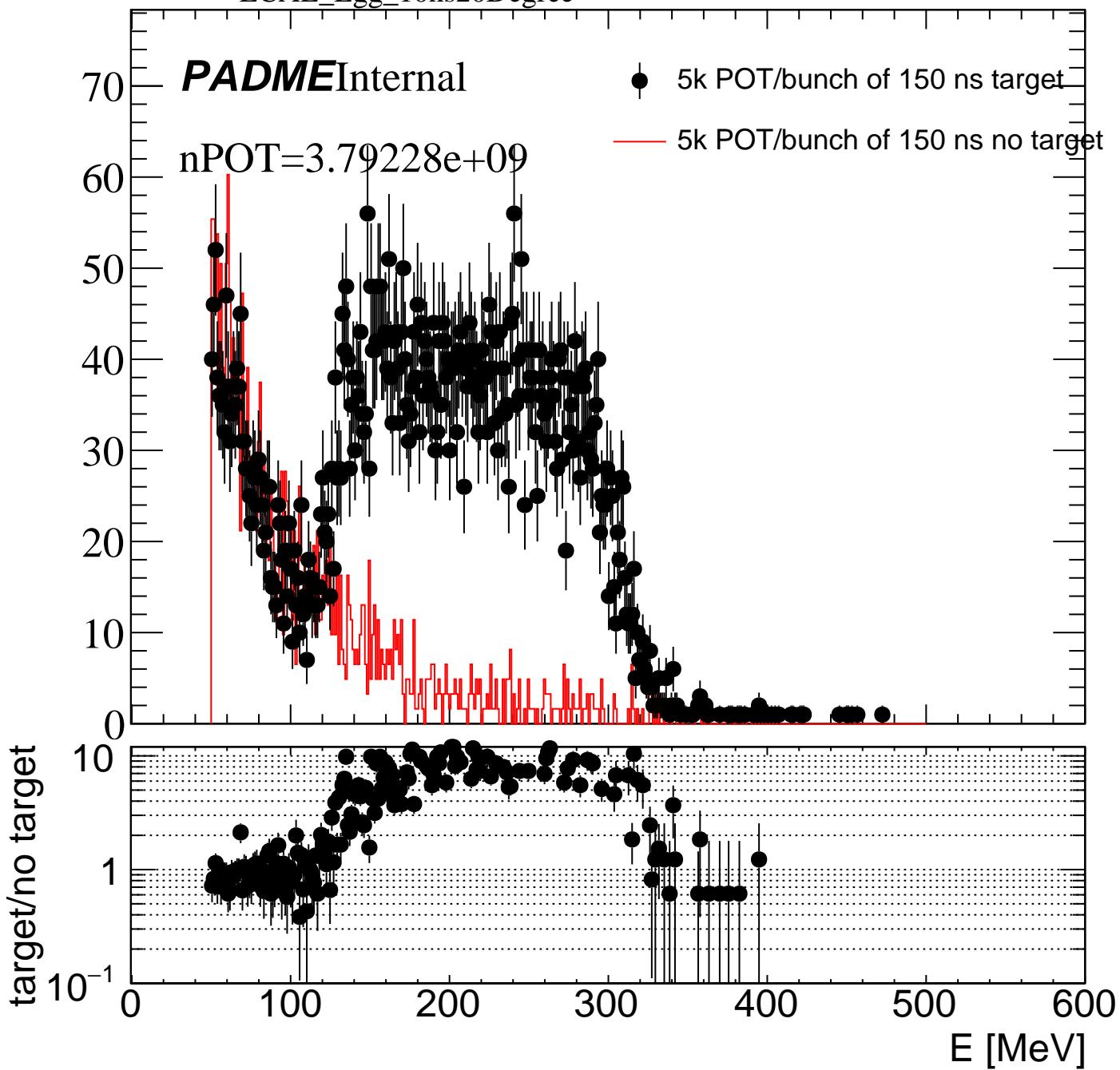


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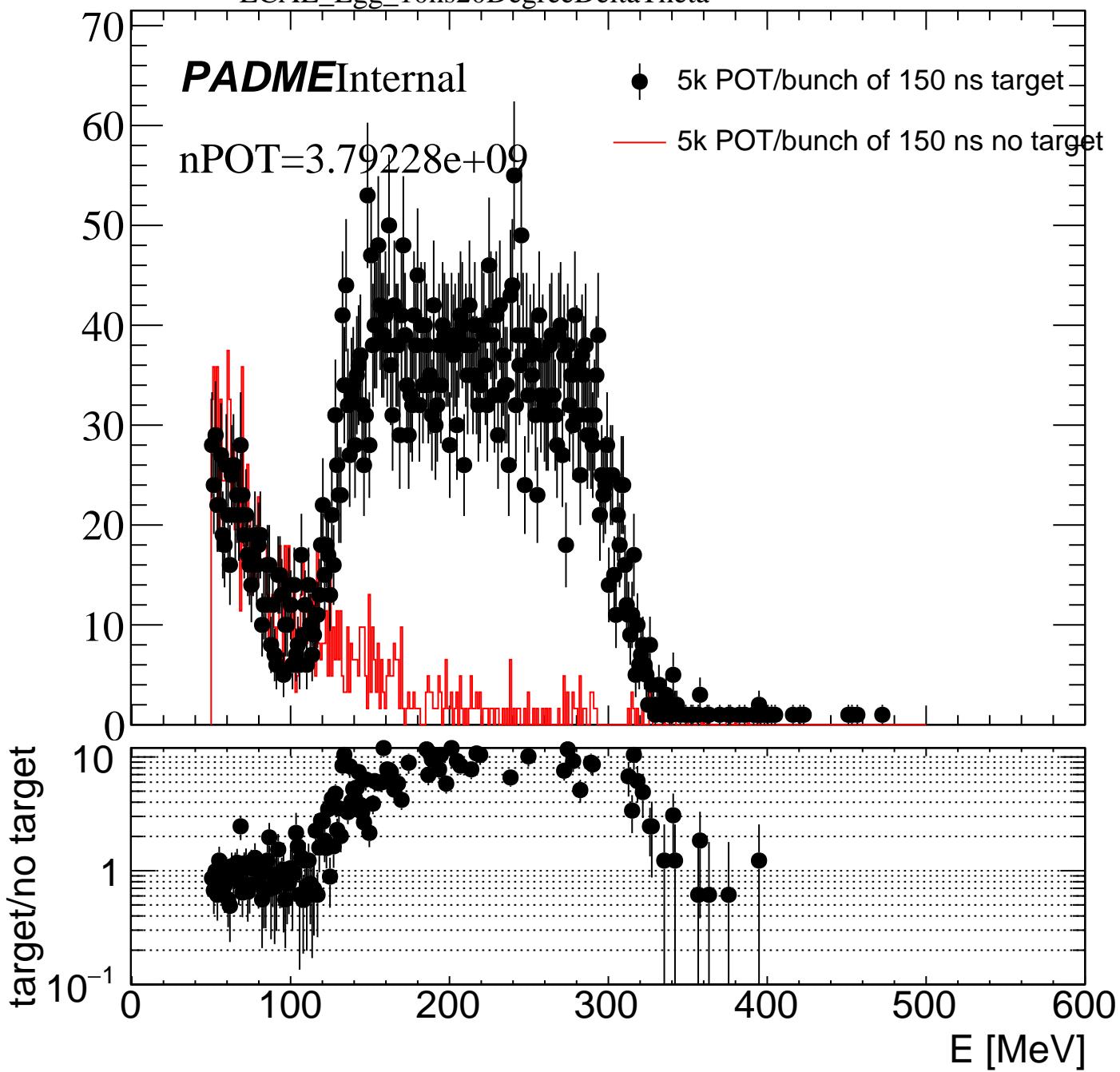




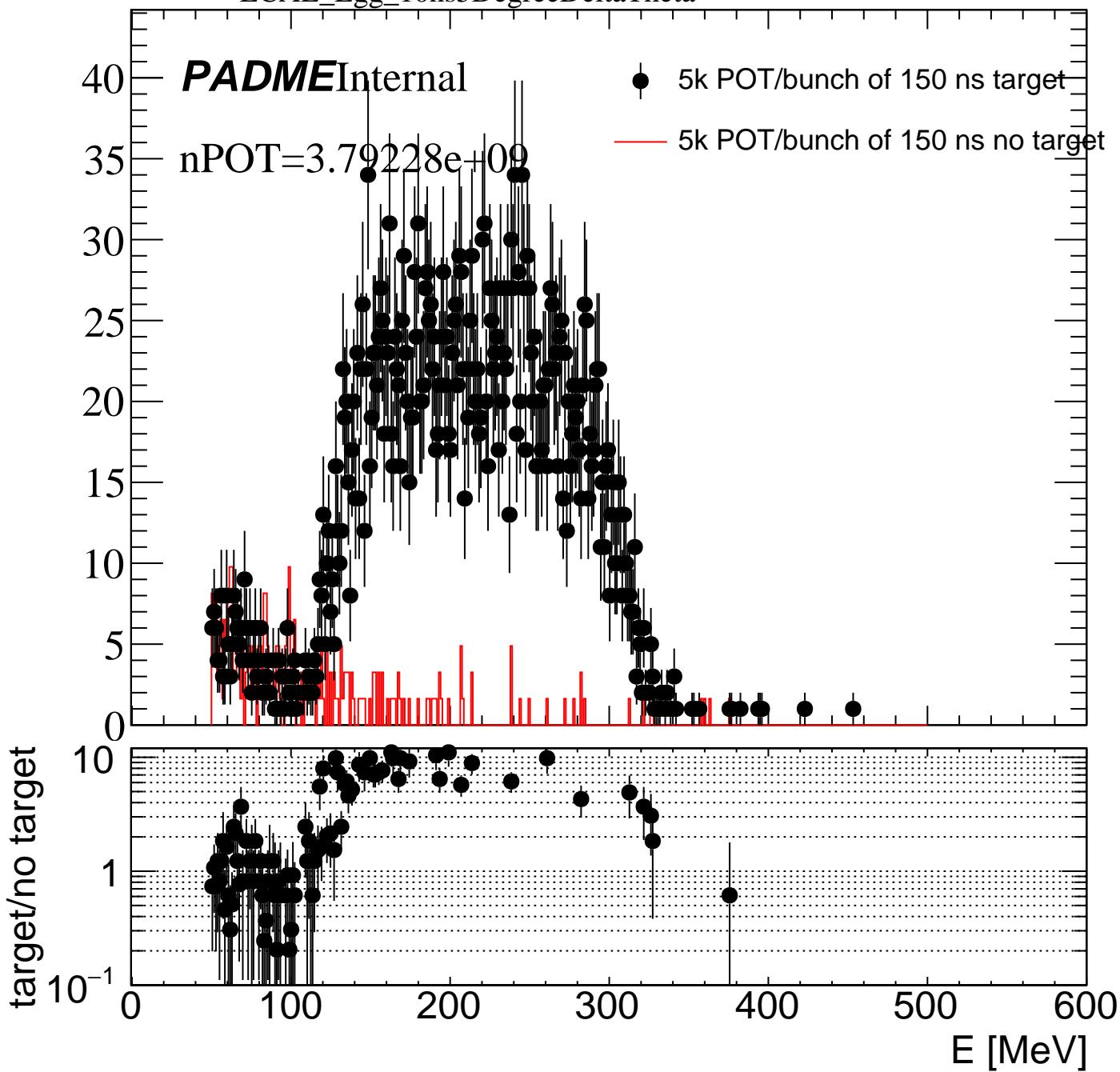
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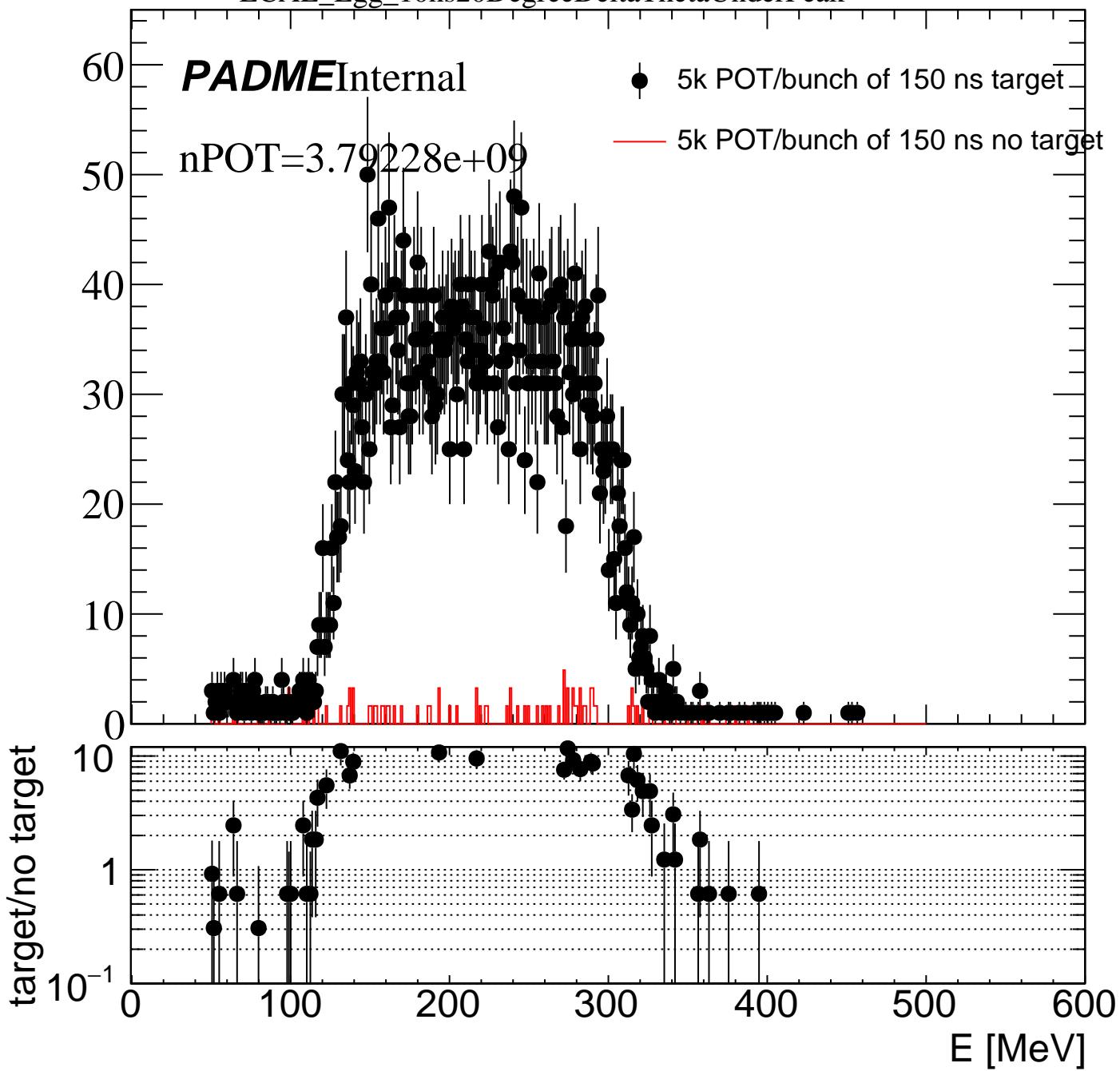
ECAL\_Egg\_10ns20DegreeDeltaTheta



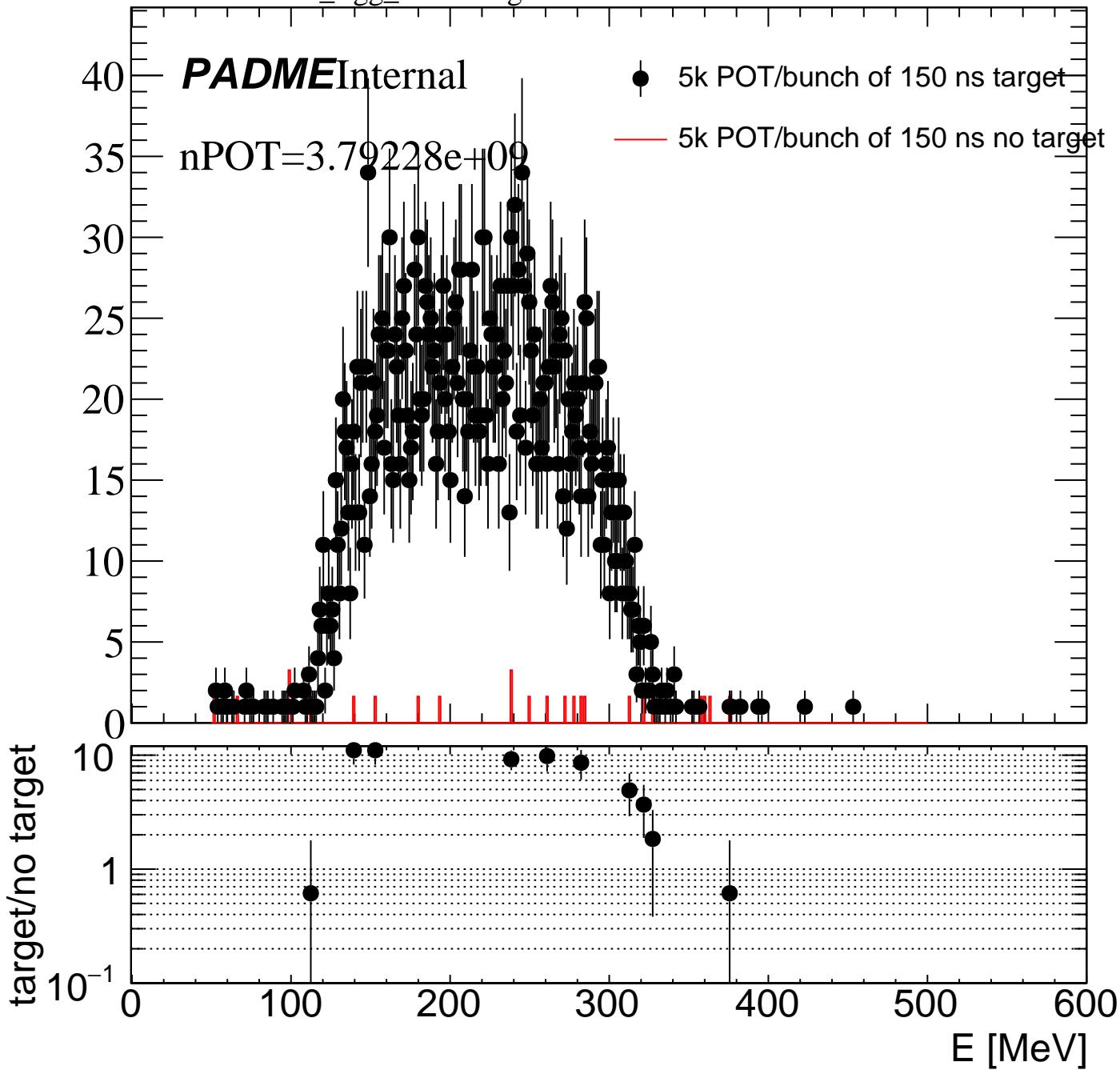
# ECAL\_Egg\_10ns5DegreeDeltaTheta



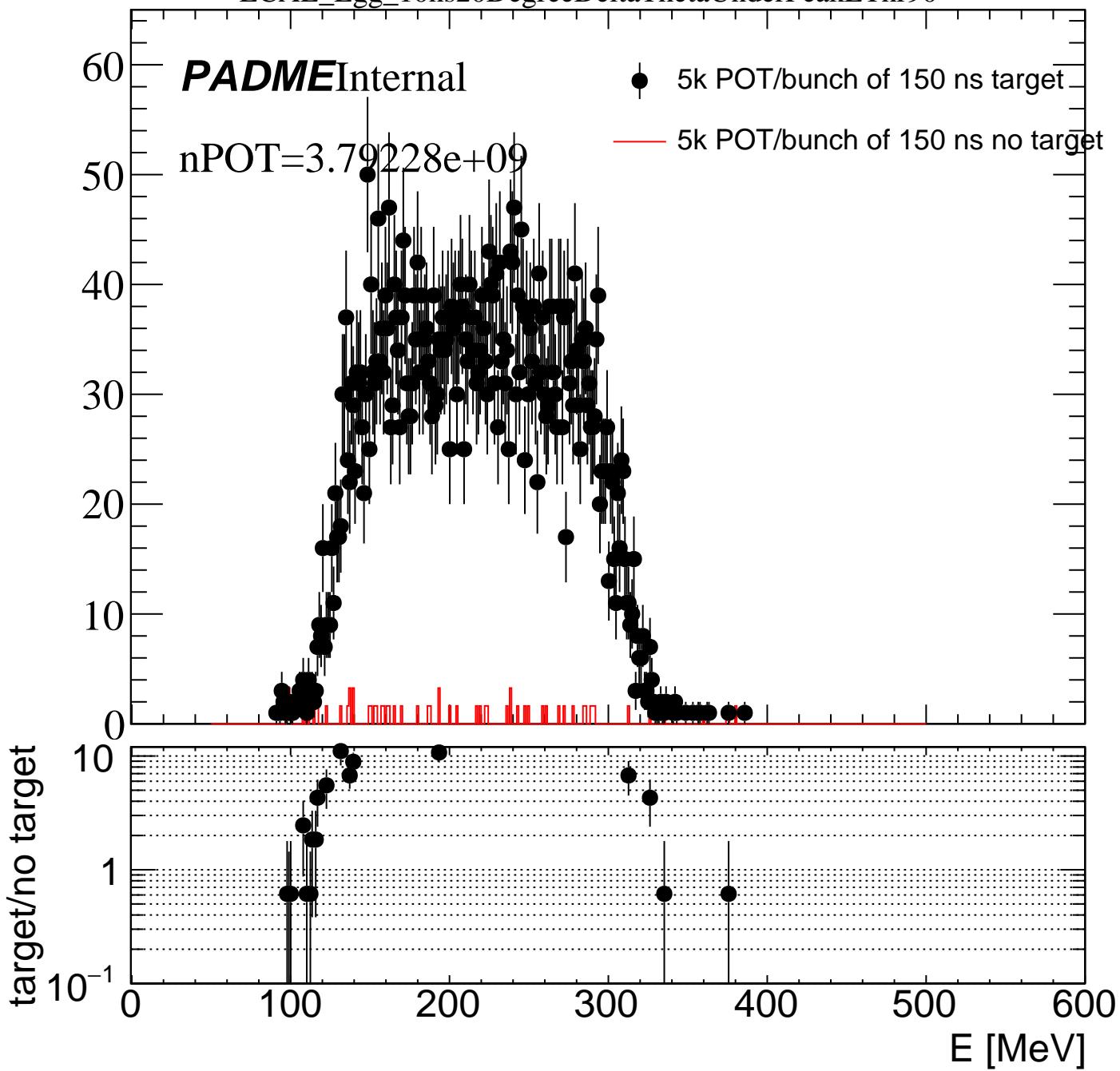
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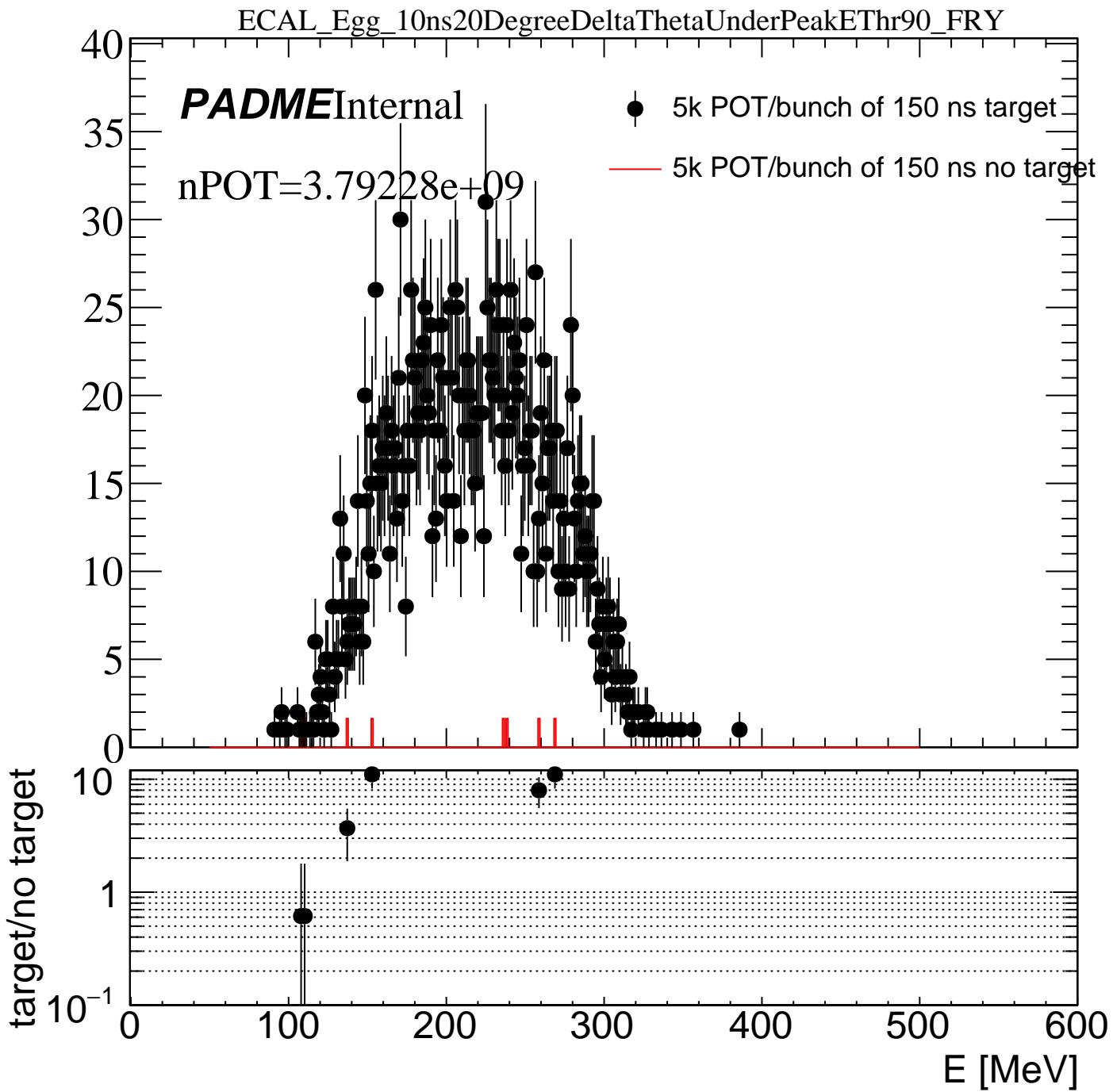


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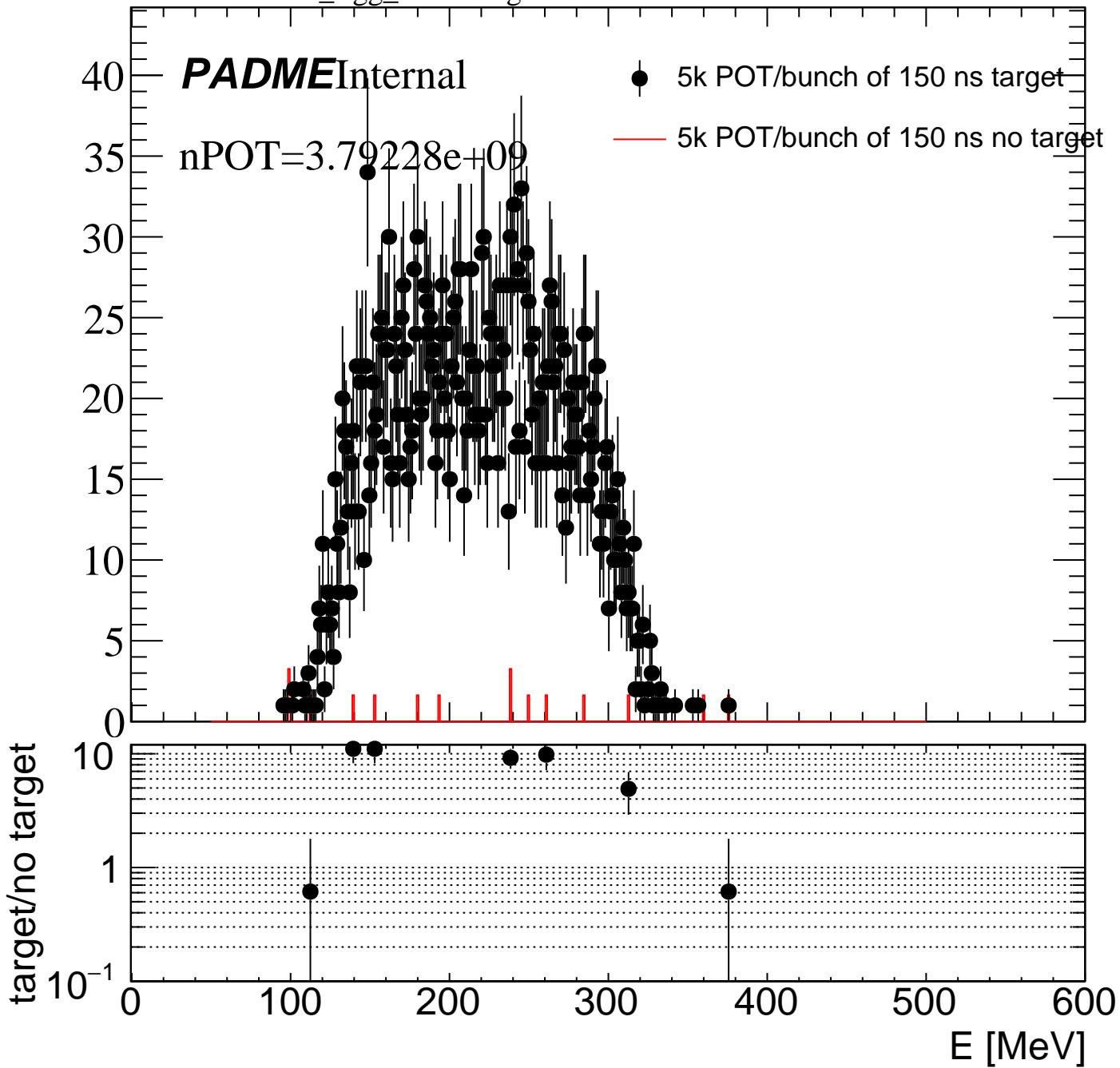


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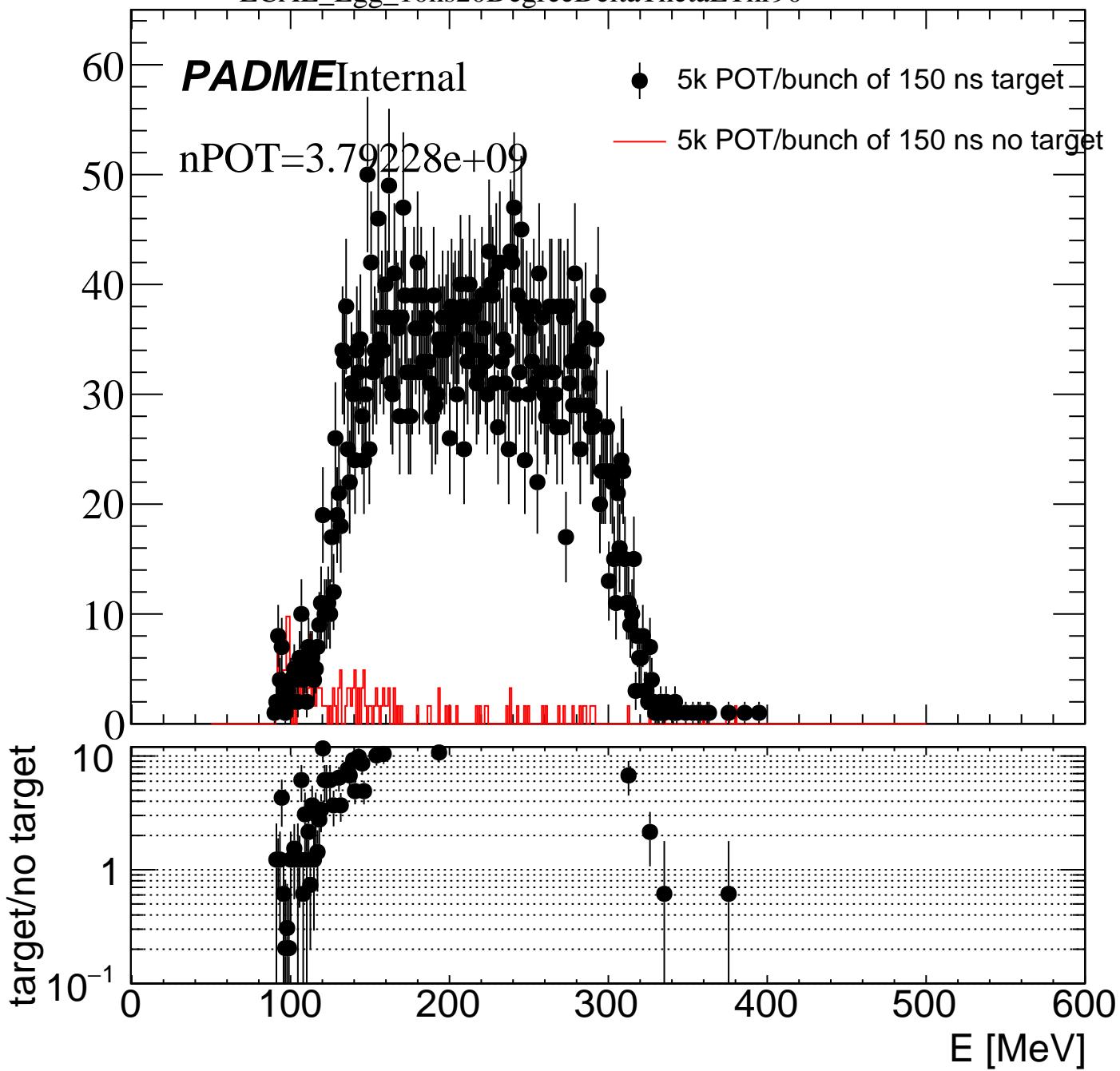




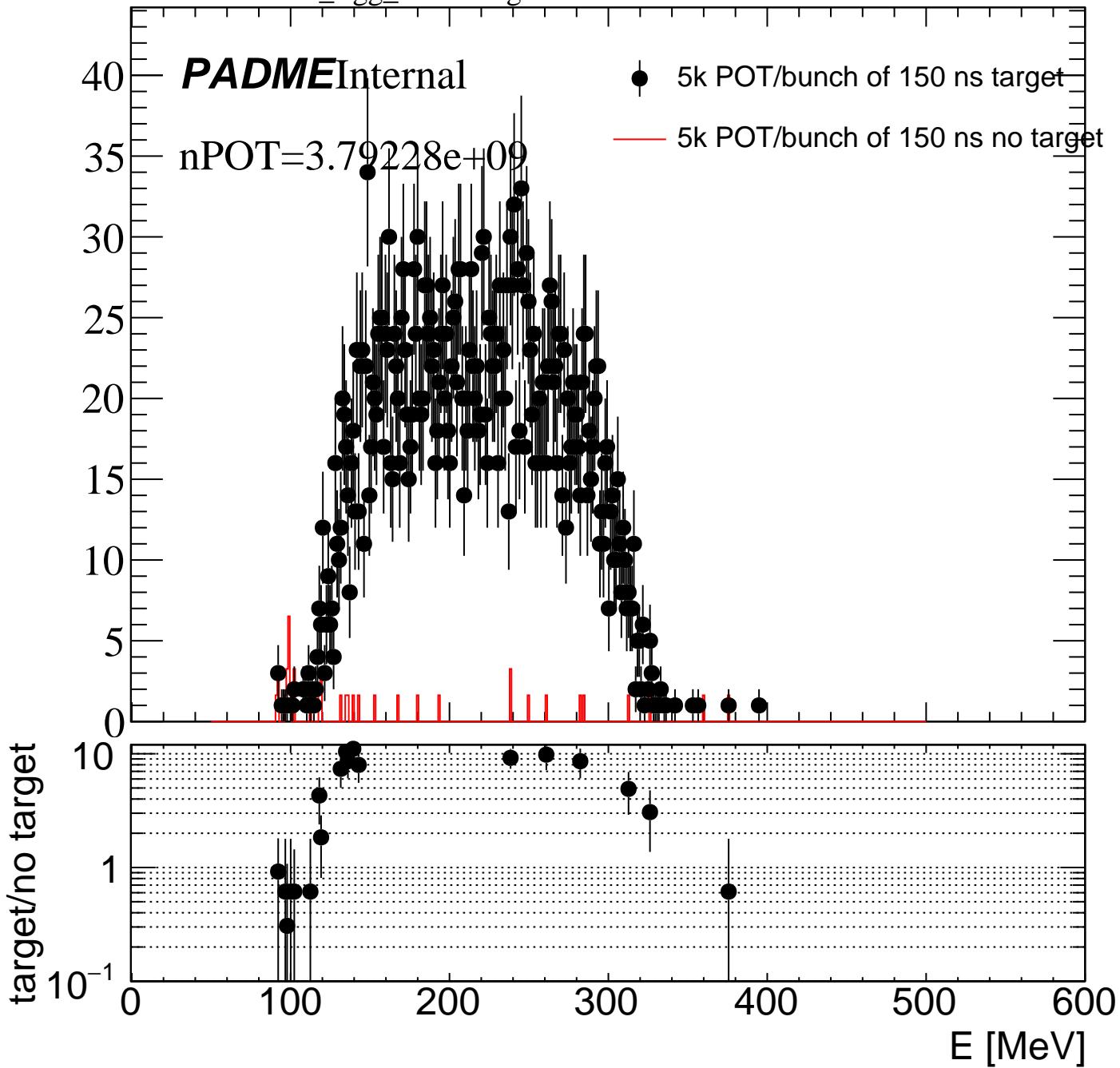
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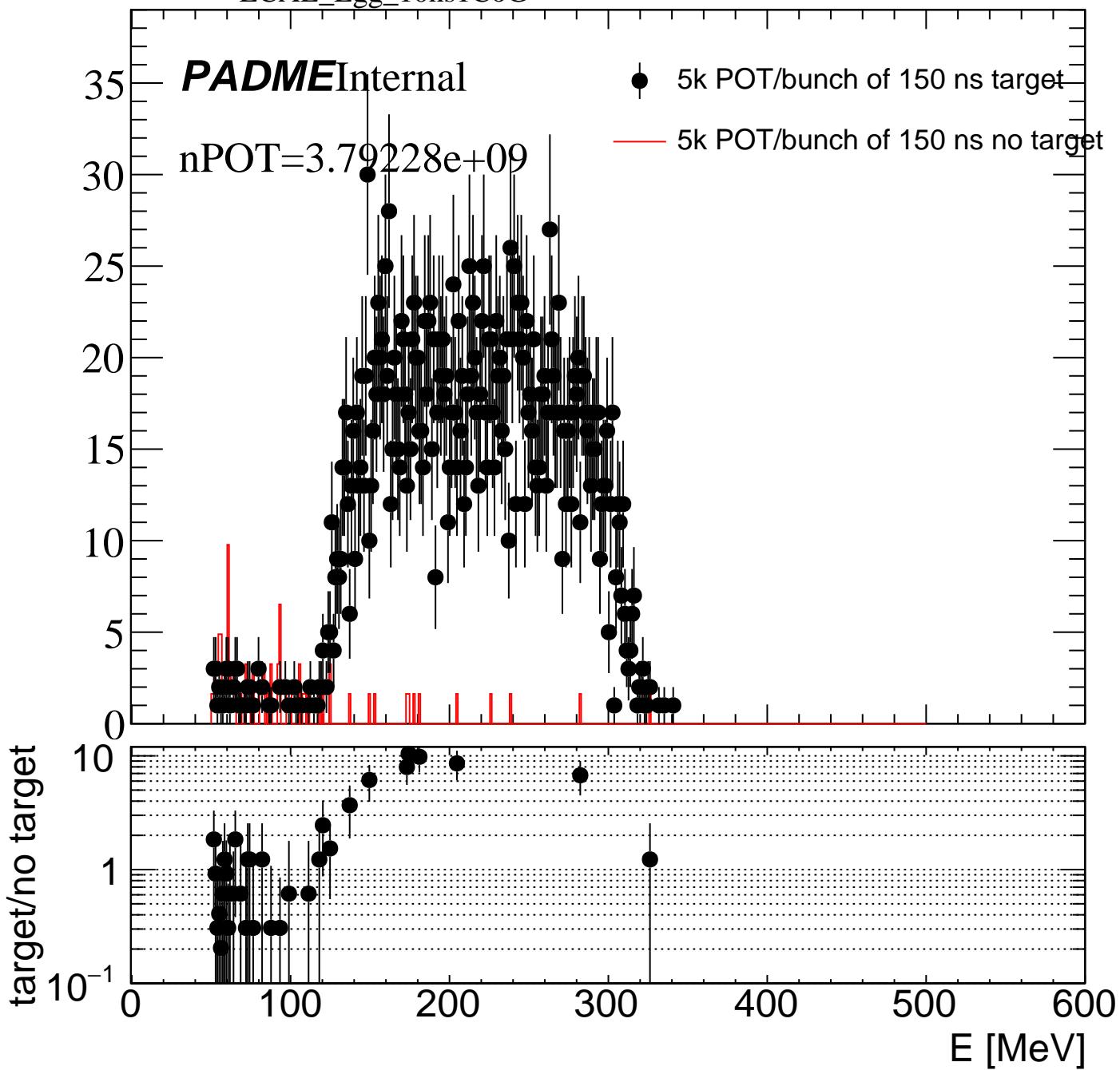
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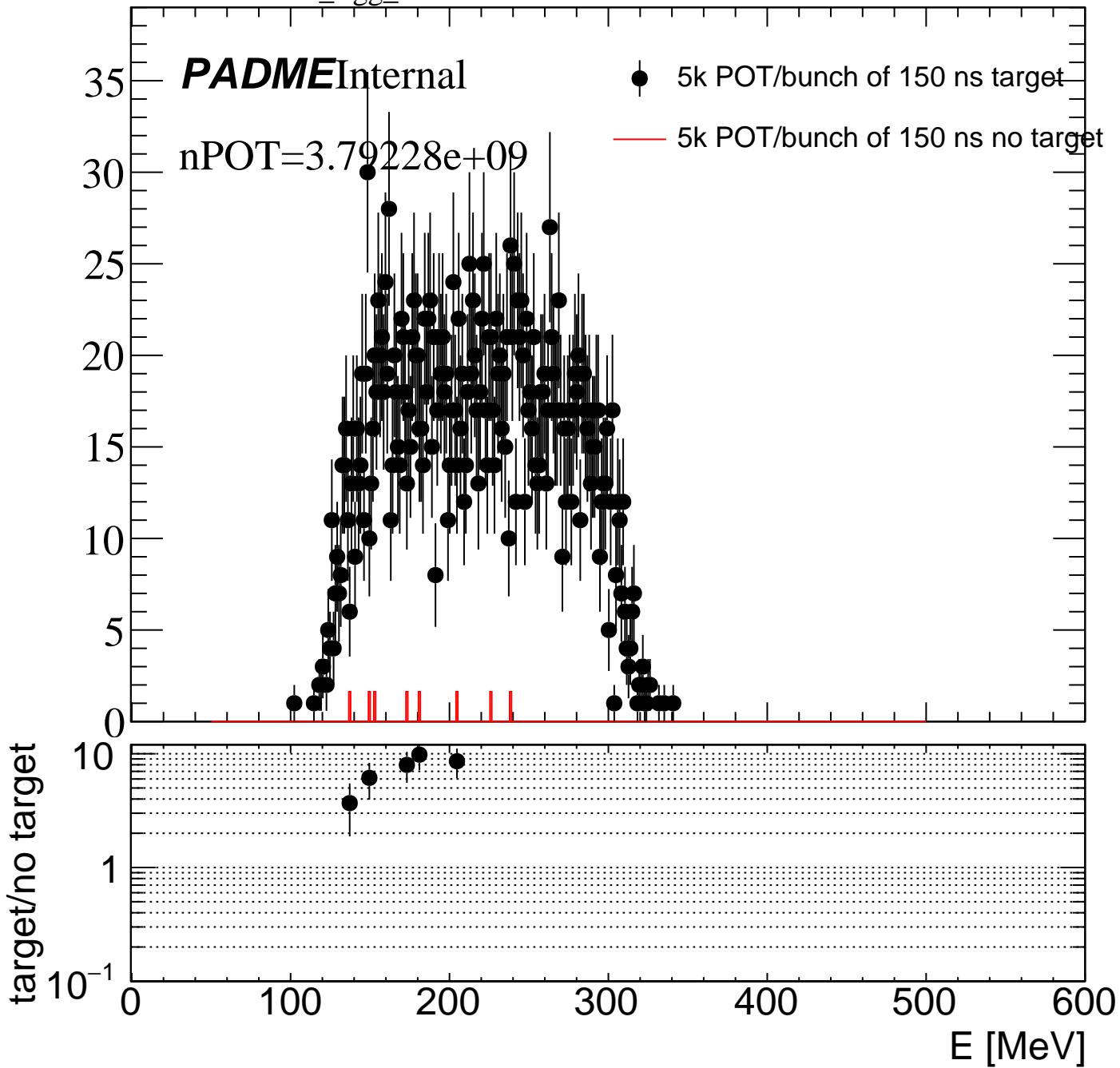
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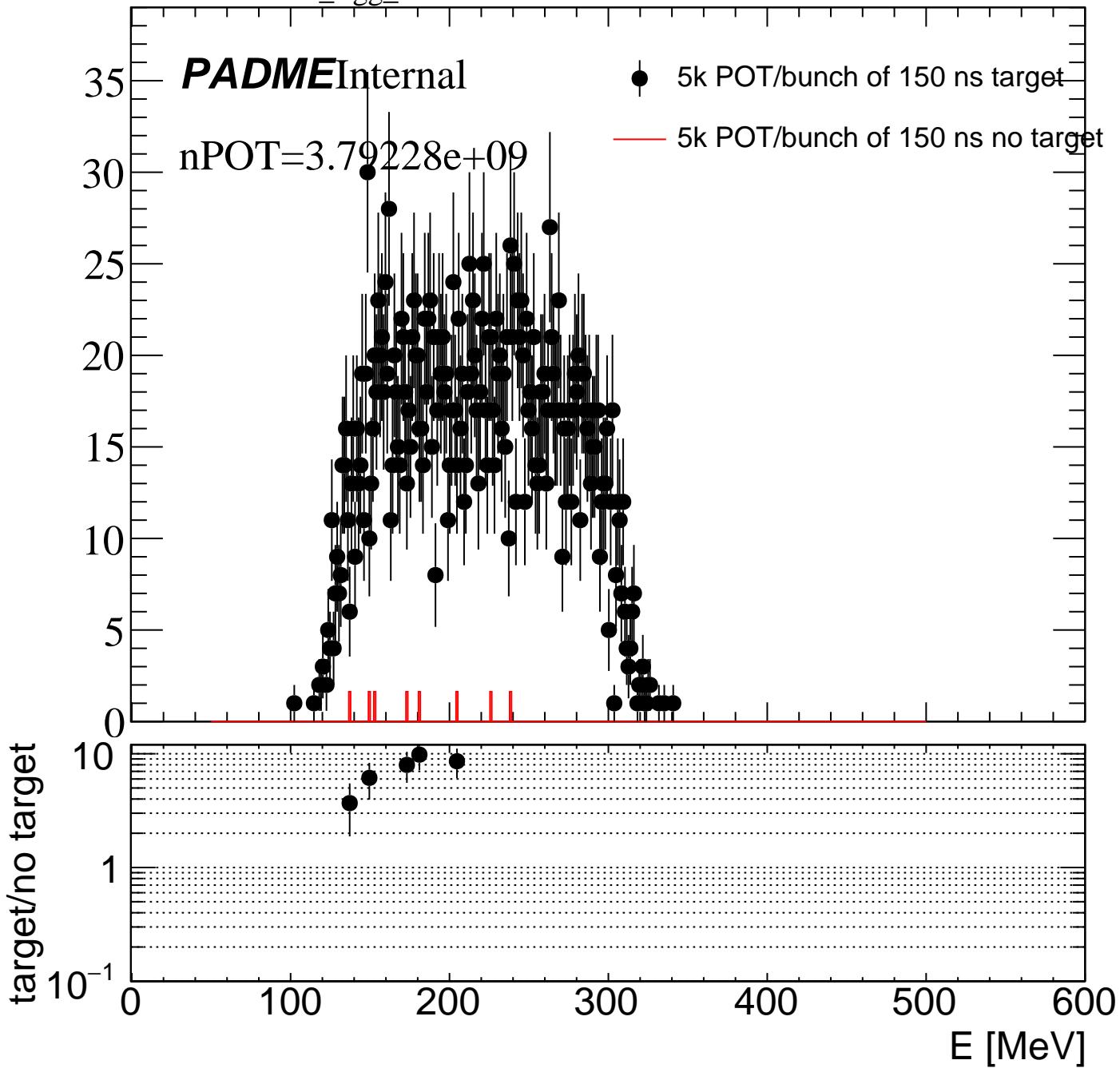
ECAL\_Egg\_10ns1CoG



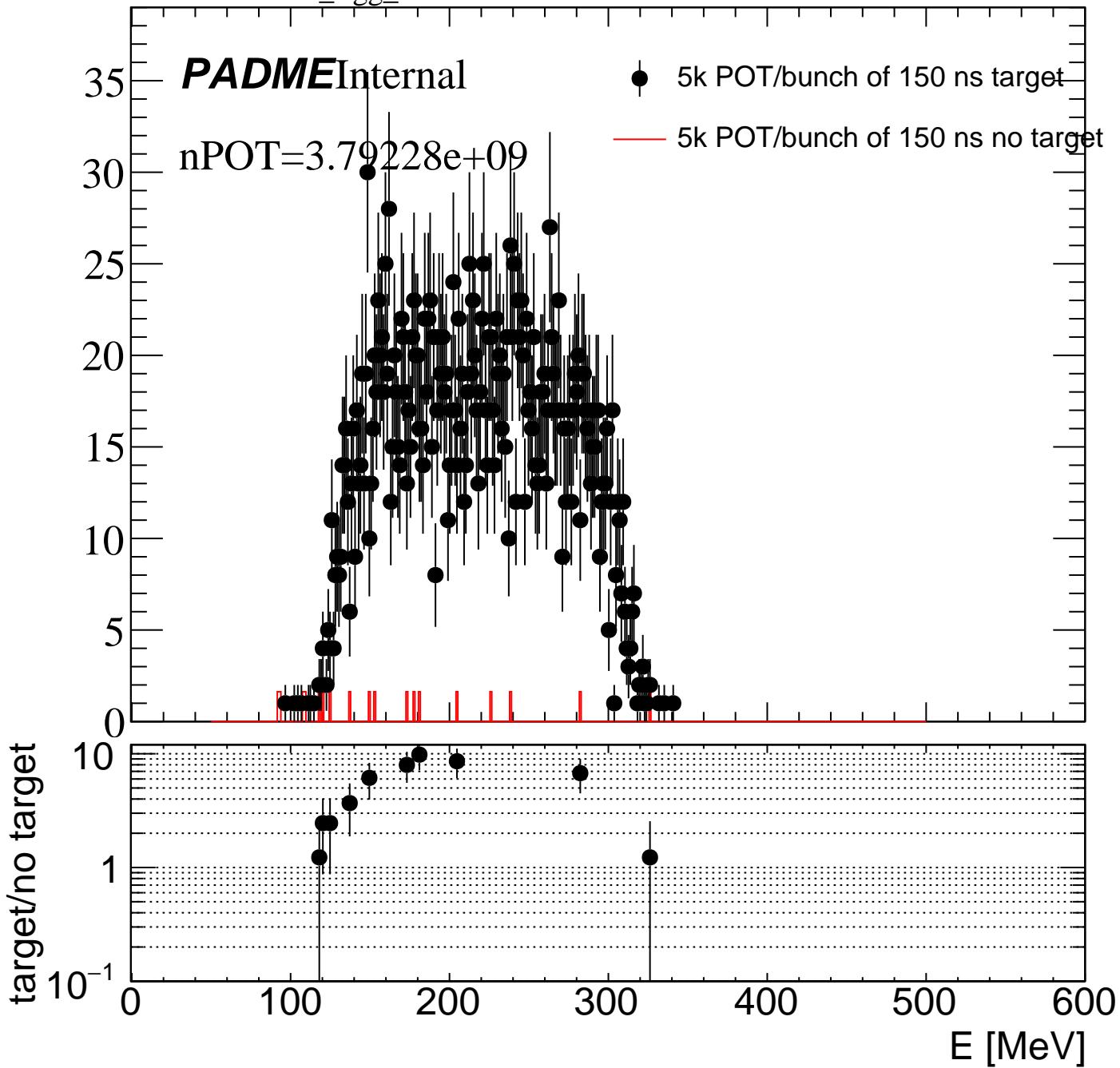
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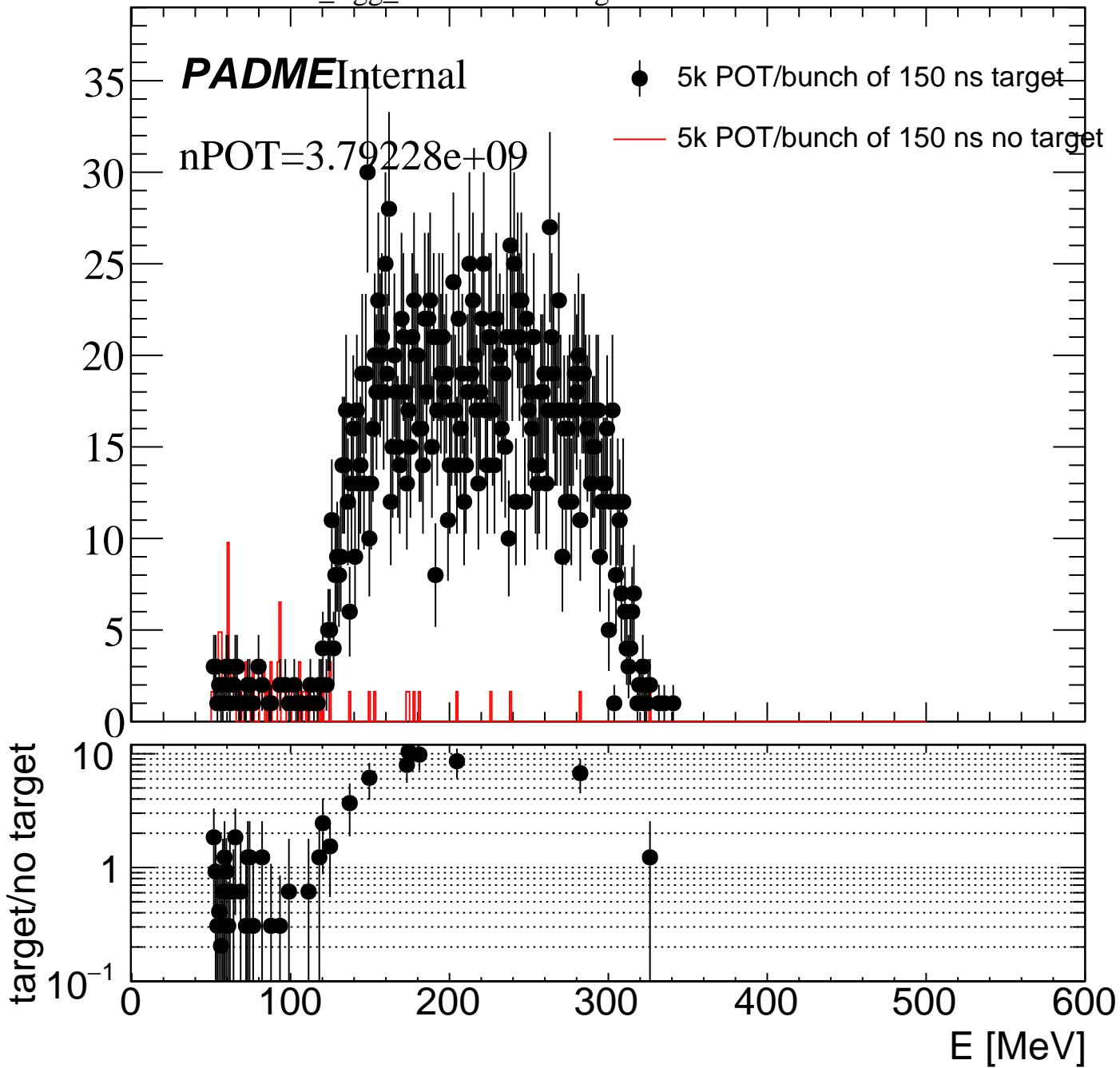
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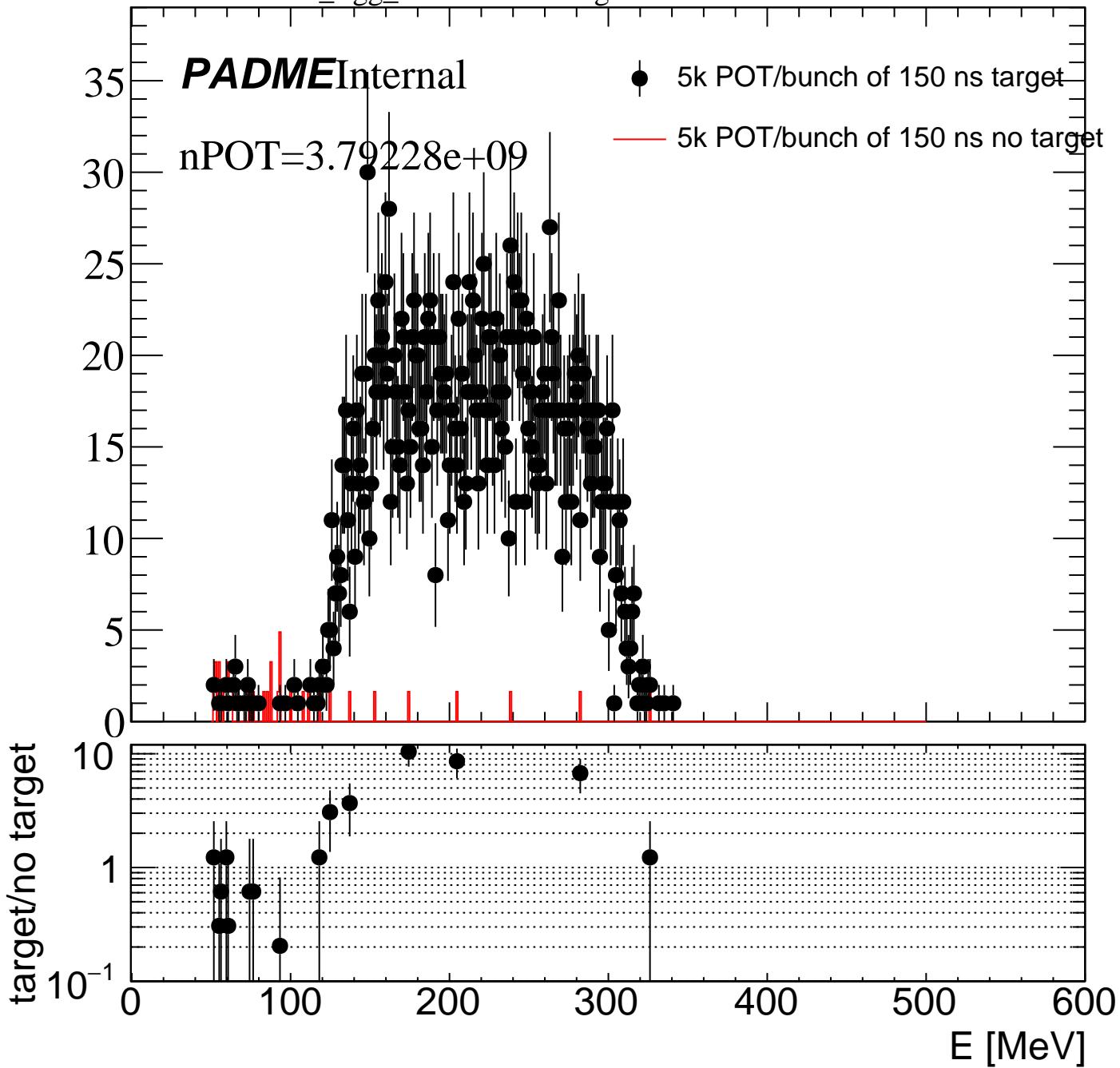
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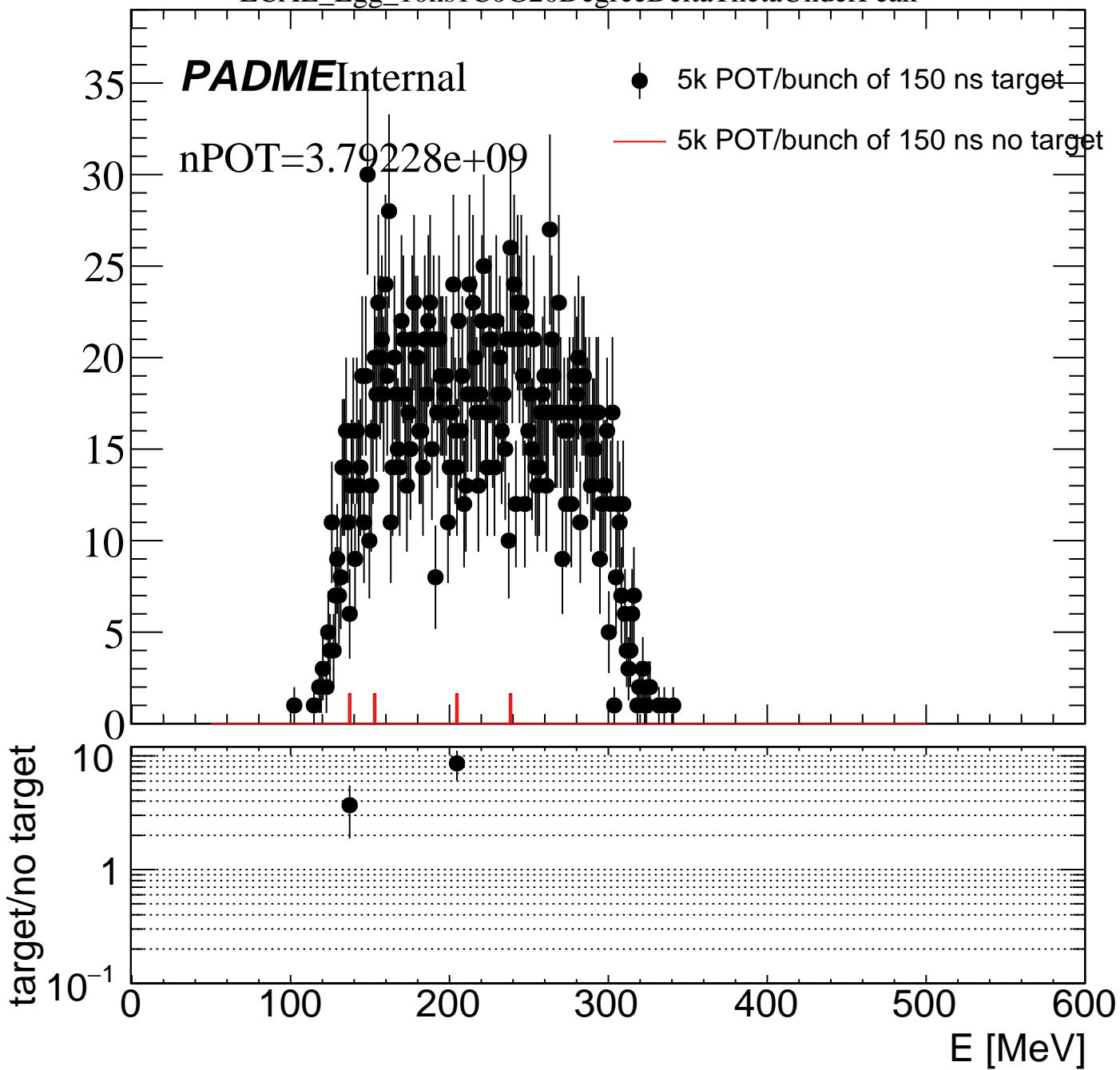
ECAL\_Egg\_10ns1CoG20Degree



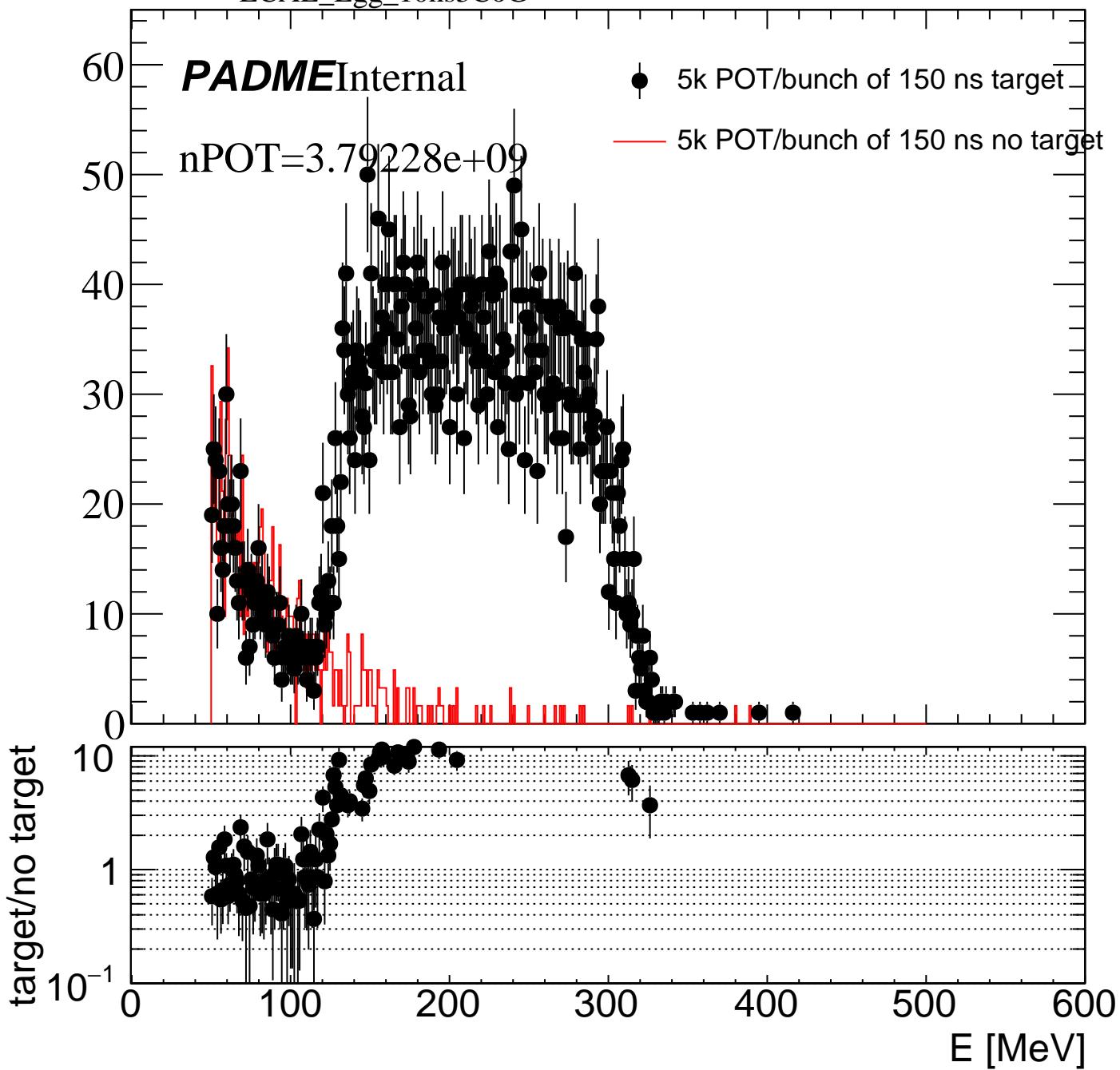
ECAL\_Egg\_10ns1CoG20DegreeDeltaTheta



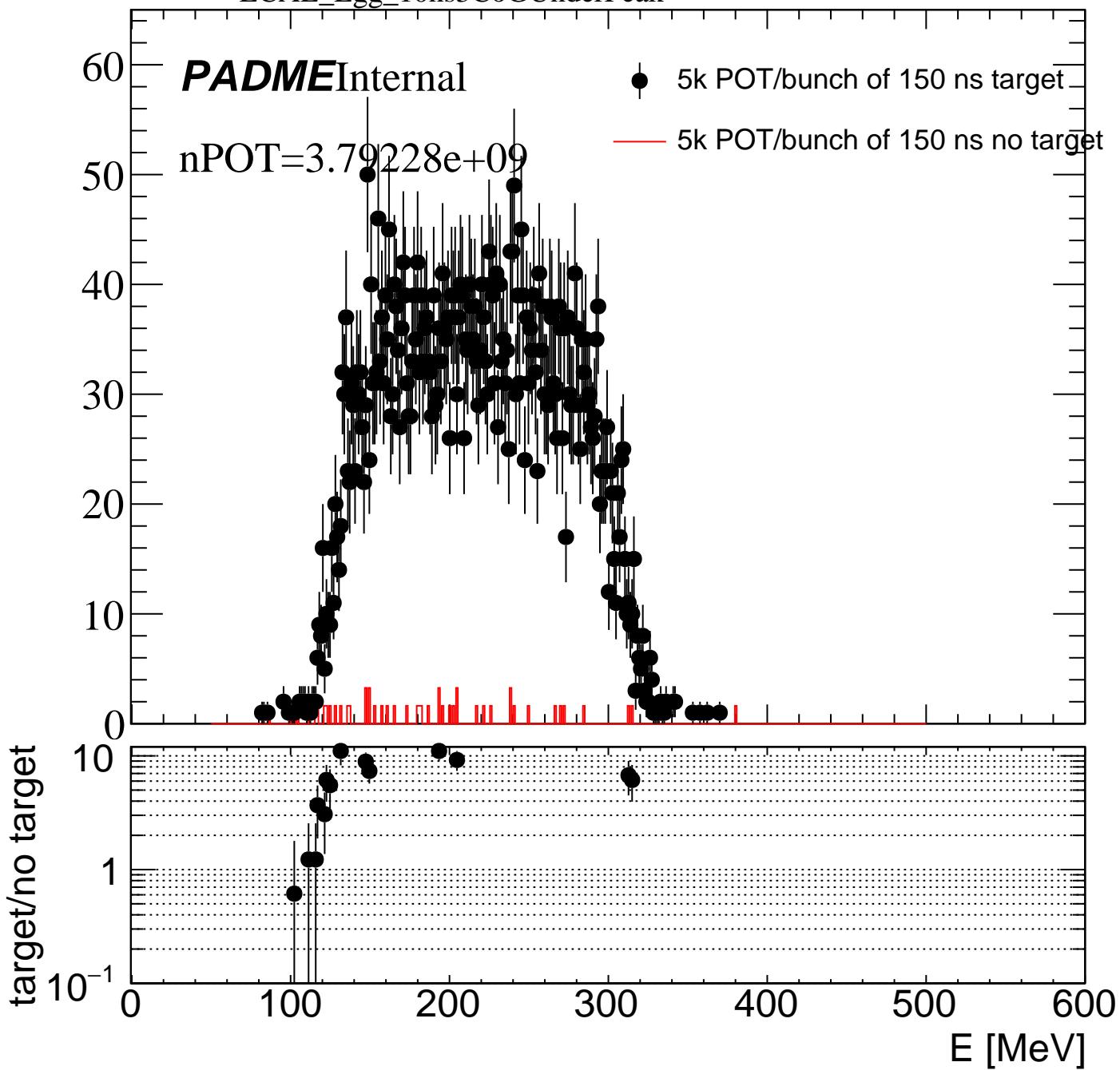
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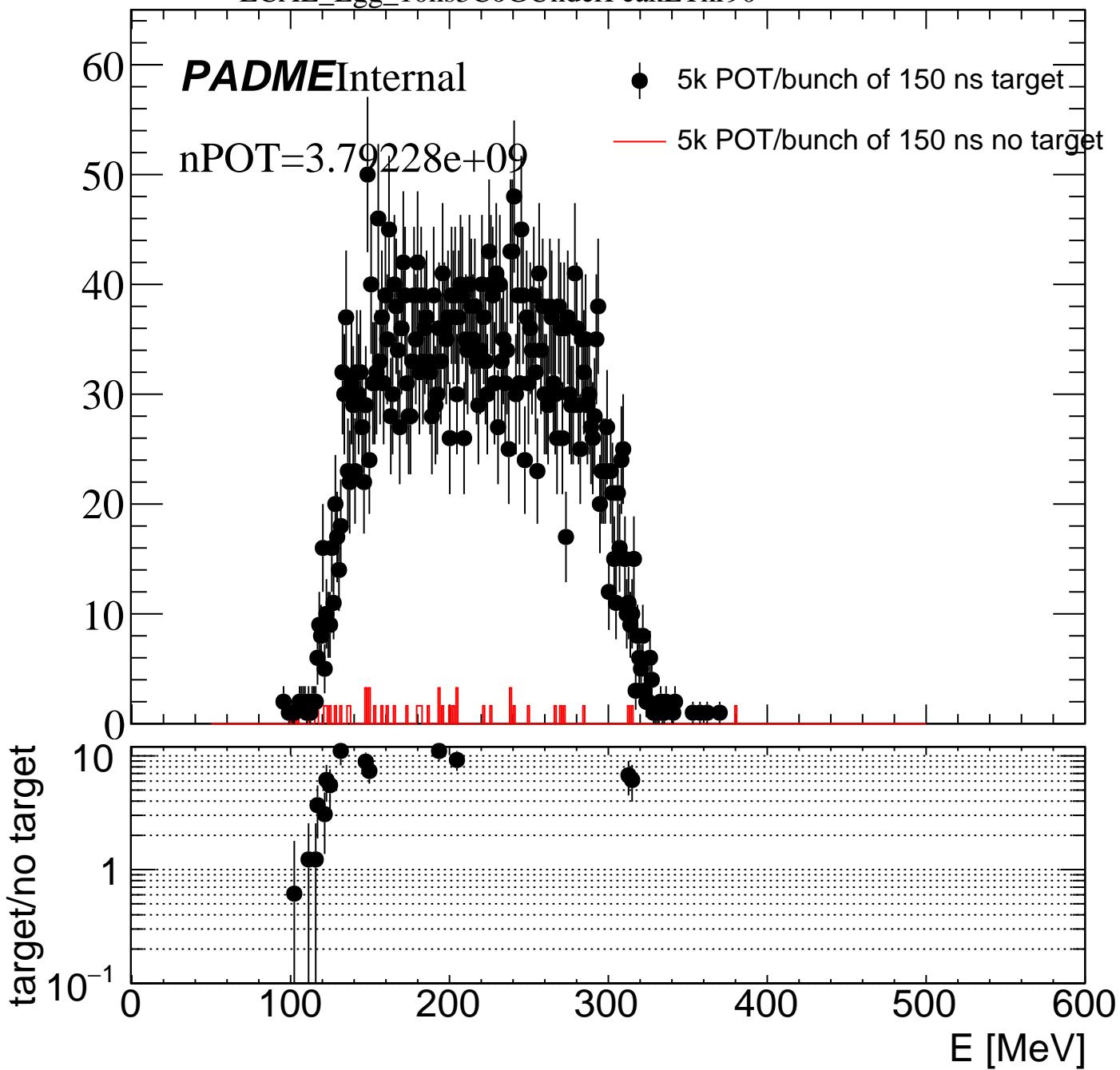
ECAL\_Egg\_10ns3CoG

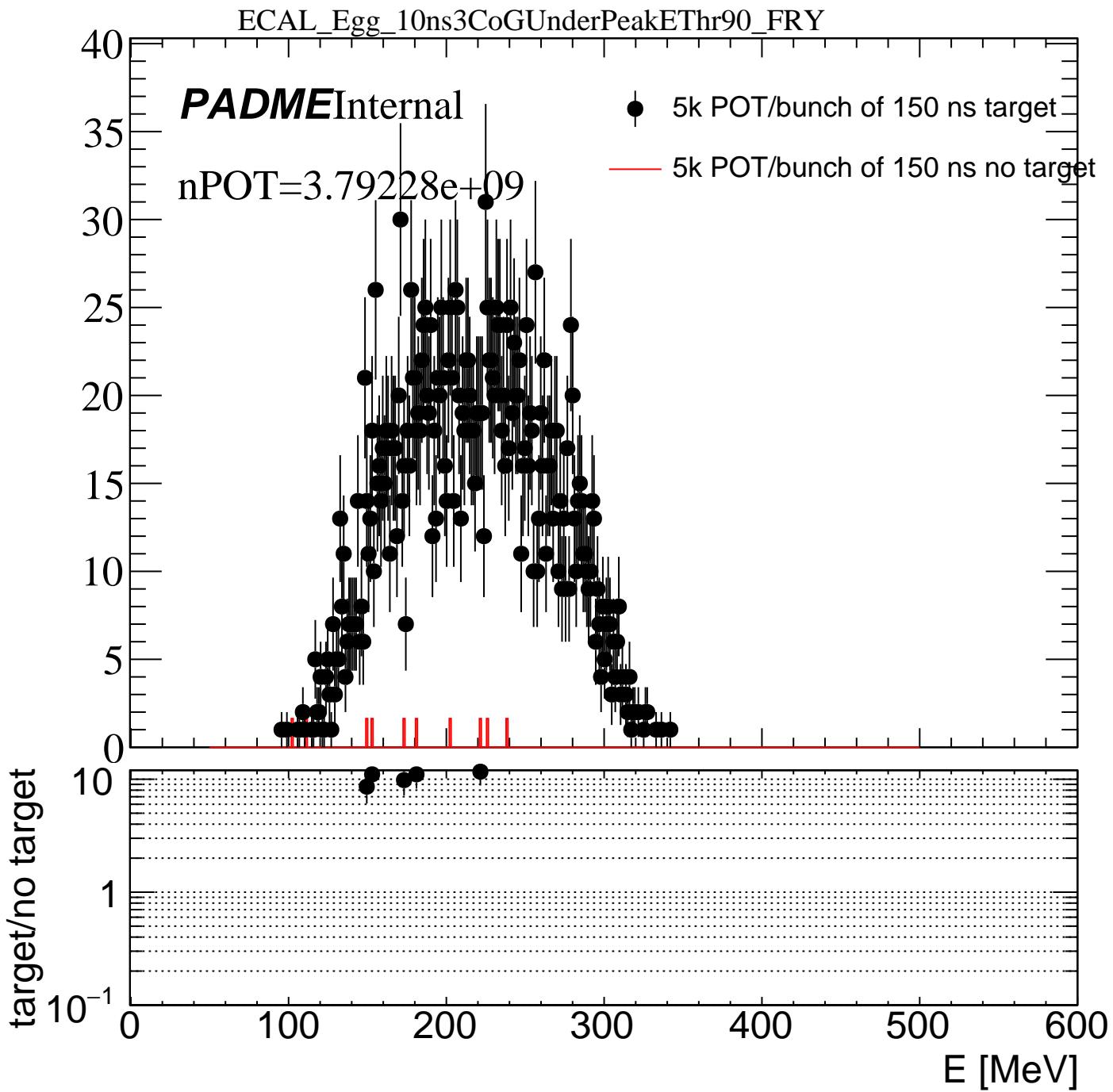


ECAL\_Egg\_10ns3CoGUnderPeak

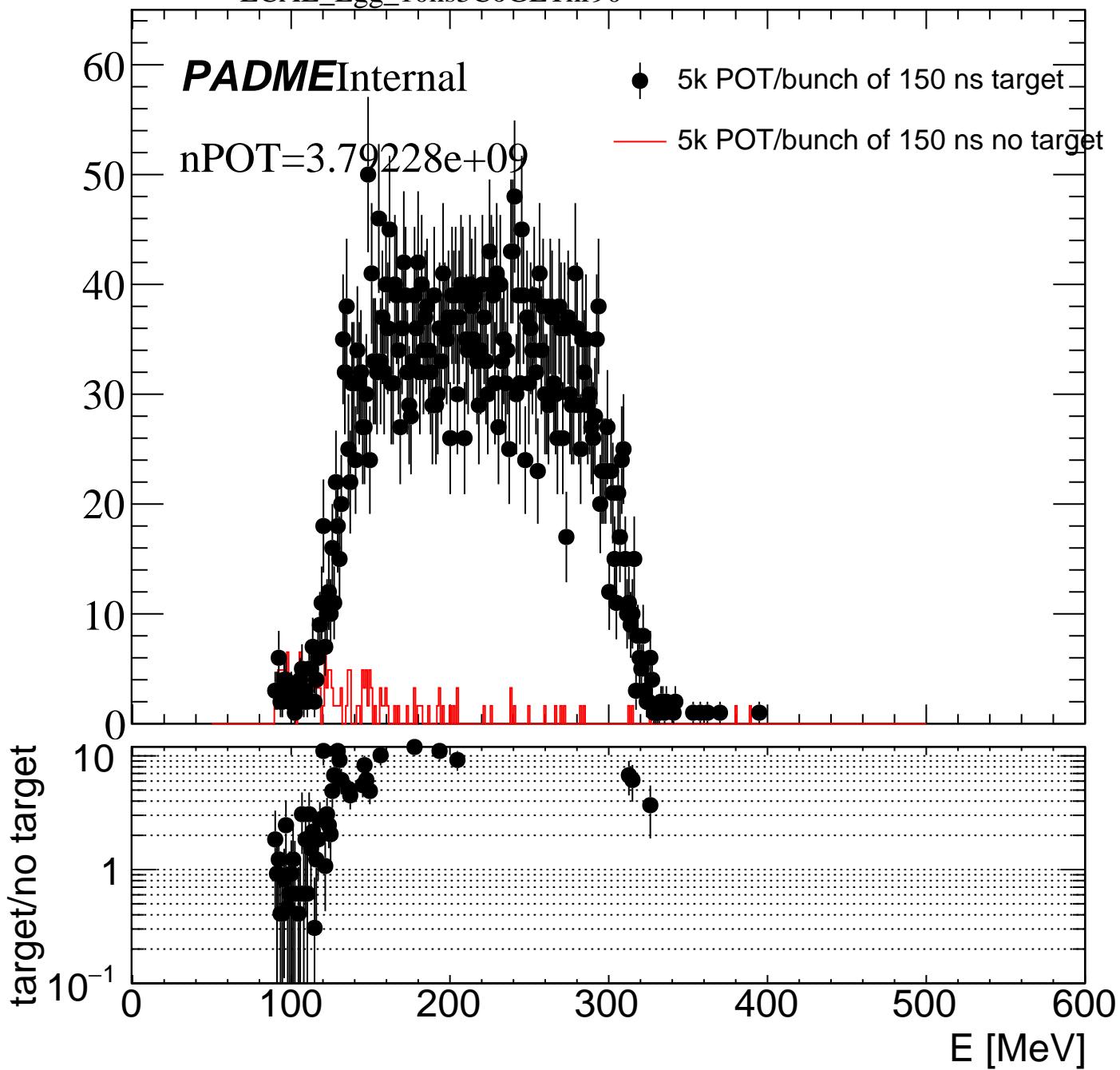


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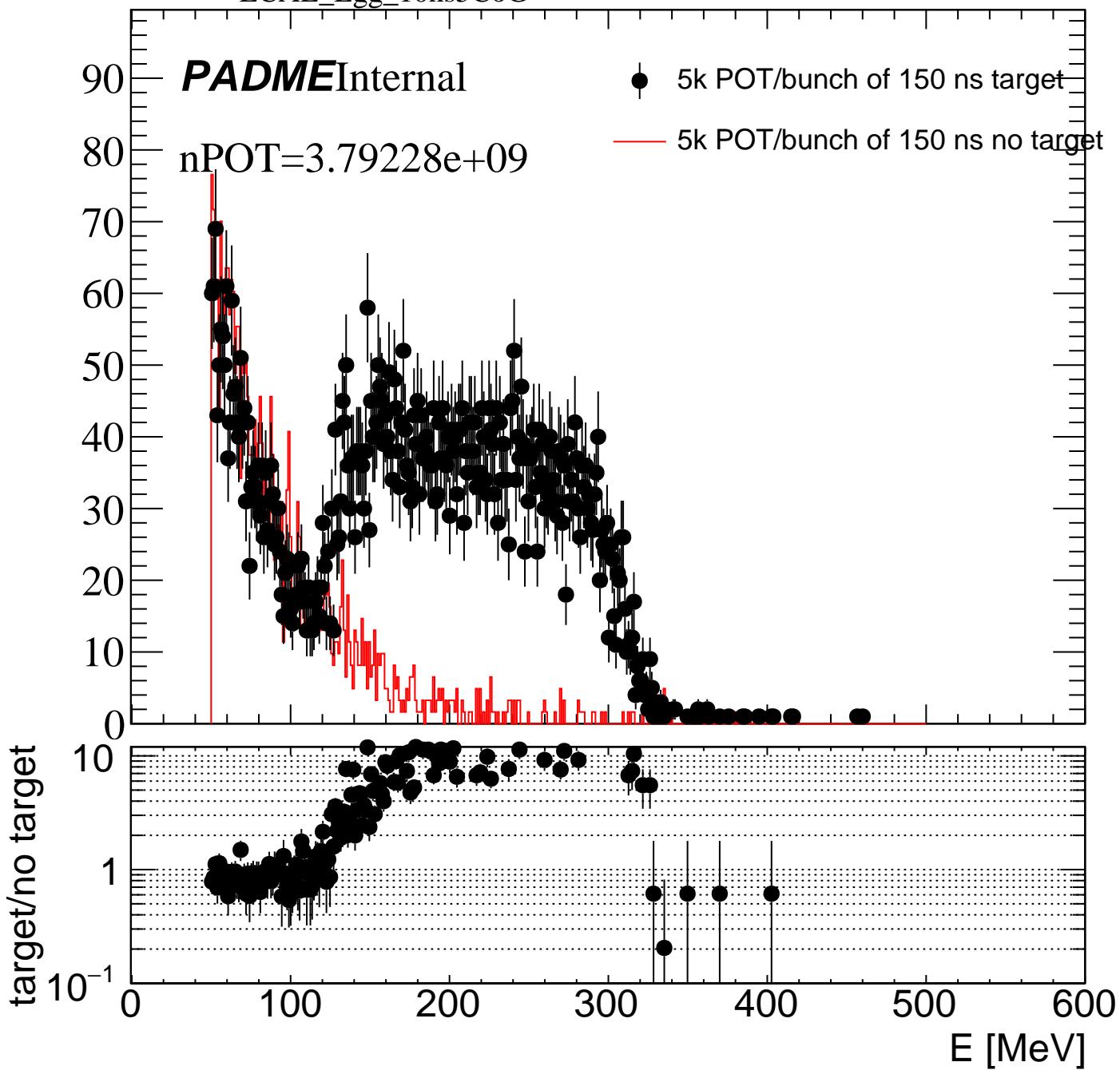




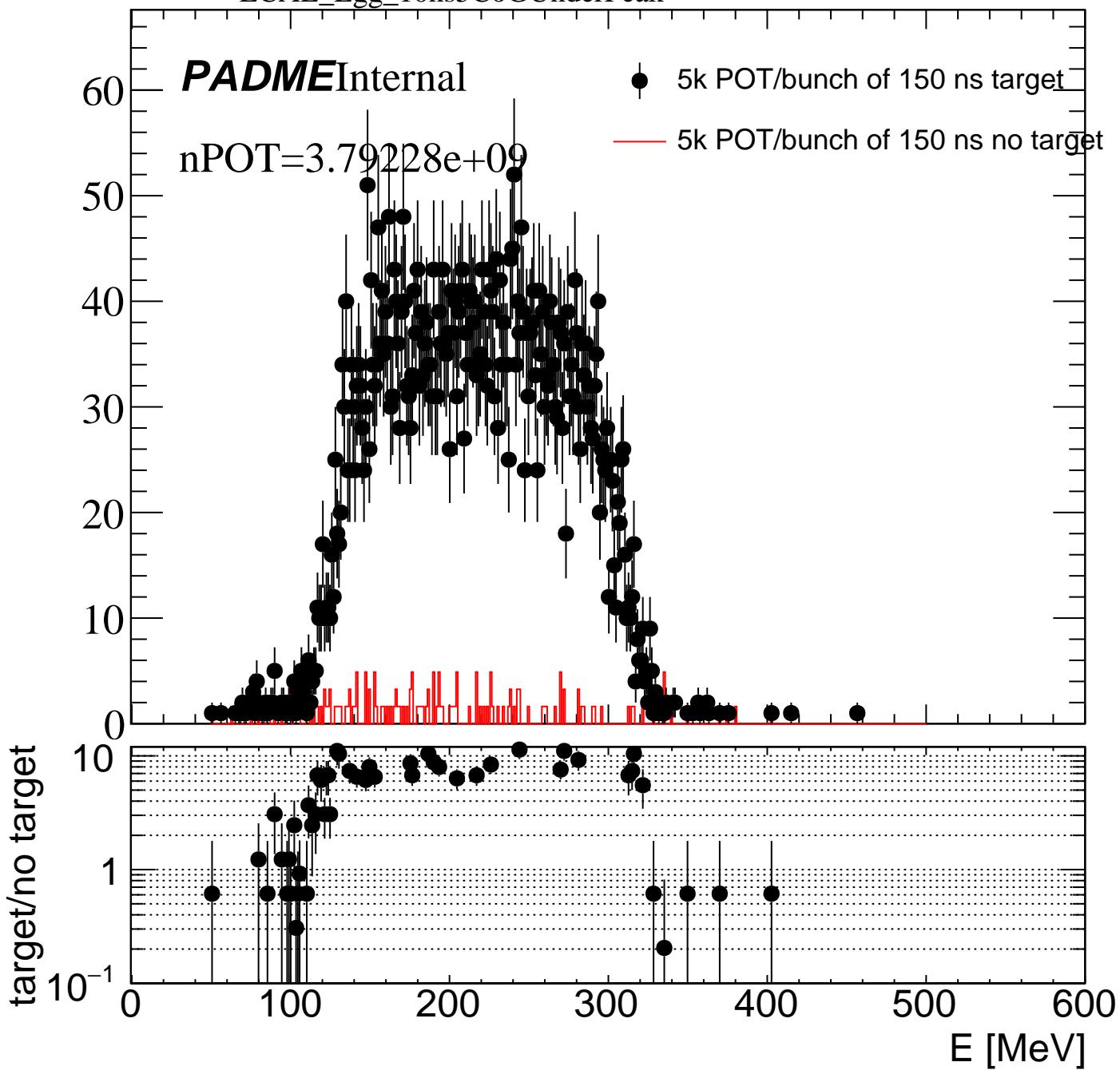
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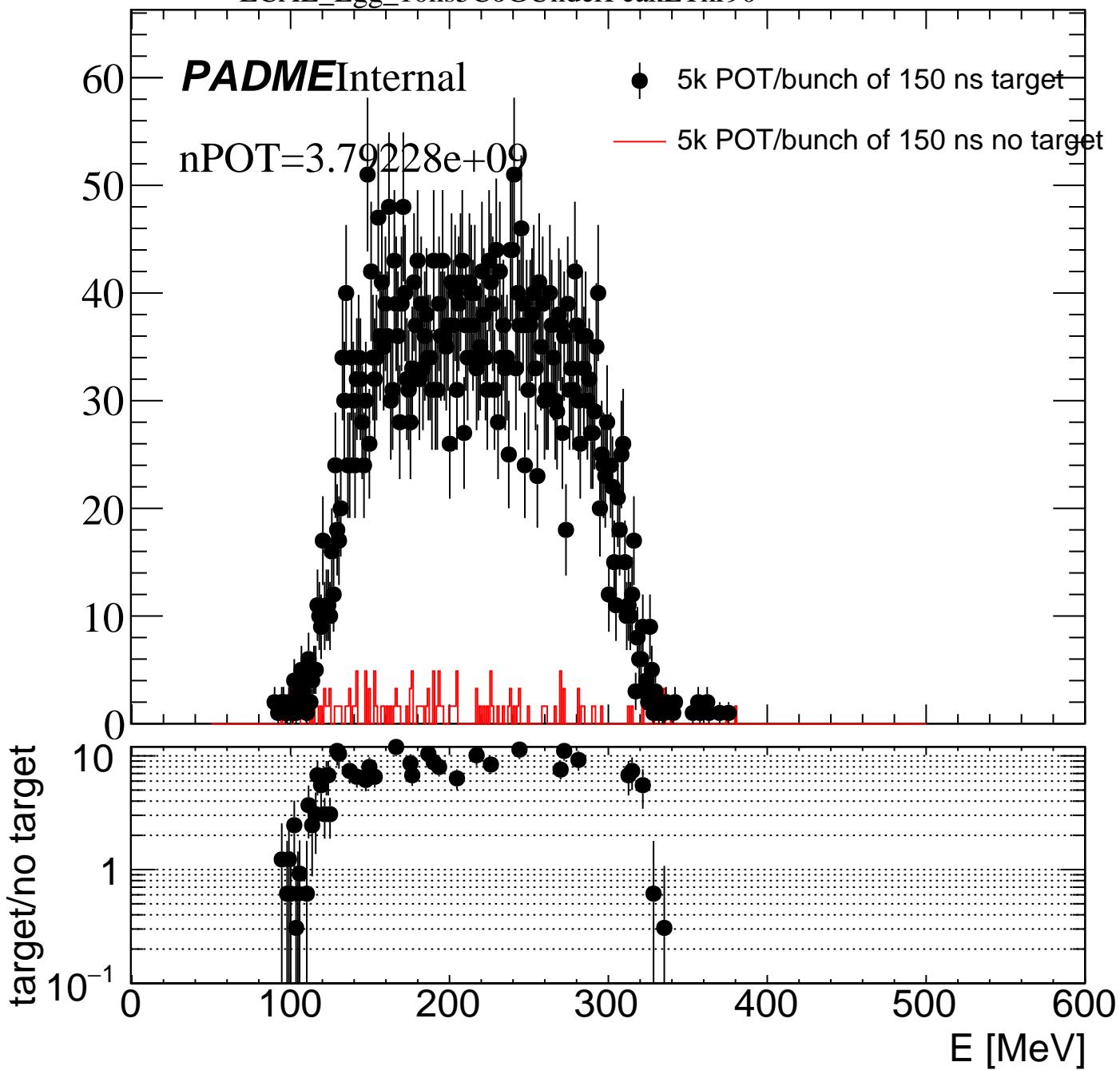
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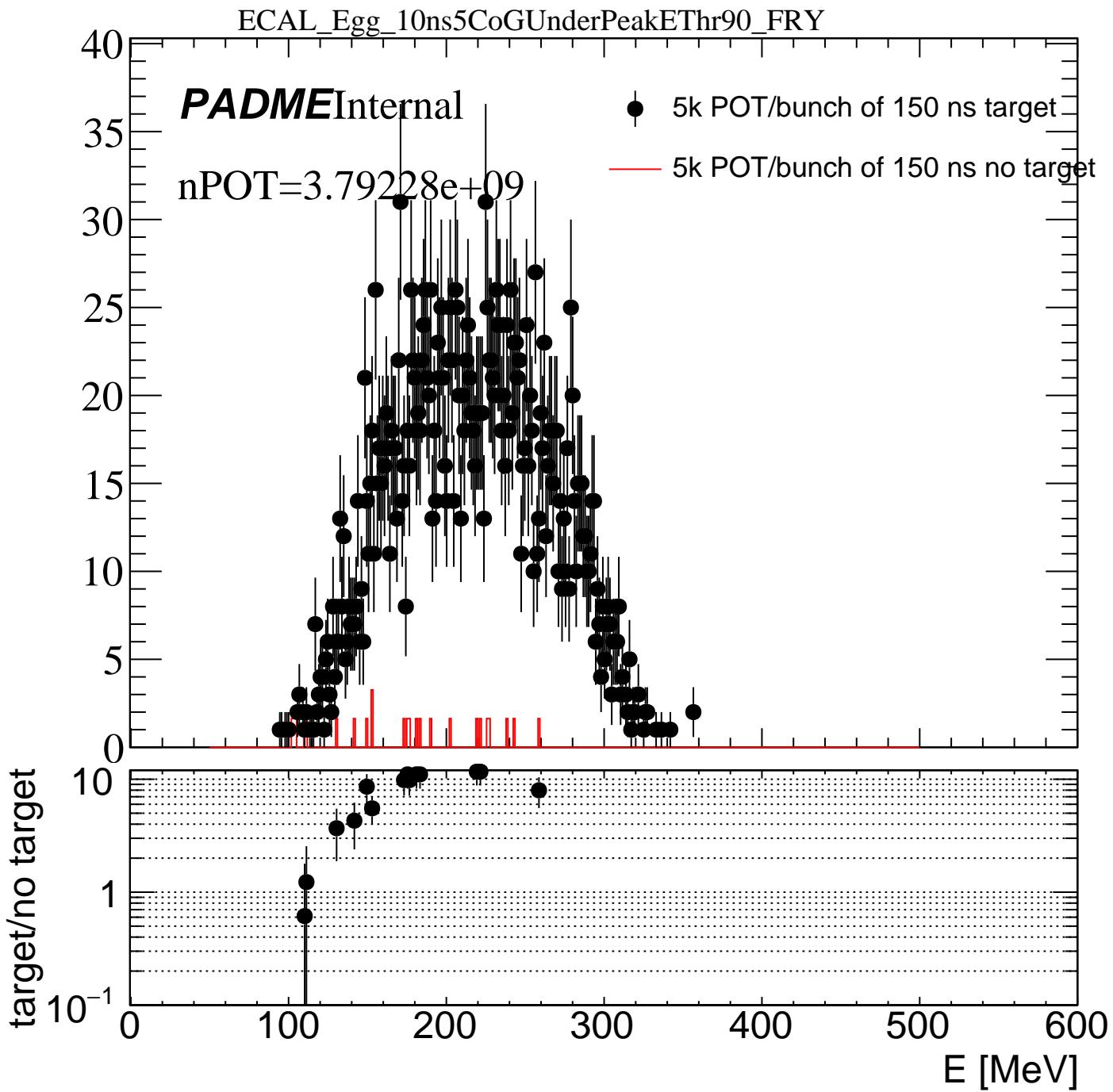


# ECAL\_Egg\_10ns5CoGUnderPeak

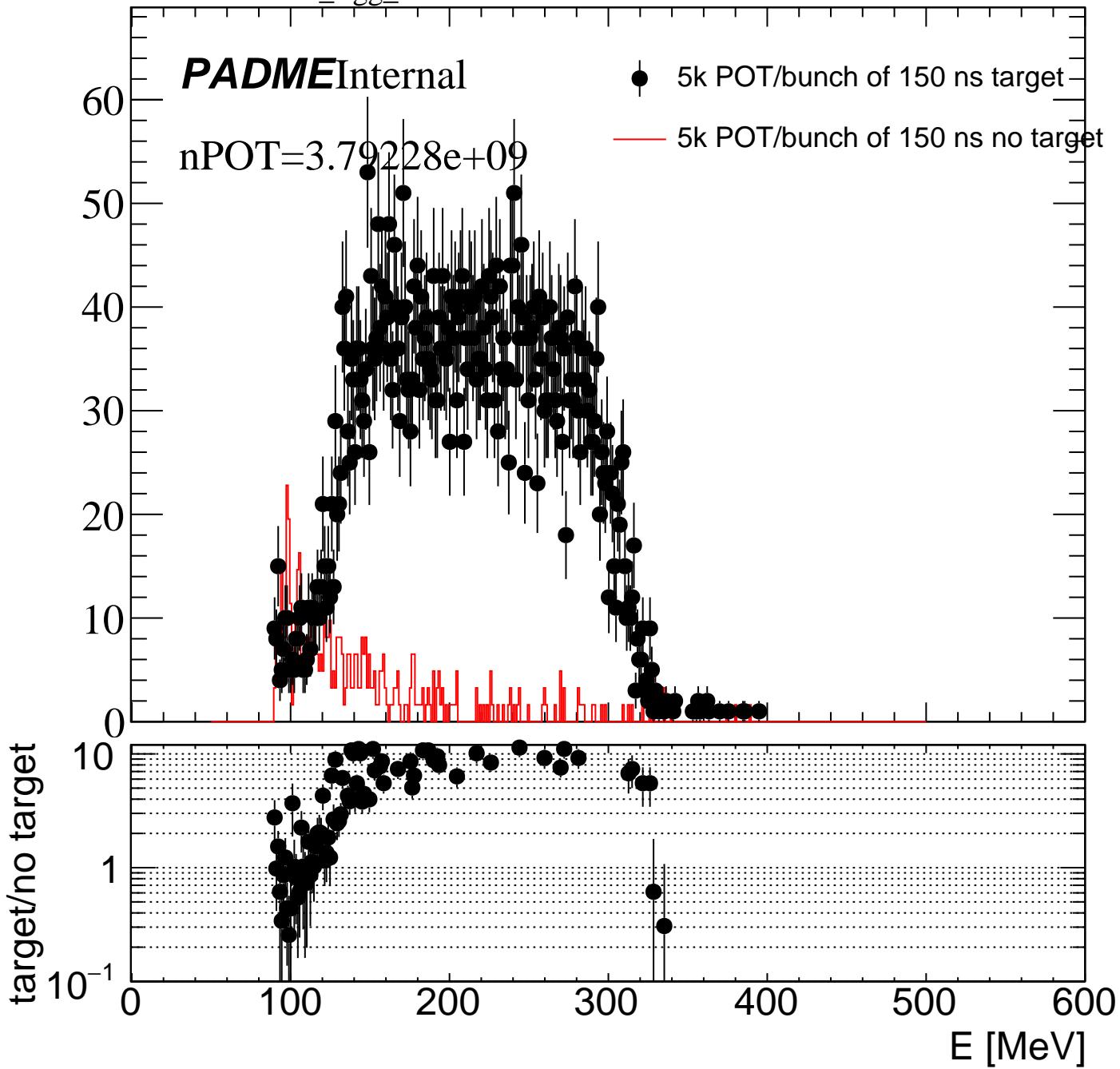


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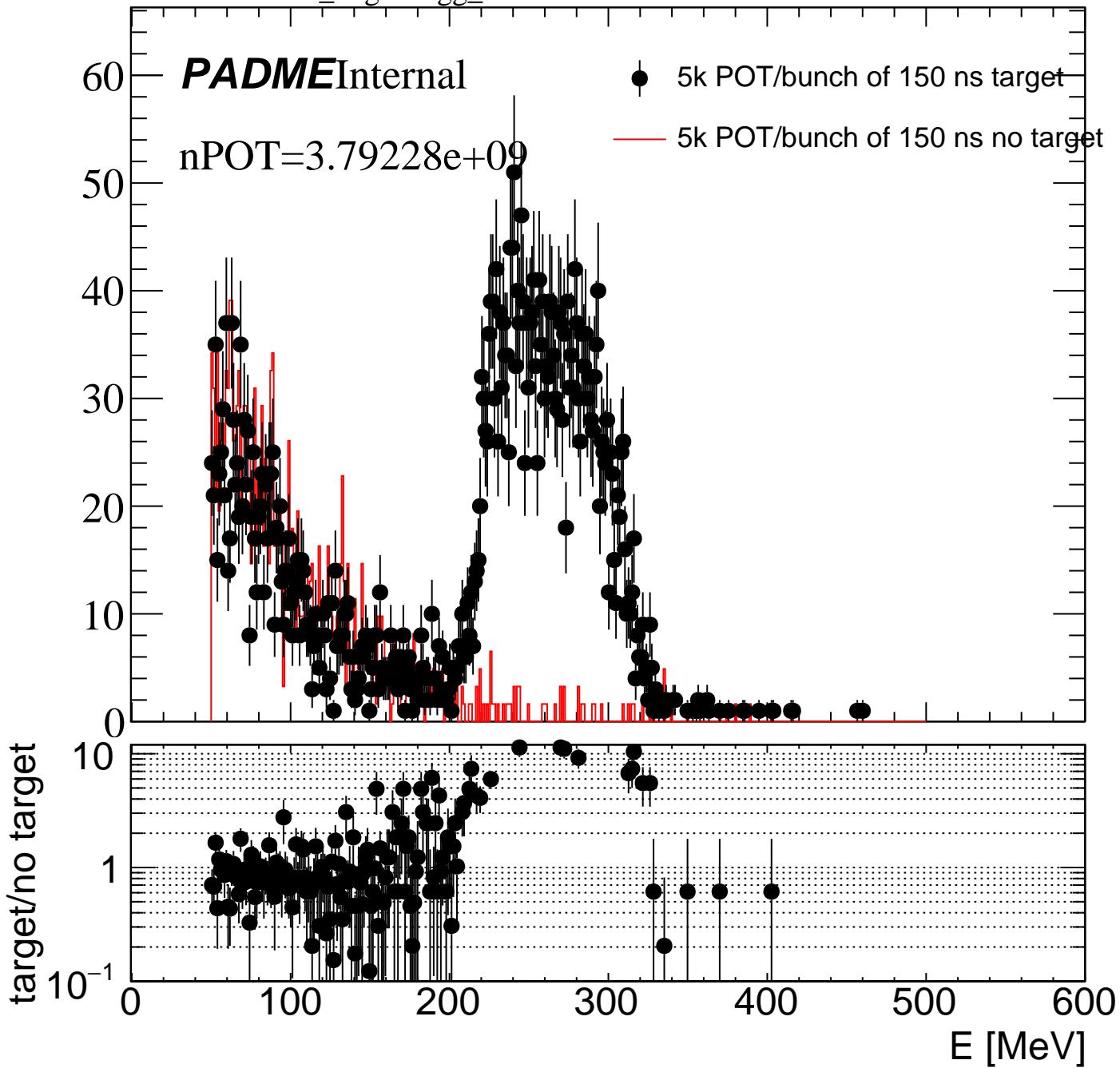




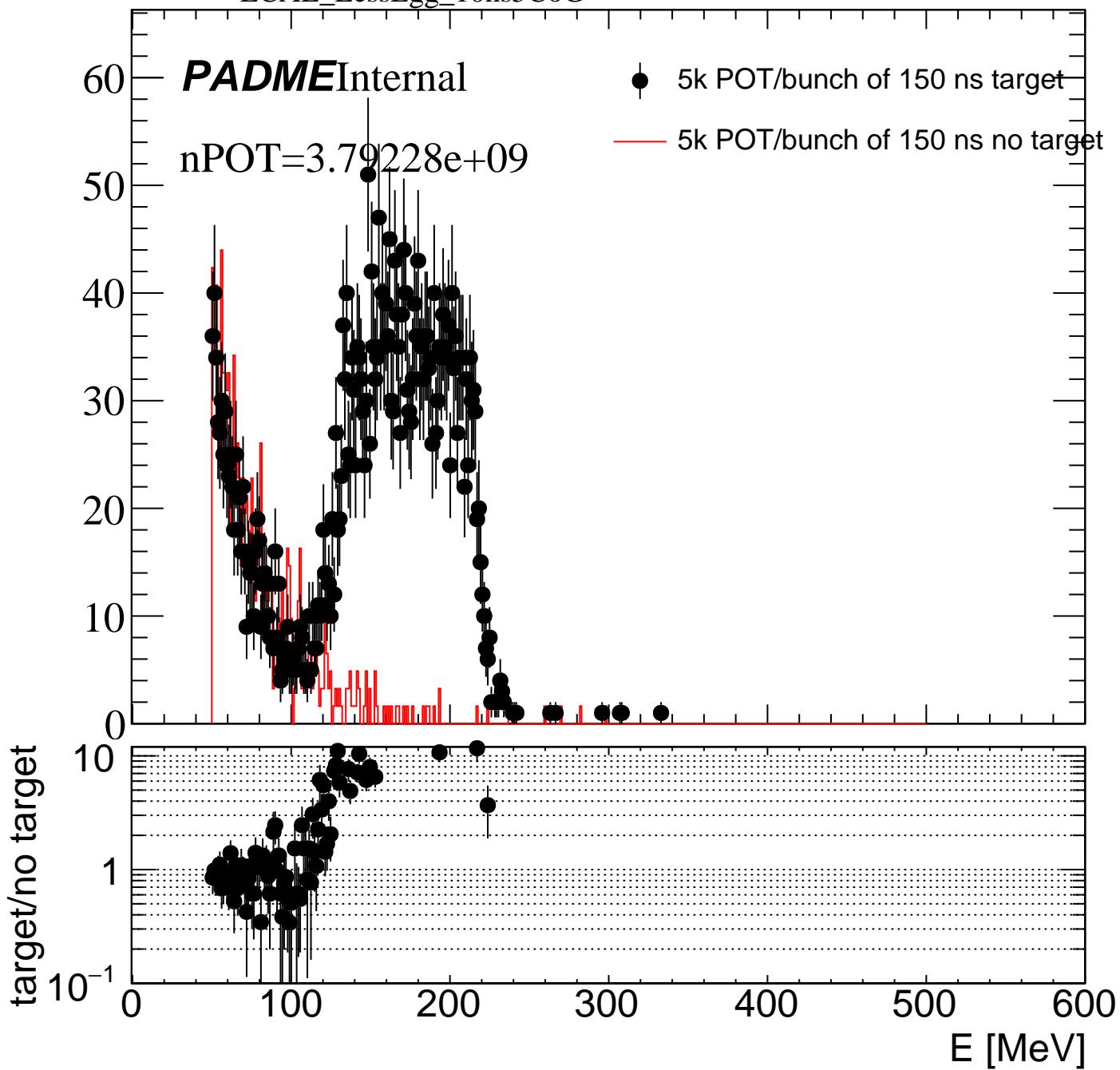
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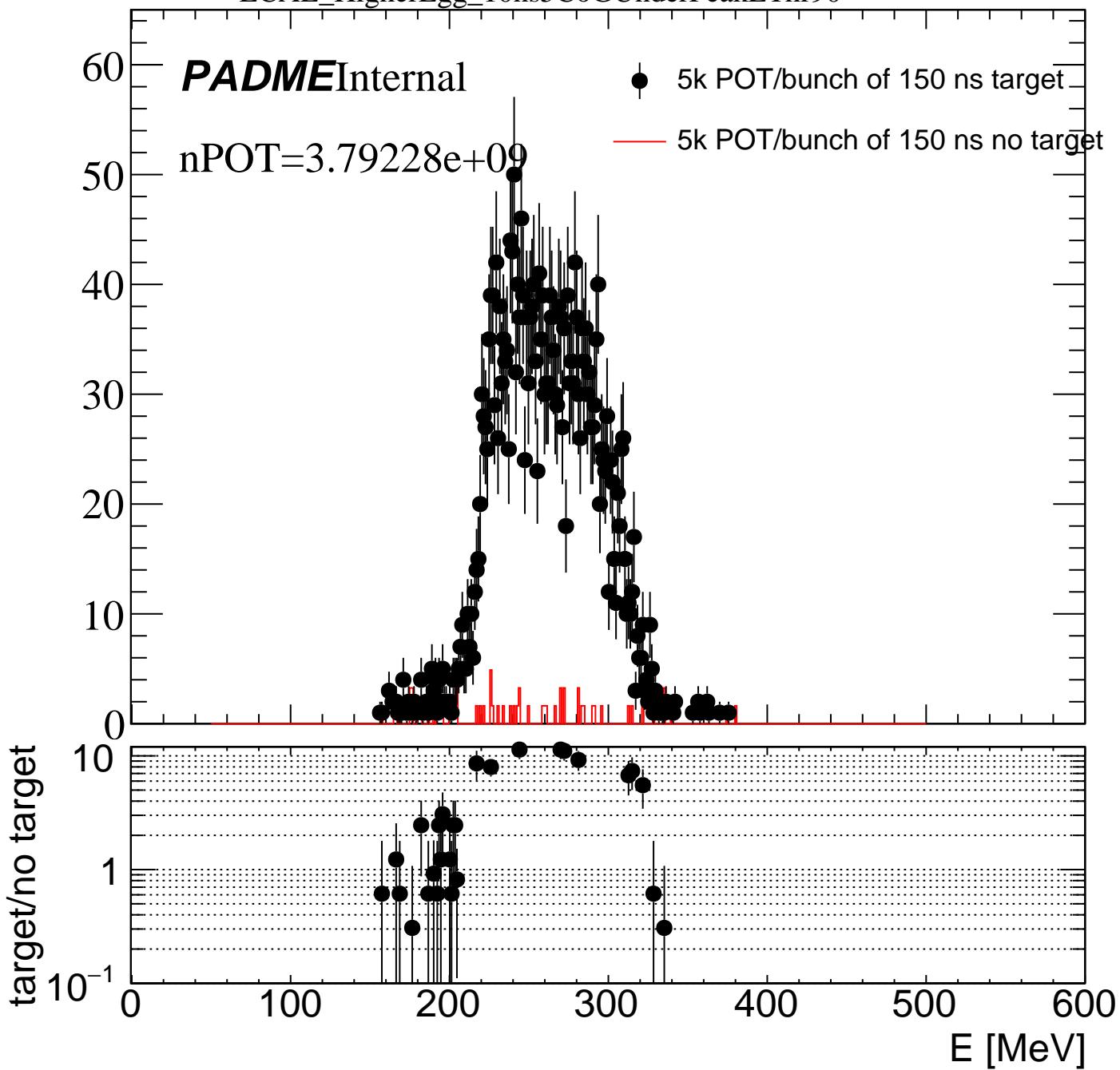
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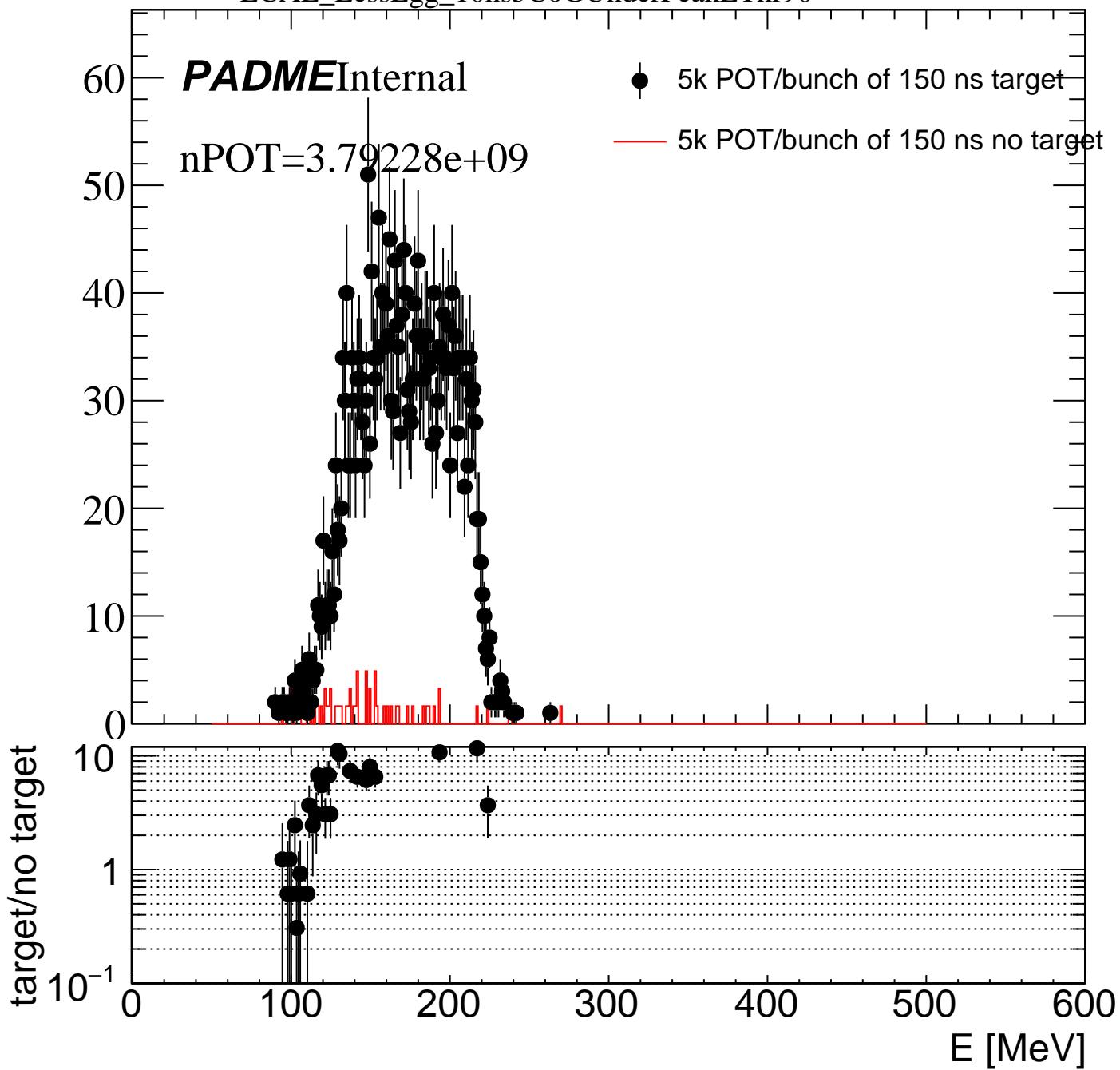
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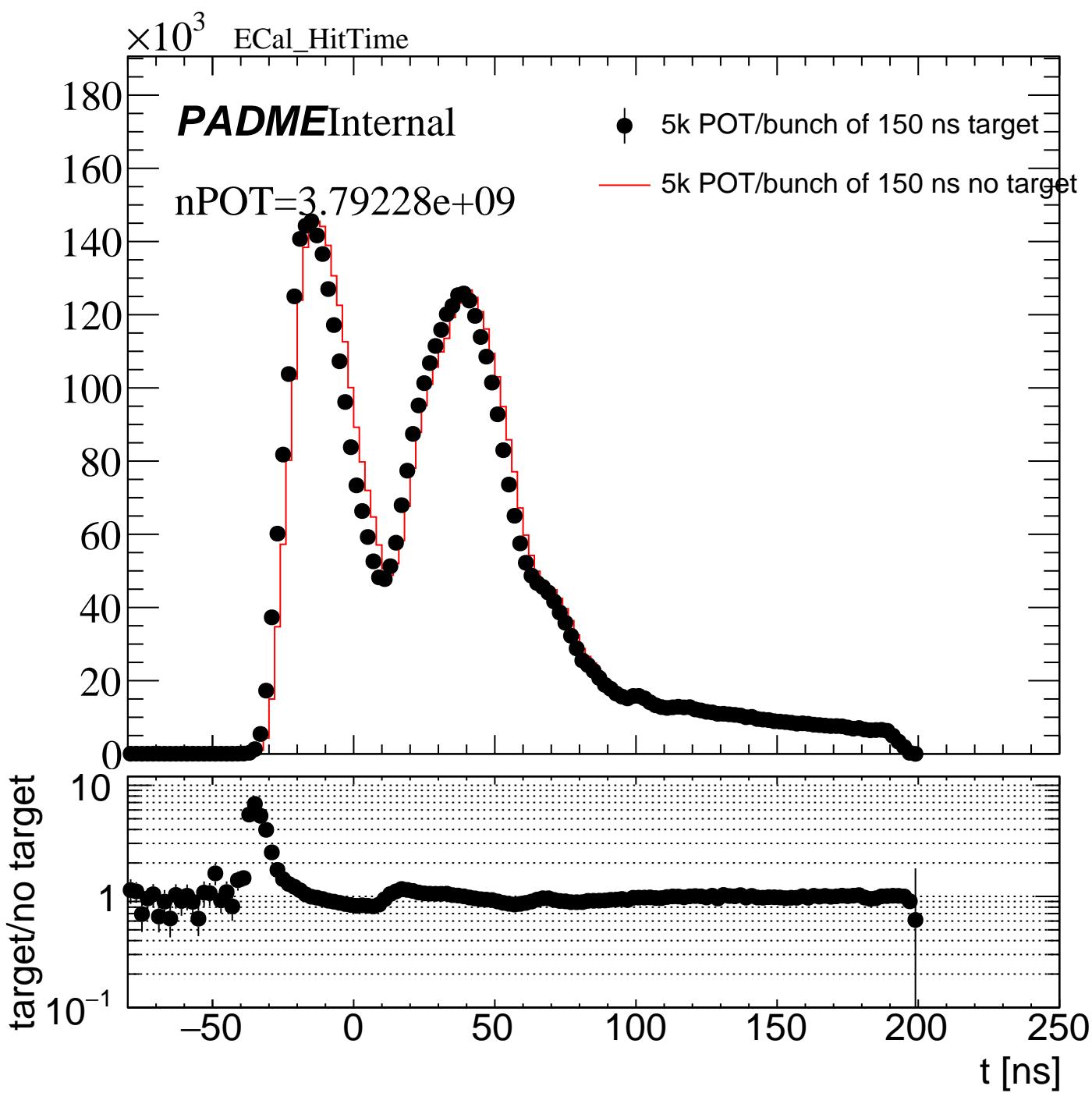


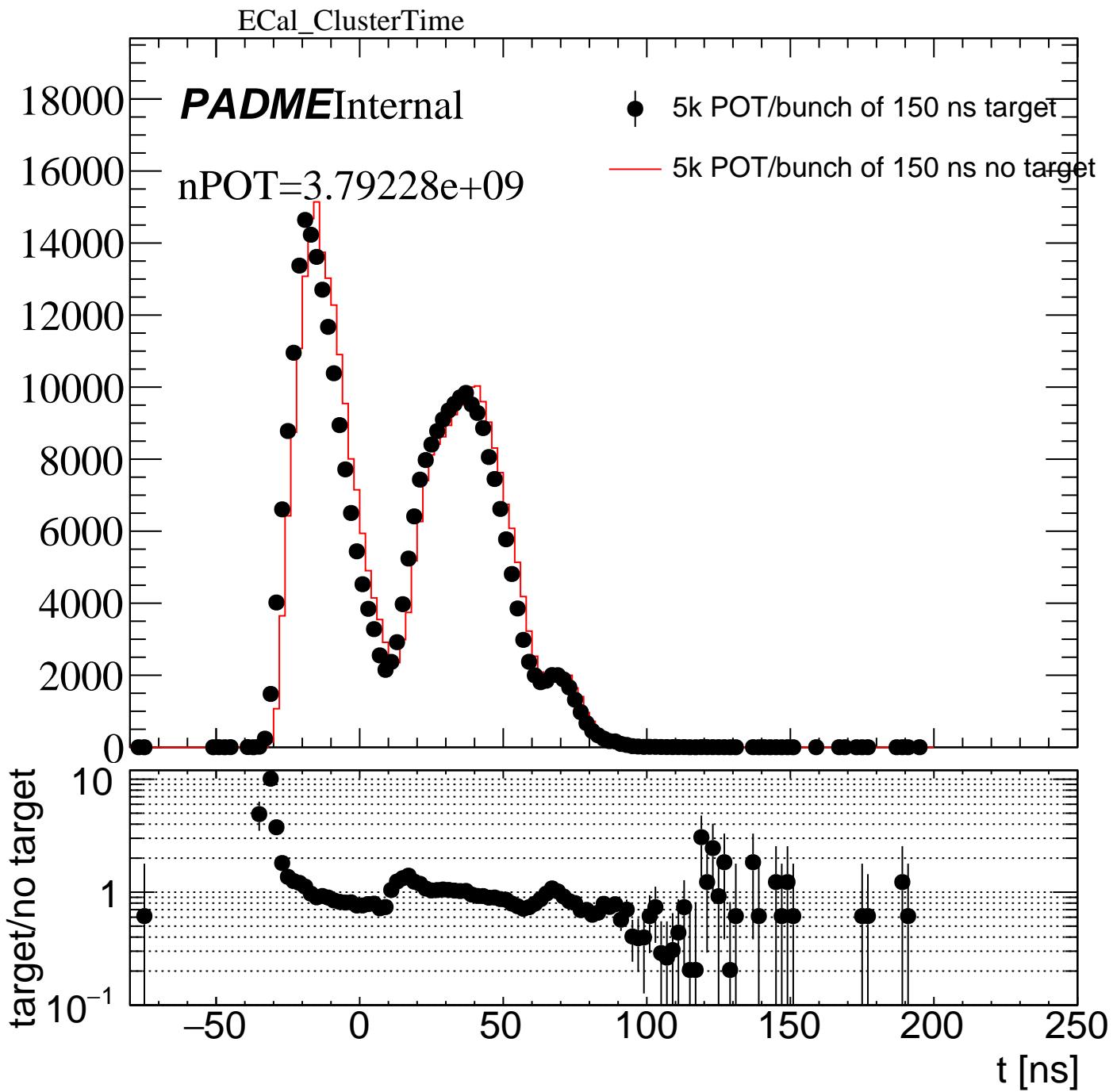
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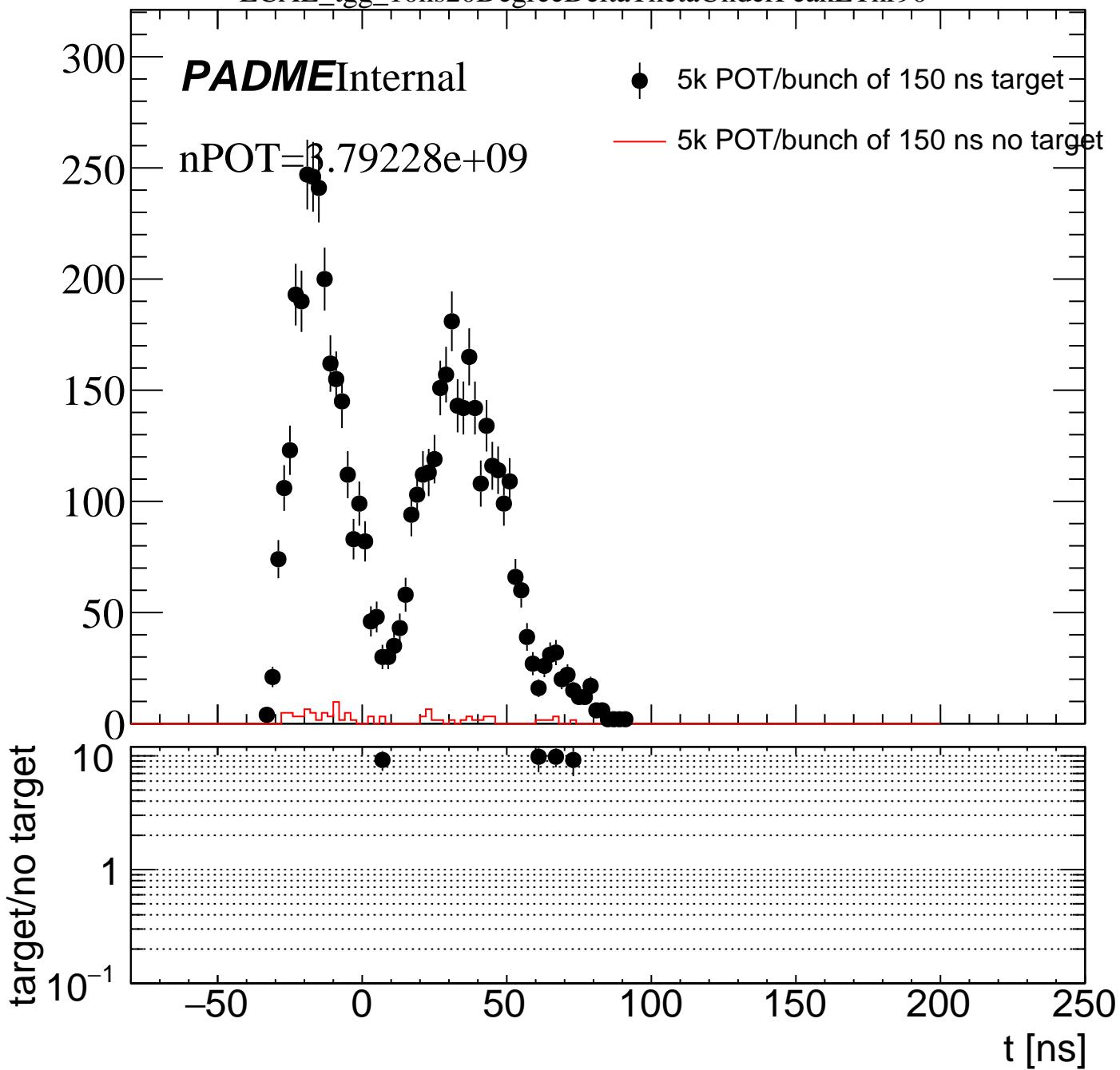
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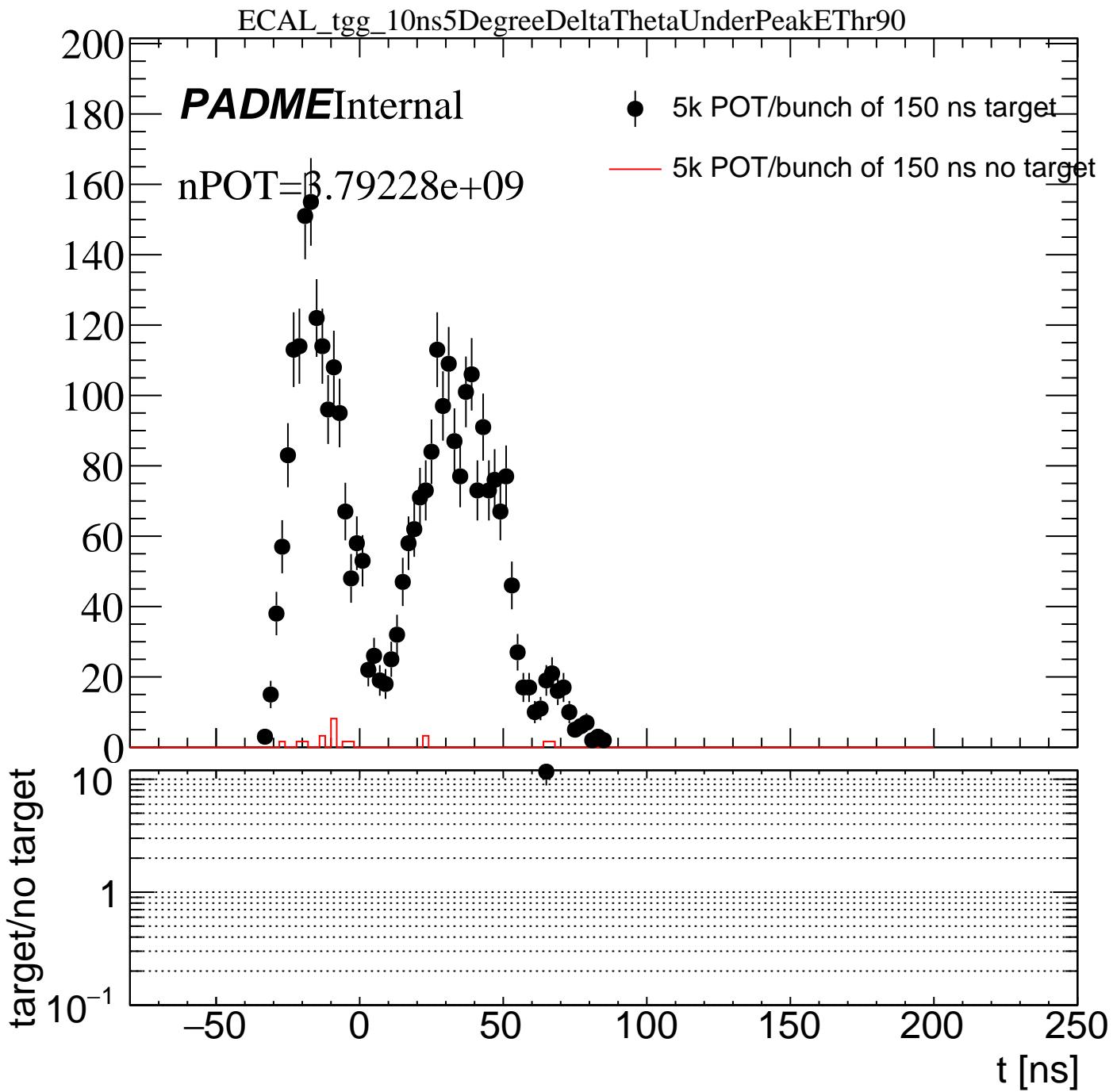




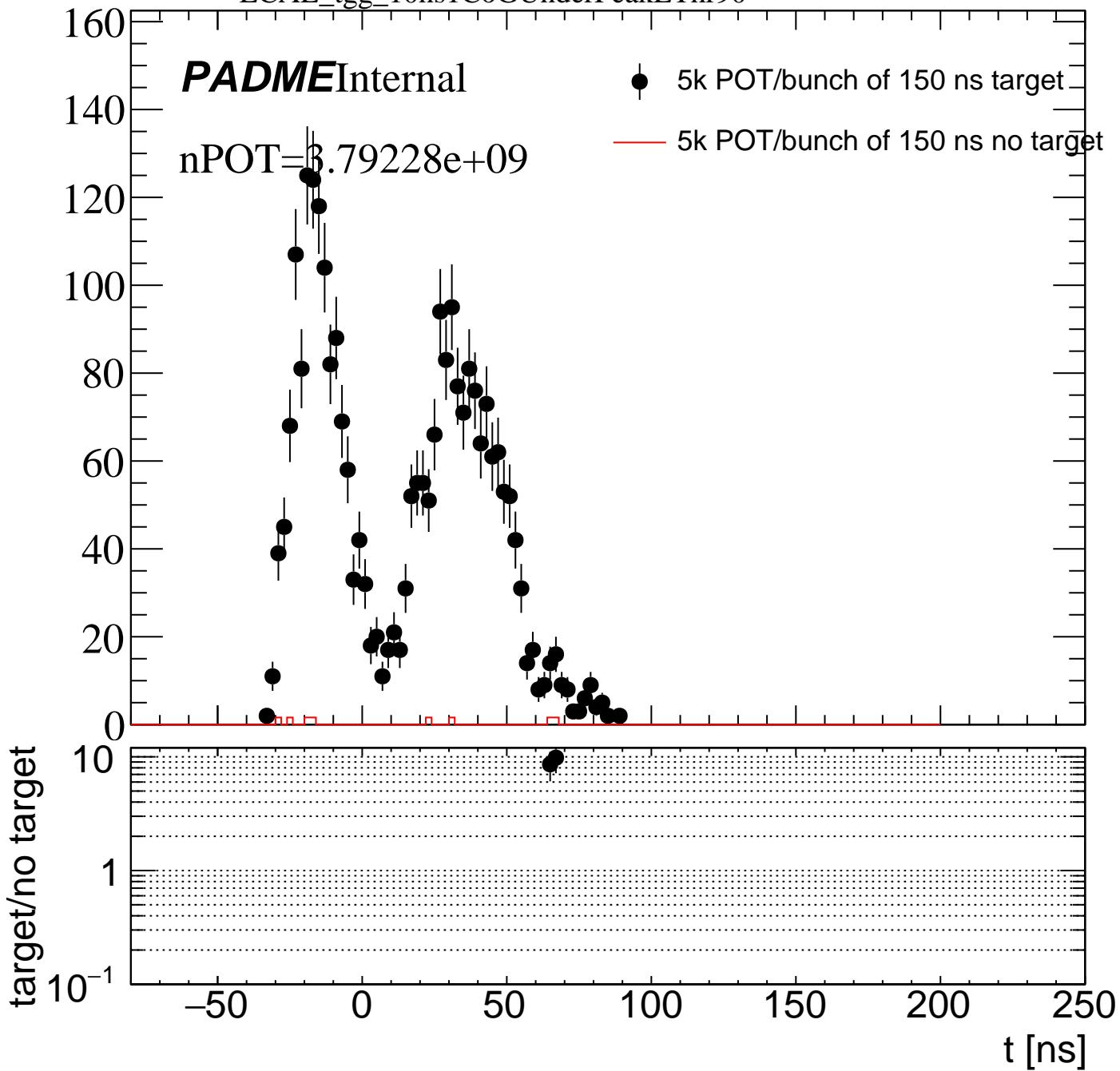


ECAL\_tgg\_10ns20DegreeDeltaThetaUnderPeakEThr90

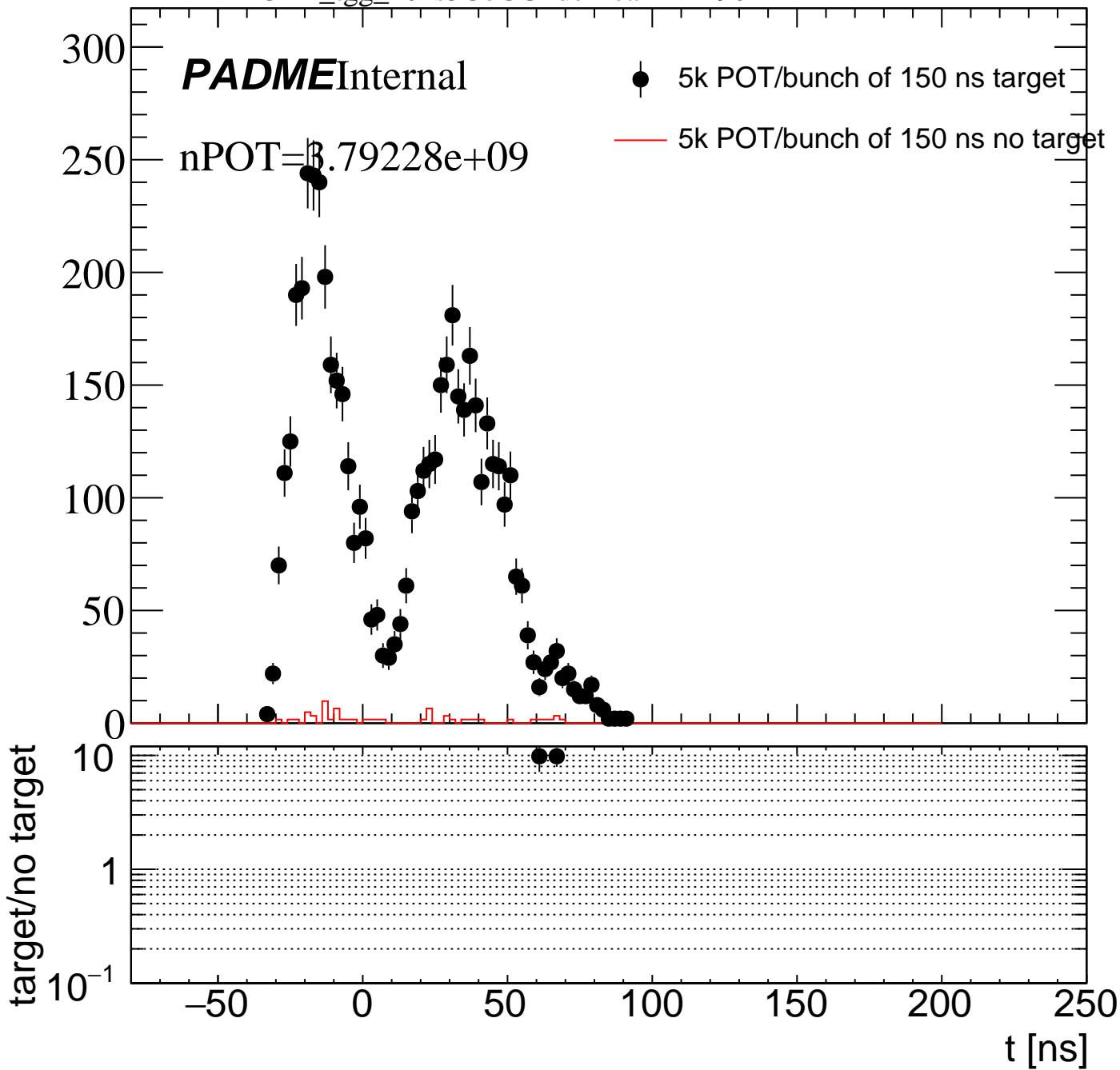




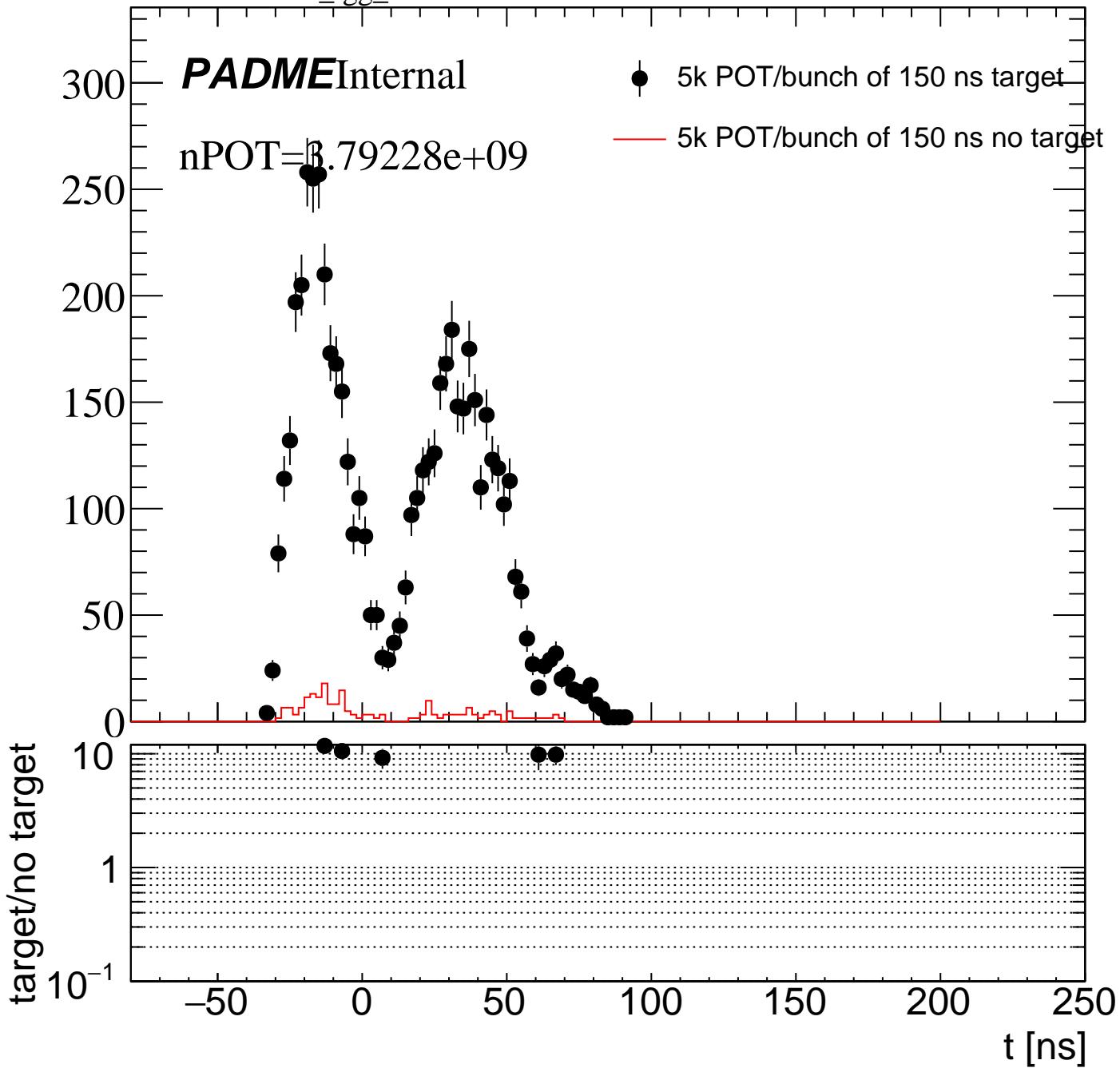
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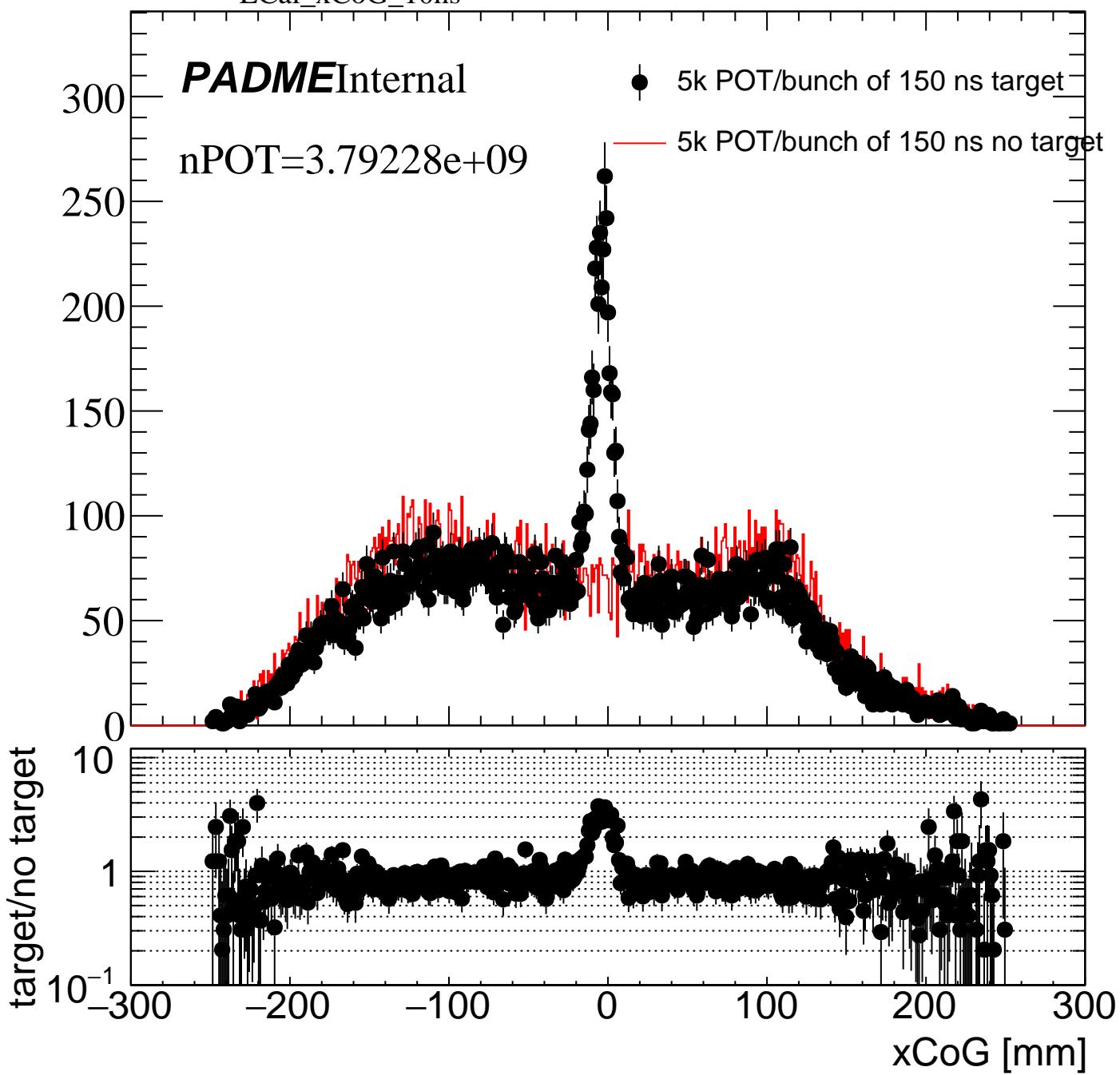
ECAL\_tgg\_10ns3CoGUnderPeakEThr90



ECAL\_tgg\_10ns5CoGUnderPeakEThr90



ECal\_xCoG\_10ns



ECal\_yCoG\_10ns

**PADME**Internal

300  
250  
200  
150  
100  
50  
0

● 5k POT/bunch of 150 ns target

— 5k POT/bunch of 150 ns no target

nPOT=3.79228e+09

target/no target

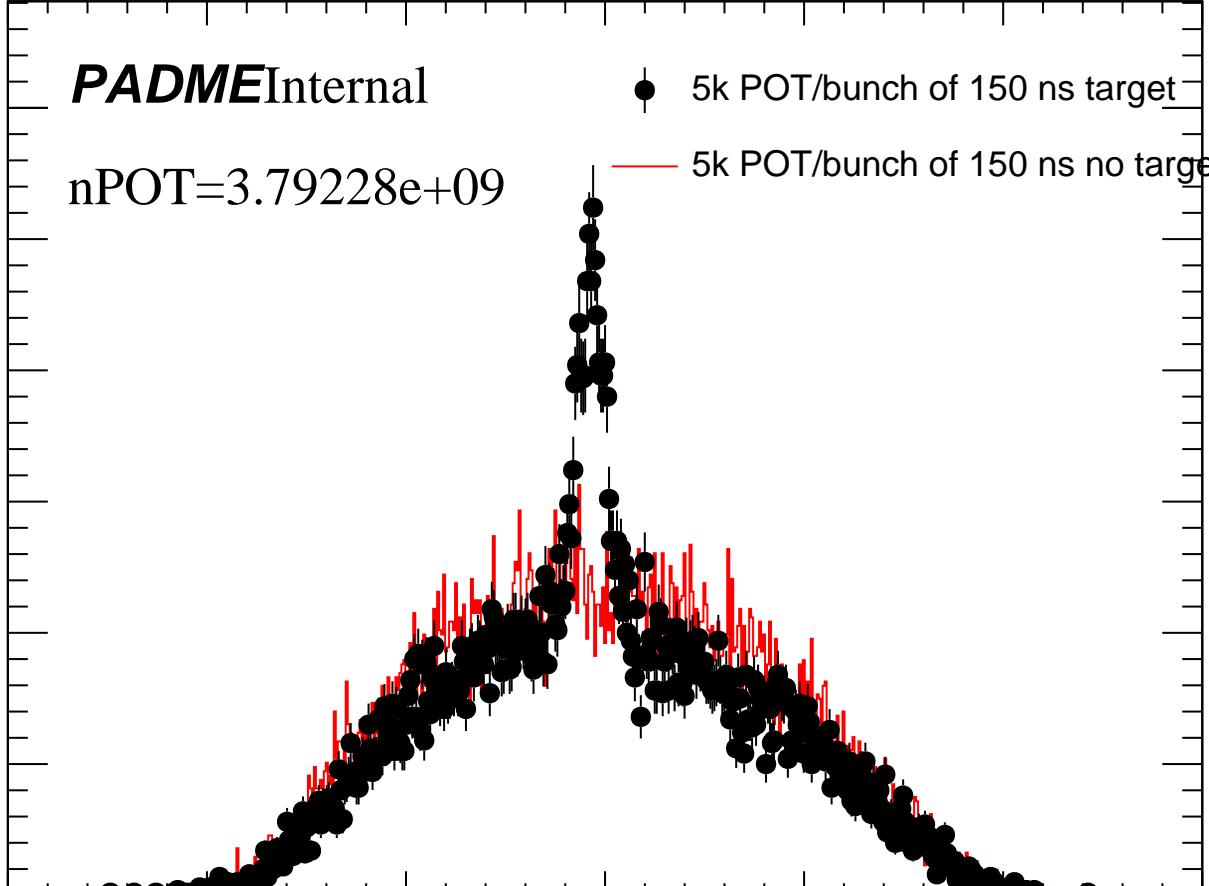
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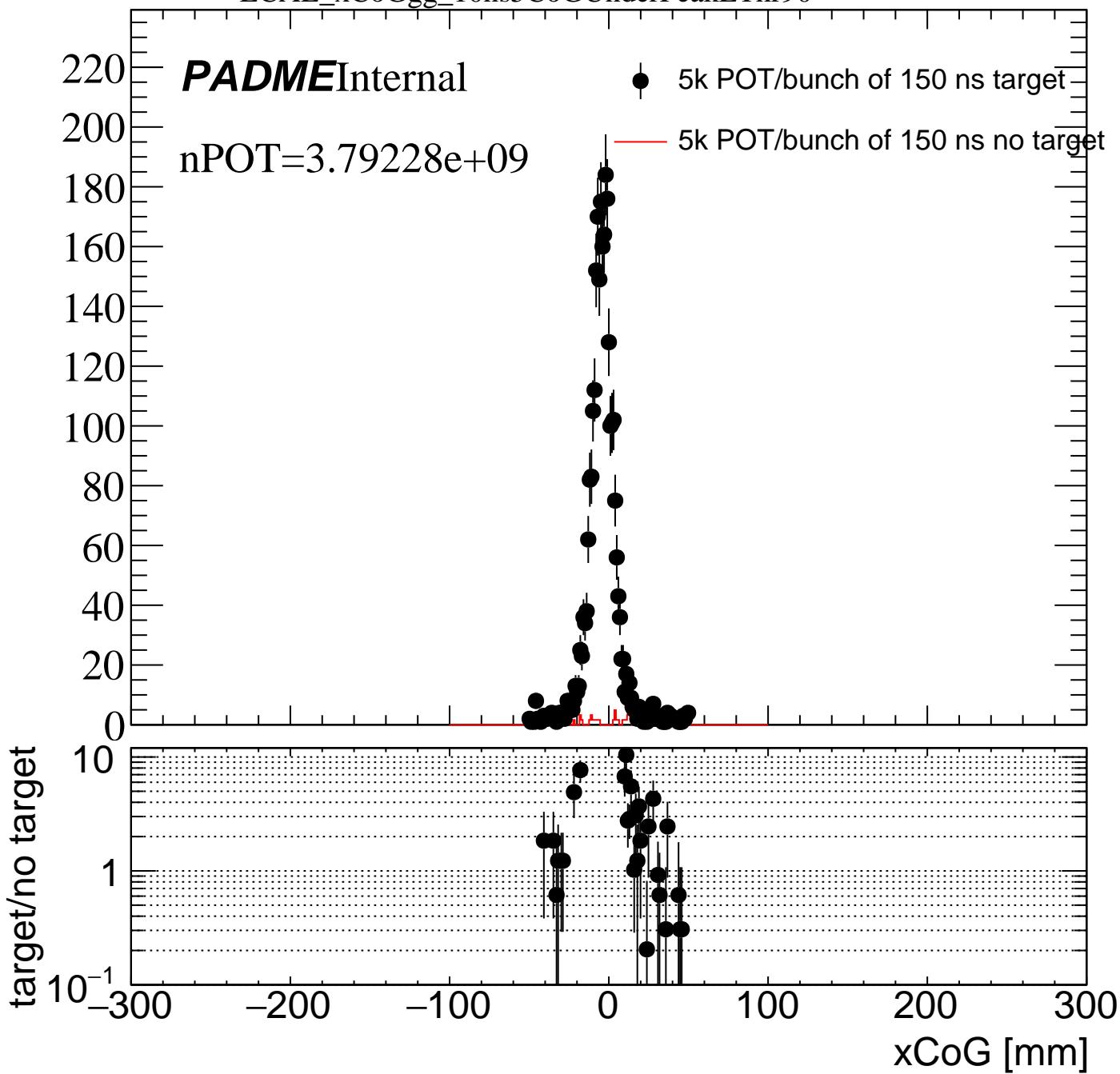
10<sup>-1</sup>

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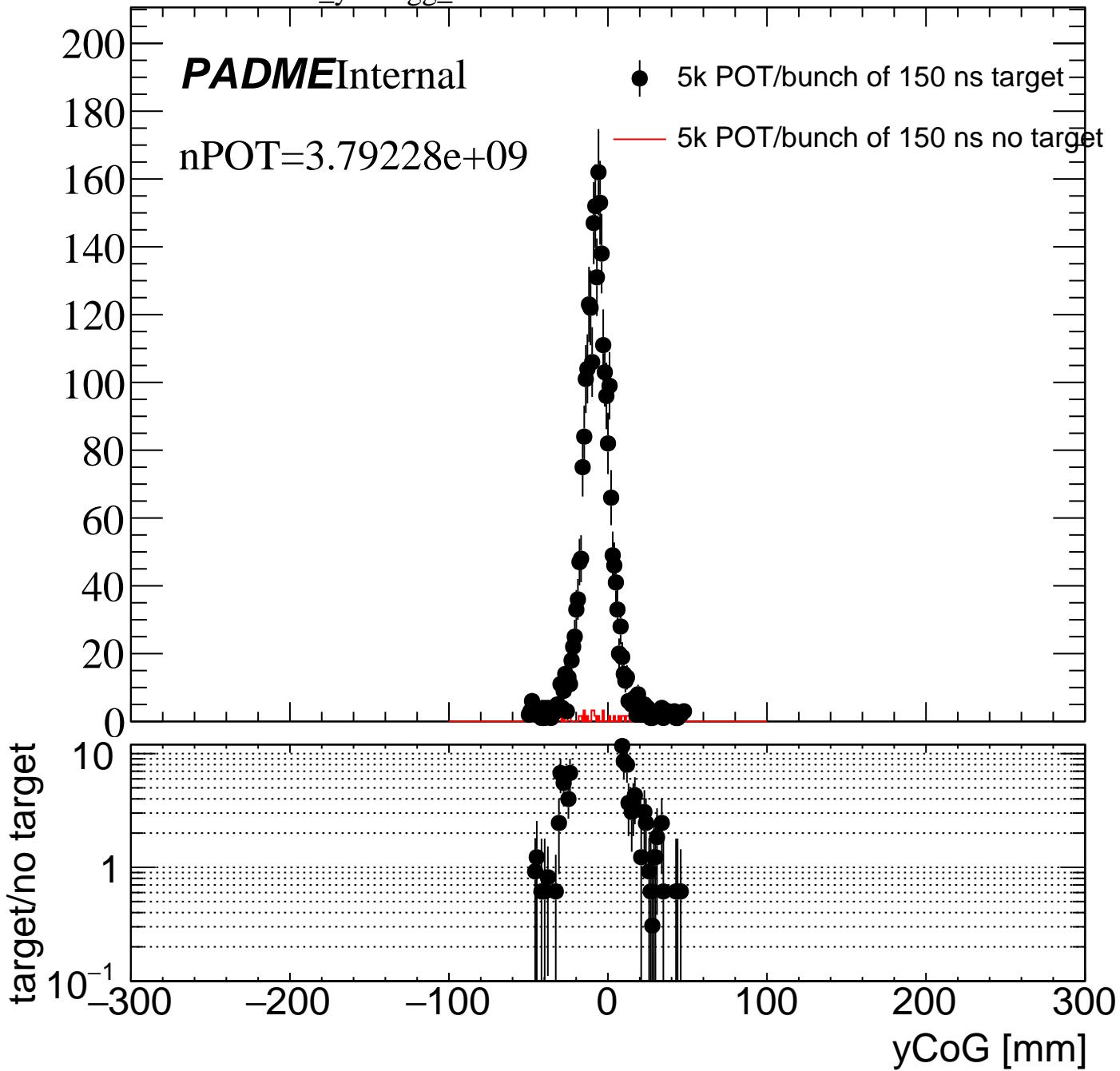
yCoG [mm]



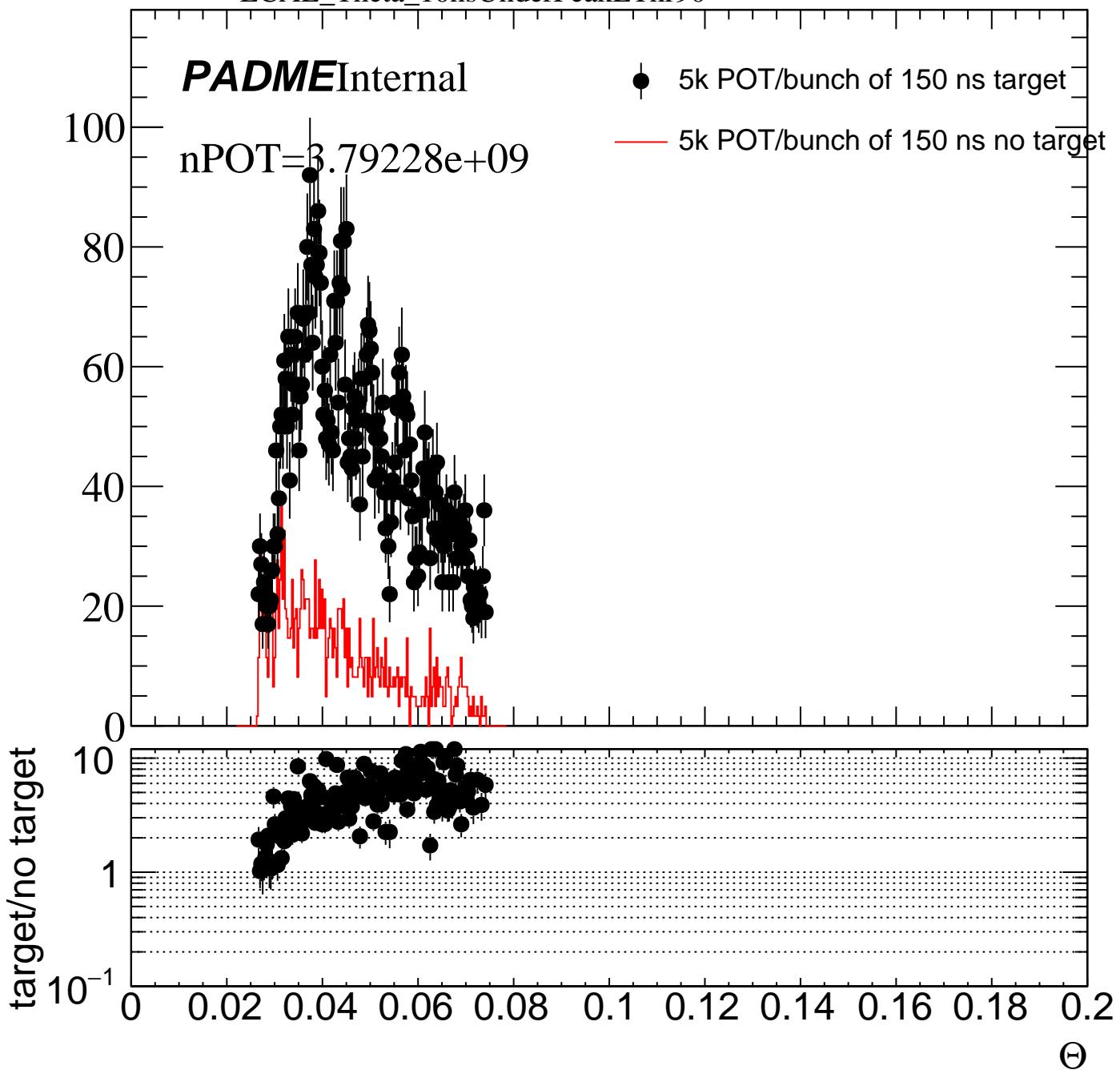
ECAL\_xCoGgg\_10ns5CoGUnderPeakEThr90



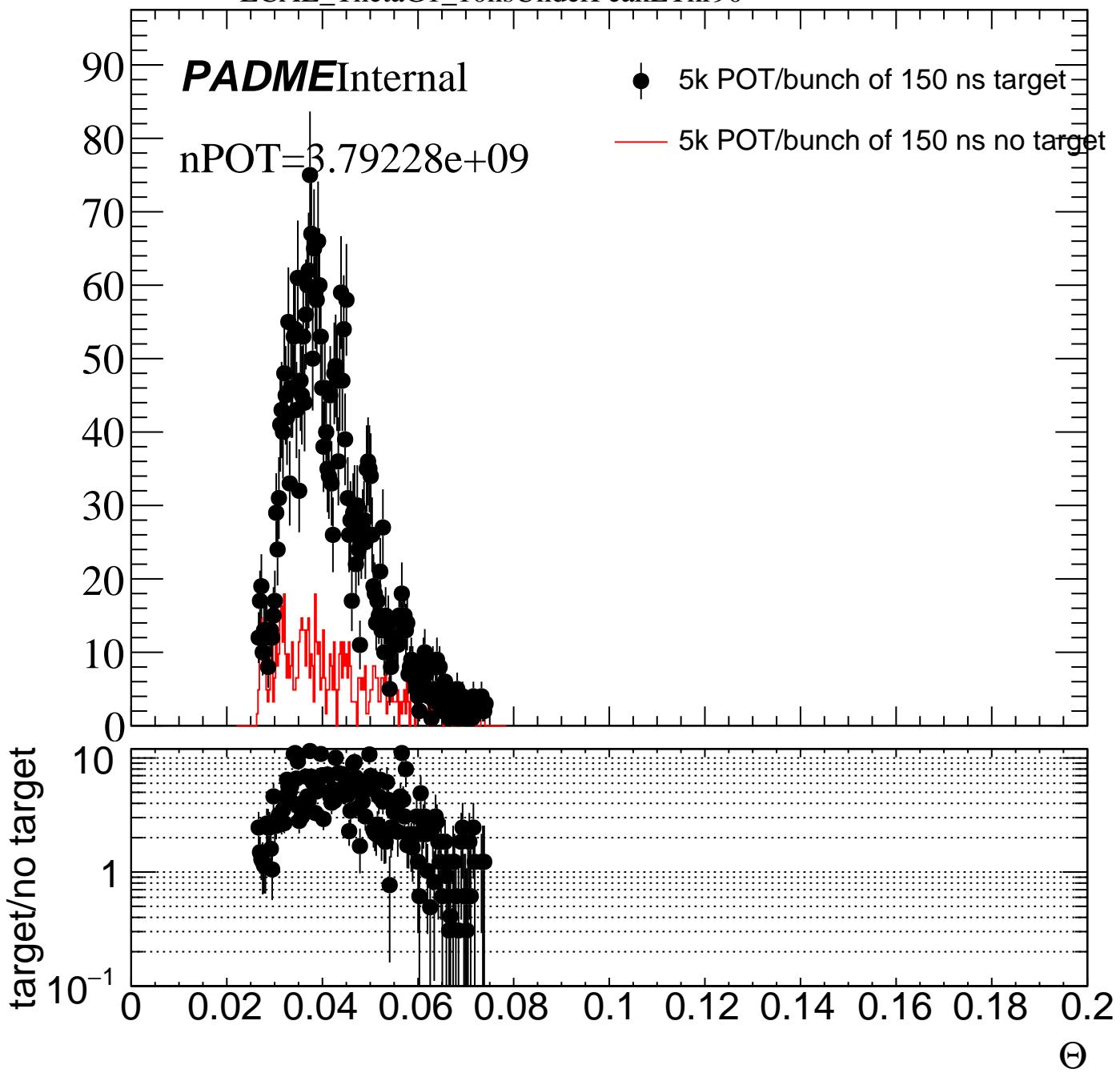
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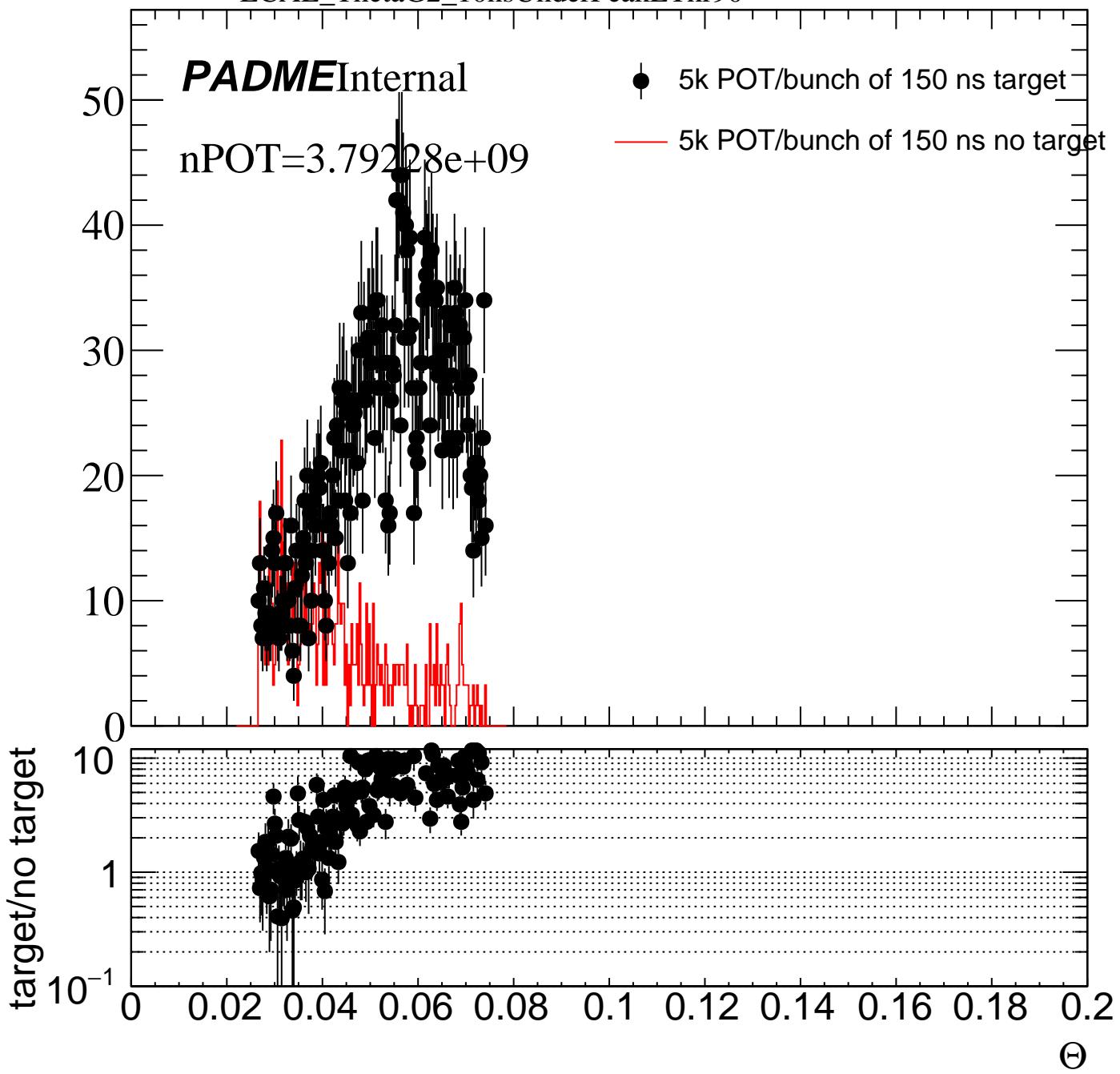
ECAL\_Theta\_10nsUnderPeakEThr90



ECAL\_ThetaG1\_10nsUnderPeakEThr90

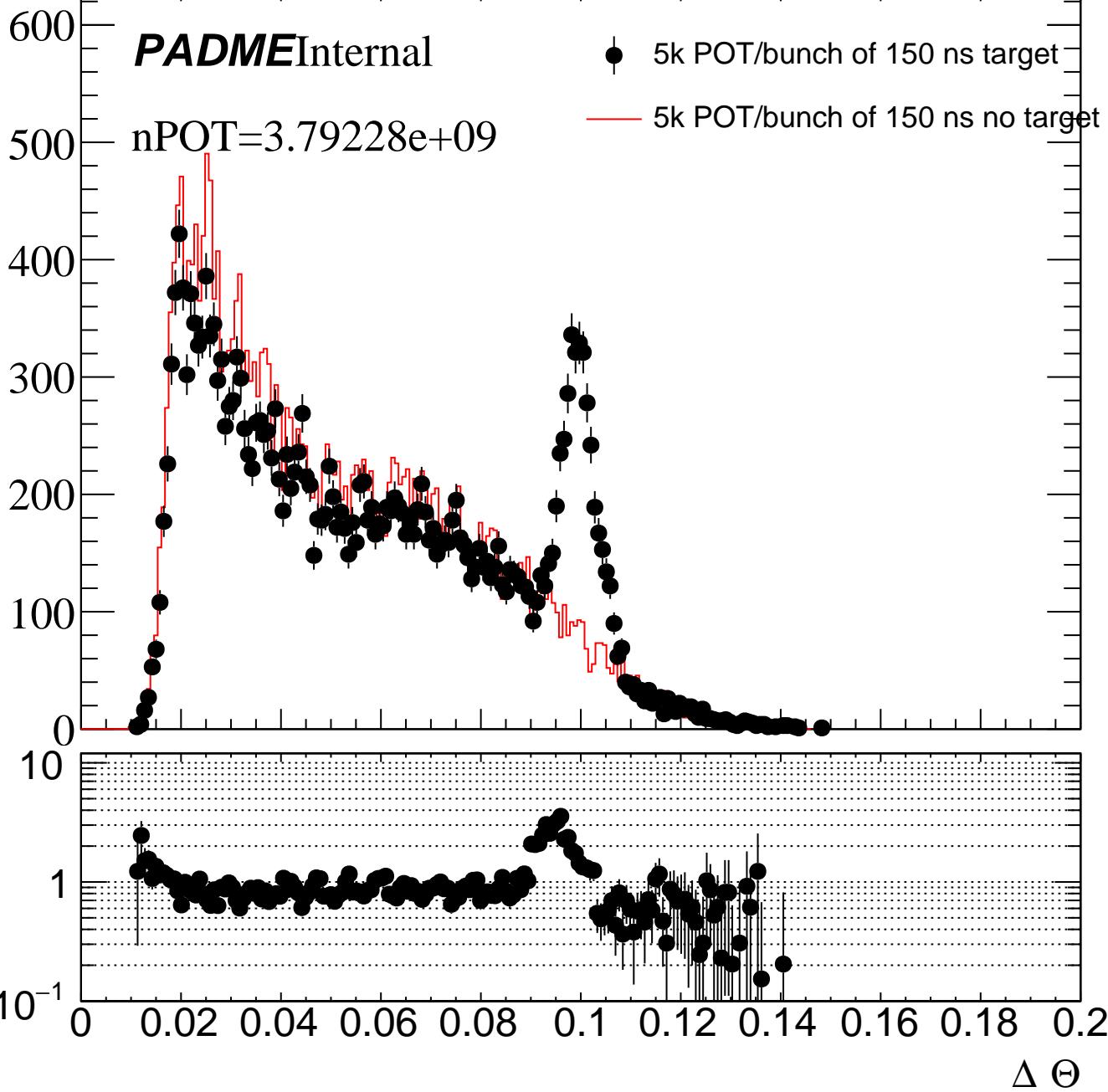


ECAL\_ThetaG2\_10nsUnderPeakEThr90

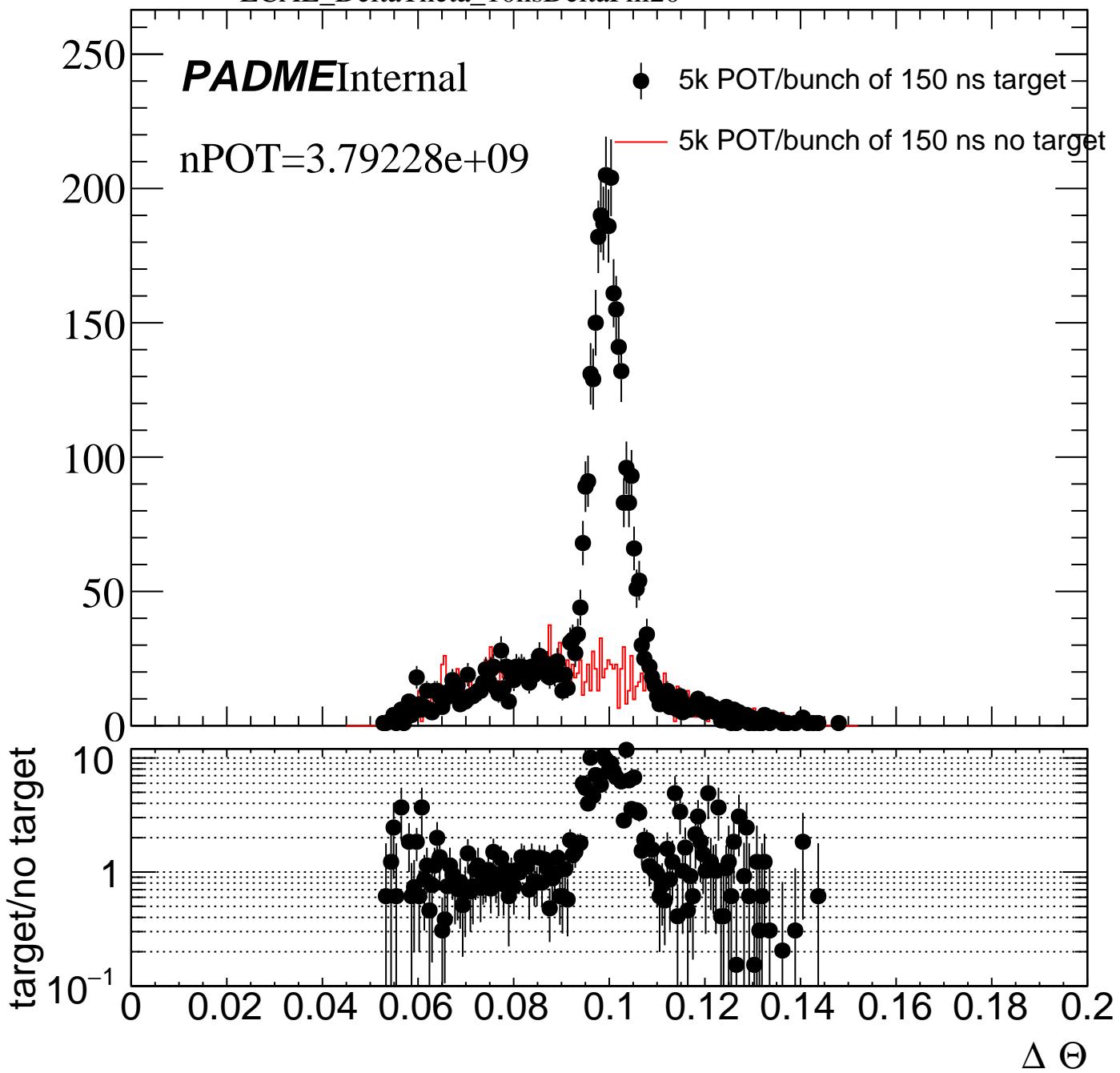


ECAL\_DeltaTheta\_10ns

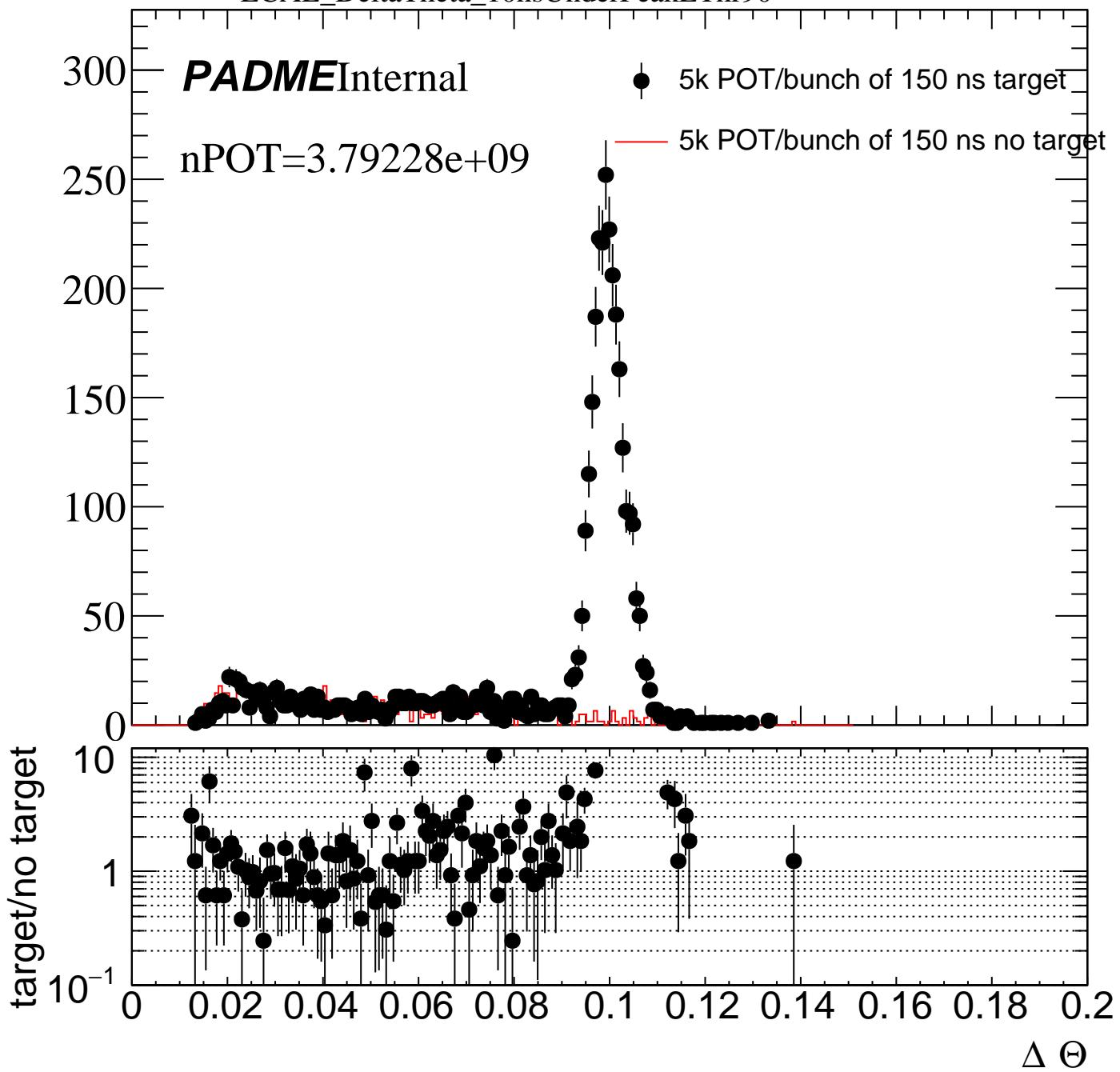
***PADME*** Internal

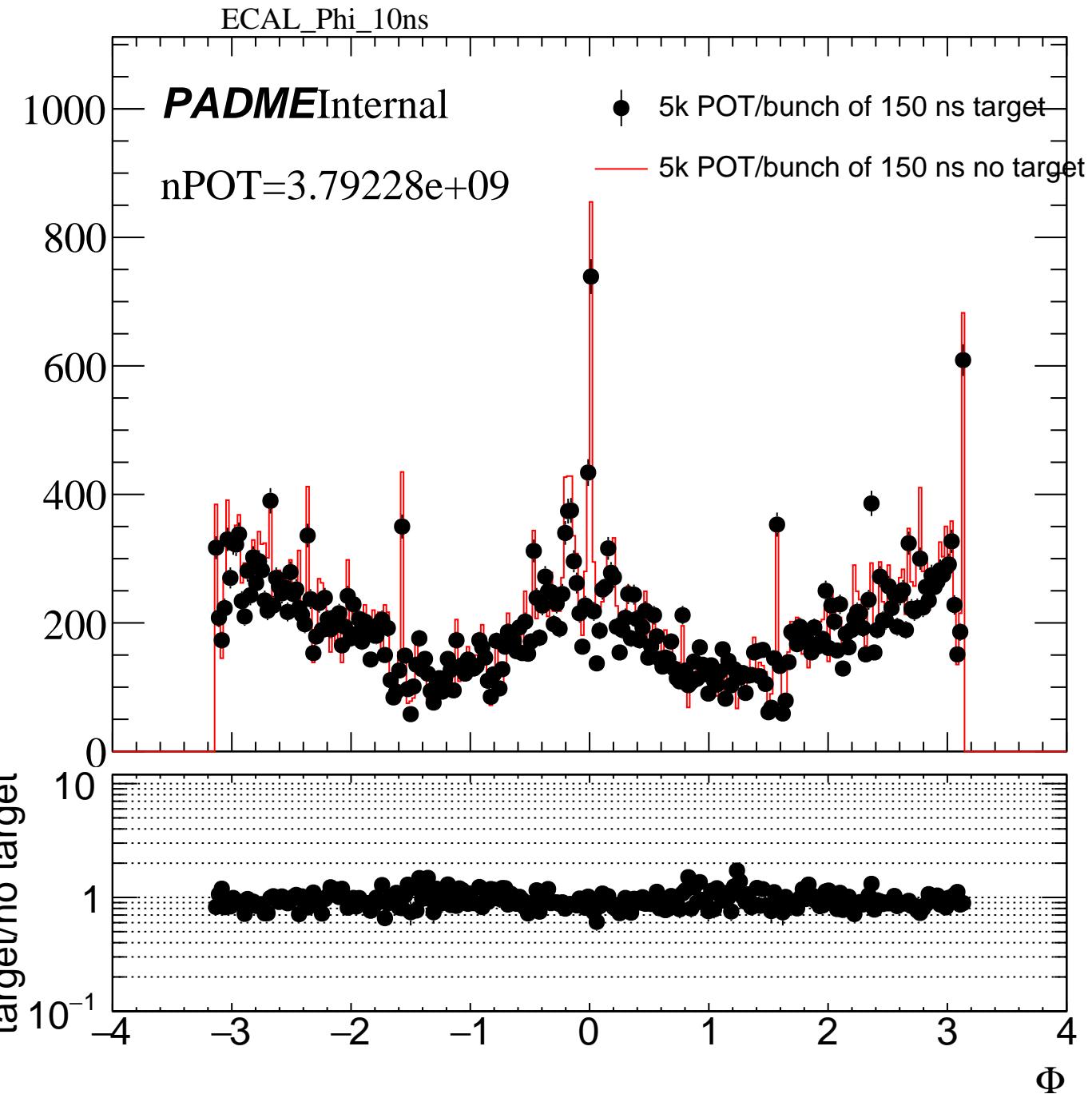


ECAL\_DeltaTheta\_10nsDeltaPhi20

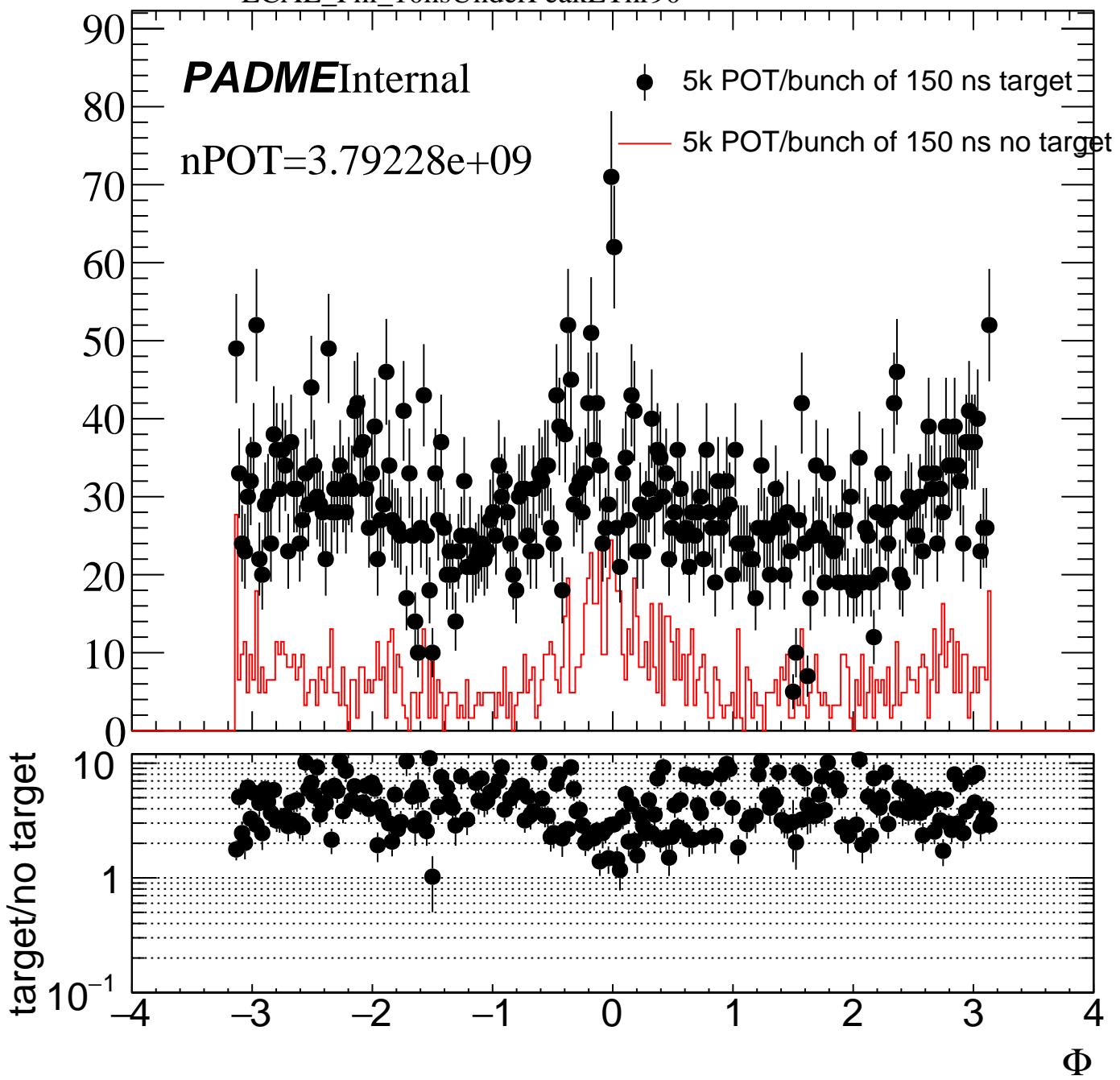


# ECAL\_DeltaTheta\_10nsUnderPeakEThr90

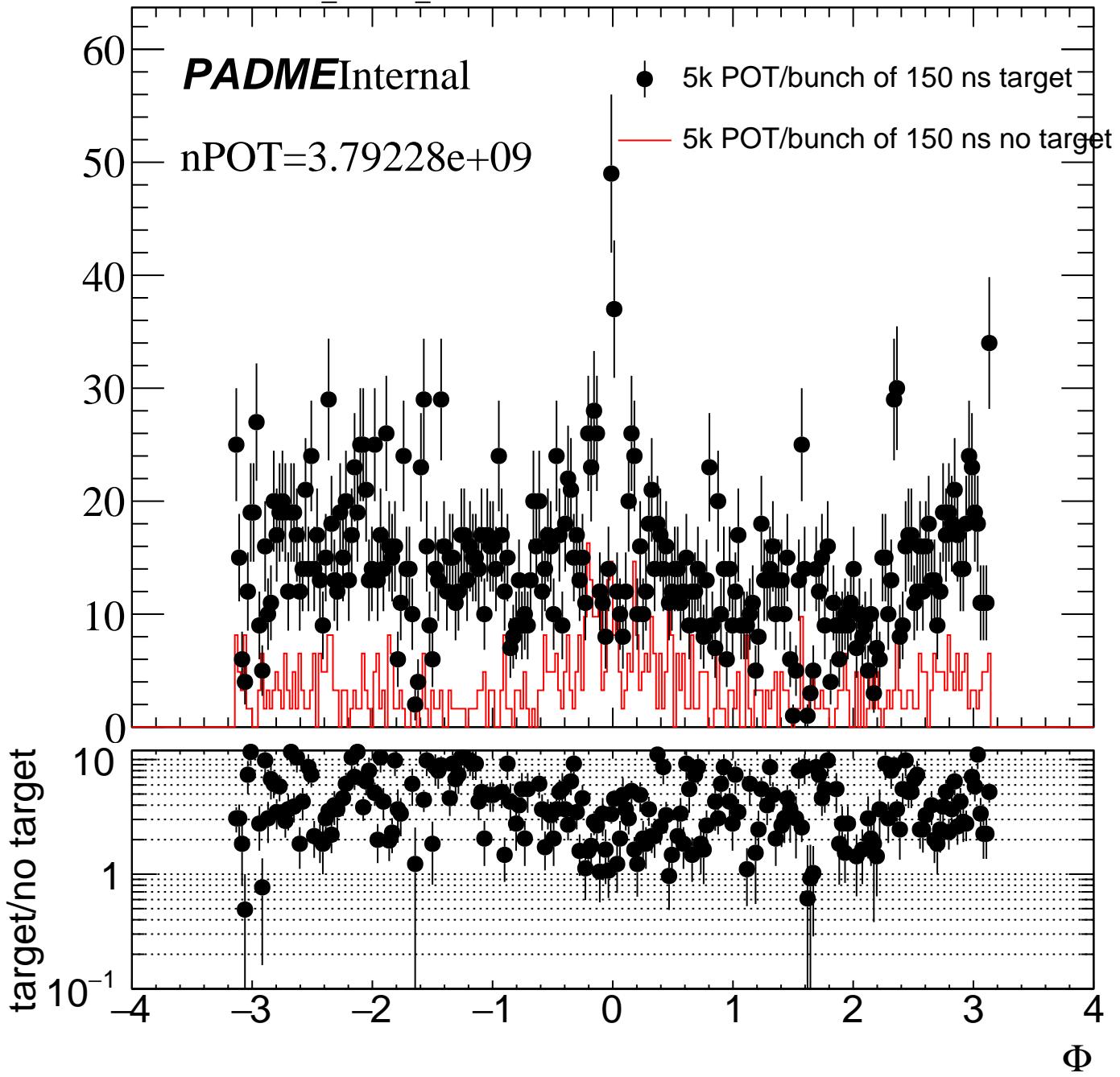




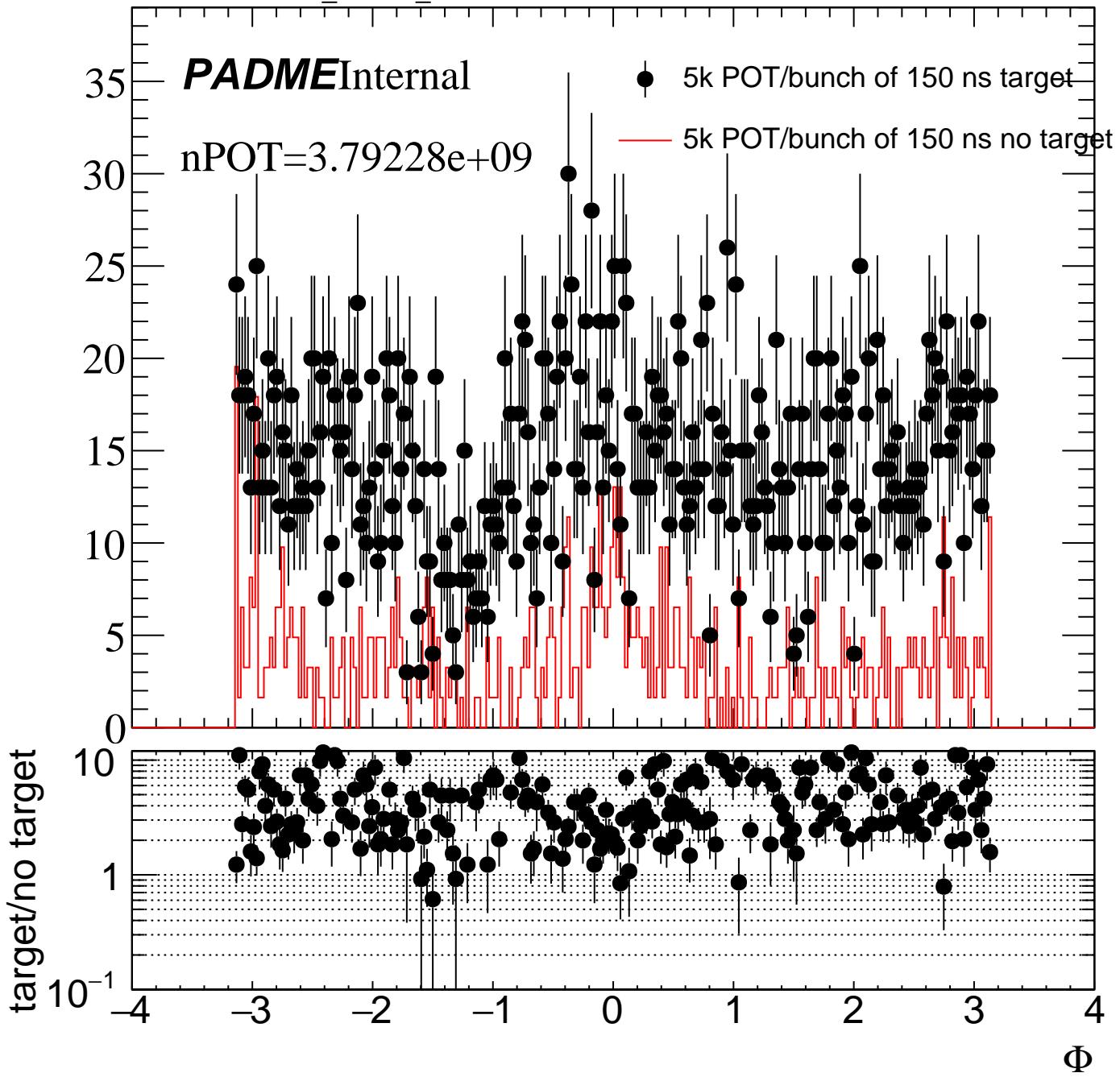
ECAL\_Phi\_10nsUnderPeakEThr90



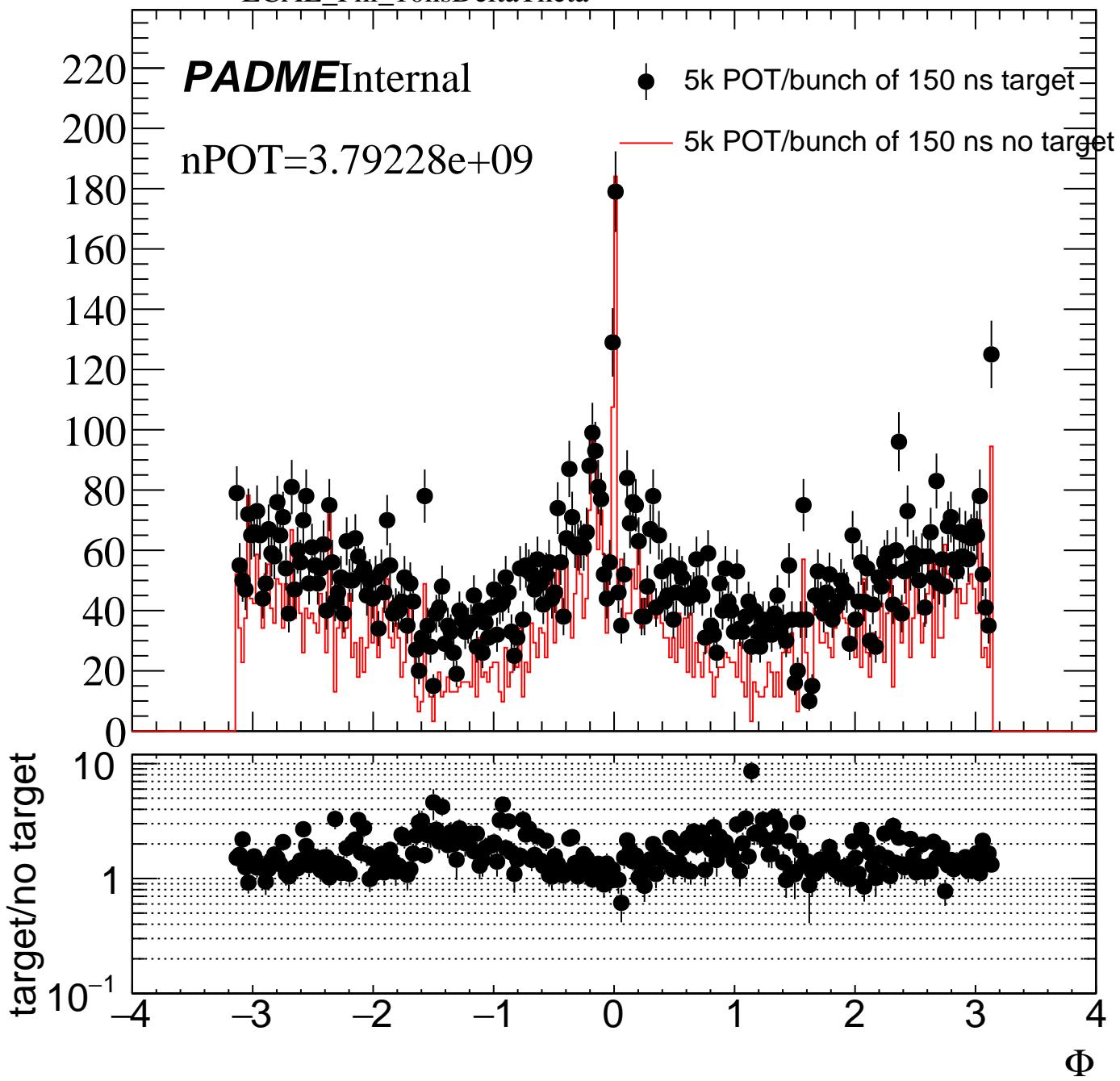
ECAL\_PhiG1\_10nsUnderPeakEThr90



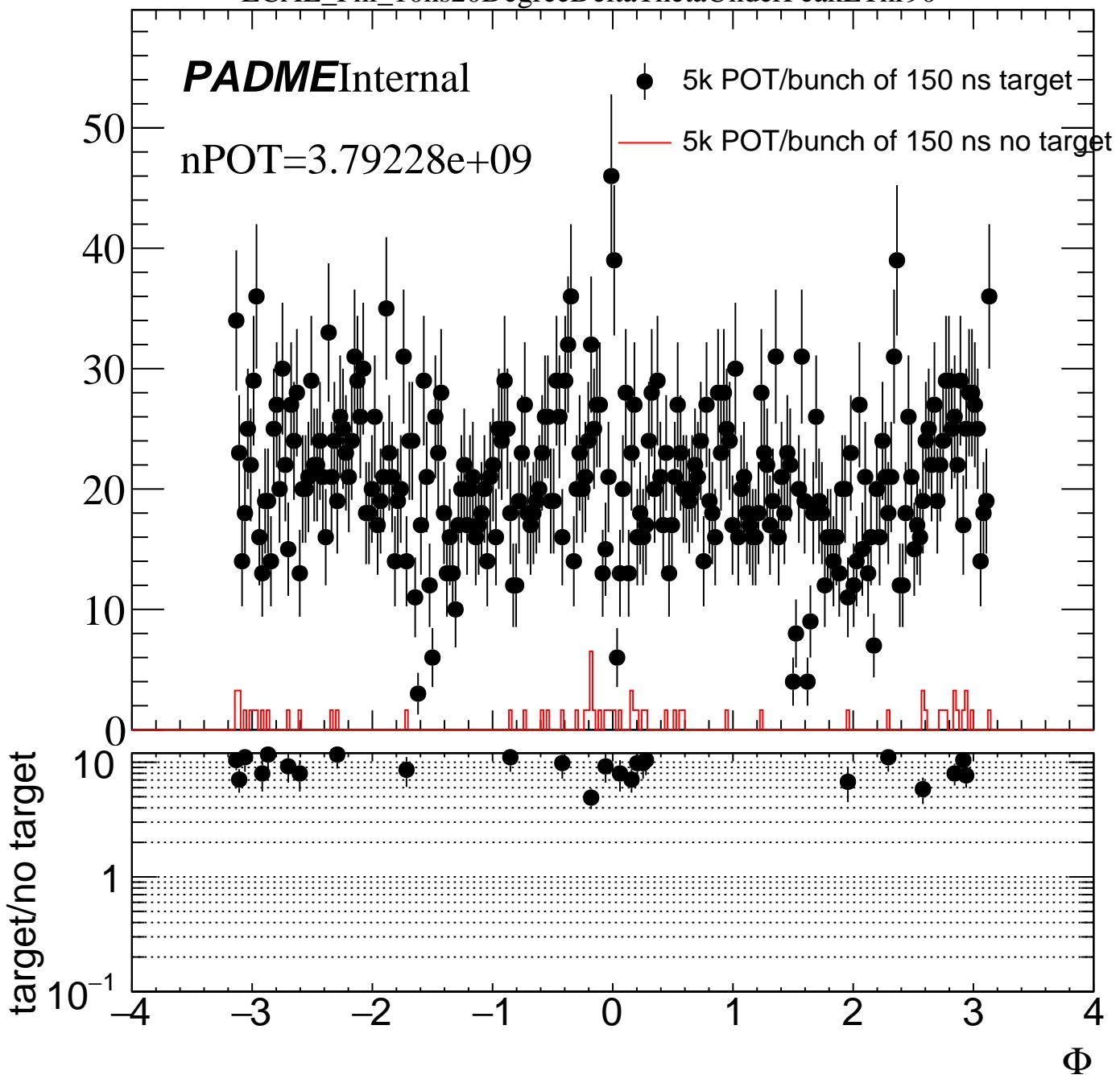
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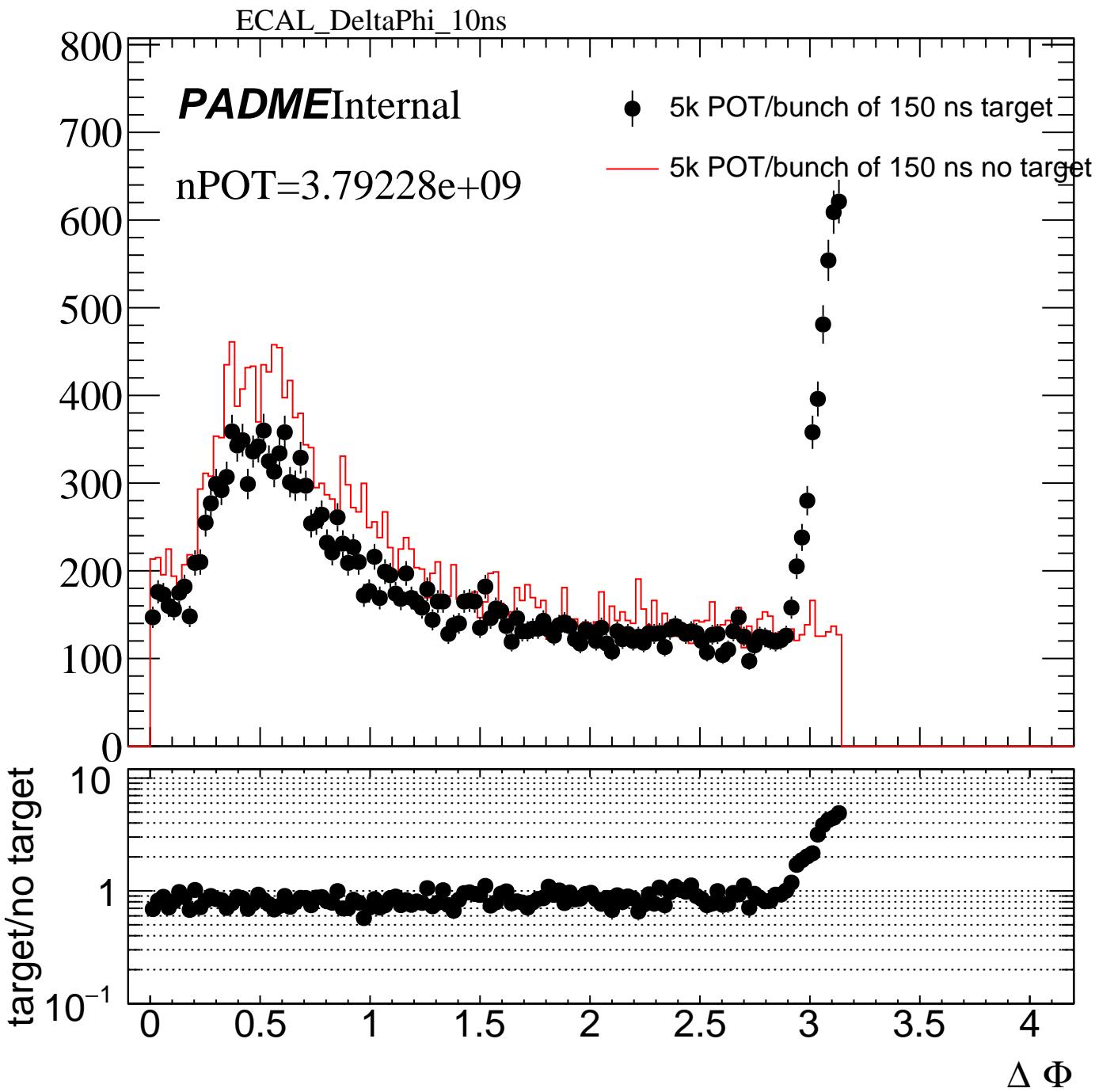


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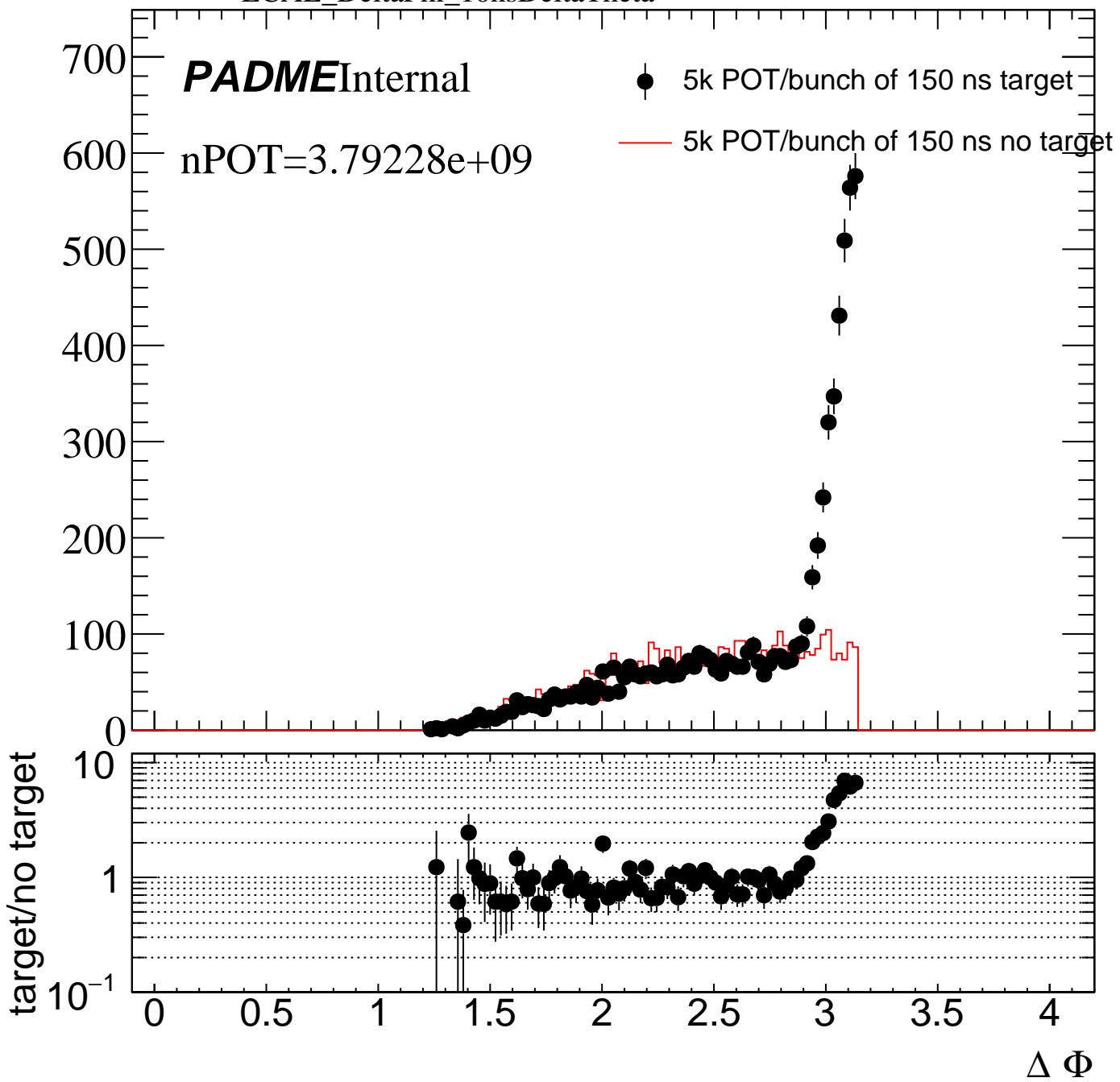


ECAL\_Phi\_10ns20DegreeDeltaThetaUnderPeakEThr90

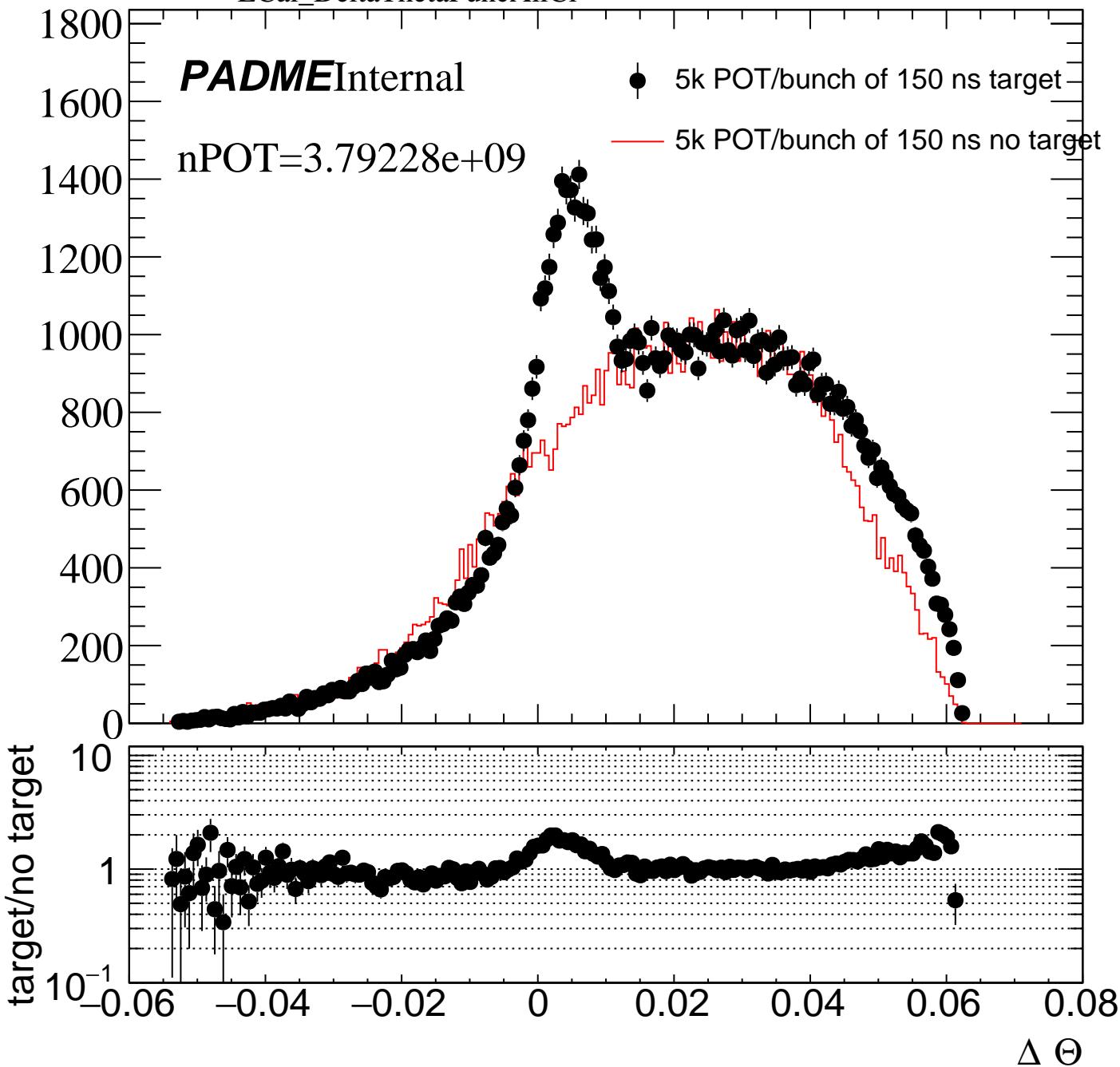




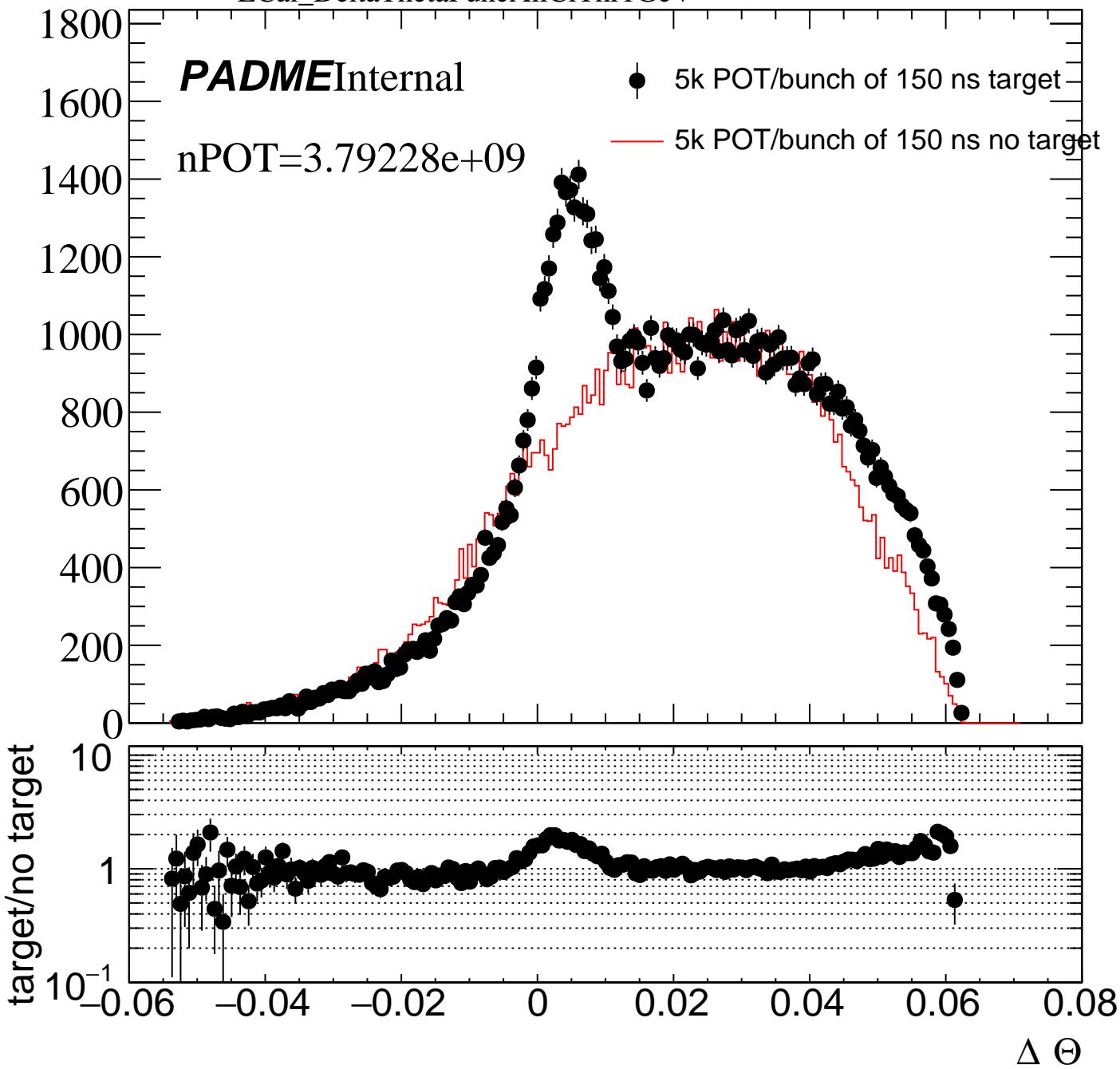
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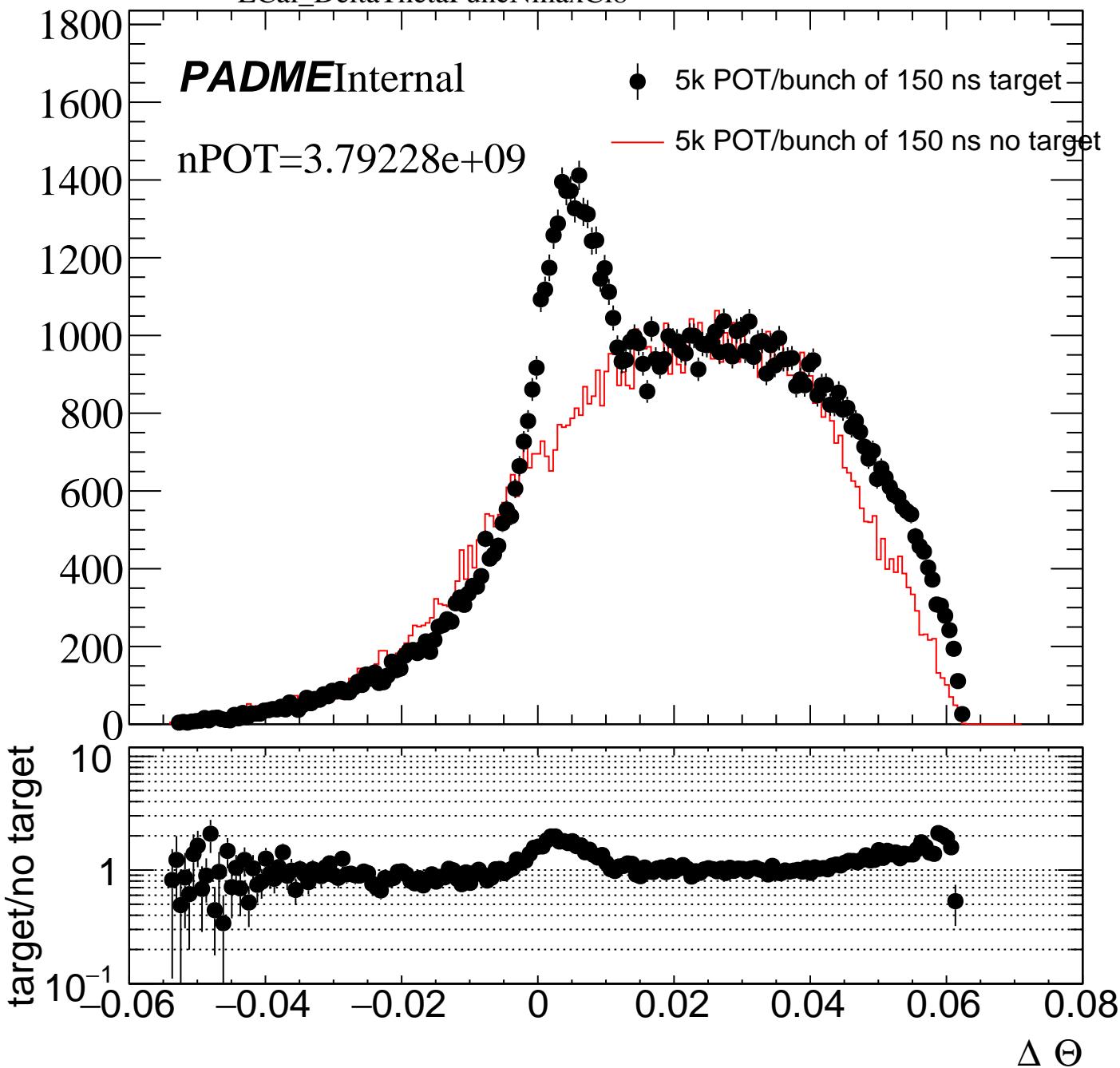
ECal\_DeltaThetaFuncAllCl



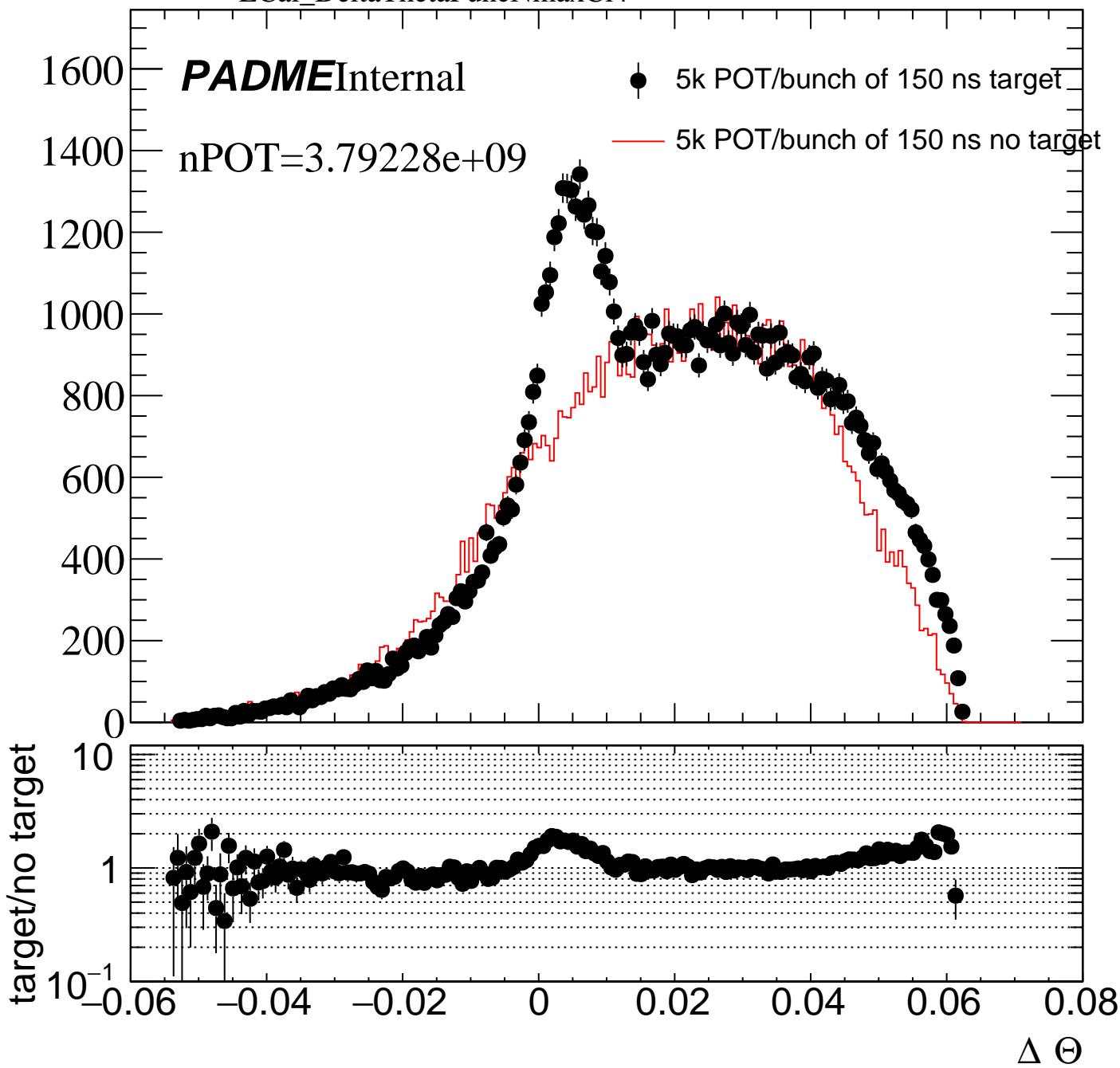
ECal\_DeltaThetaFuncAllClThr1GeV



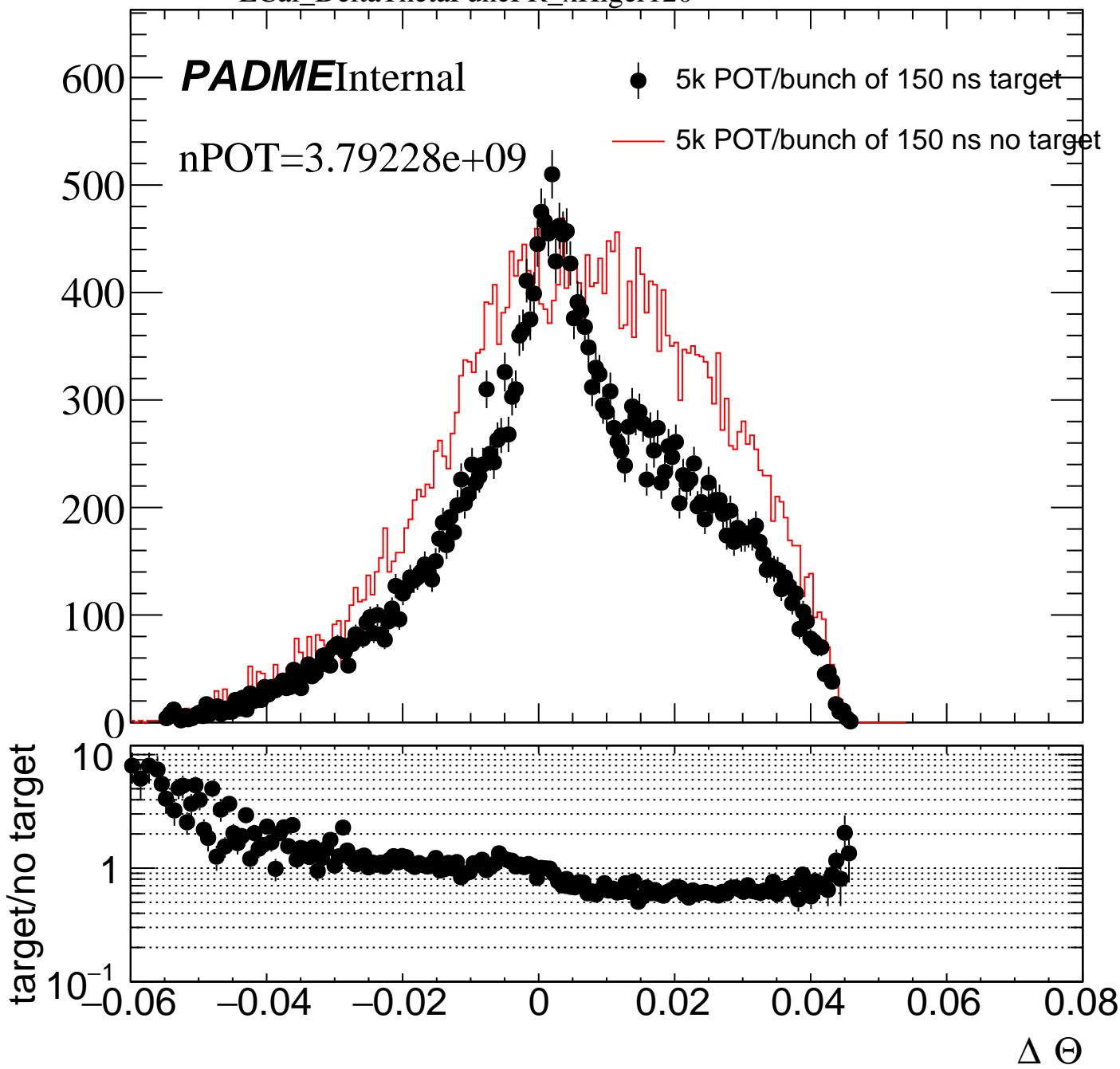
ECal\_DeltaThetaFuncNmaxC18



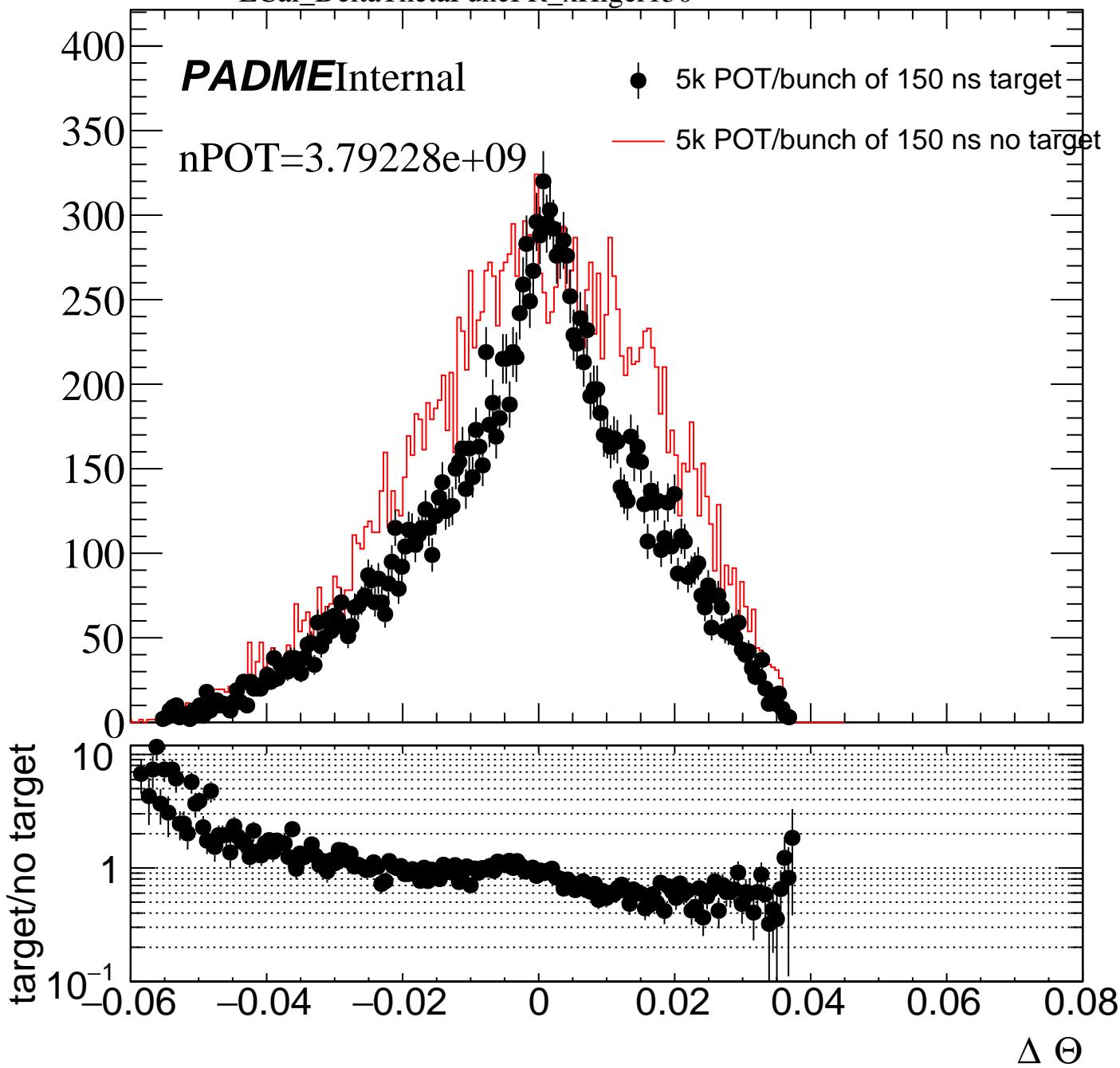
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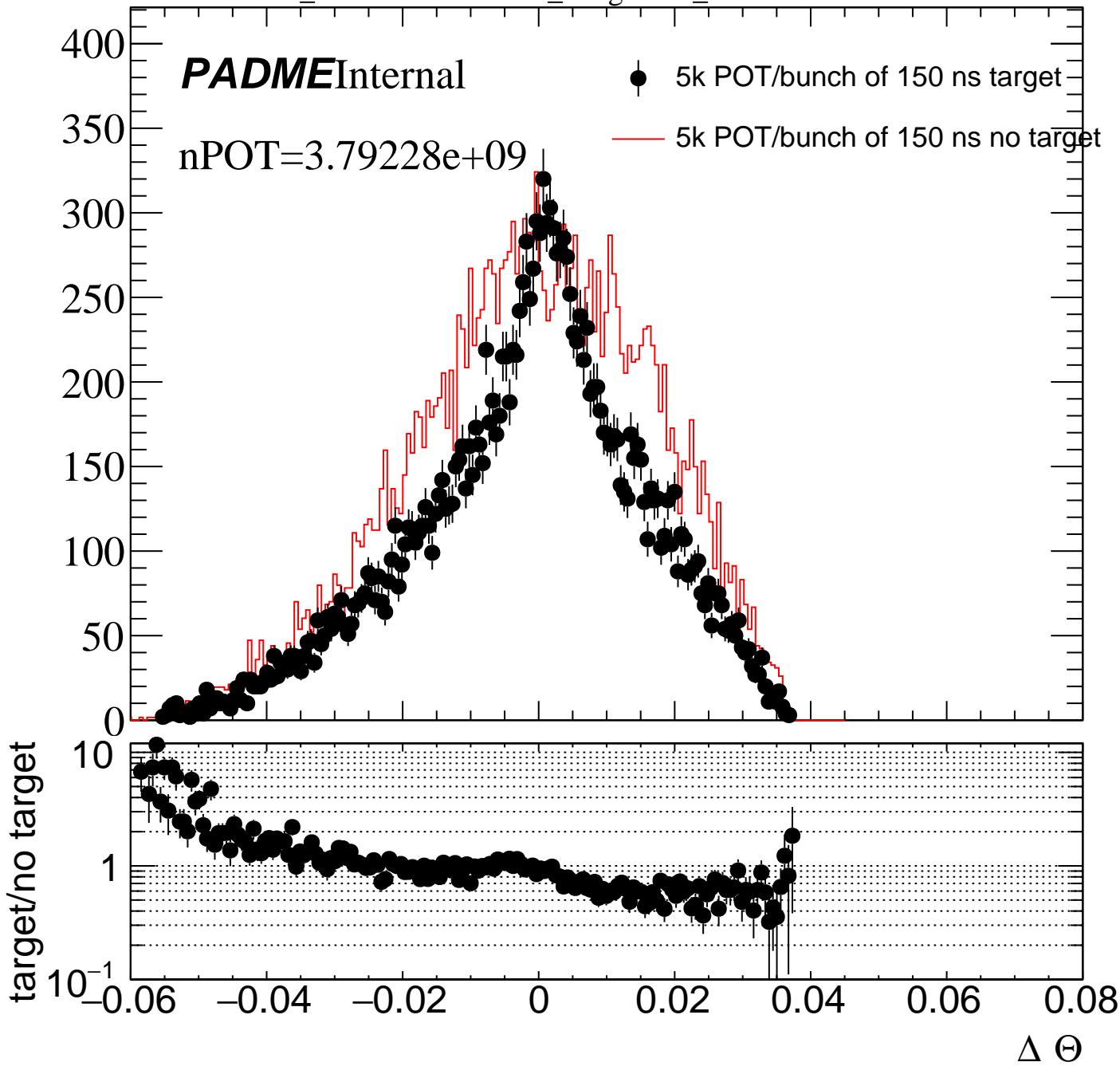
ECal\_DeltaThetaFuncFR\_xHiger120



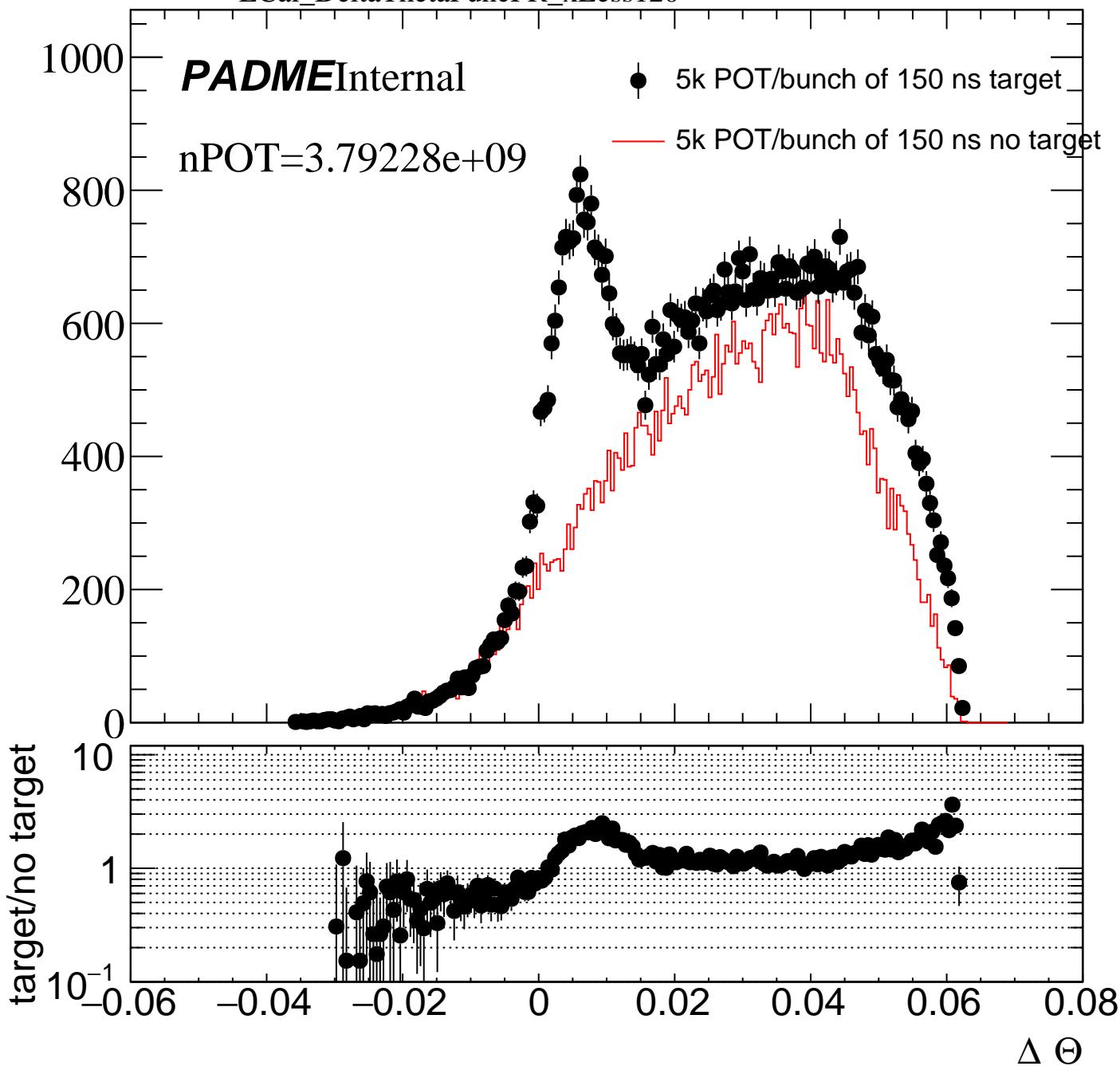
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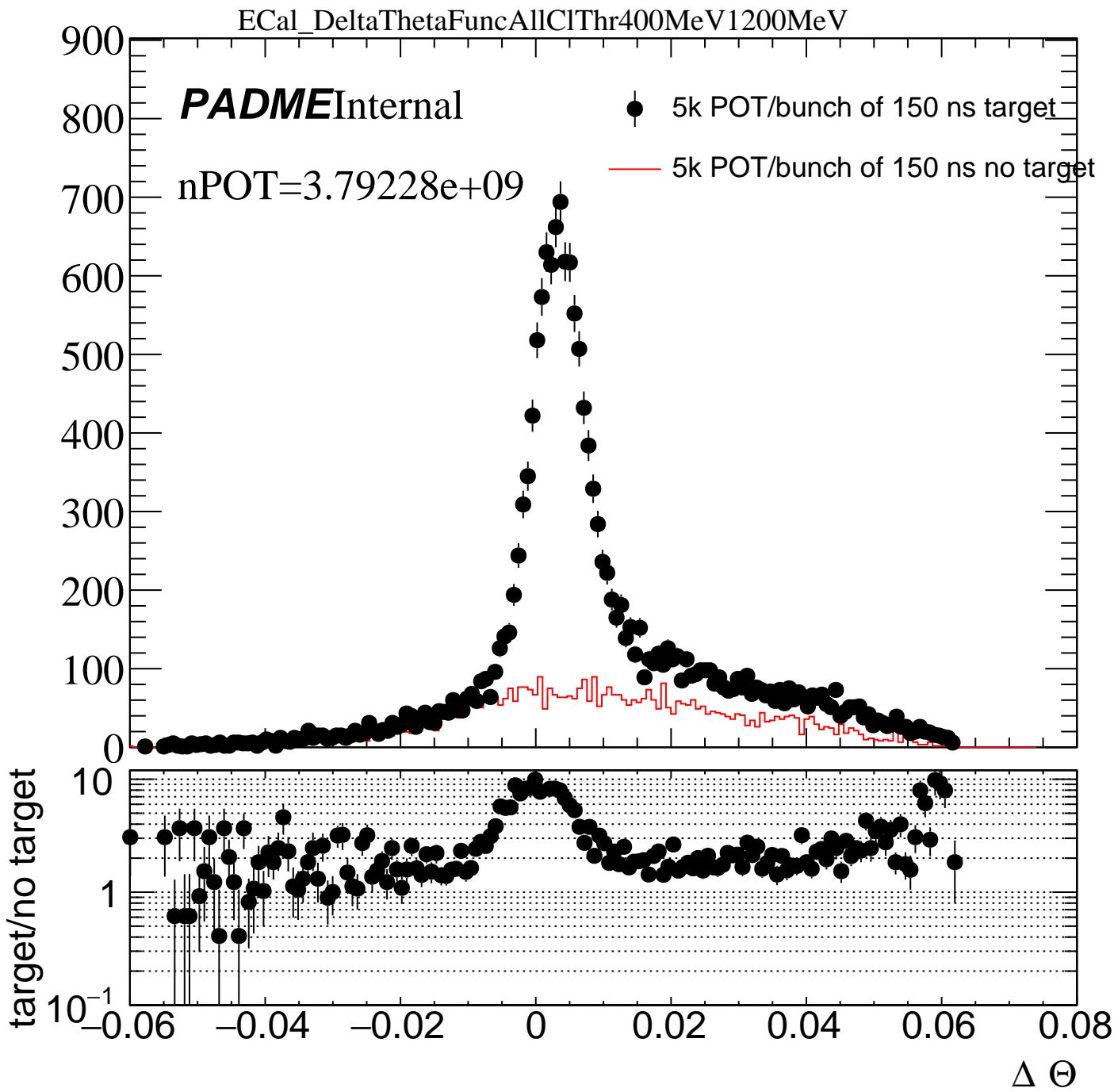


ECal\_DeltaThetaFuncFR\_xHiger150\_EthrLess1GeV

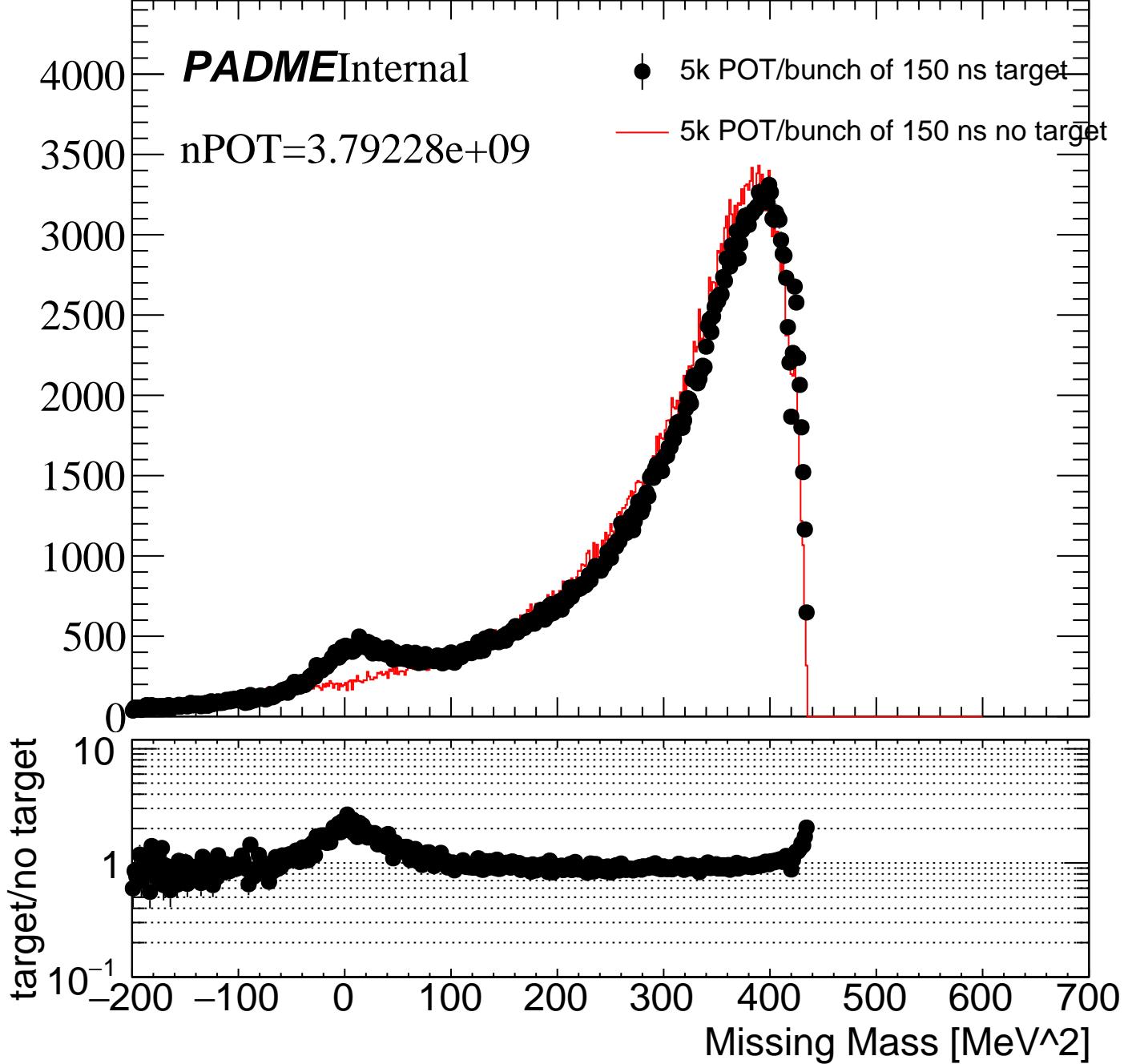


ECal\_DeltaThetaFuncFR\_xLess120

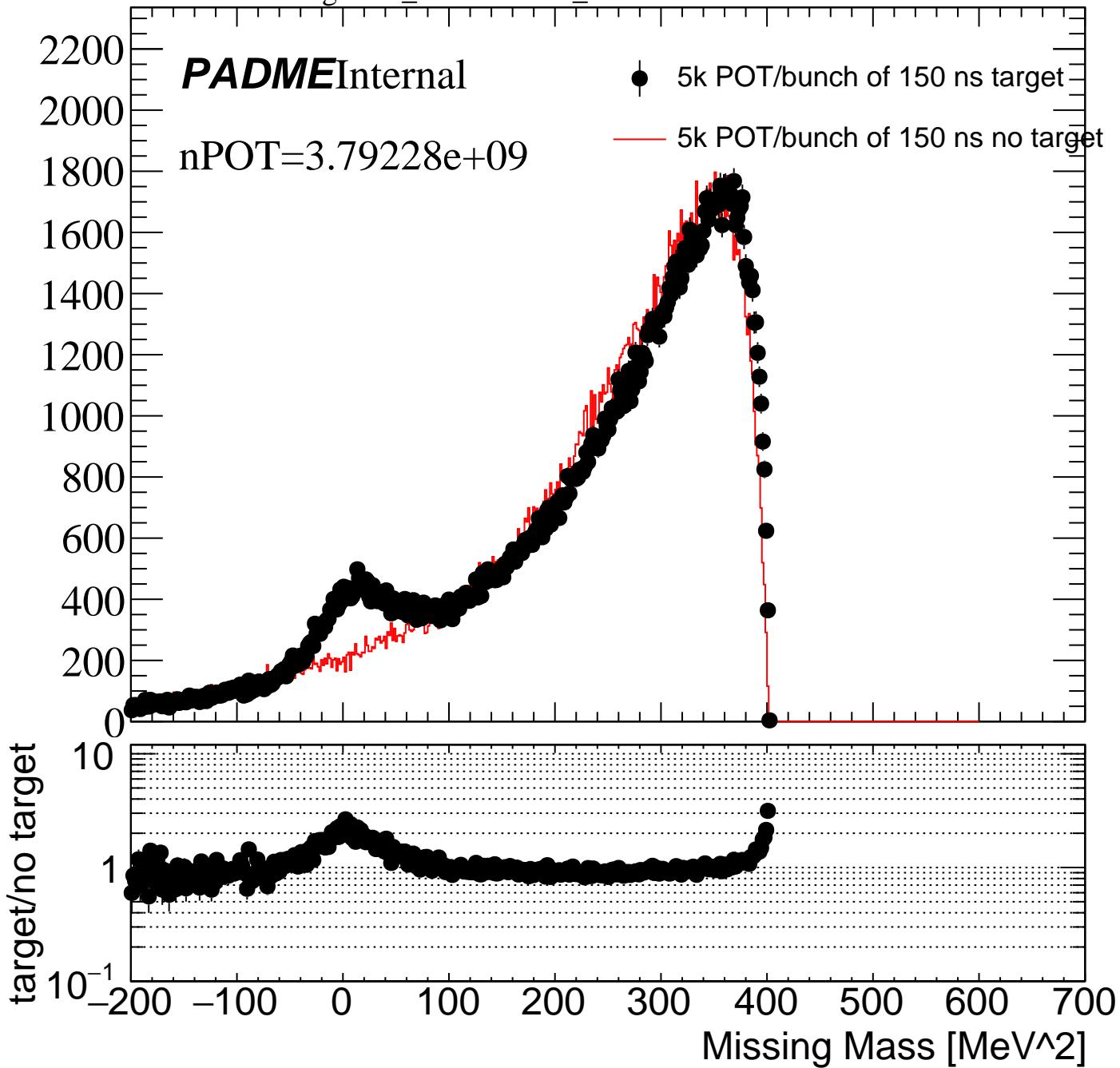




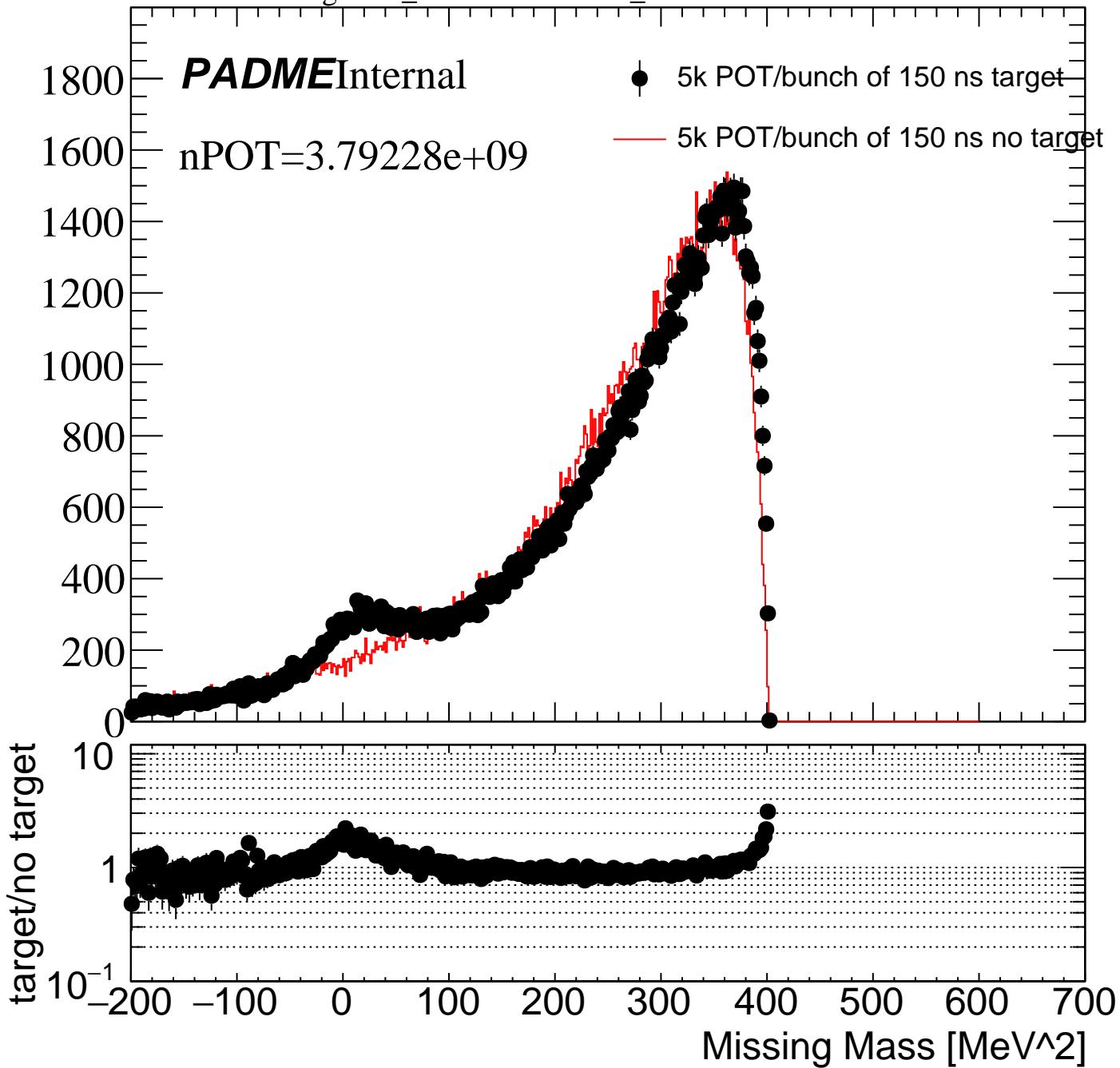
MissingMass\_AllECALclu



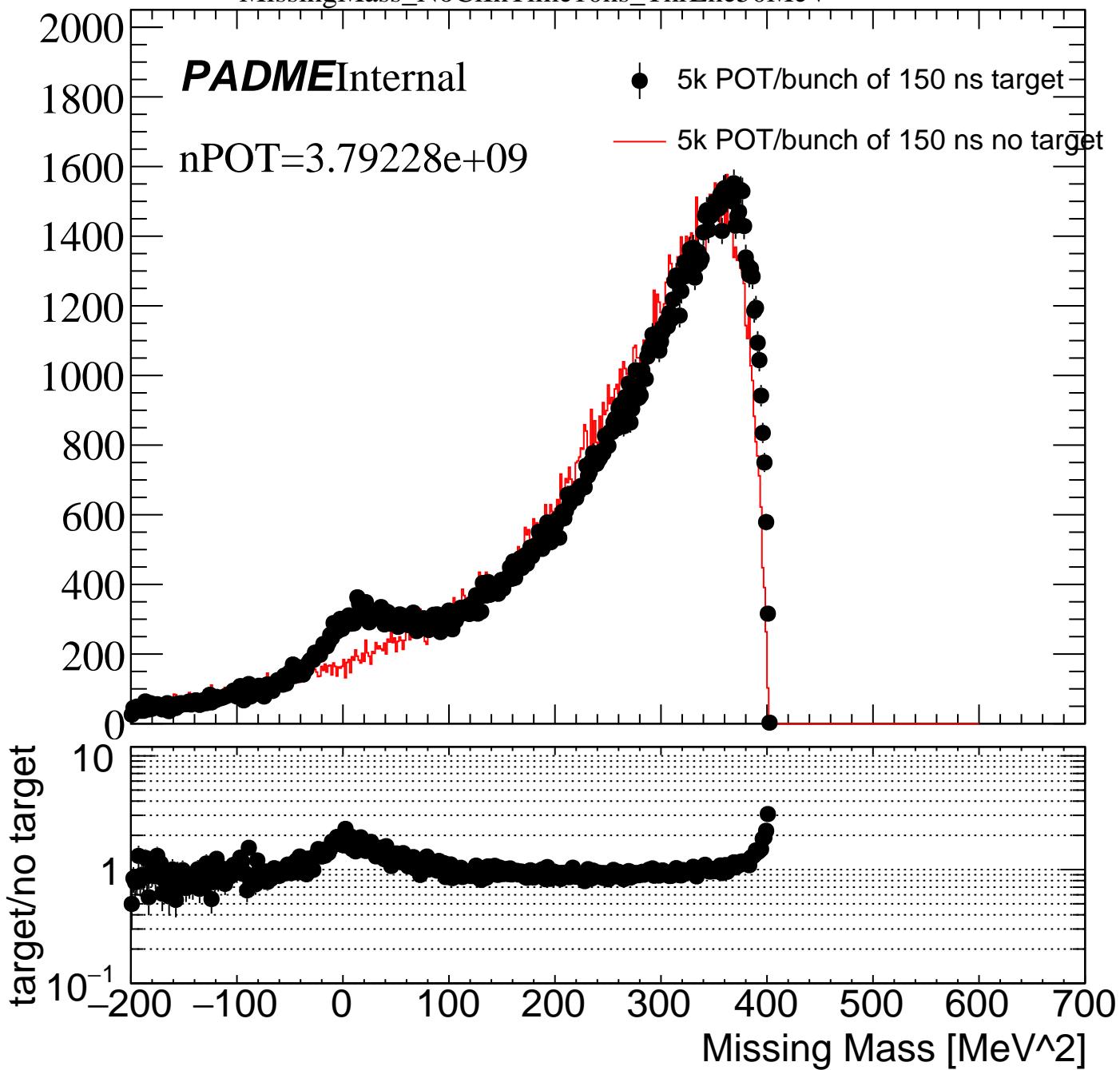
MissingMass\_AllECALclu\_ThrEne50MeV



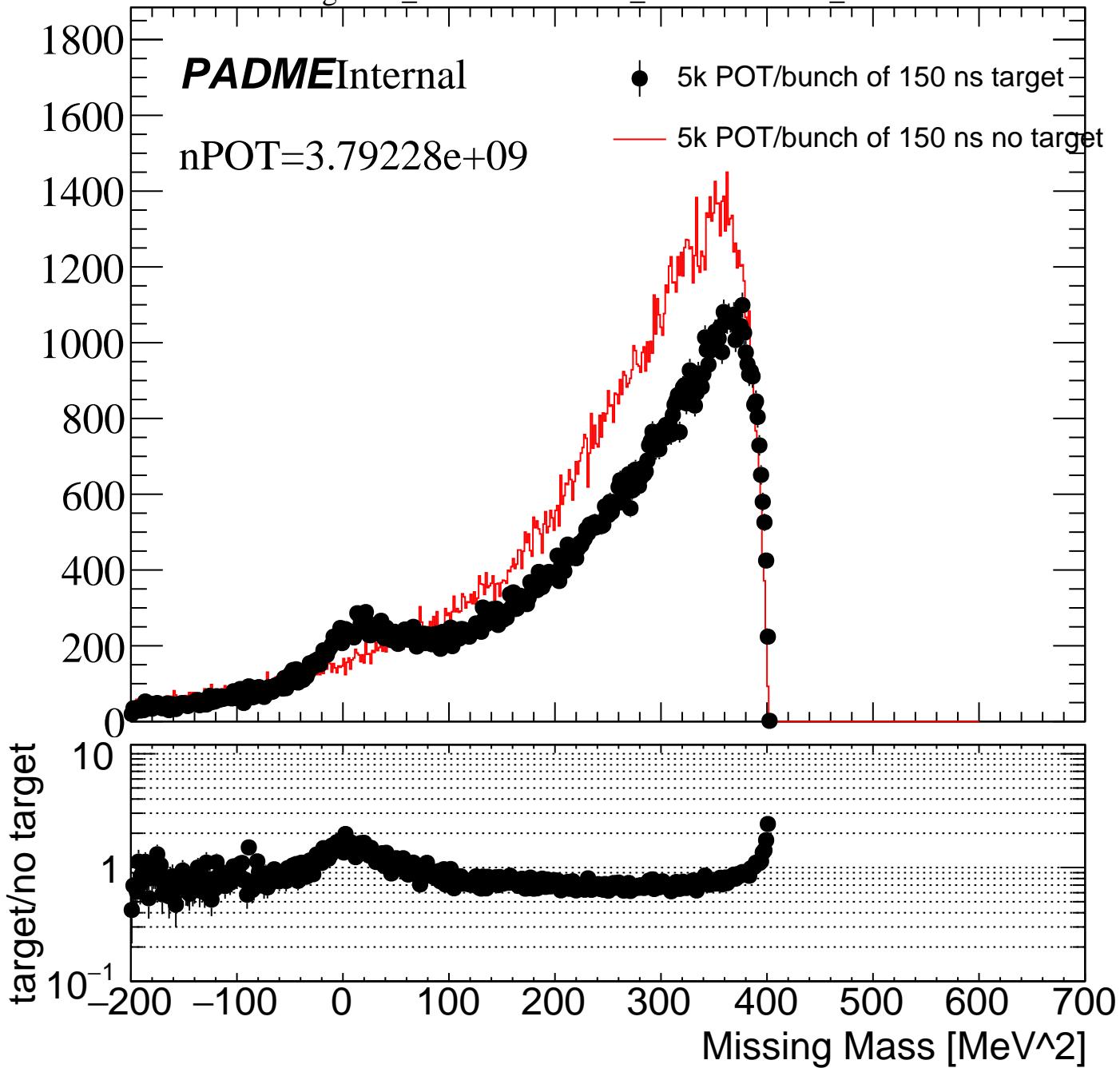
MissingMass\_NoClInTime20ns\_ThrEne50MeV

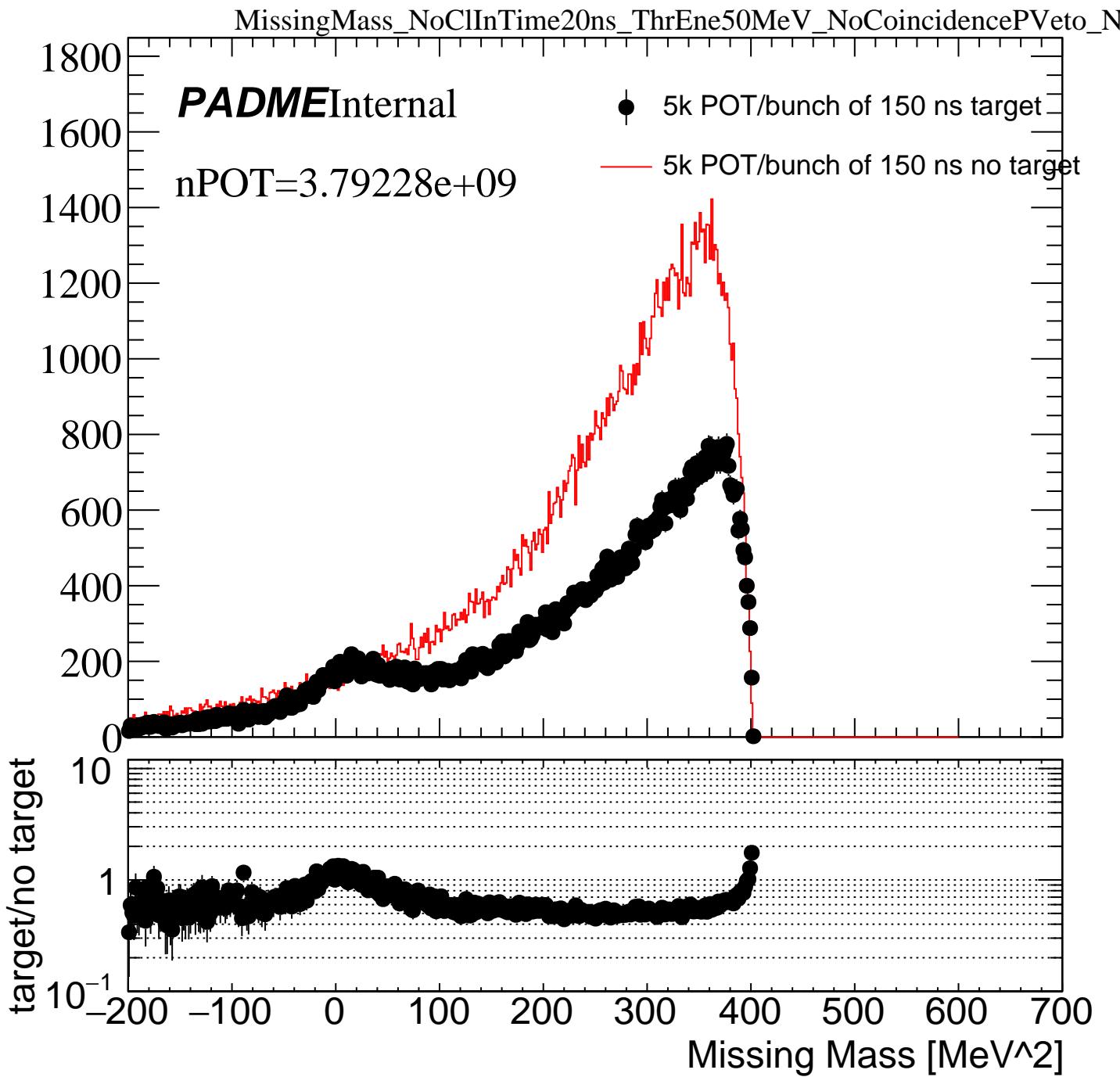


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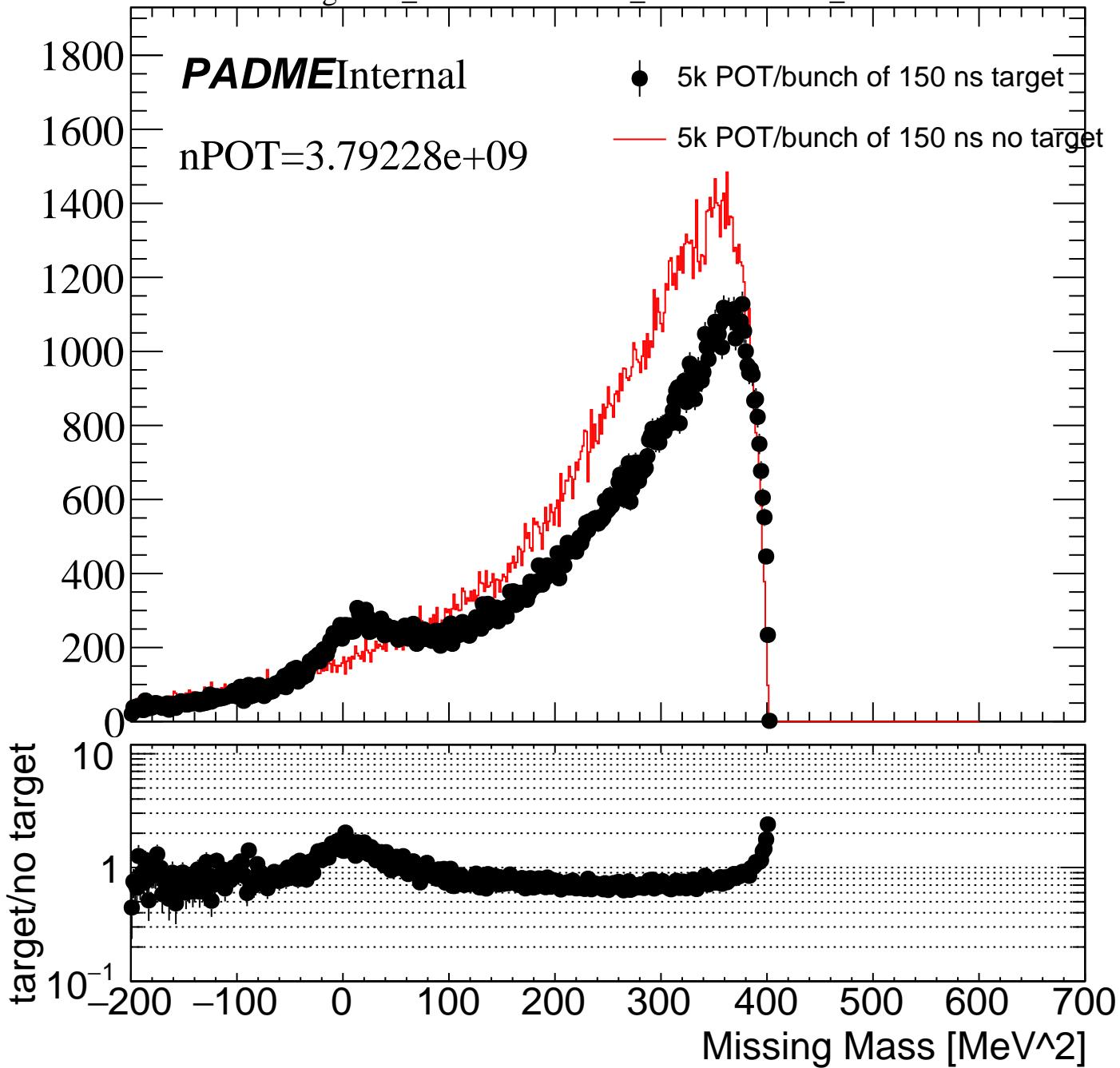


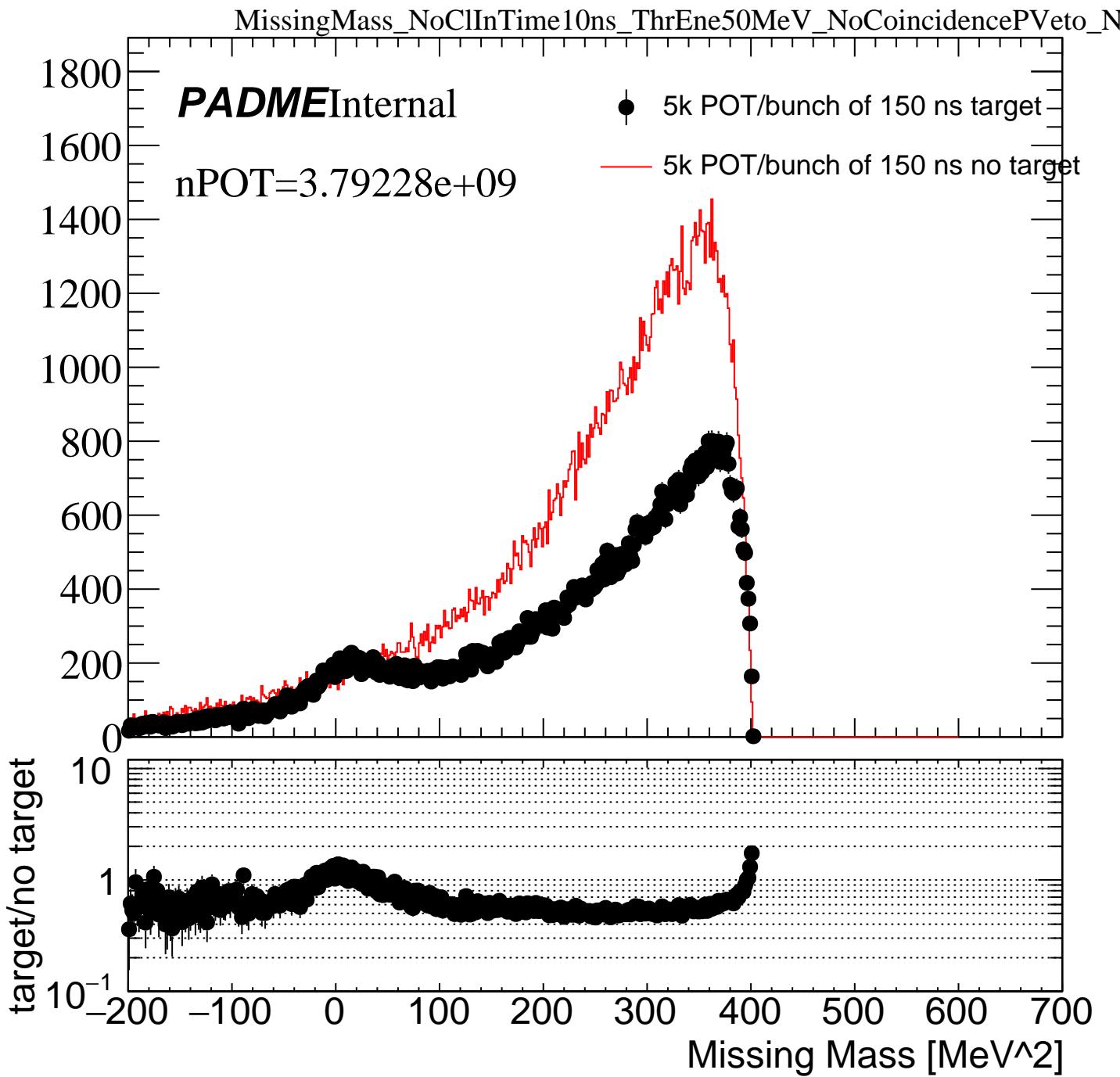
MissingMass\_NoClInTime20ns\_ThrEne50MeV\_NoCoincidencePVeto



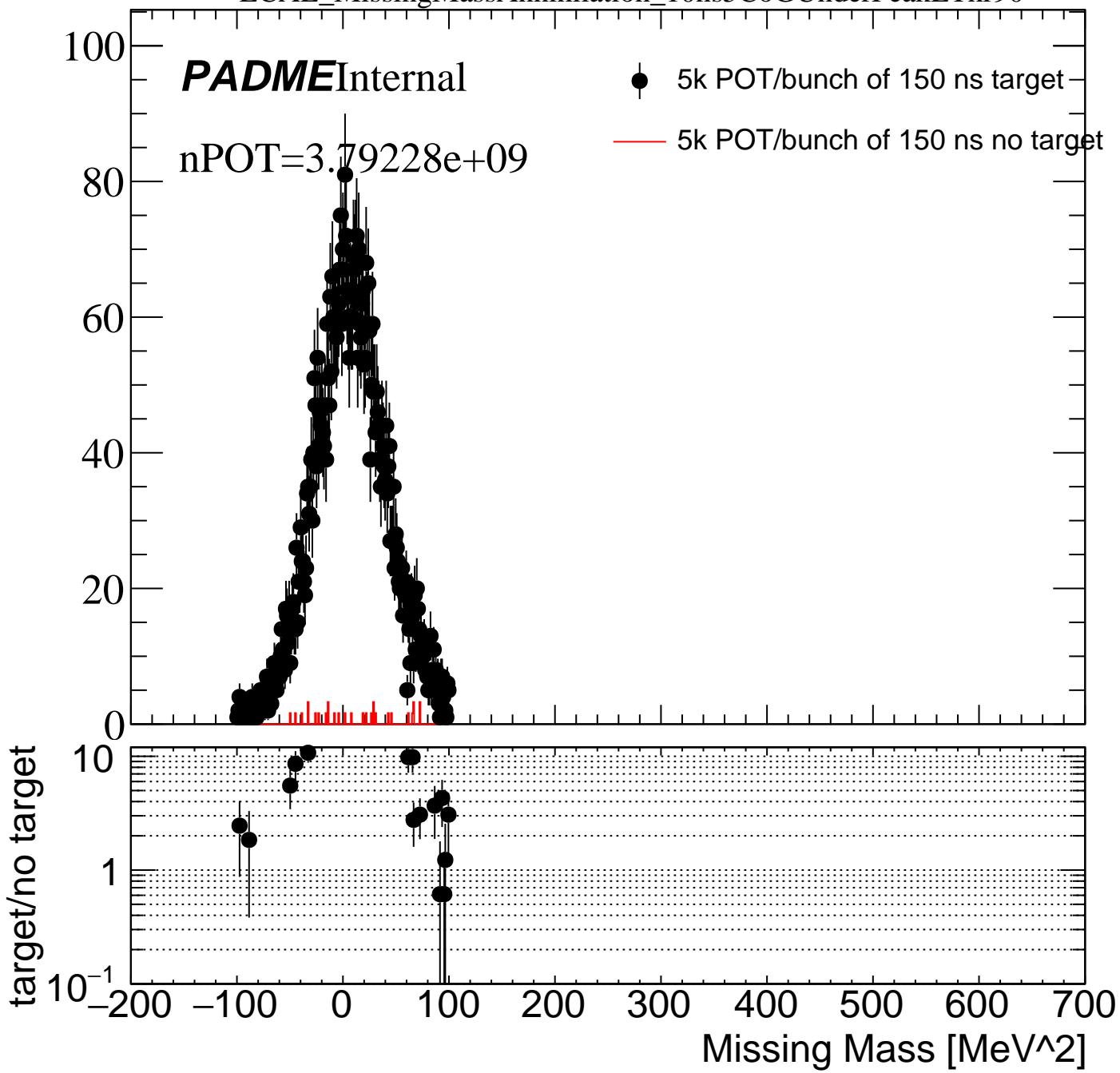


MissingMass\_NoClInTime10ns\_ThrEne50MeV\_NoCoincidencePVeto





ECAL\_MissingMassAnnihilation\_10ns5CoGUnderPeakEThr90



ECAL\_MissingMassAnnihilation\_10ns5CoGUnderPeakEThr90

