

ECal_ClusterEnergy

PADMEInternal

● 15k POT/bunch of 150 ns target

— 15k POT/bunch of 150 ns no target

$n\text{POT} = 5.63193 \times 10^9$

target/no target

10^{-1}

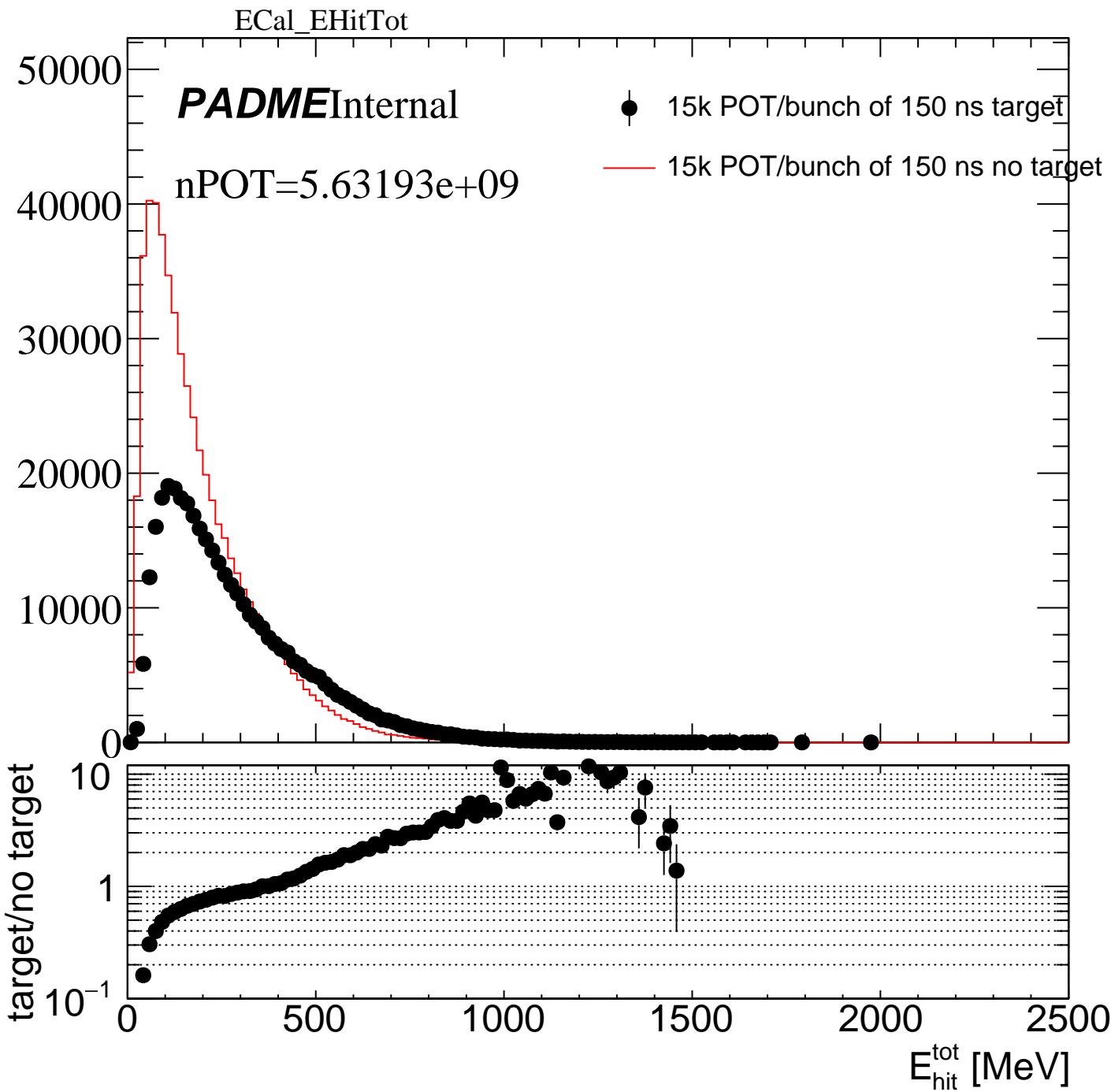
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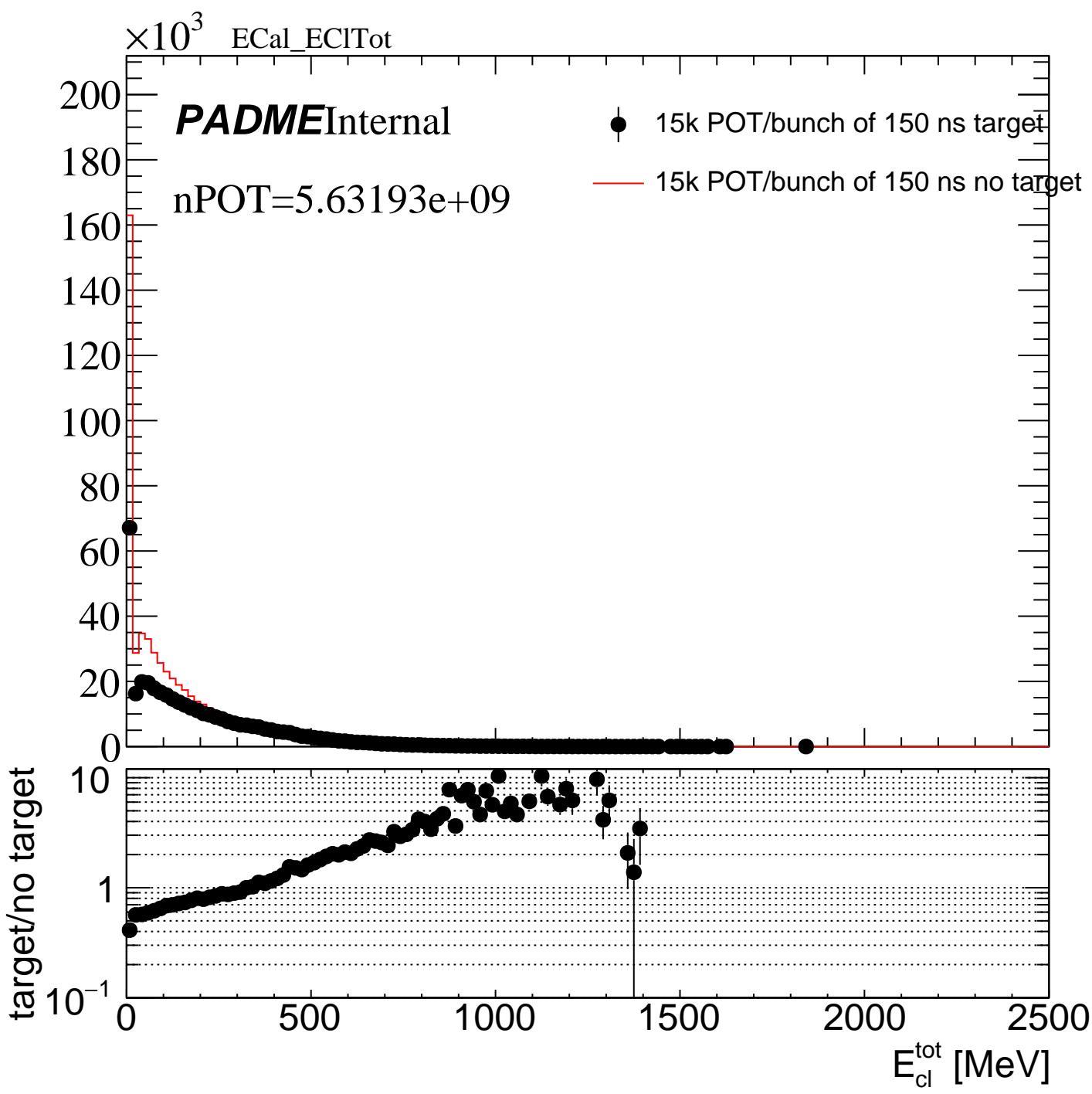
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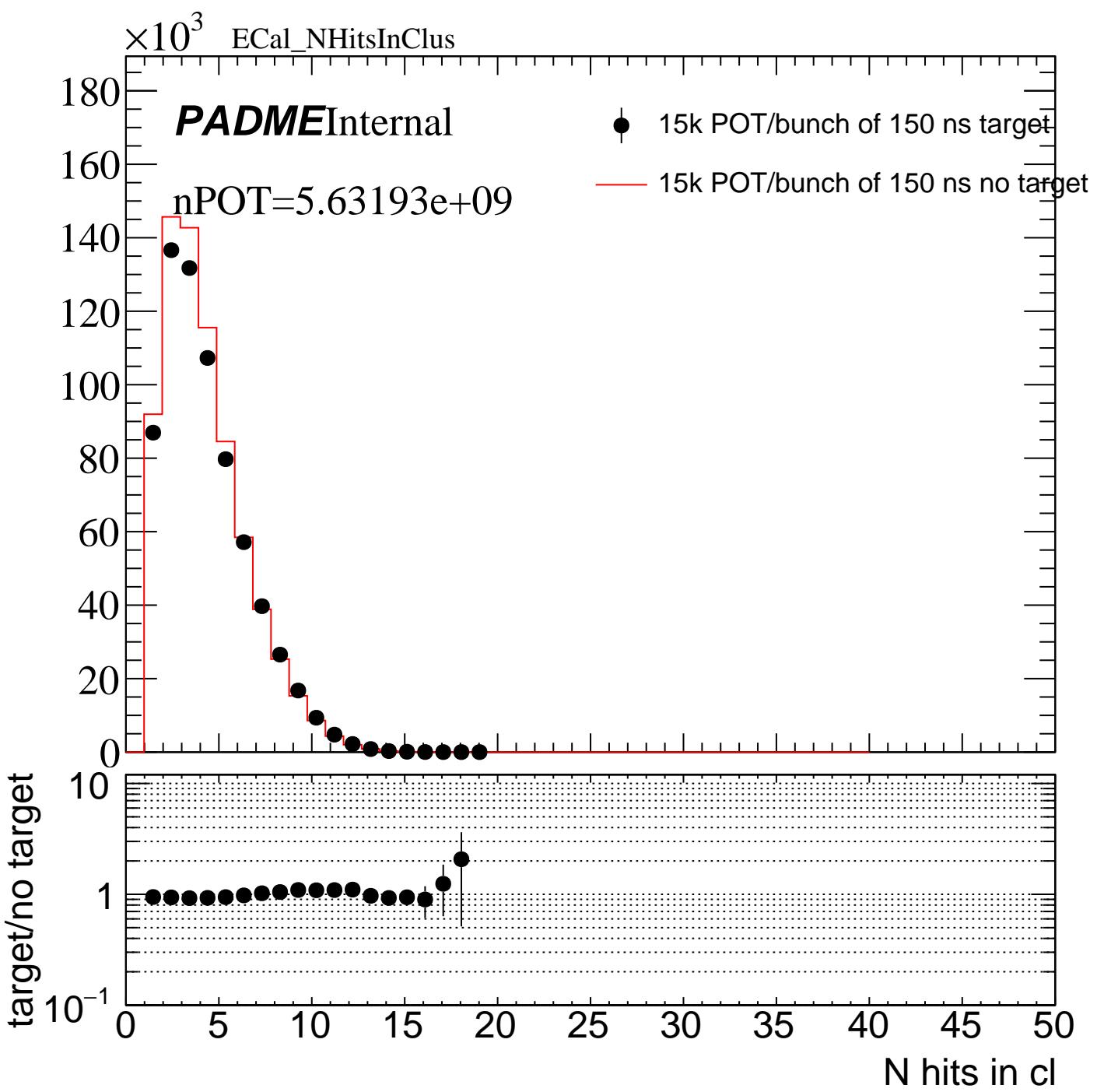
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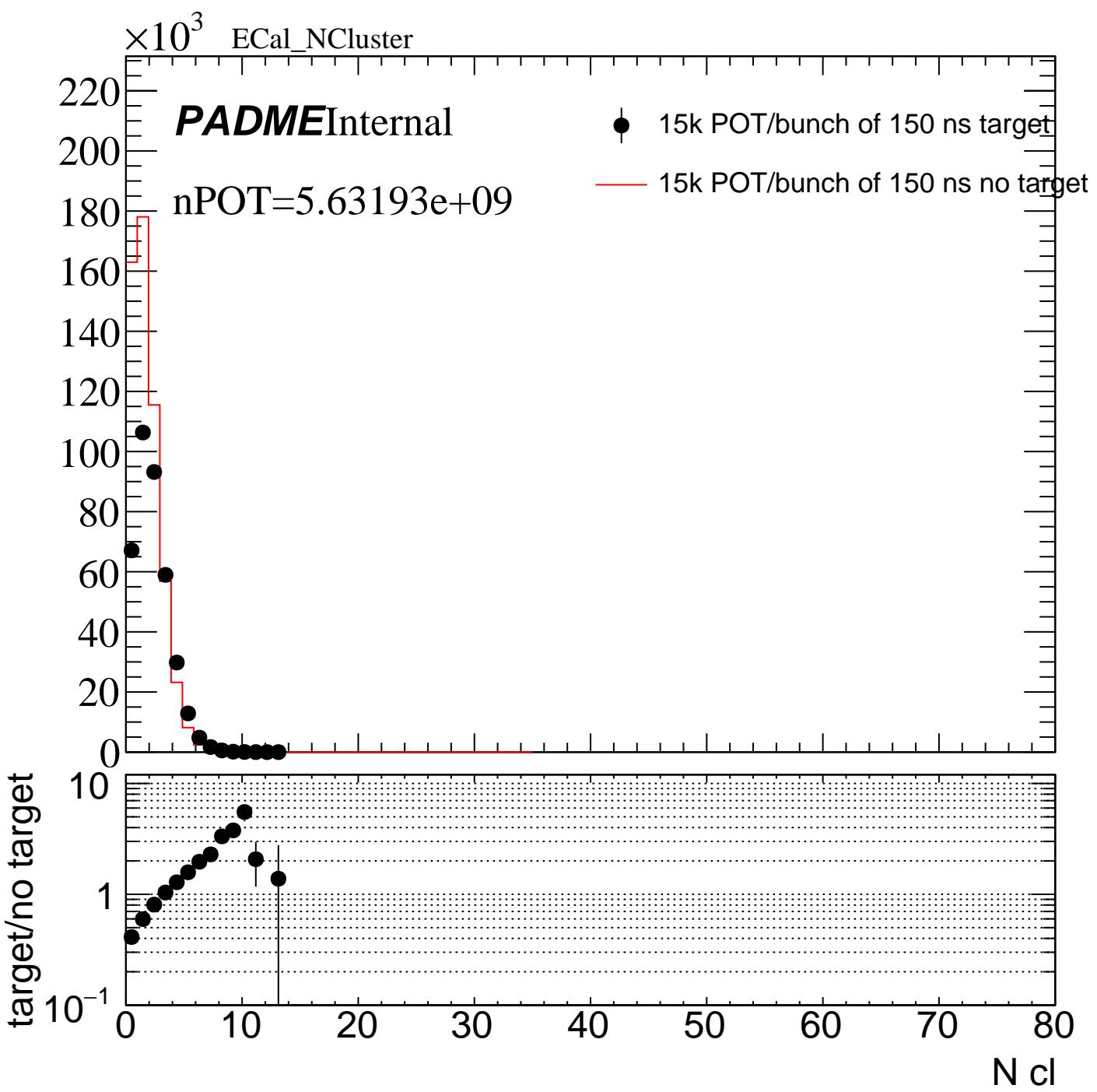
10^2

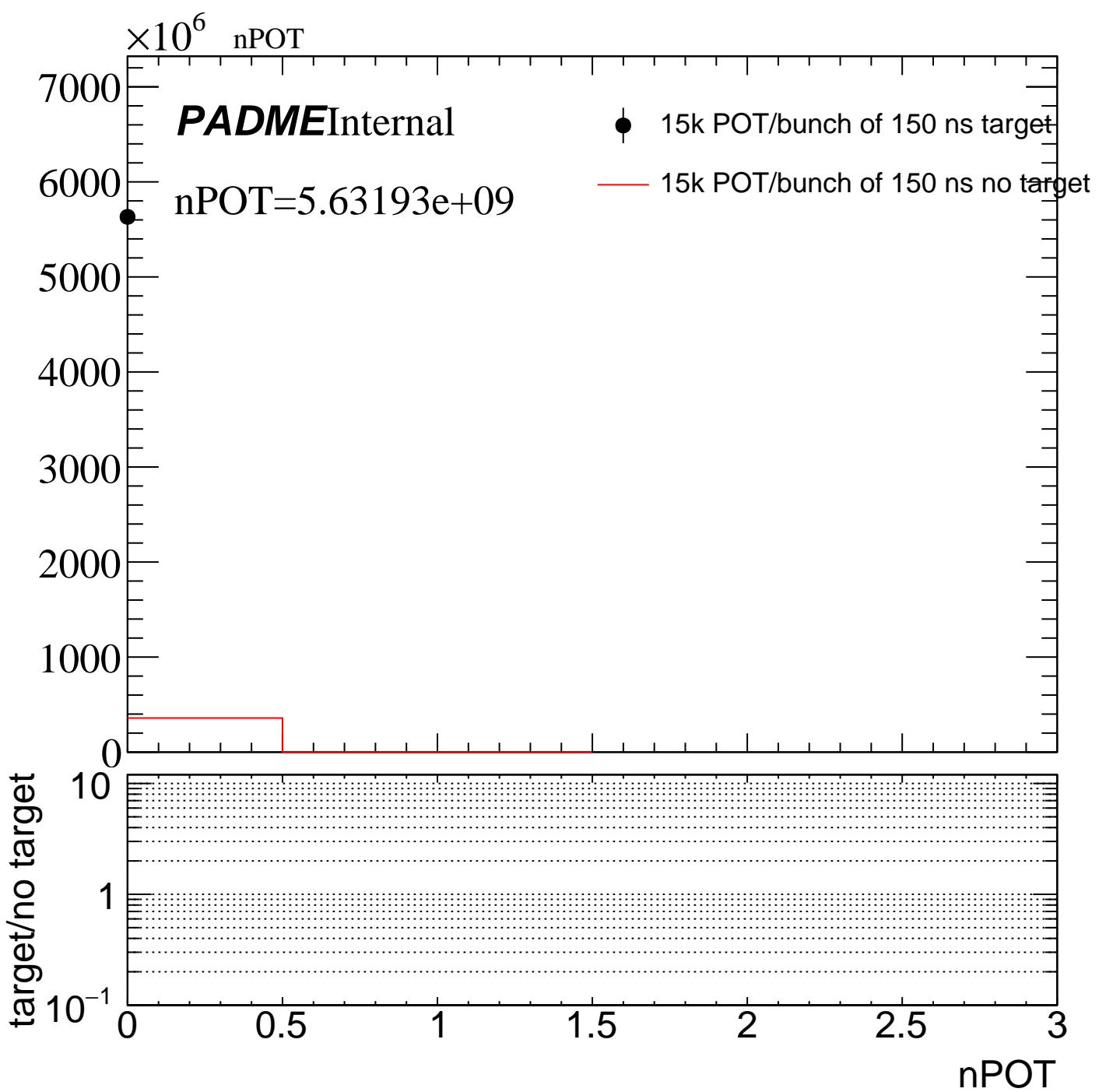
10^3
 E_{cl} [MeV]

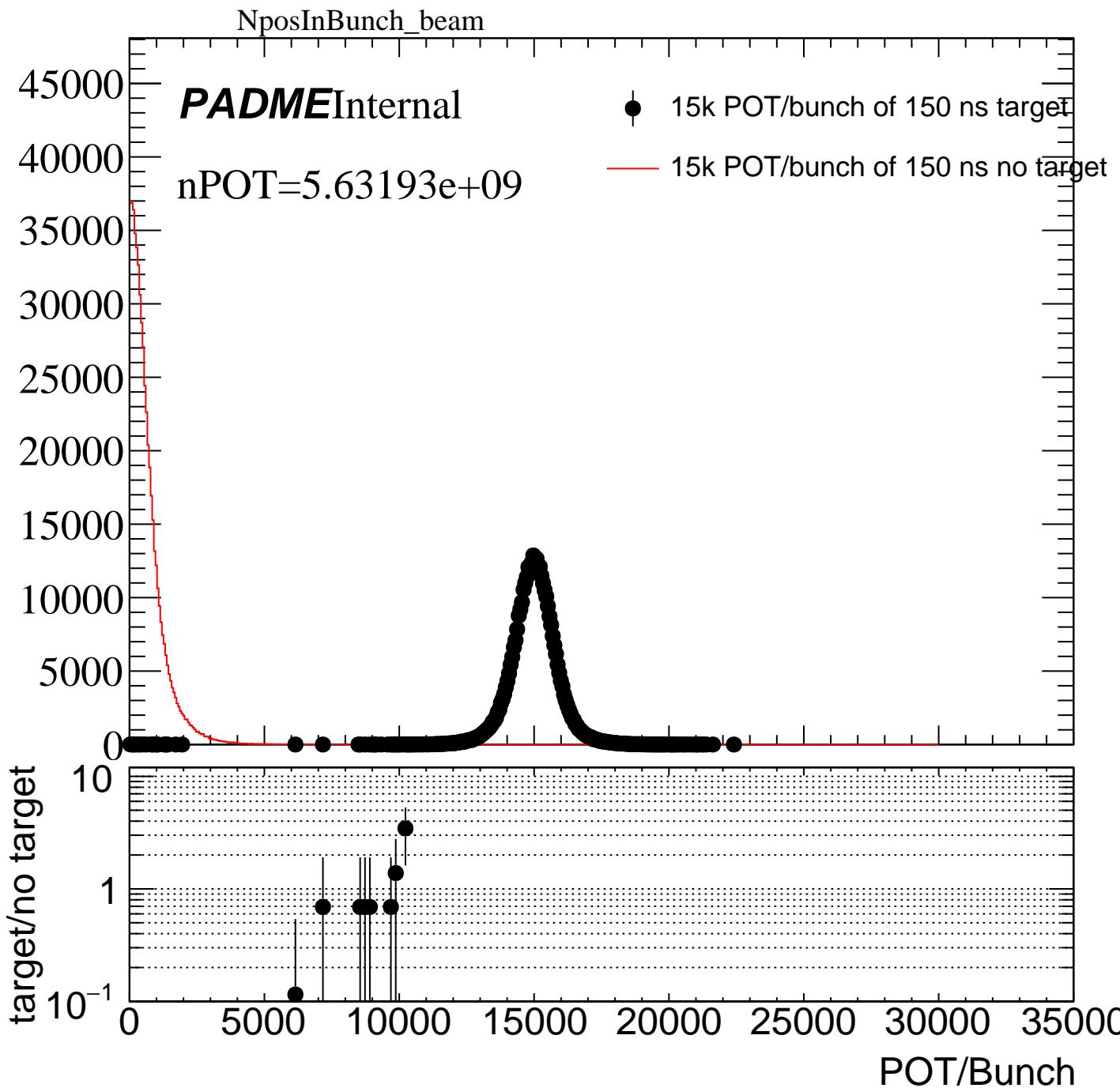




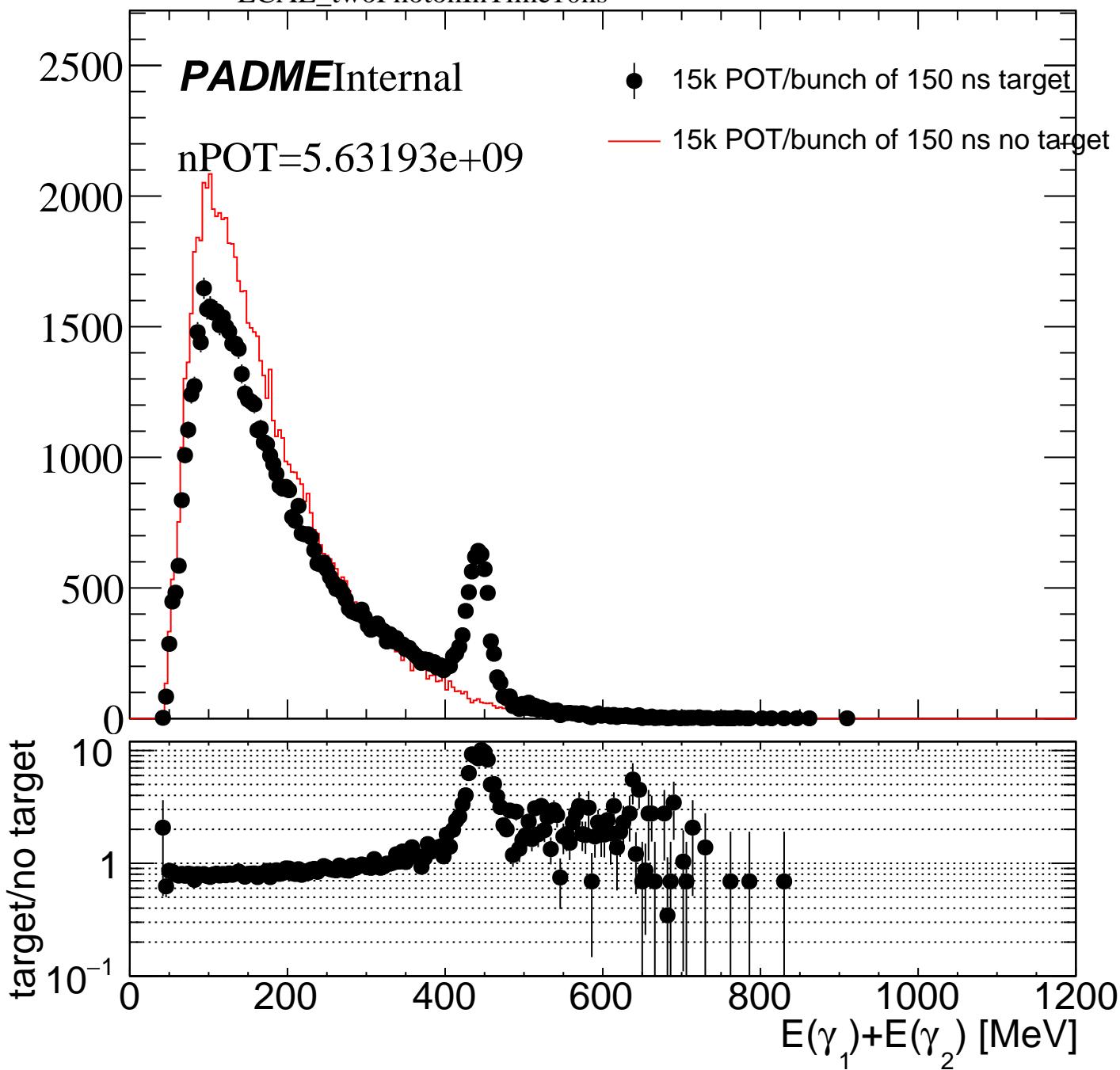




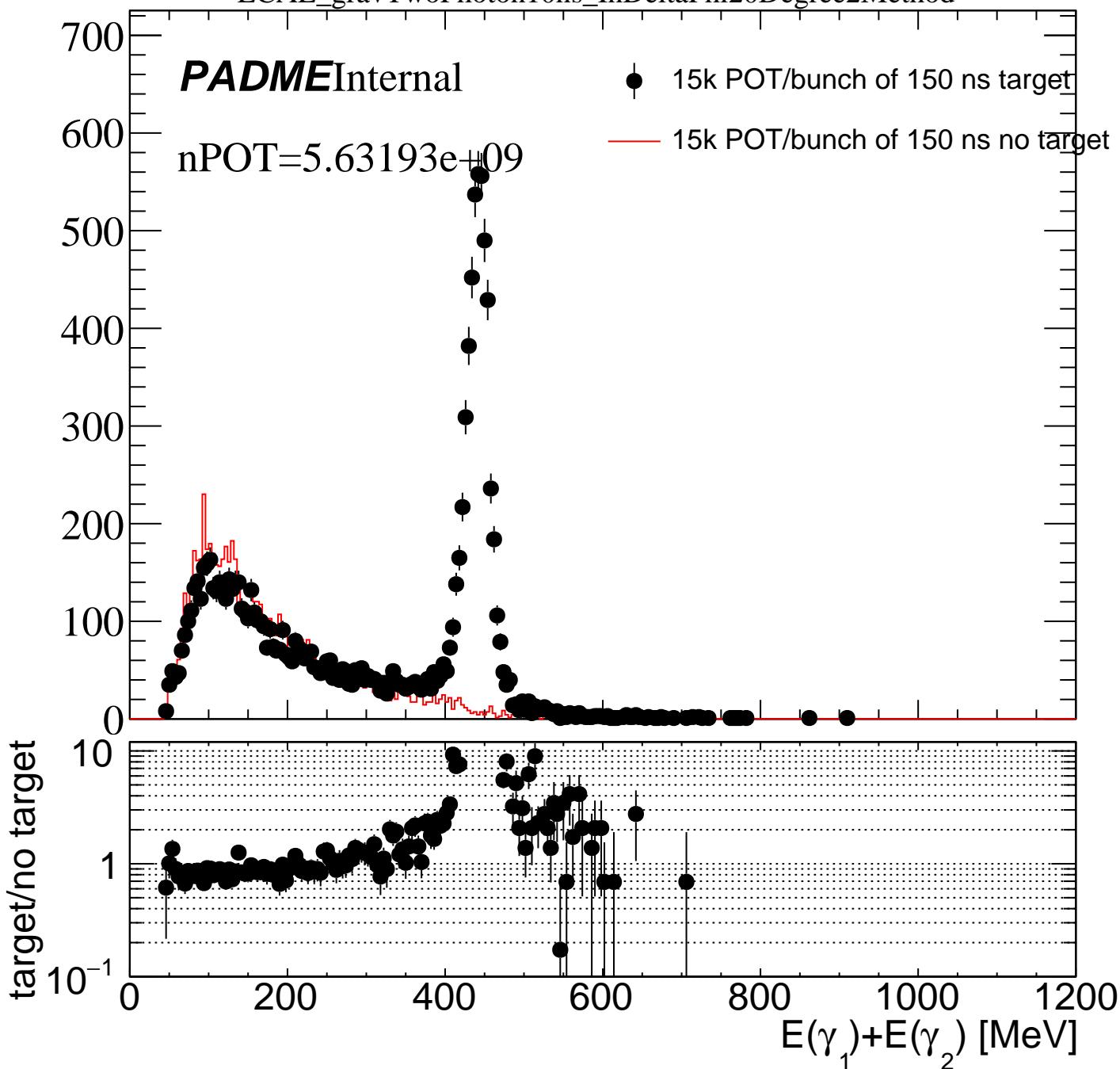


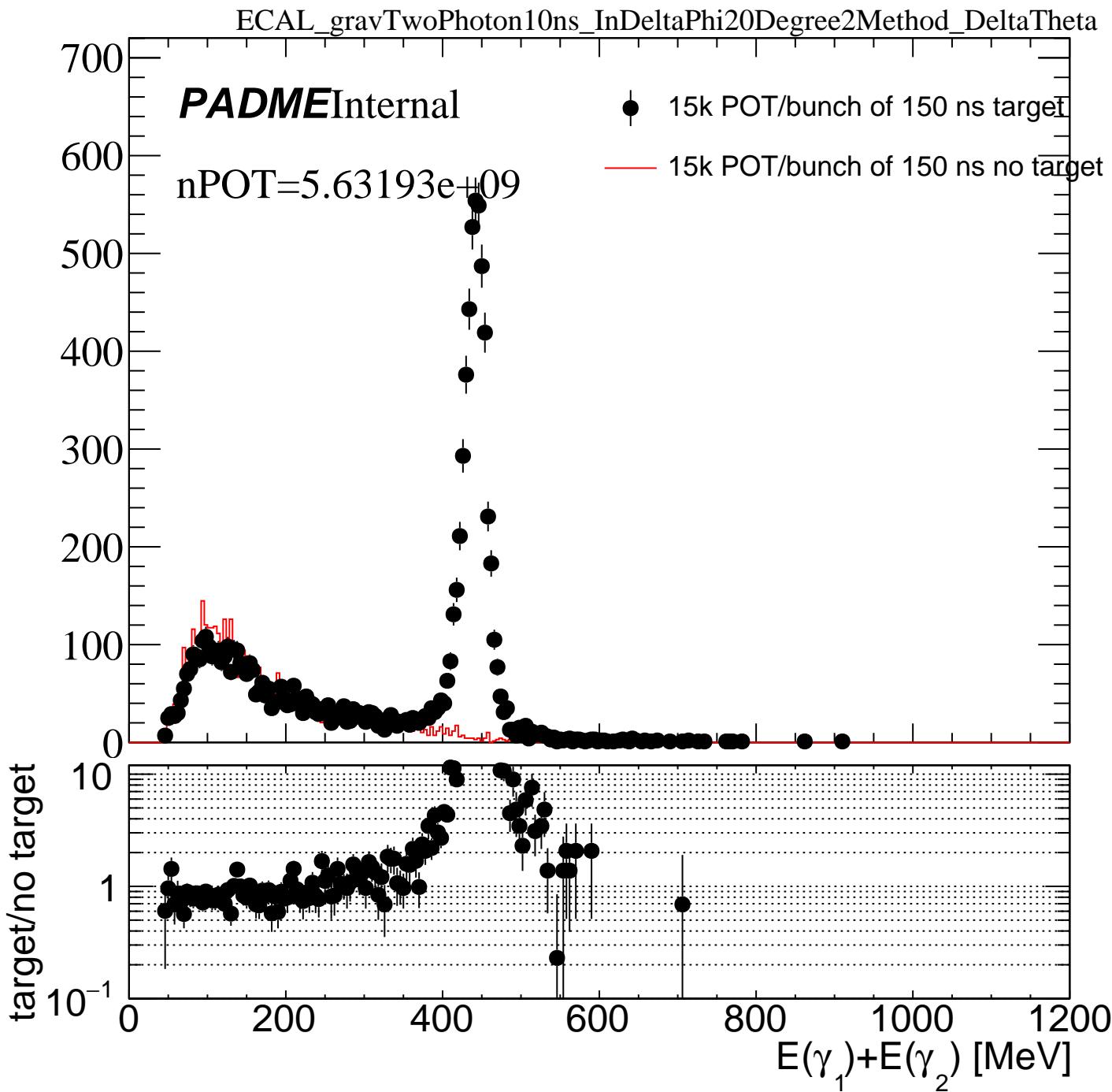


ECAL_twoPhotonInTime10ns

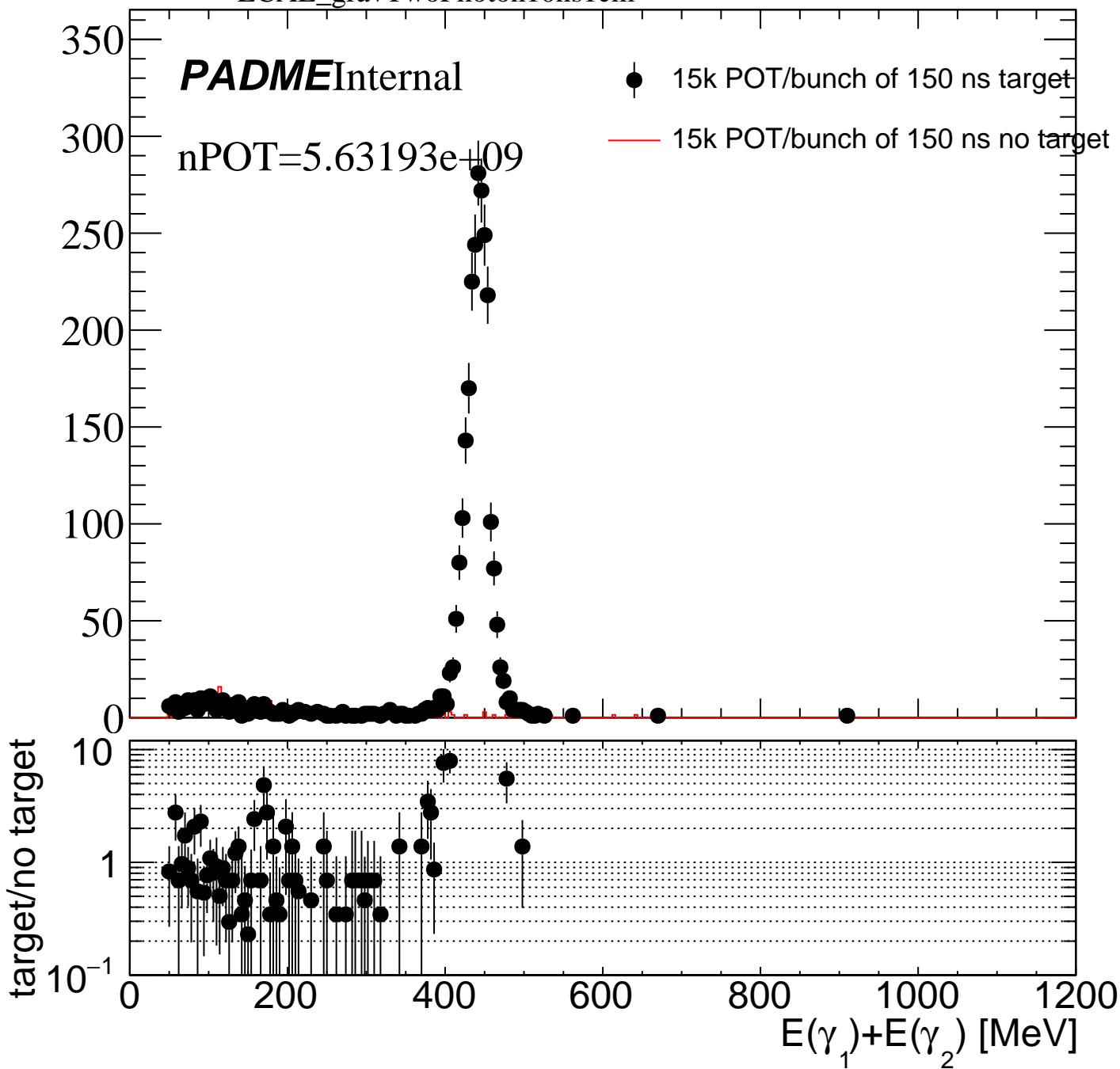


ECAL_gravTwoPhoton10ns_InDeltaPhi20Degree2Method

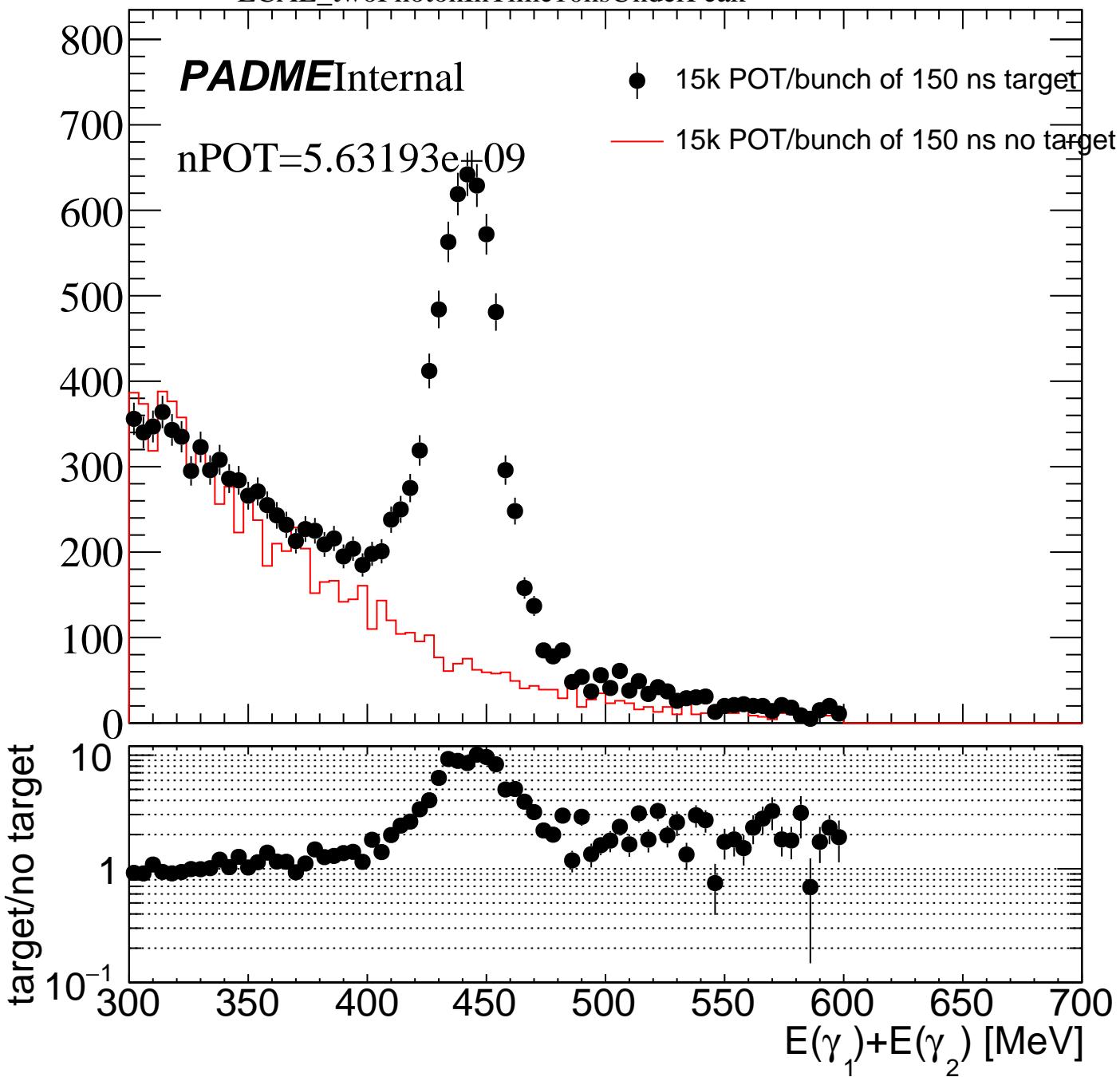




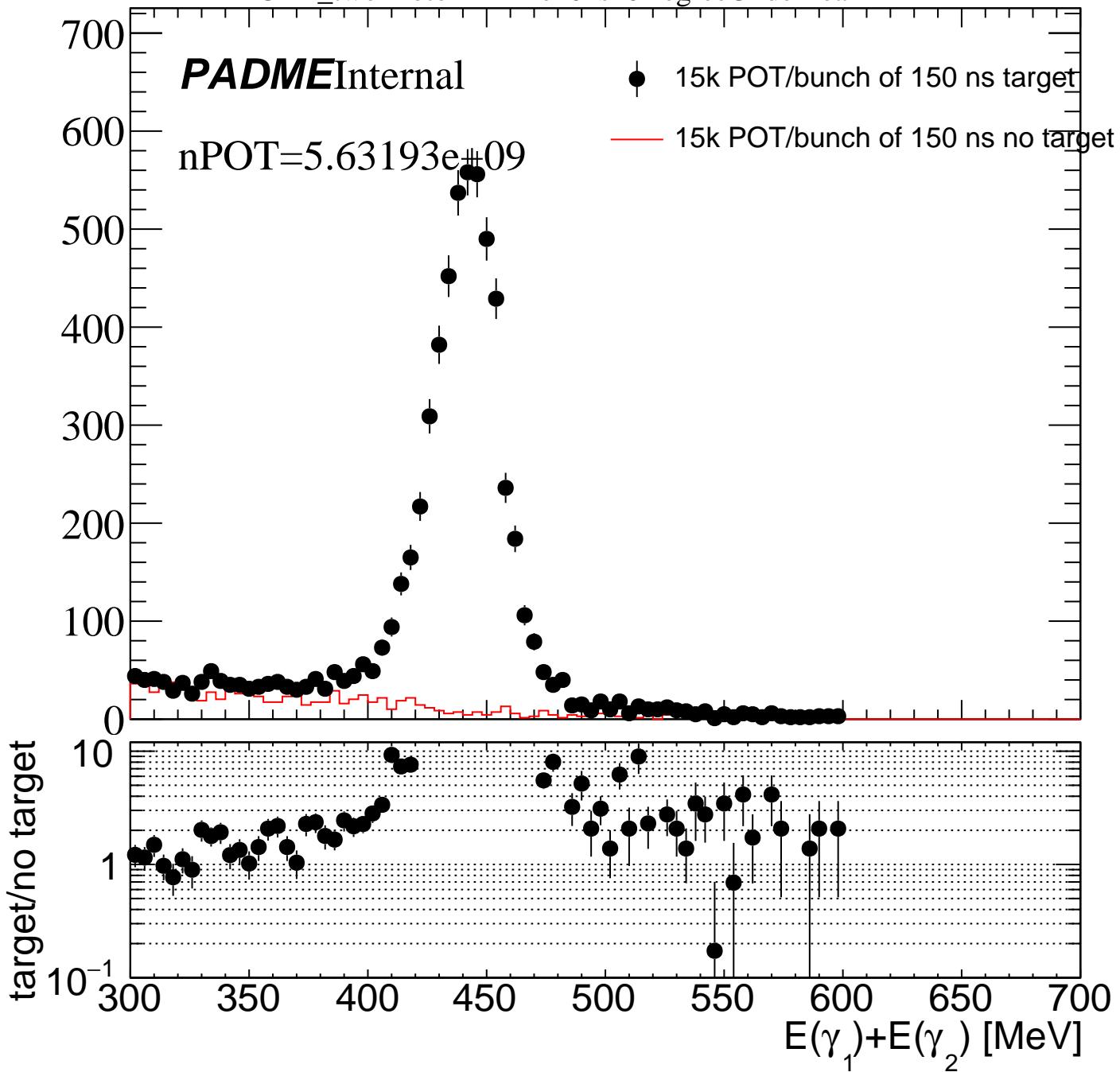
ECAL_gravTwoPhoton10ns1cm



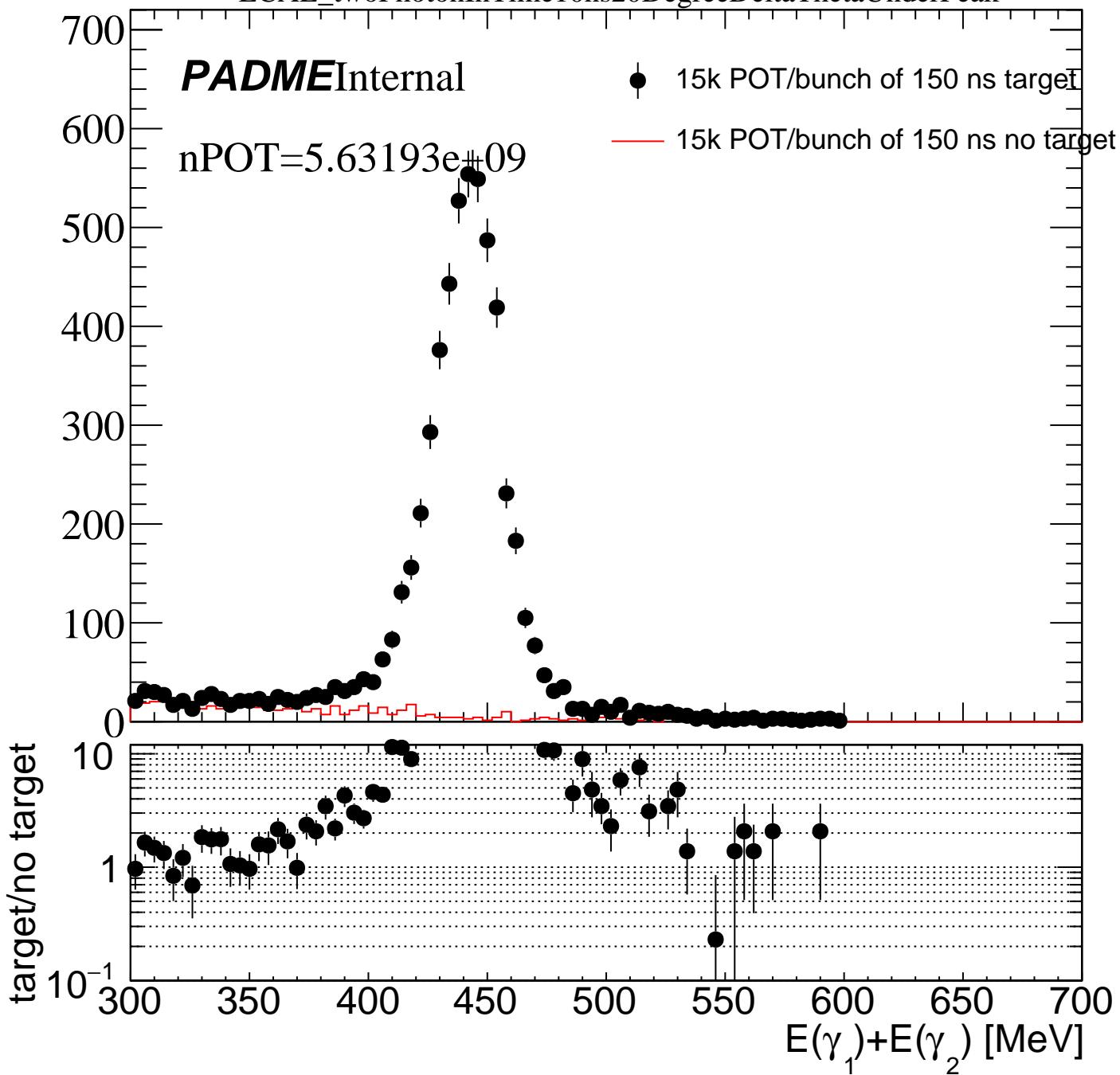
ECAL_twoPhotonInTime10nsUnderPeak



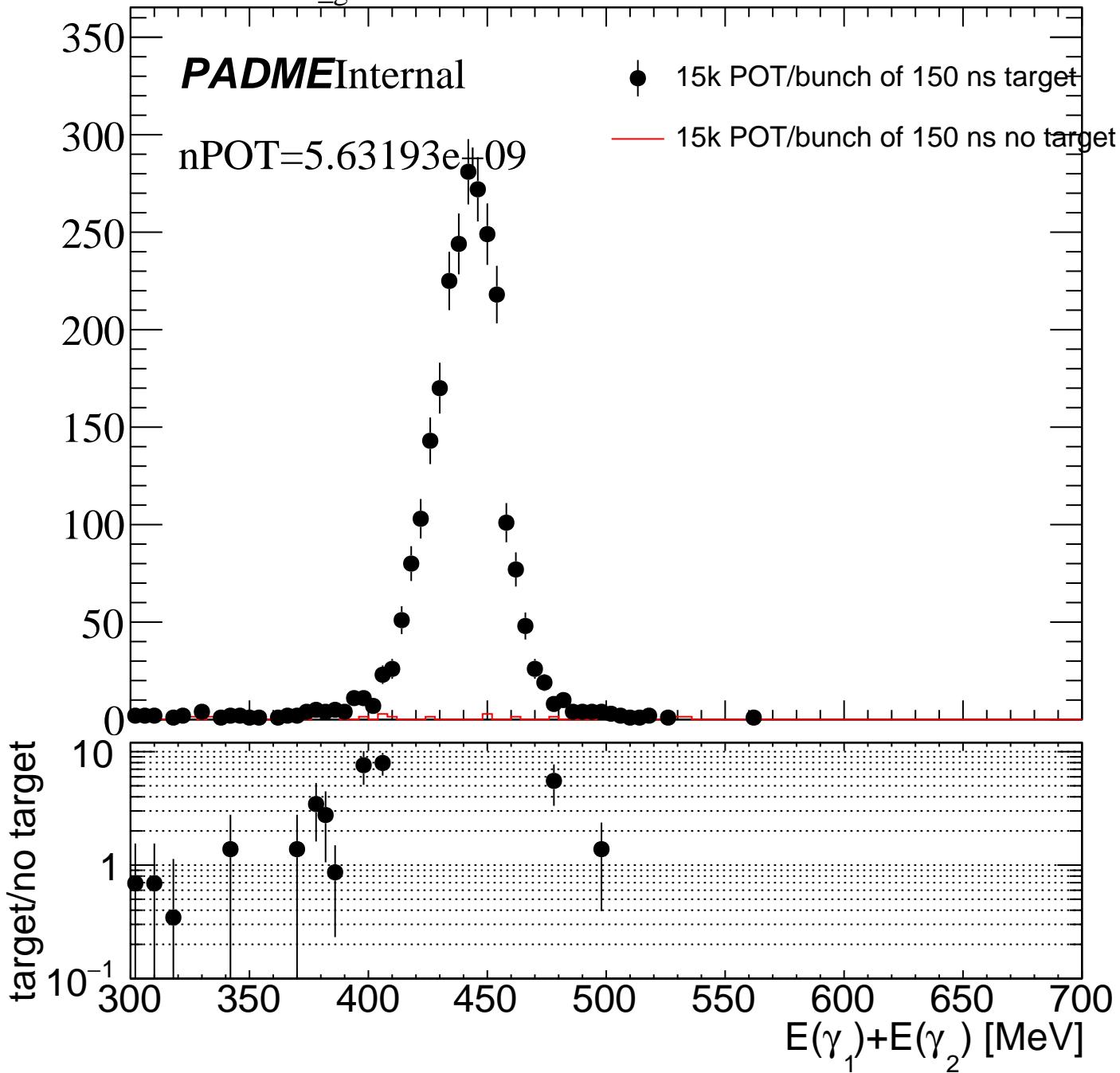
ECAL_twoPhotonInTime10ns20DegreeUnderPeak



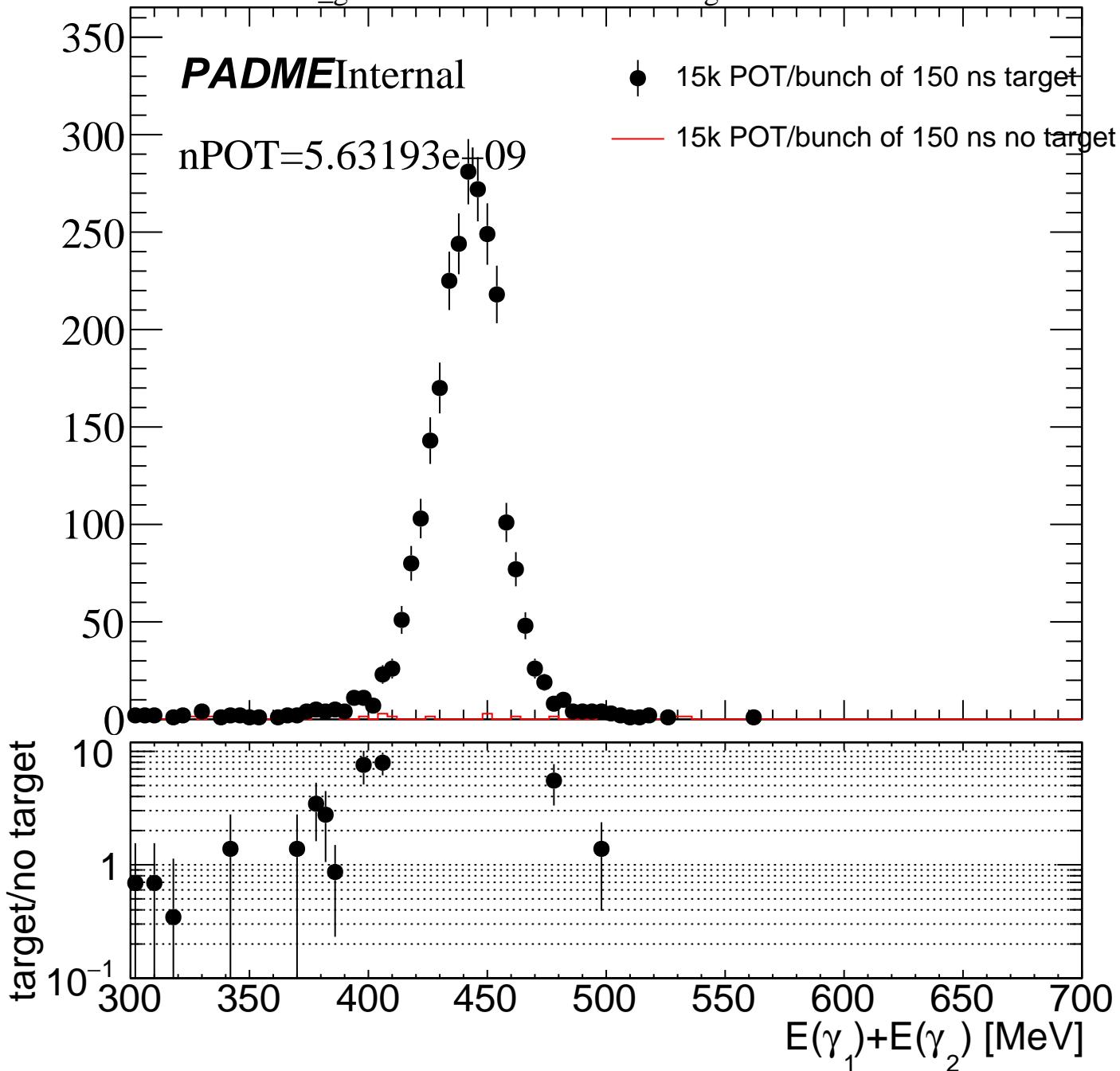
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaUnderPeak



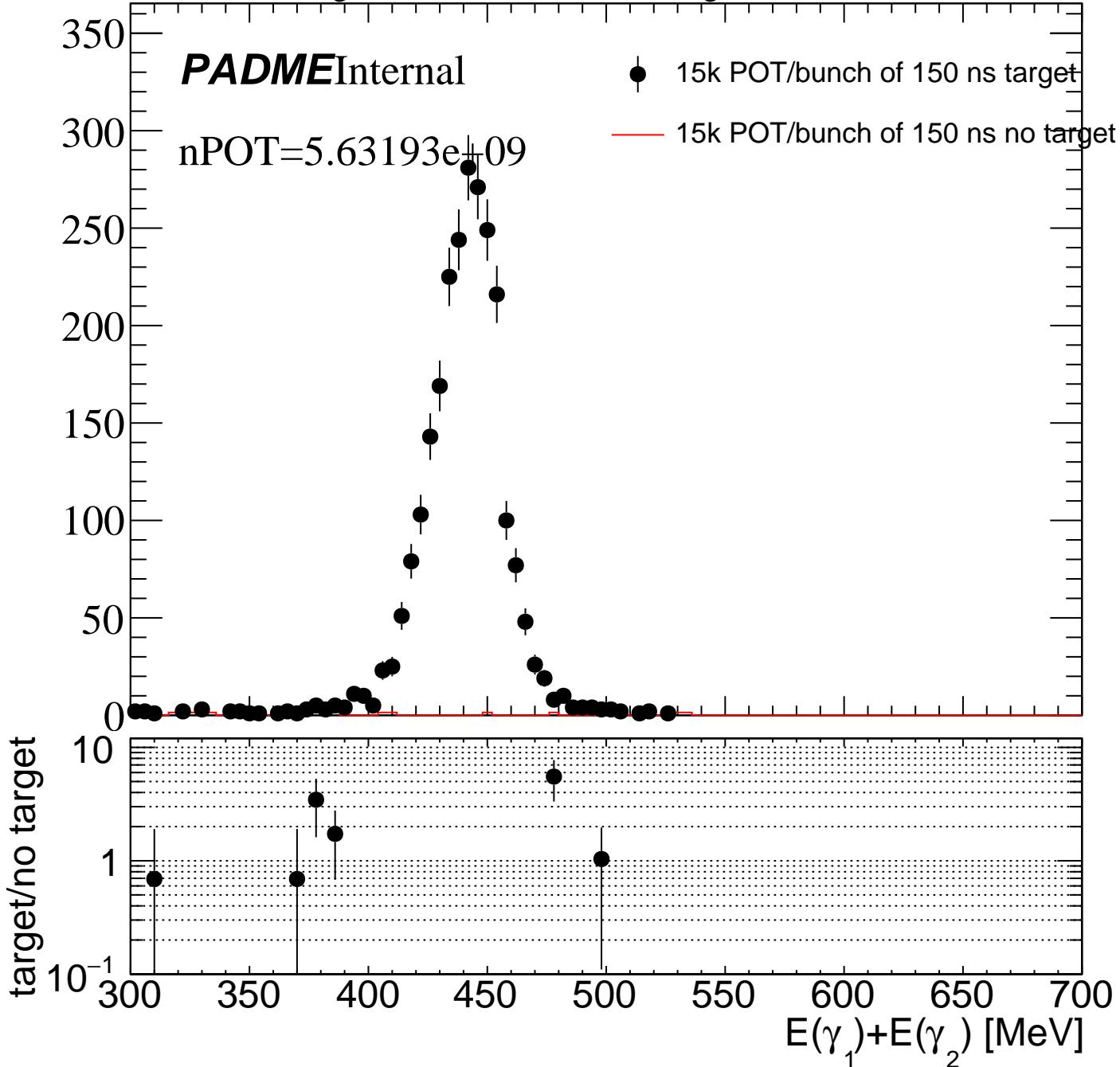
ECAL_gravTwoPhoton10ns1cmUnderPeak



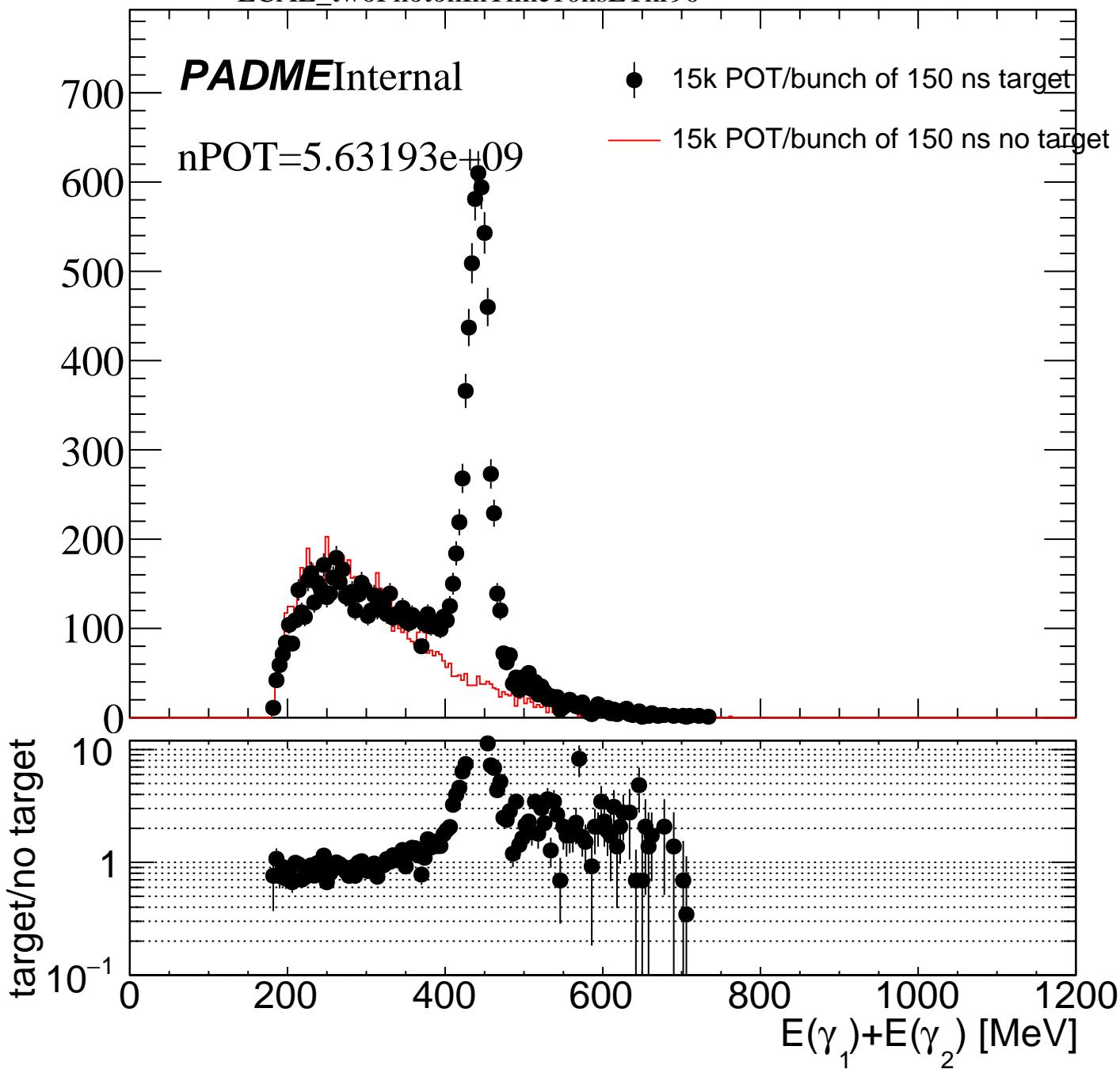
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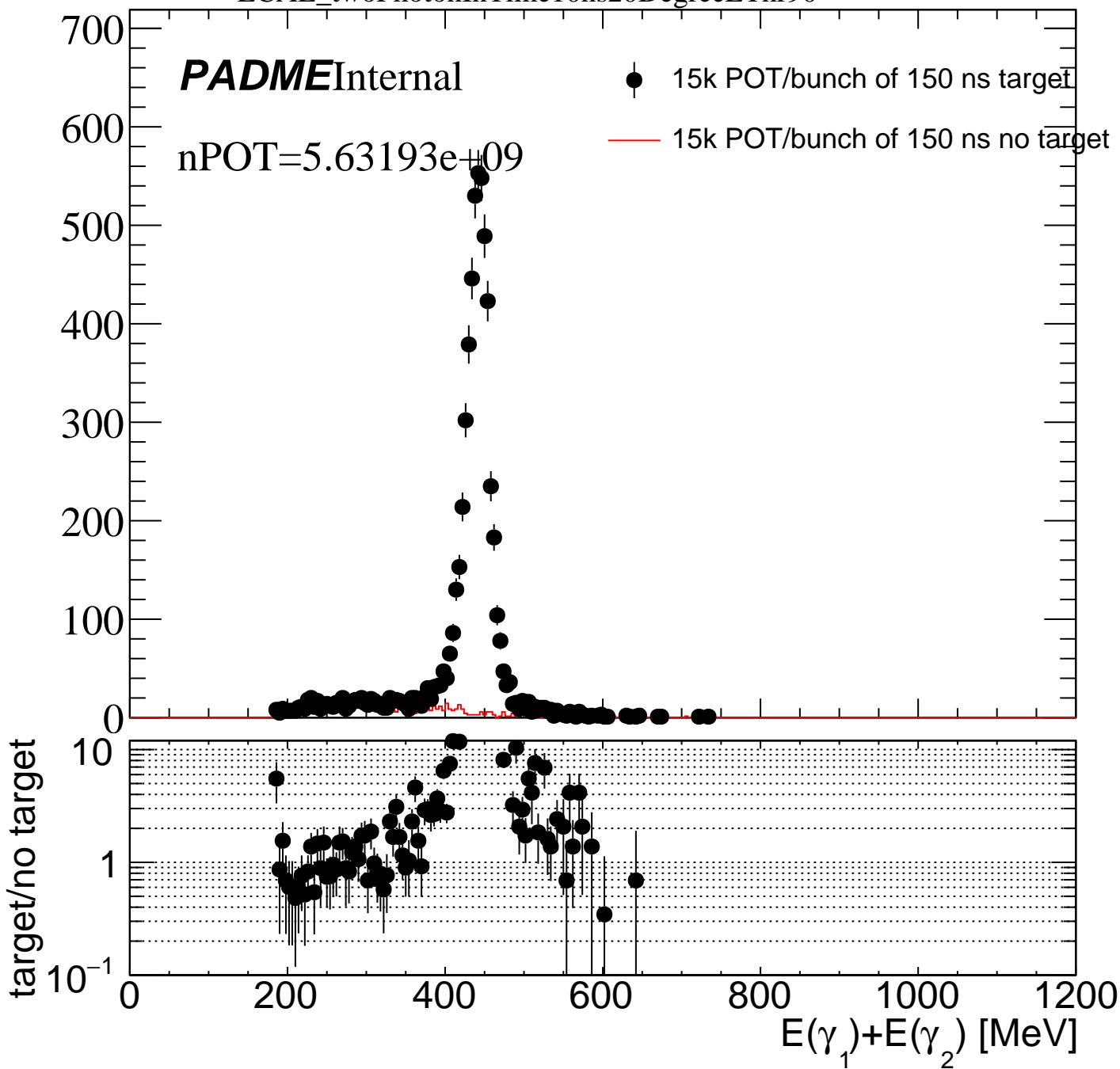
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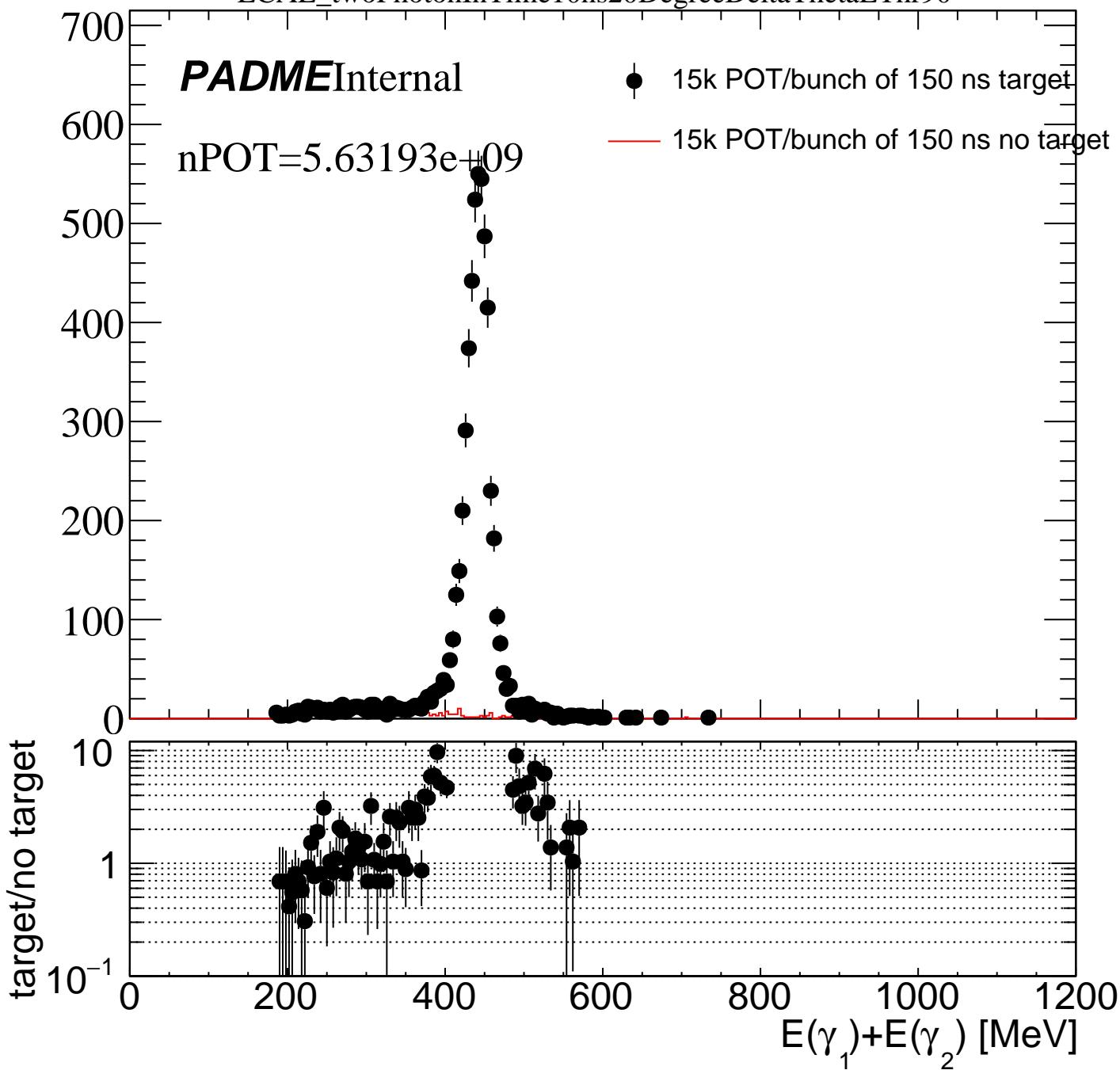
ECAL_twoPhotonInTime10nsEThr90



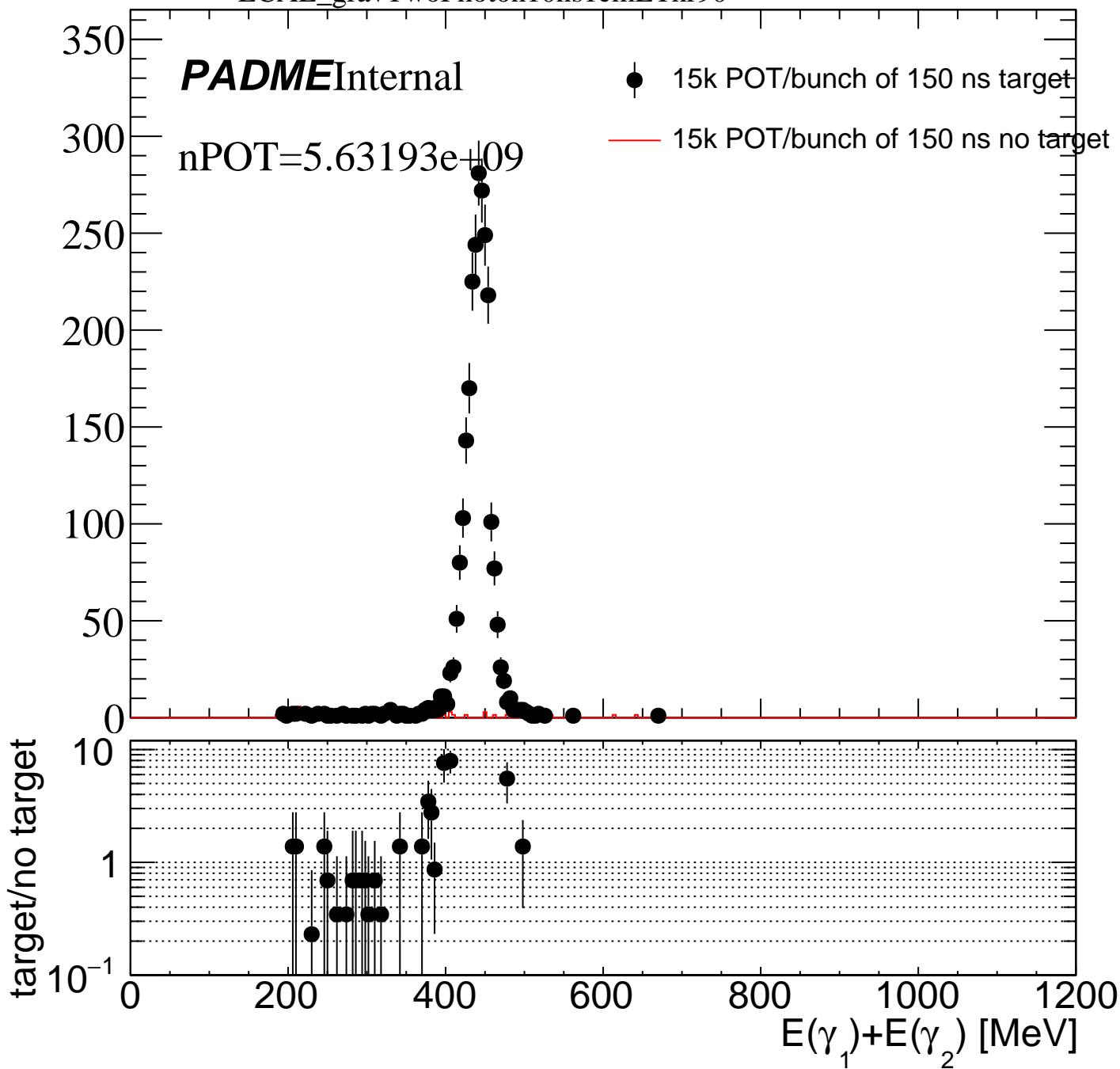
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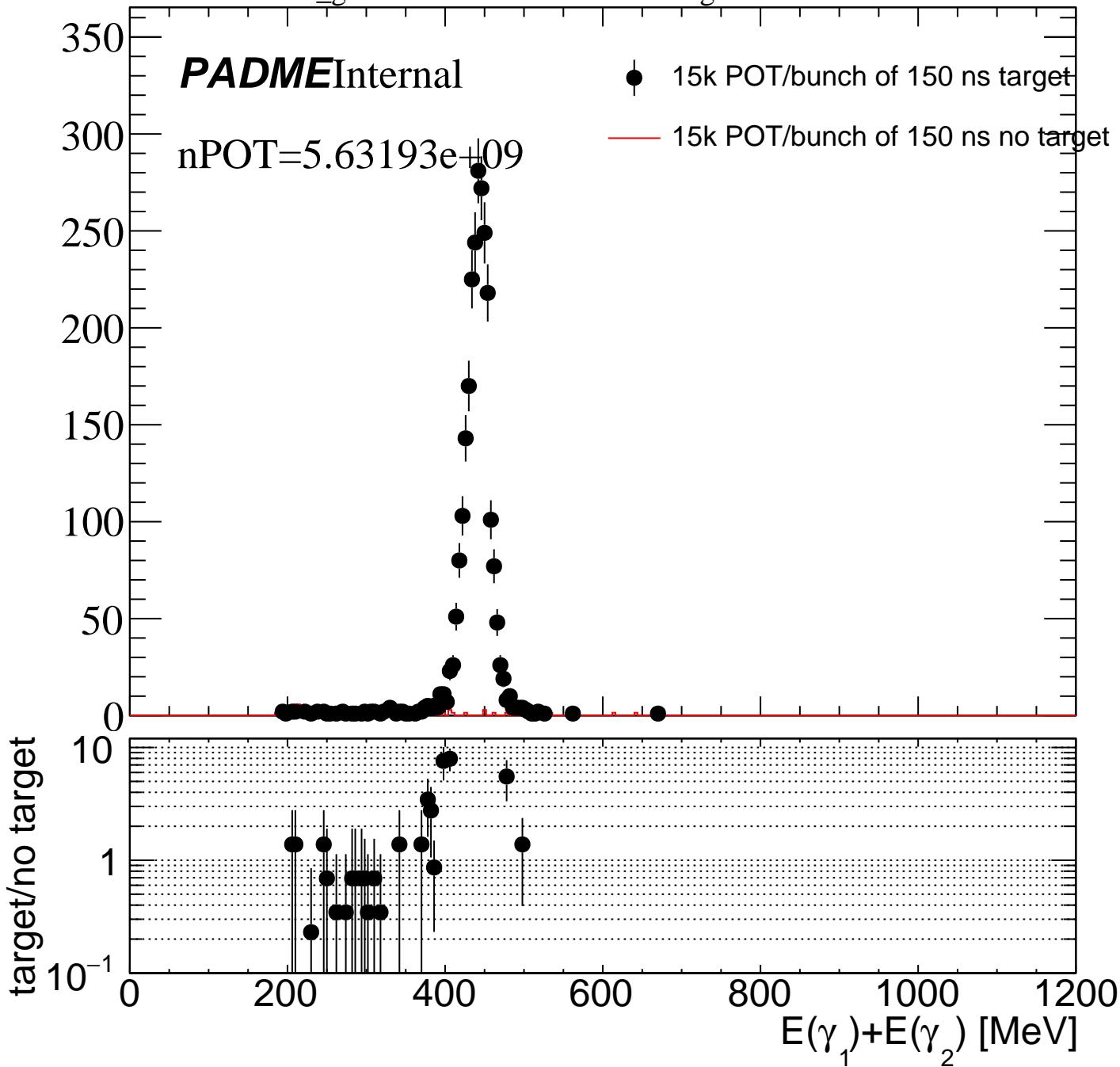
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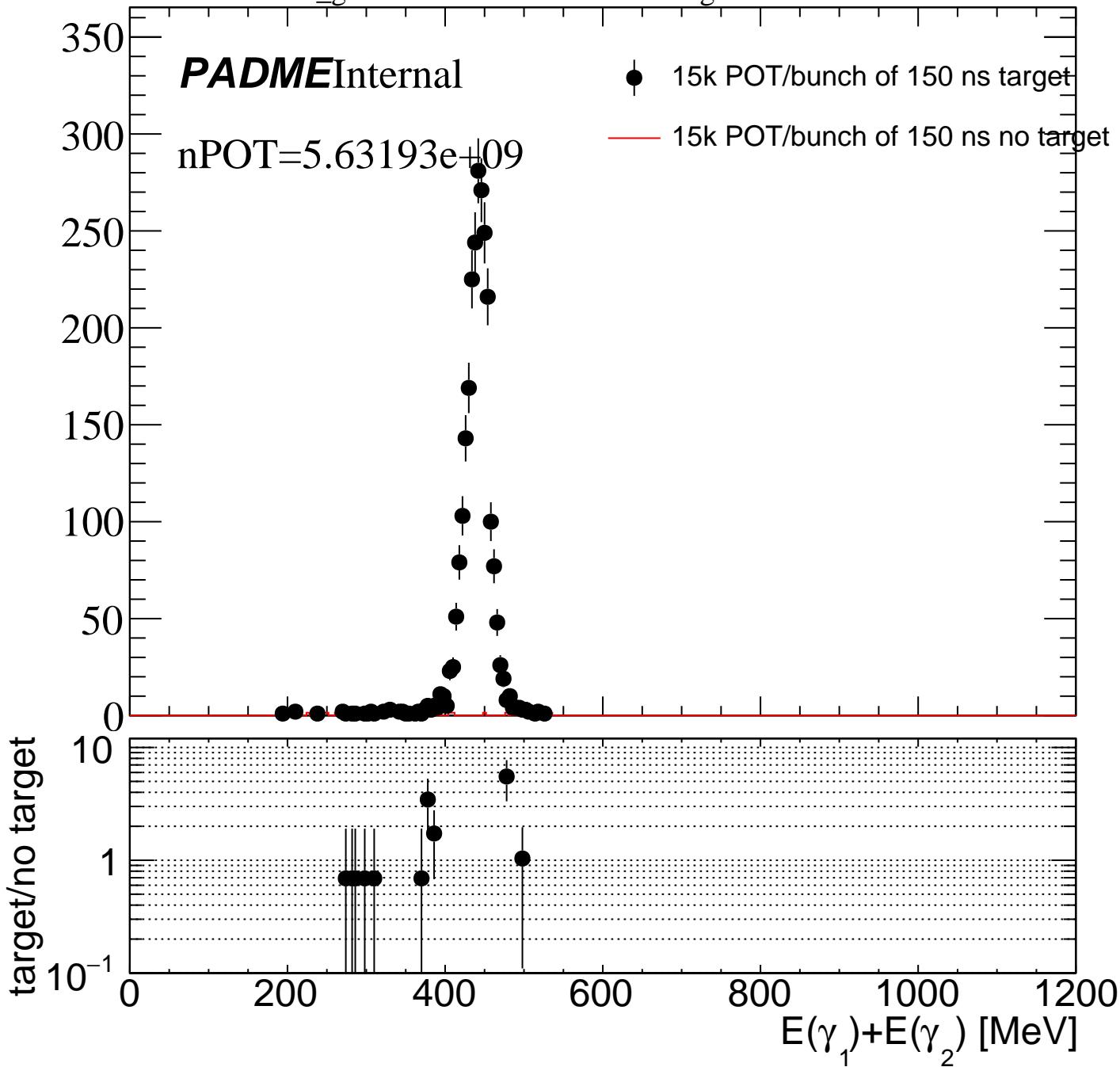
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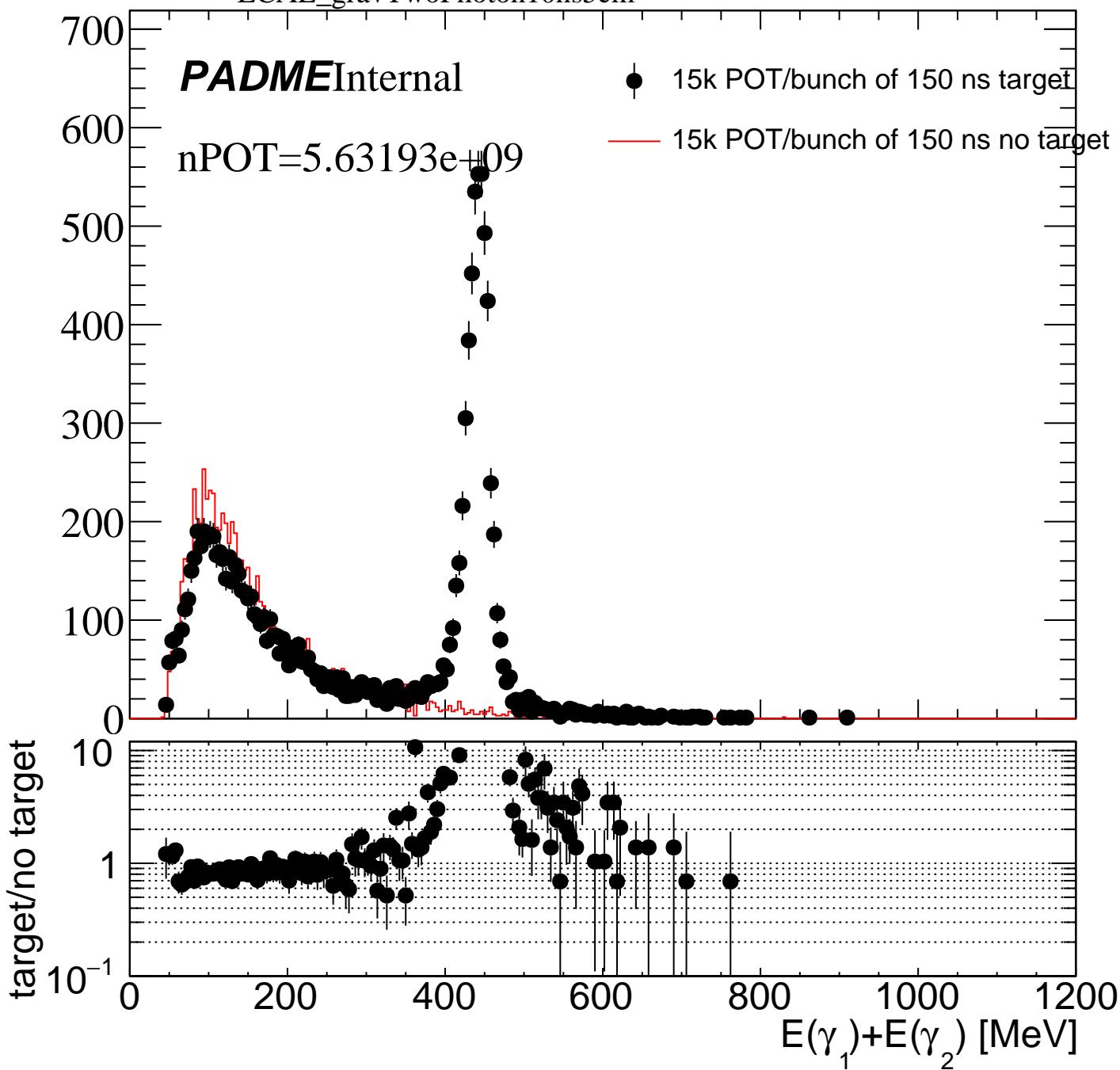
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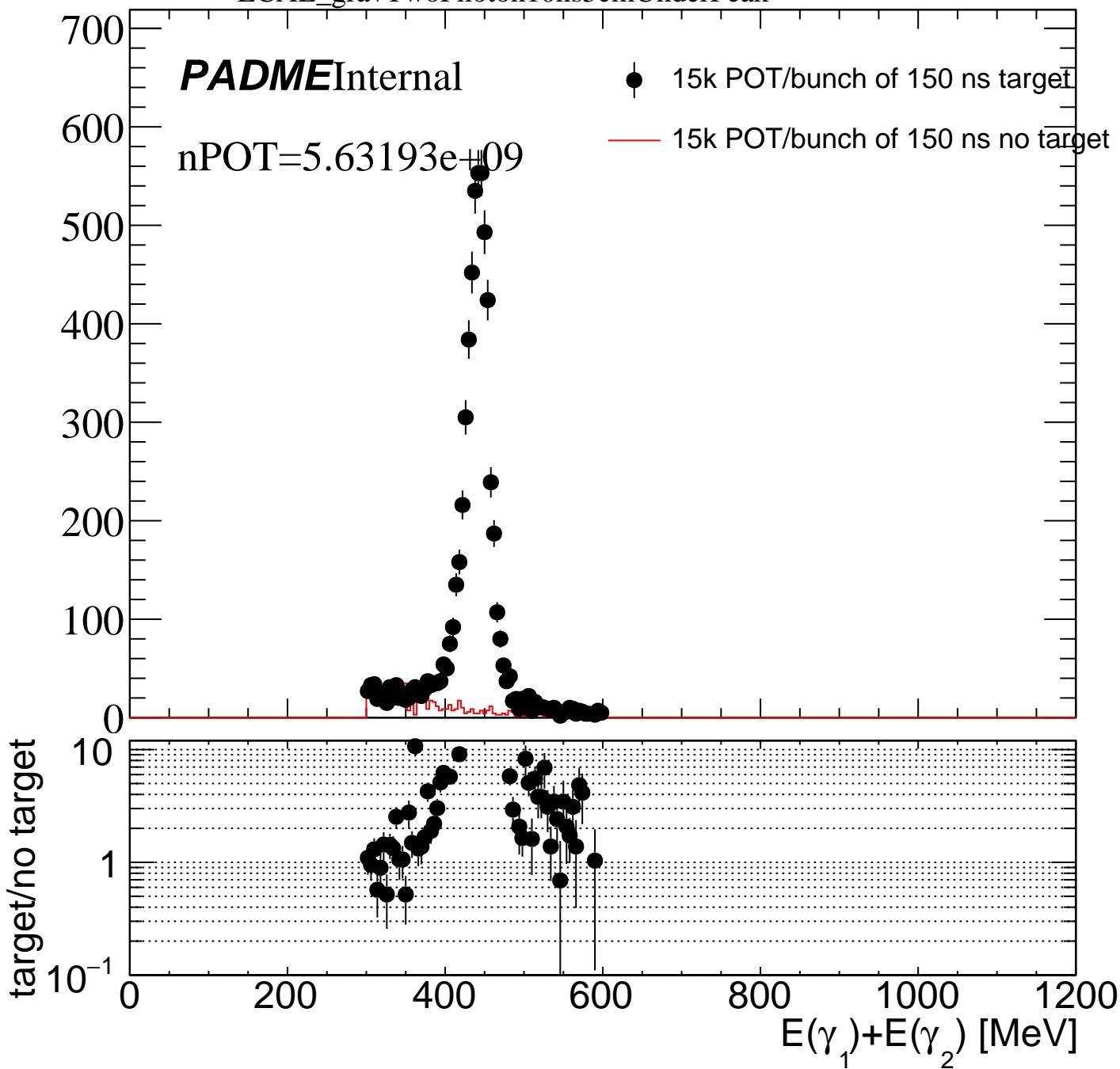
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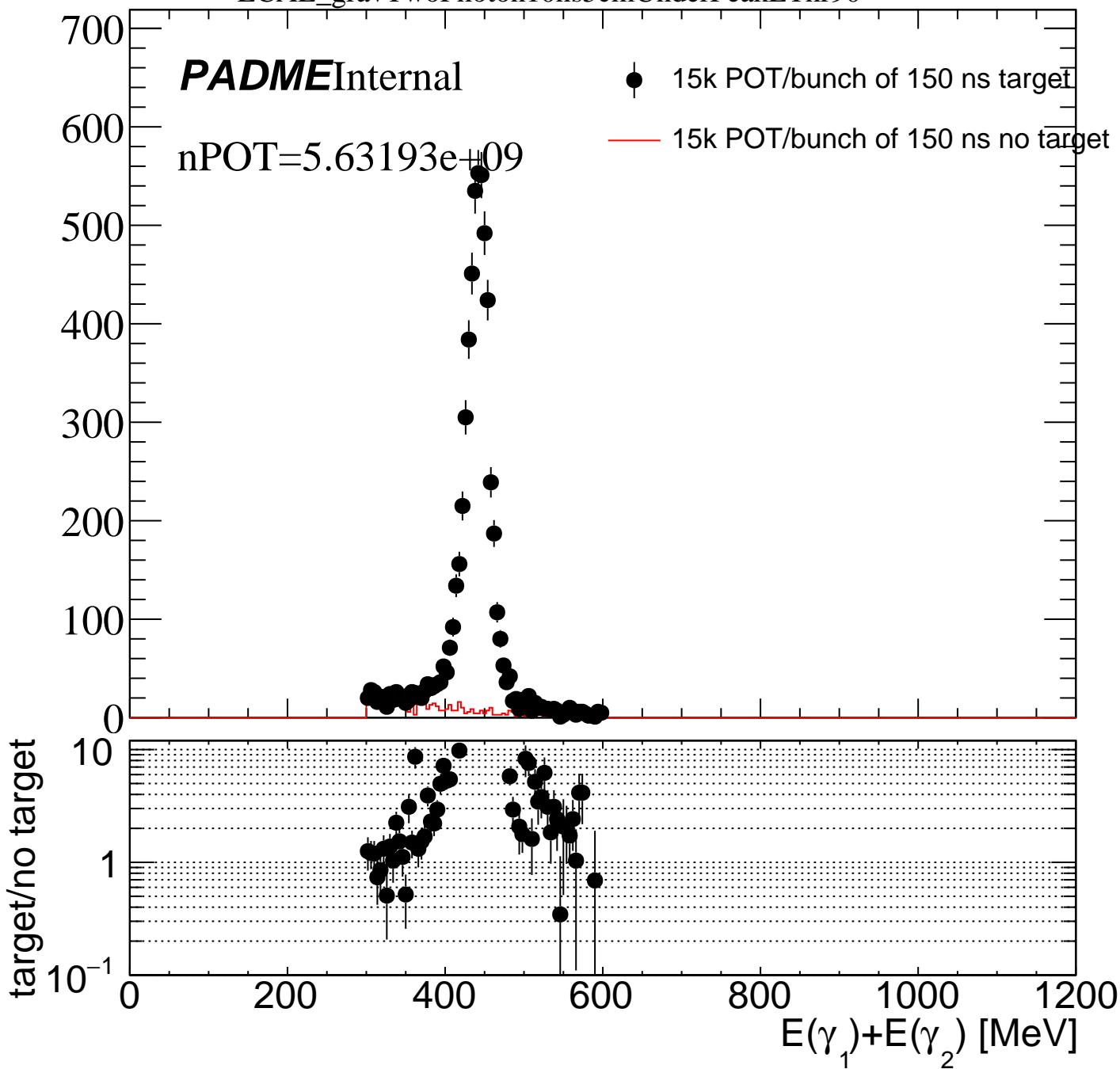
ECAL_gravTwoPhoton10ns5cm



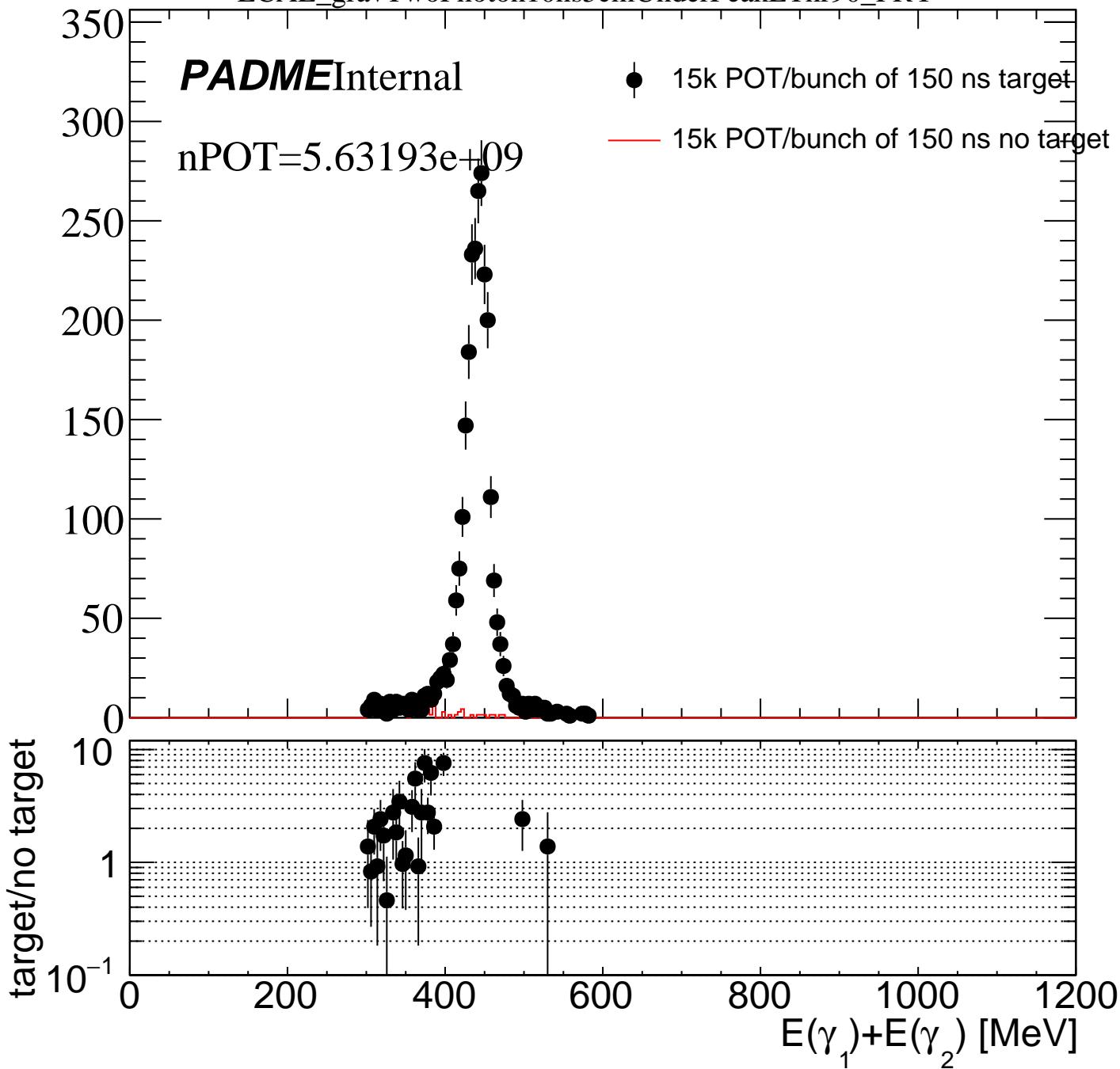
ECAL_gravTwoPhoton10ns5cmUnderPeak



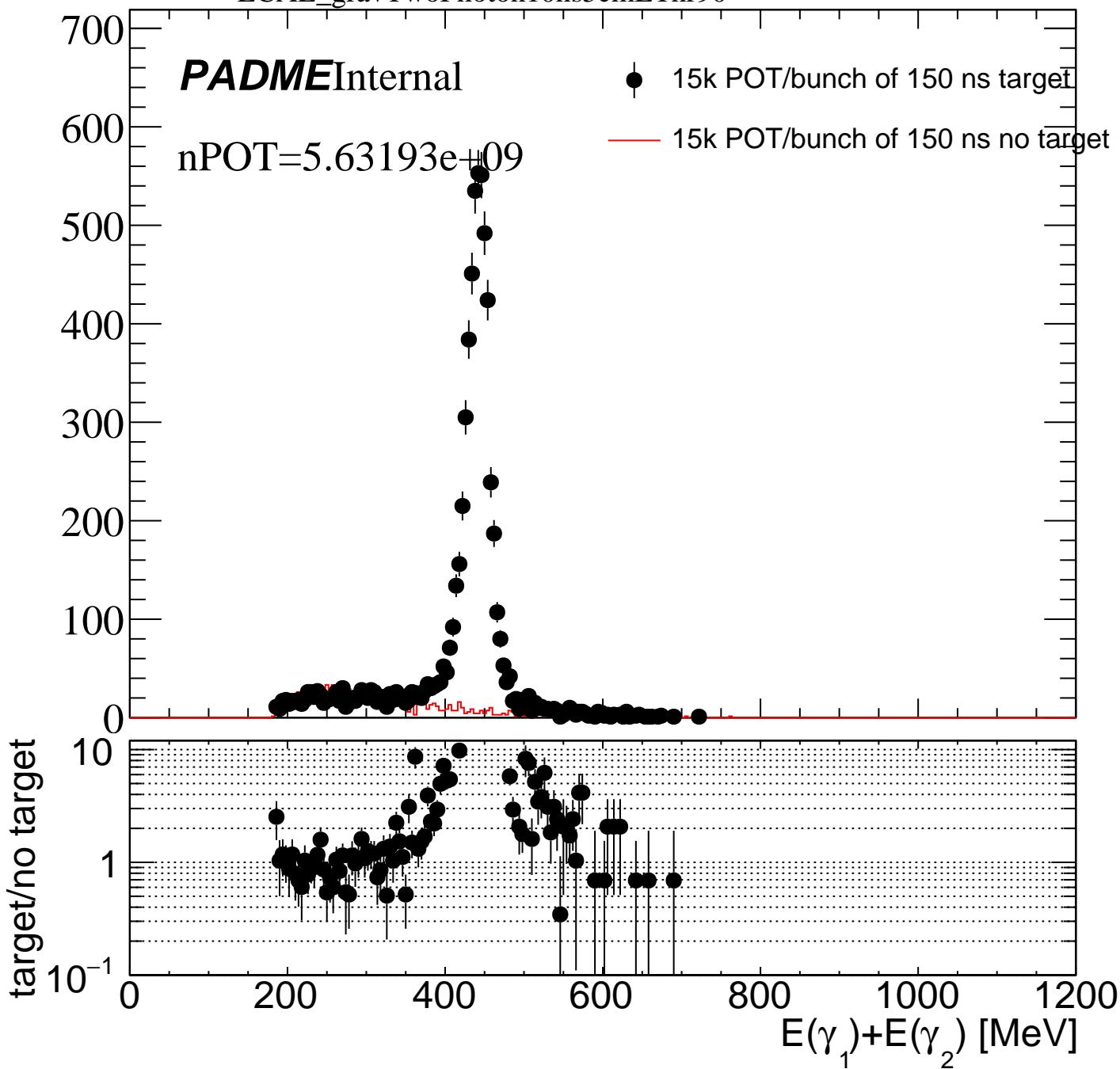
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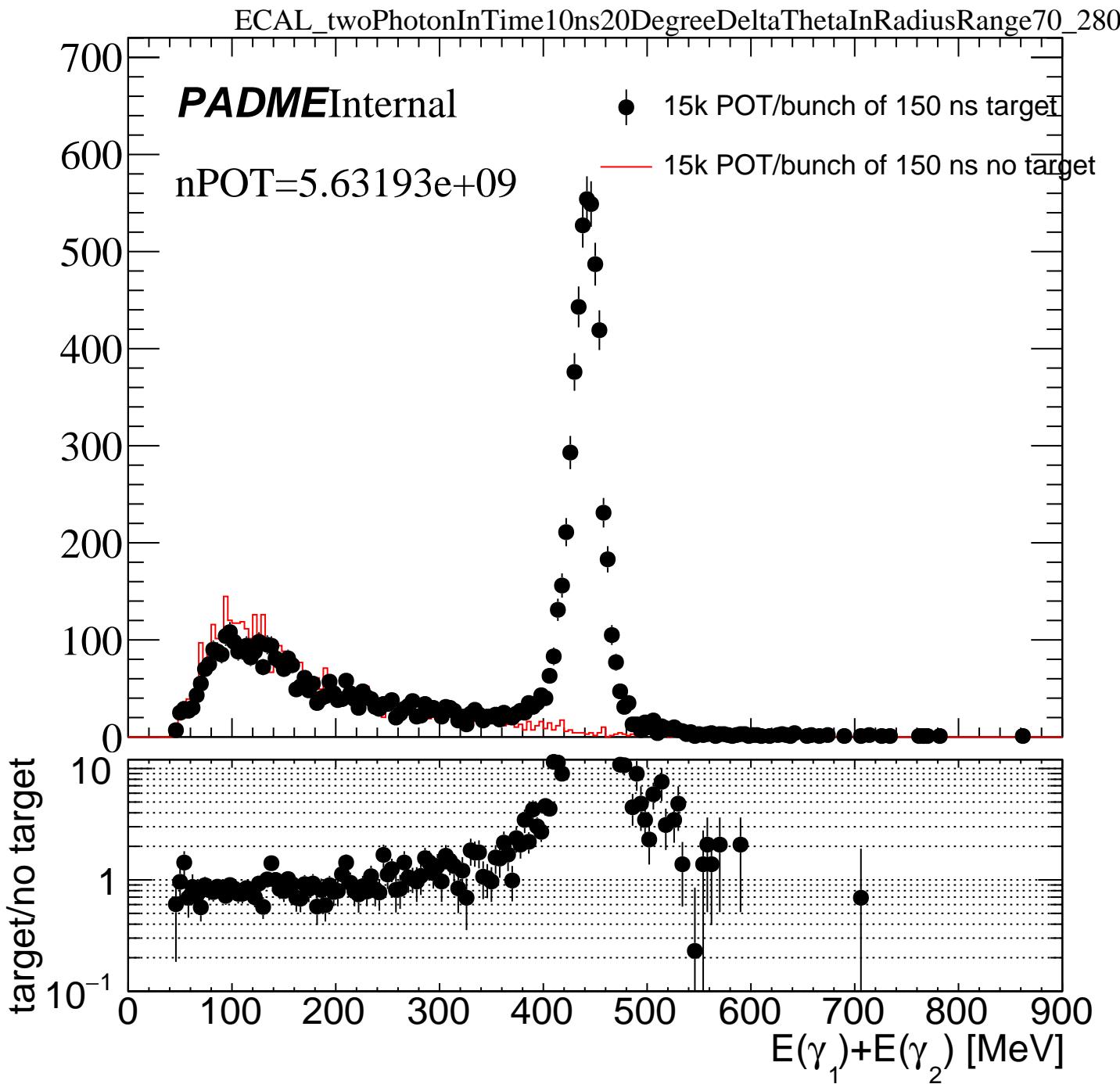


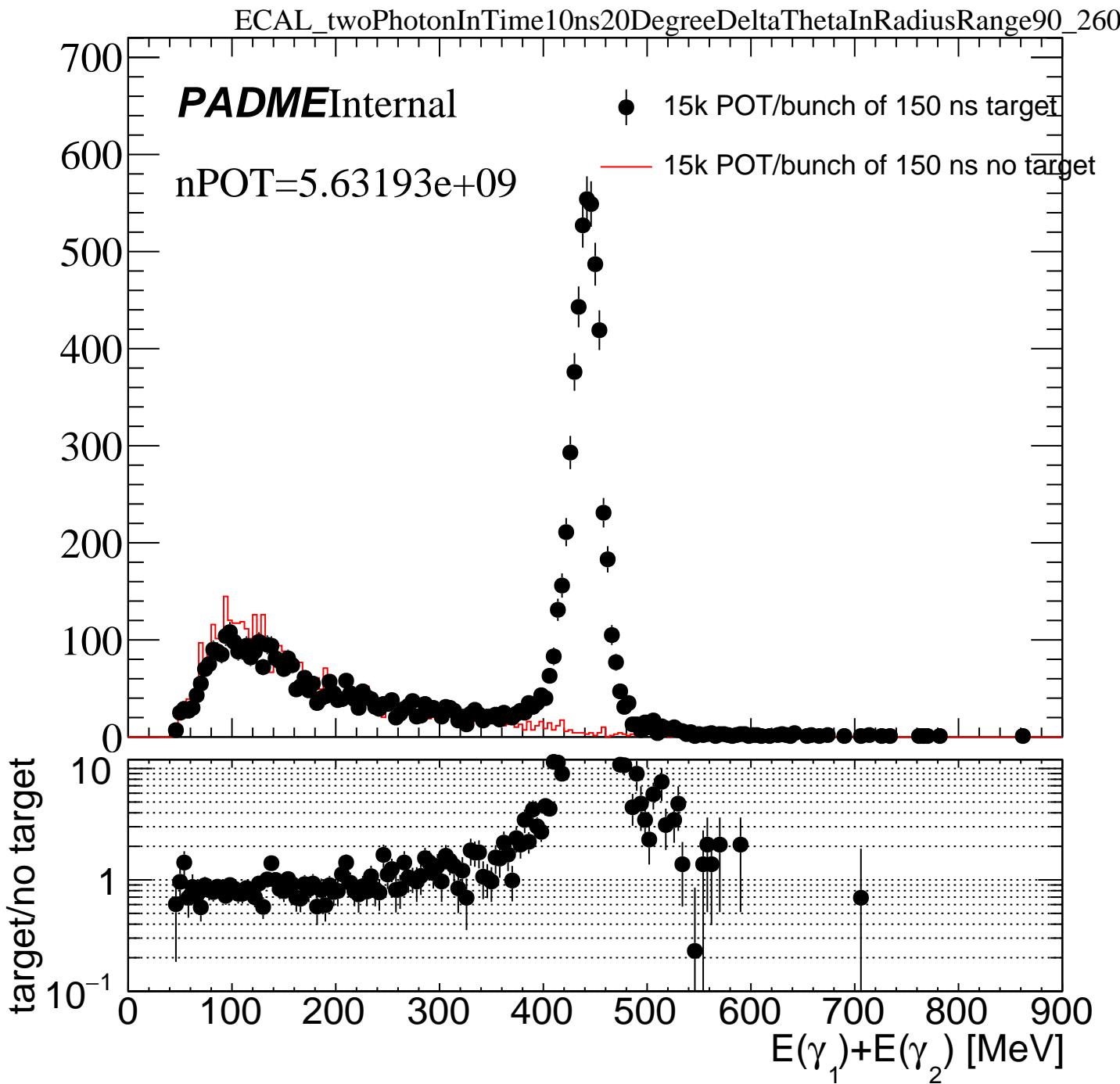
ECAL_gravTwoPhoton10ns5cmUnderPeakEThr90_FRY

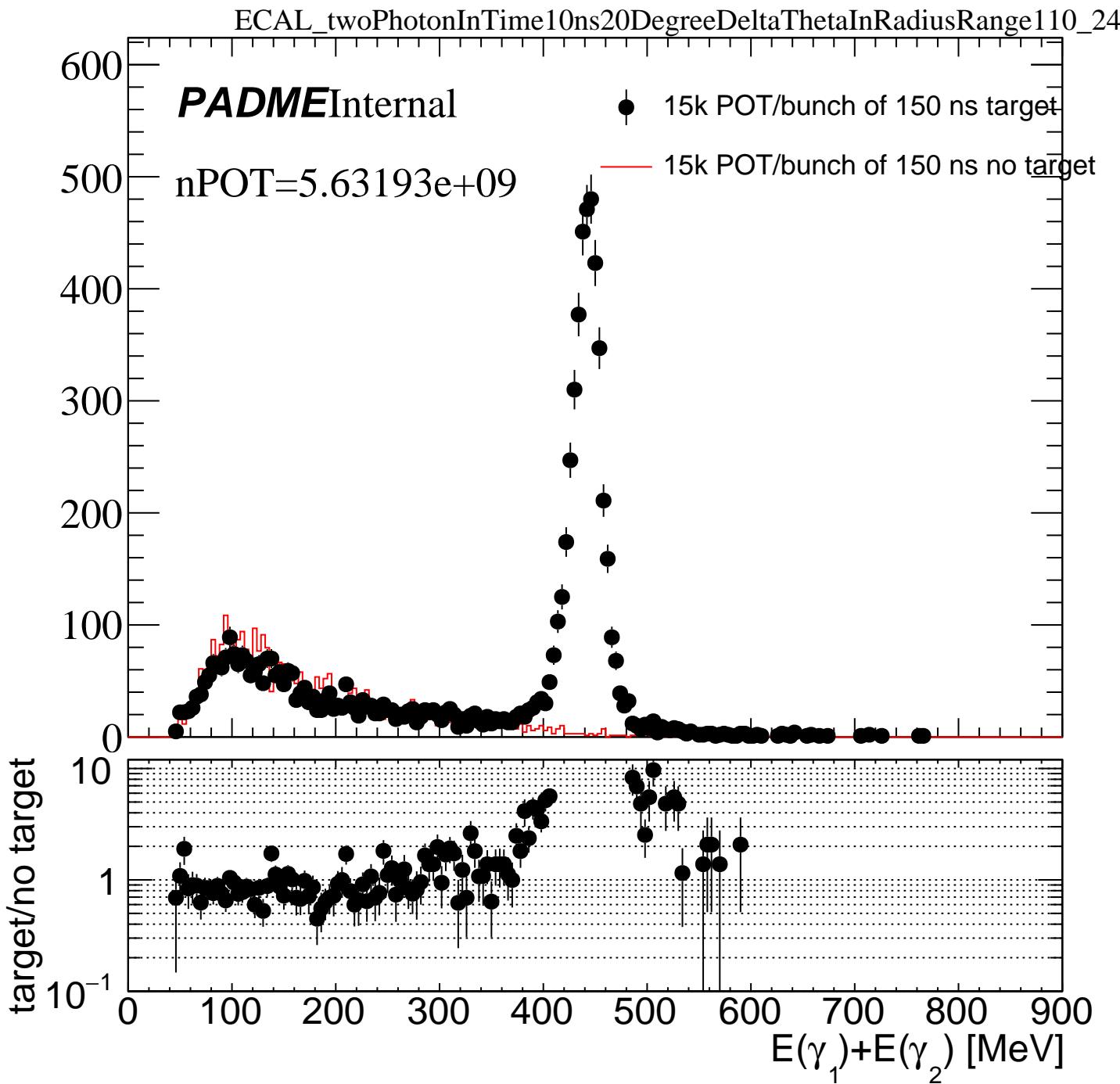


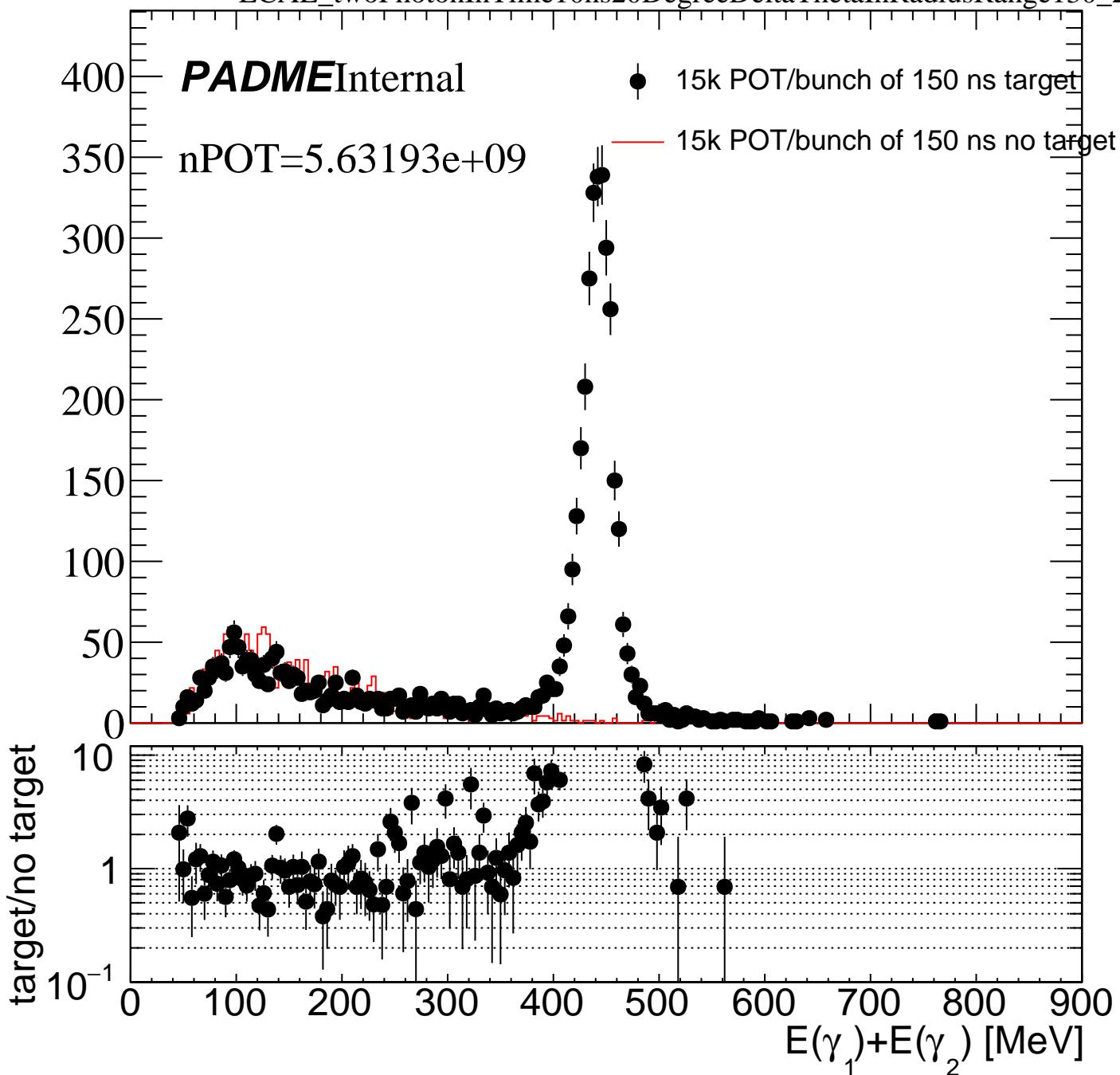
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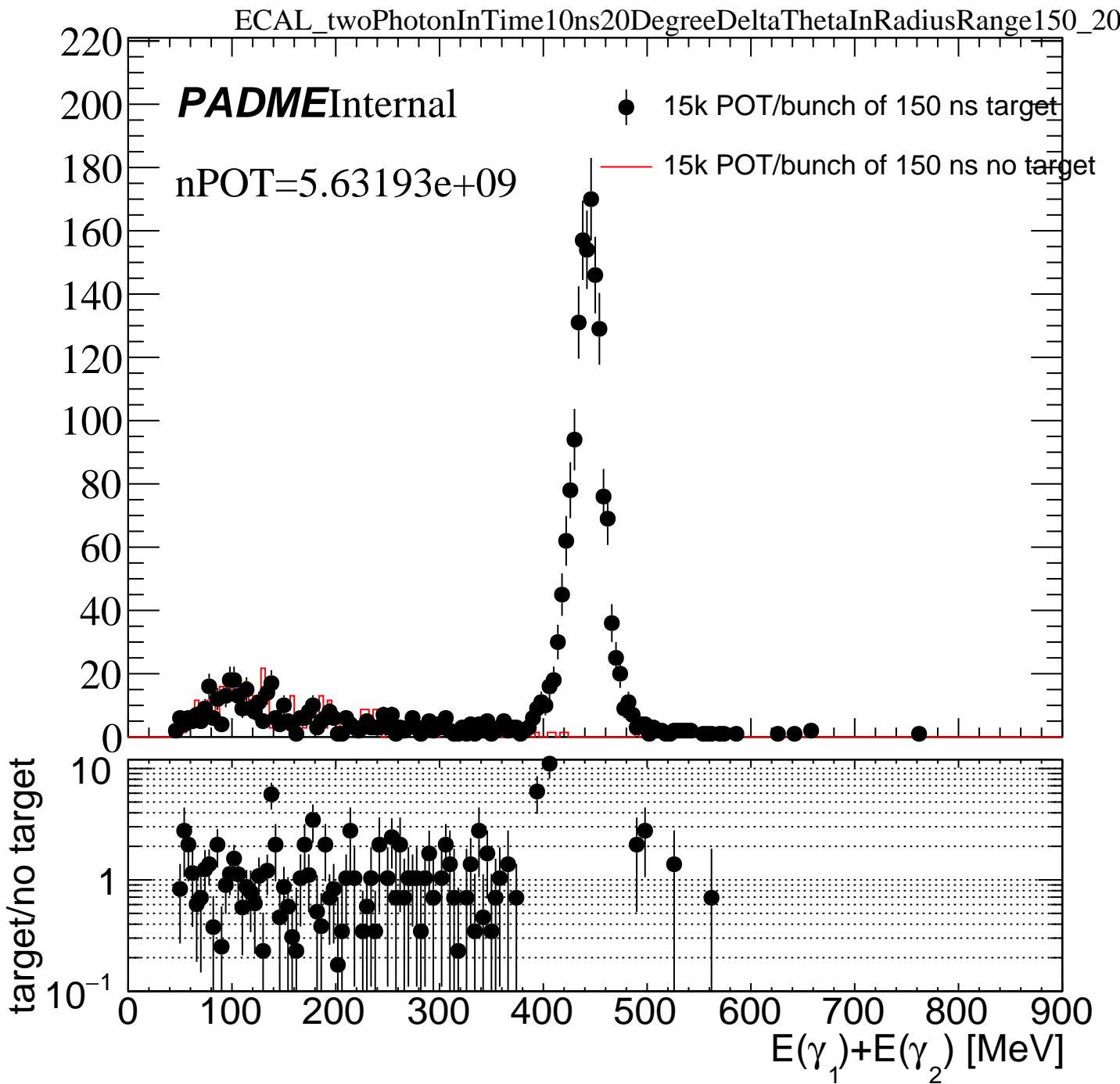




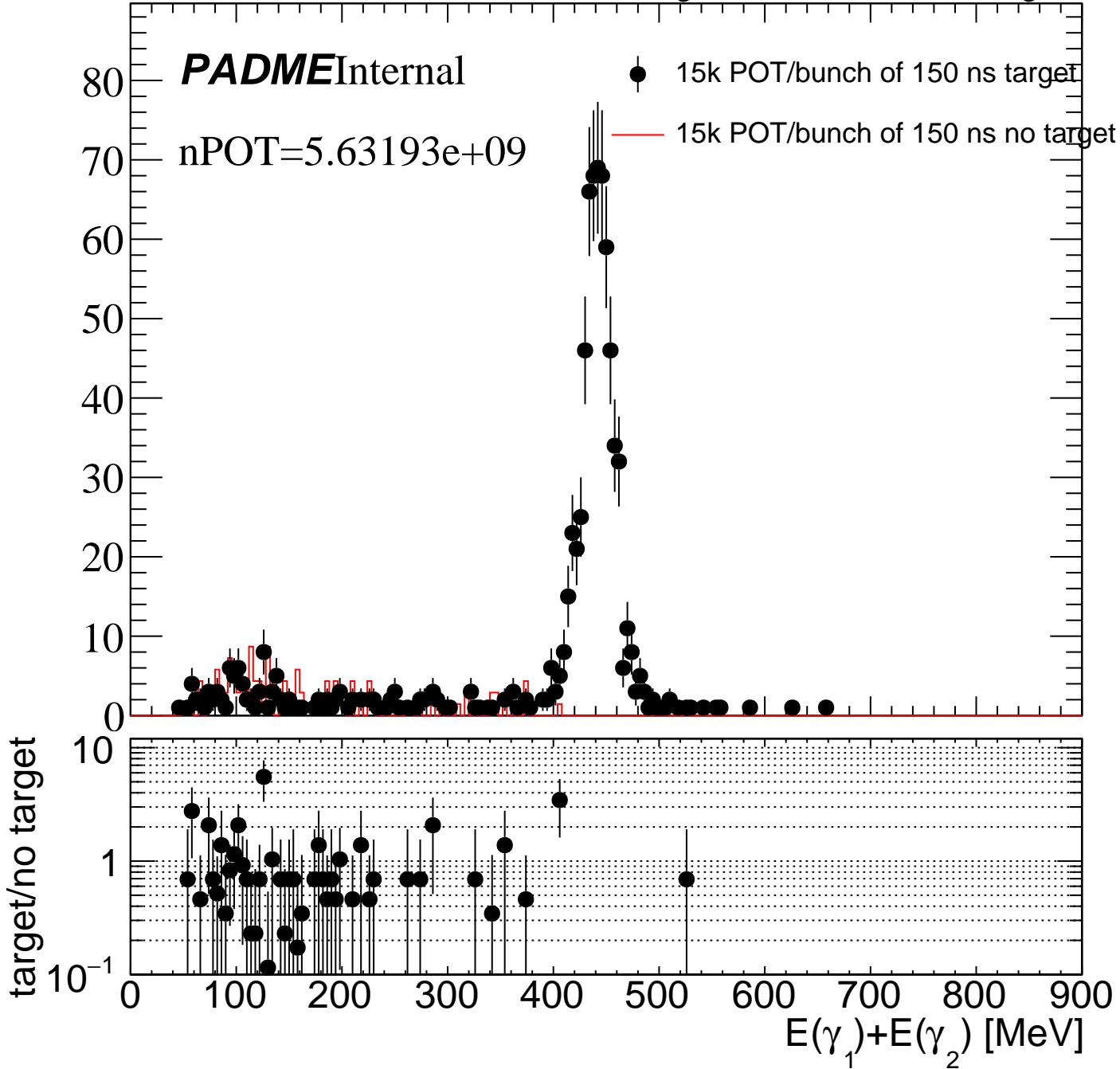


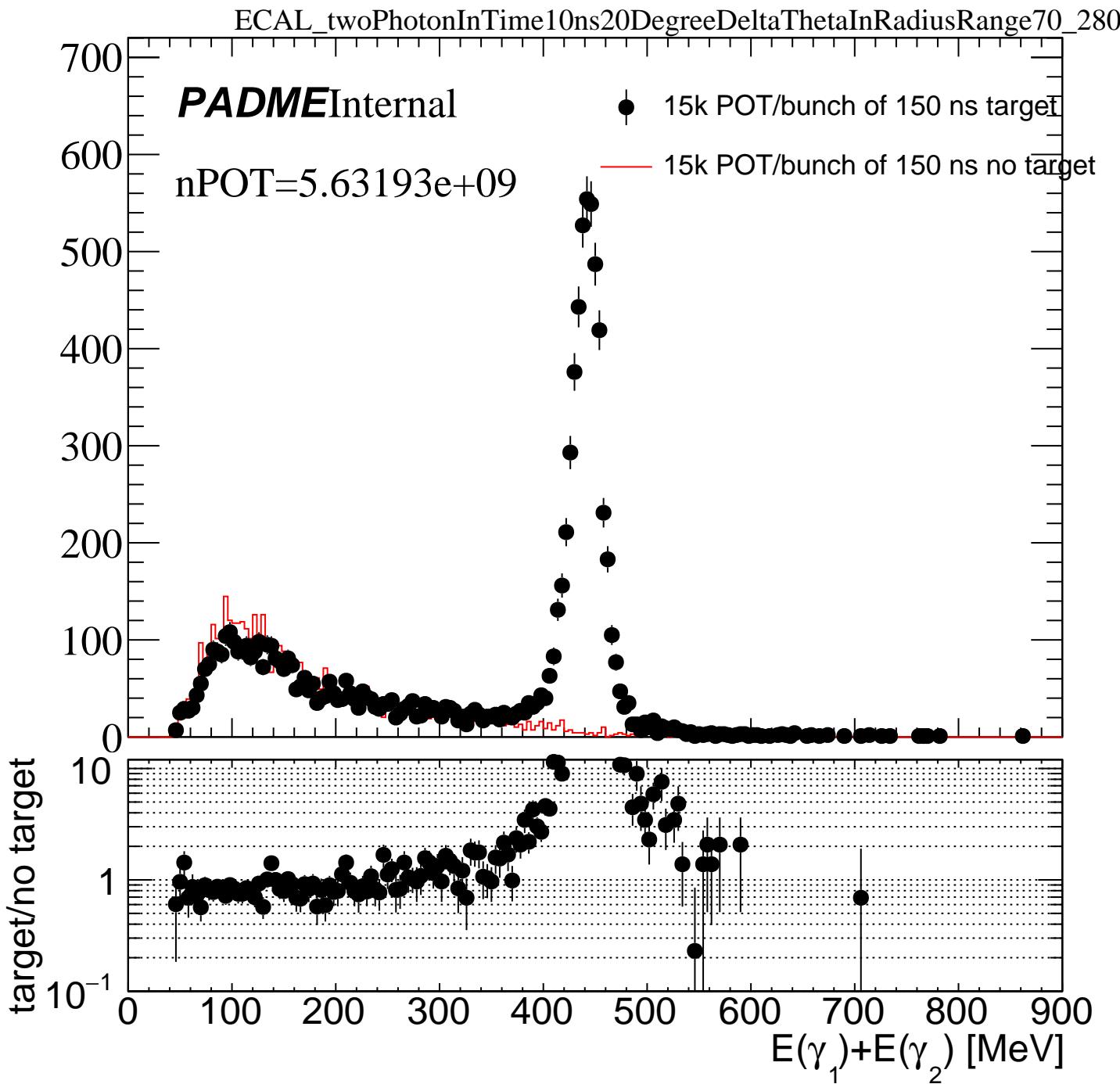


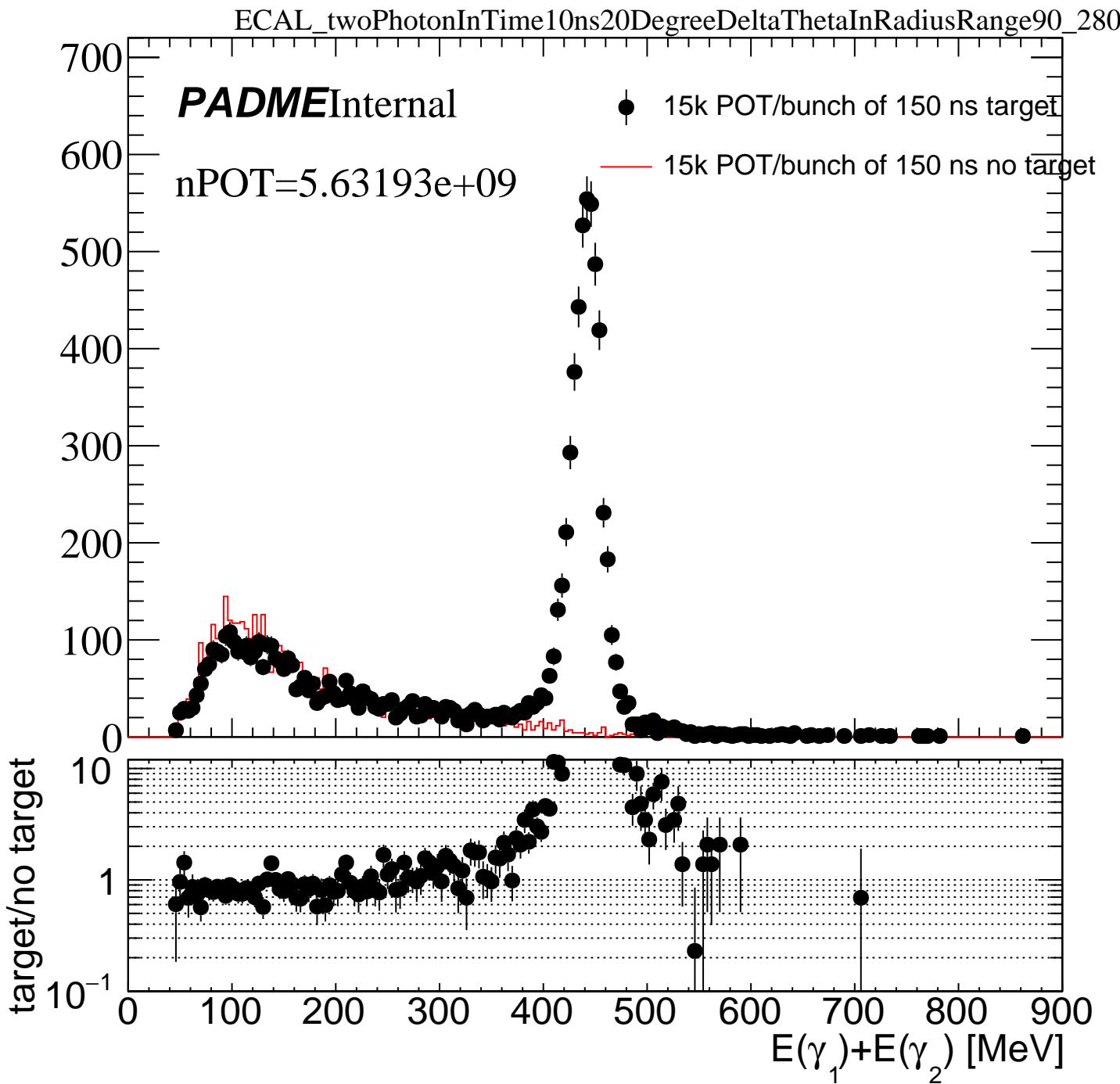


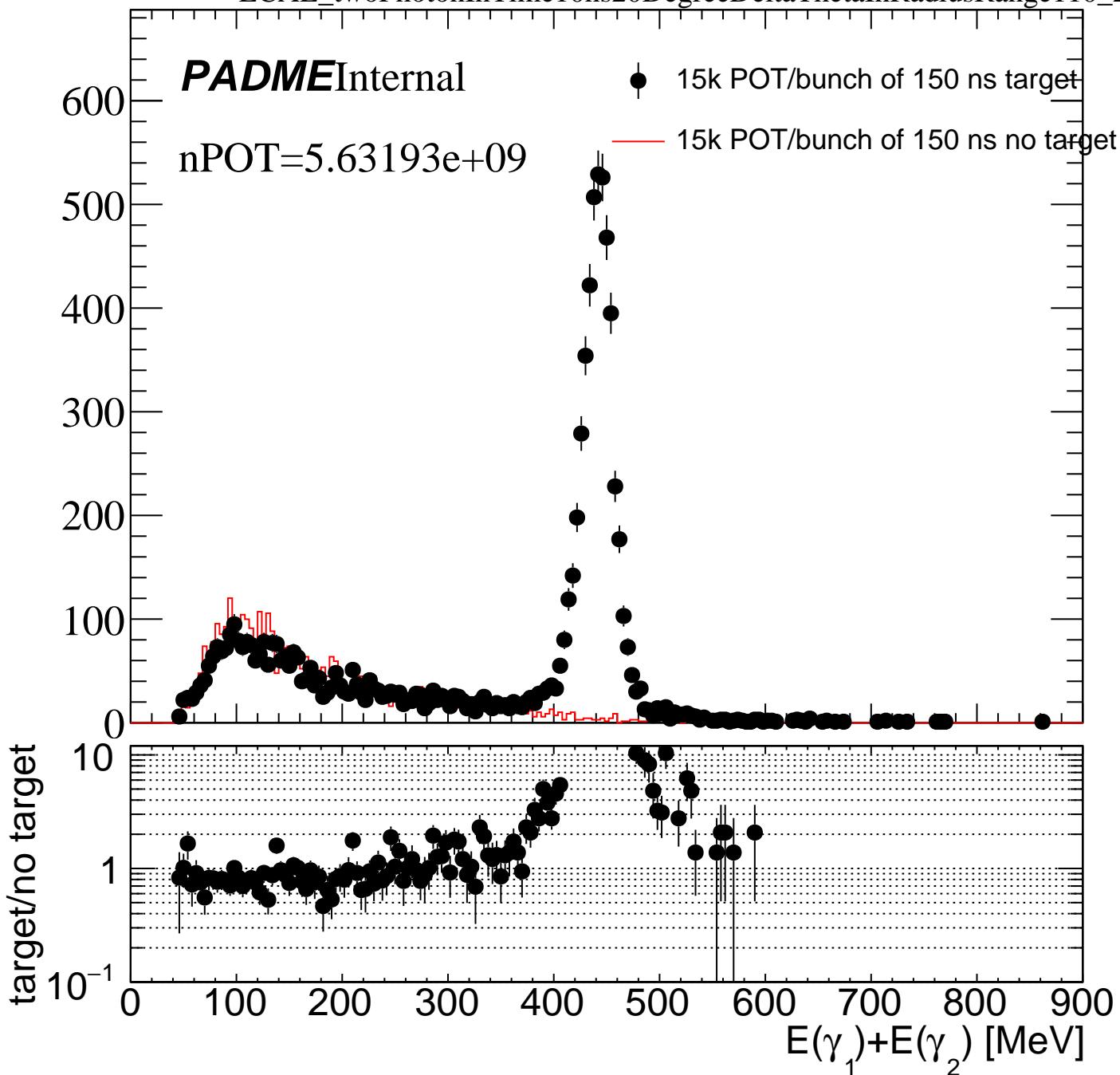


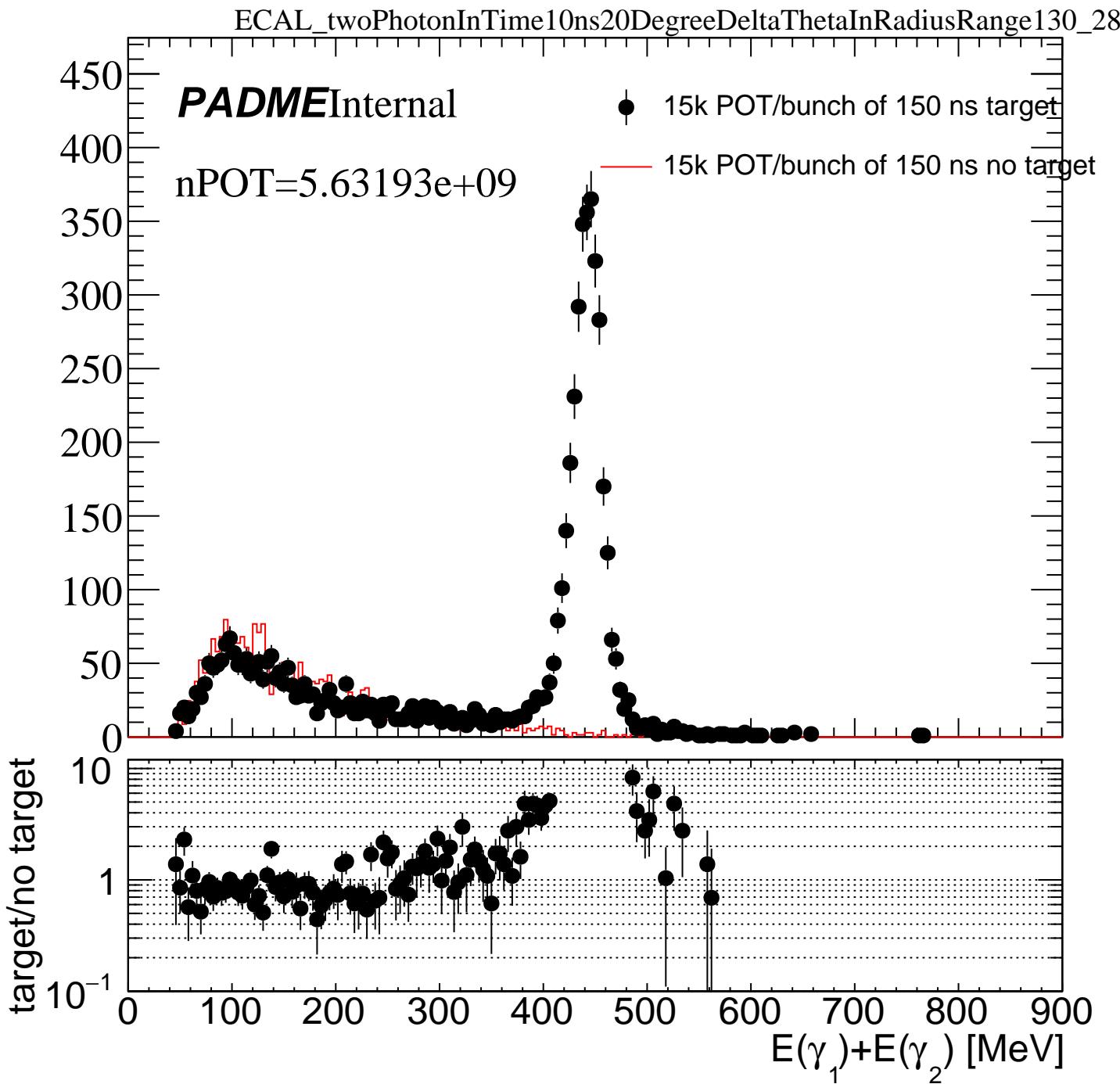
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_19

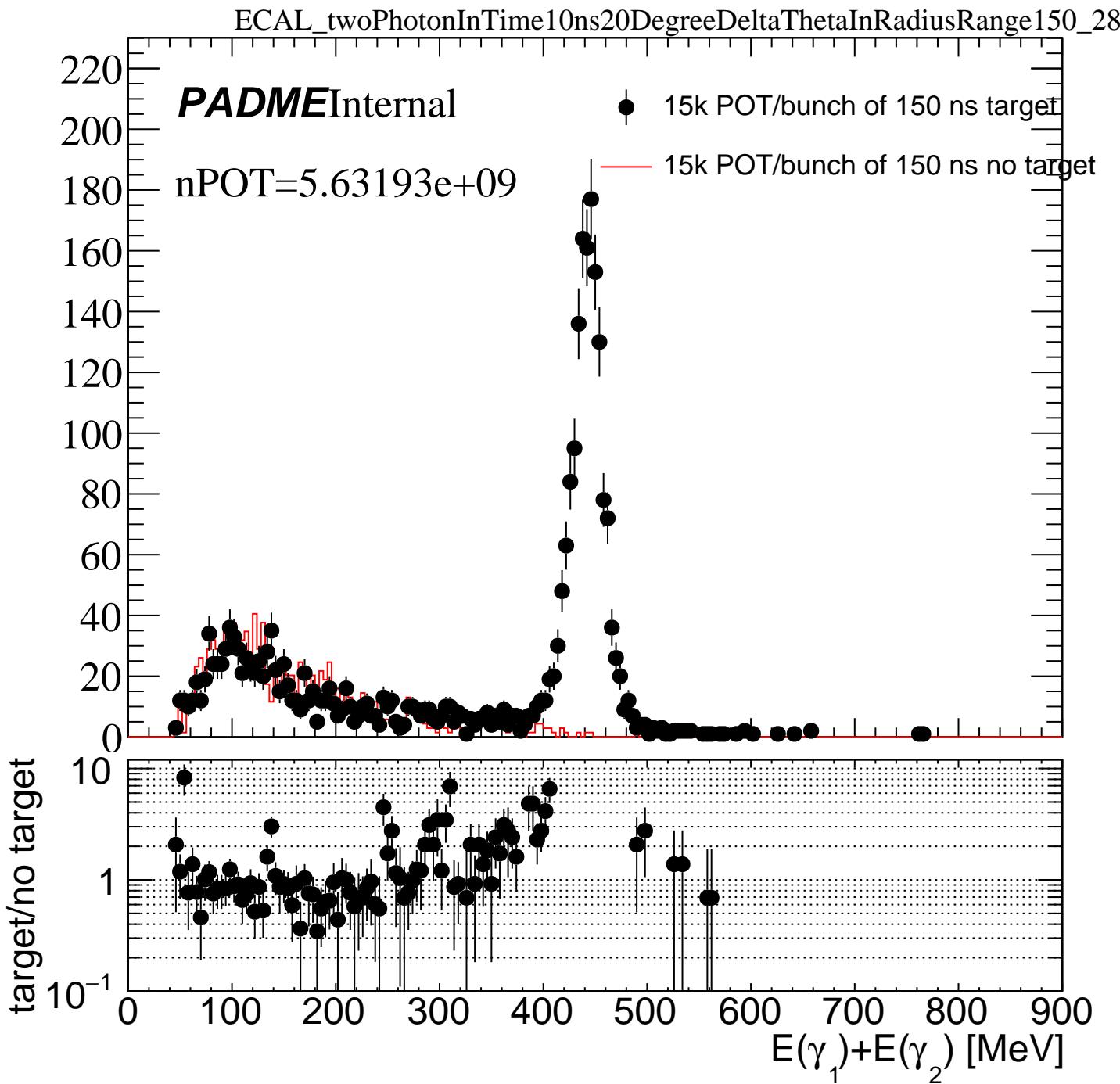




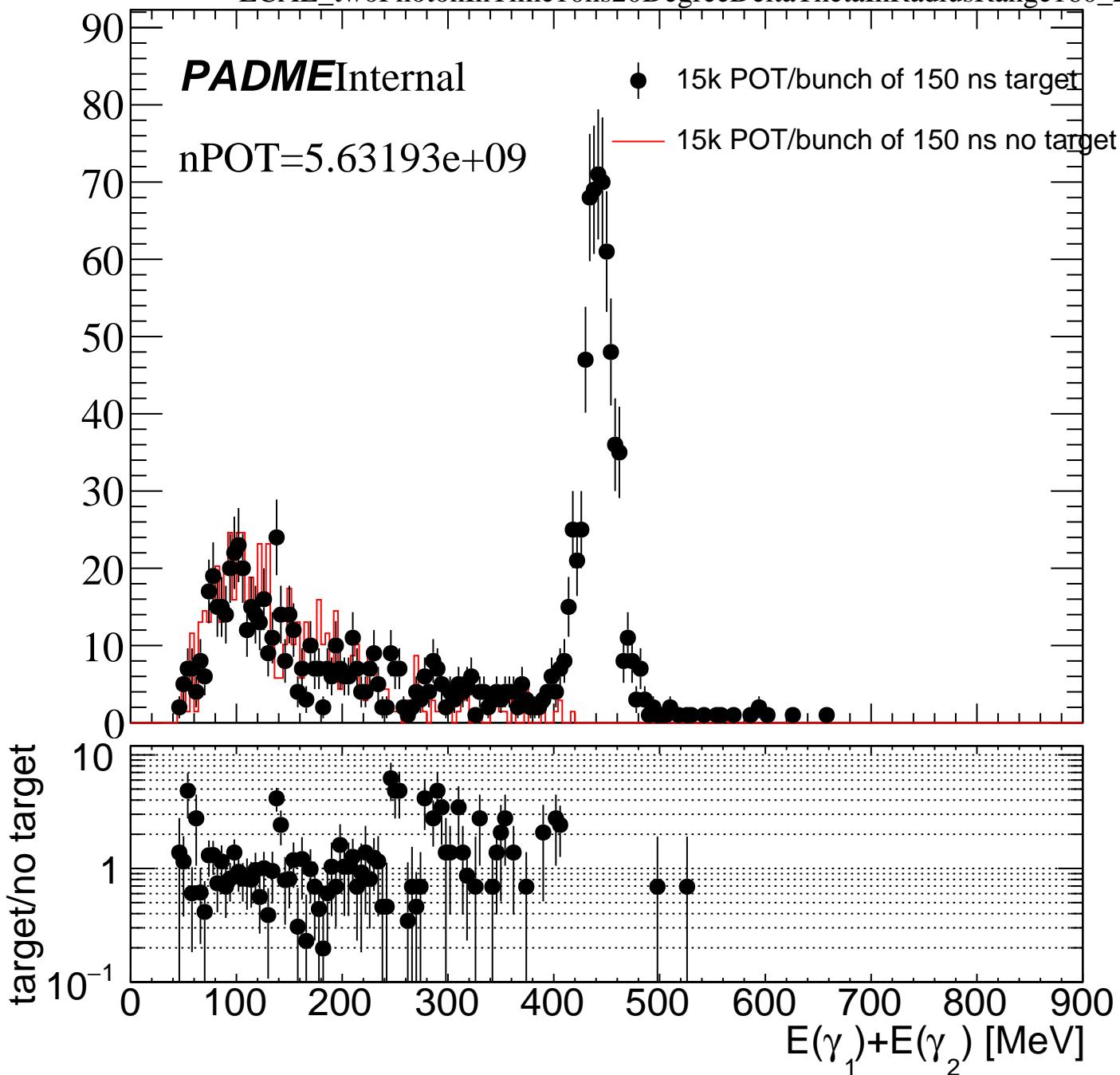


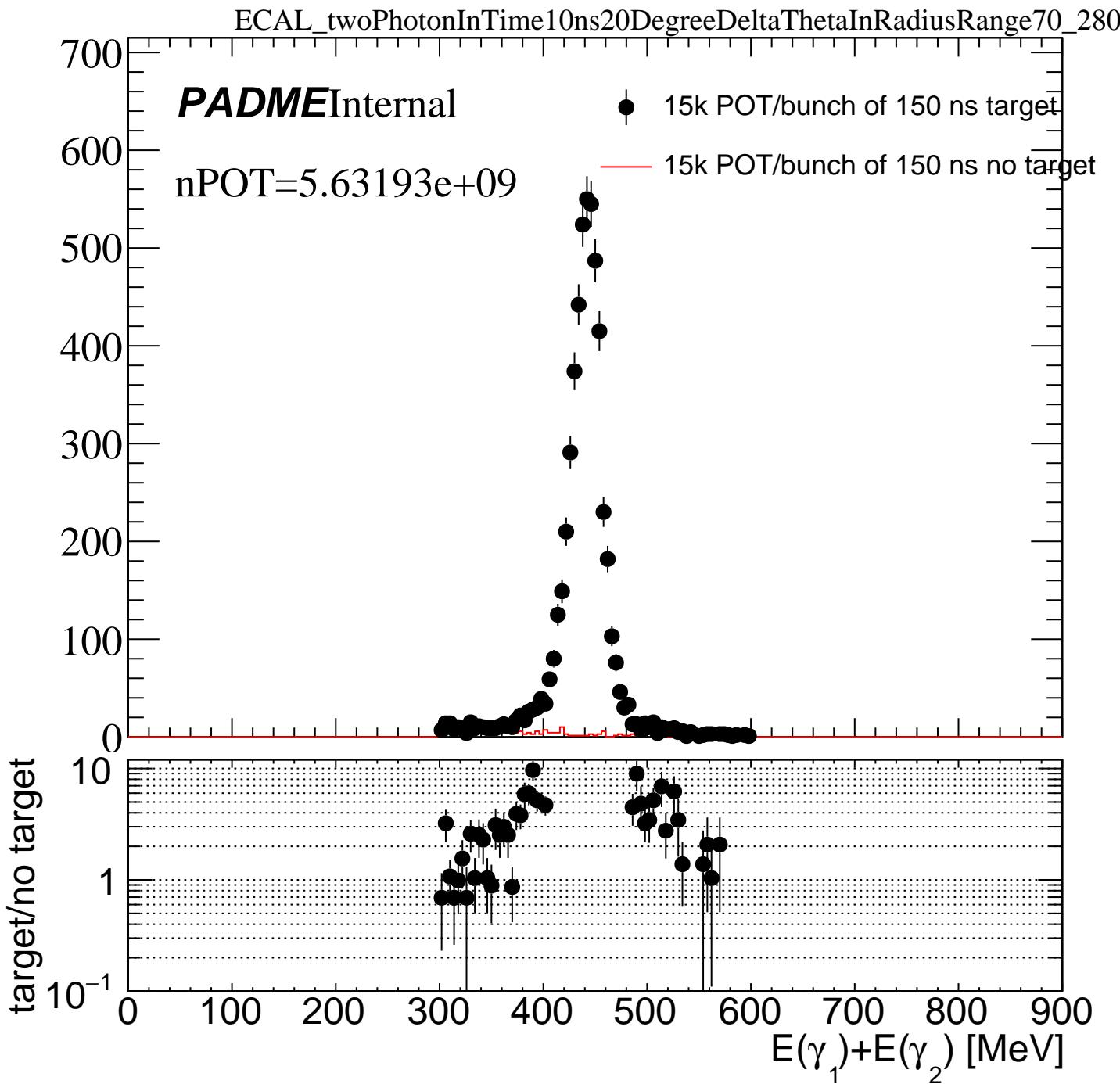


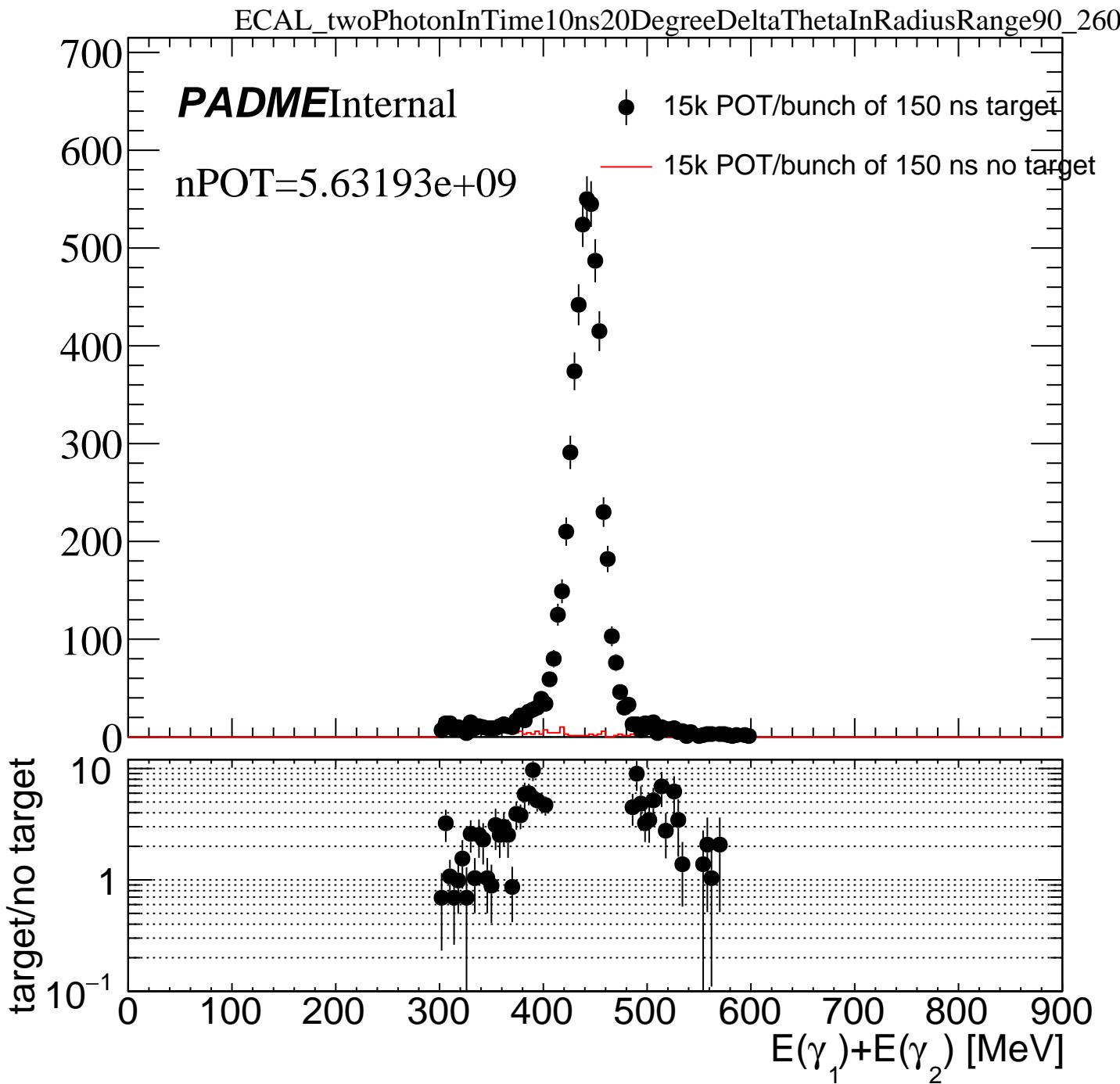




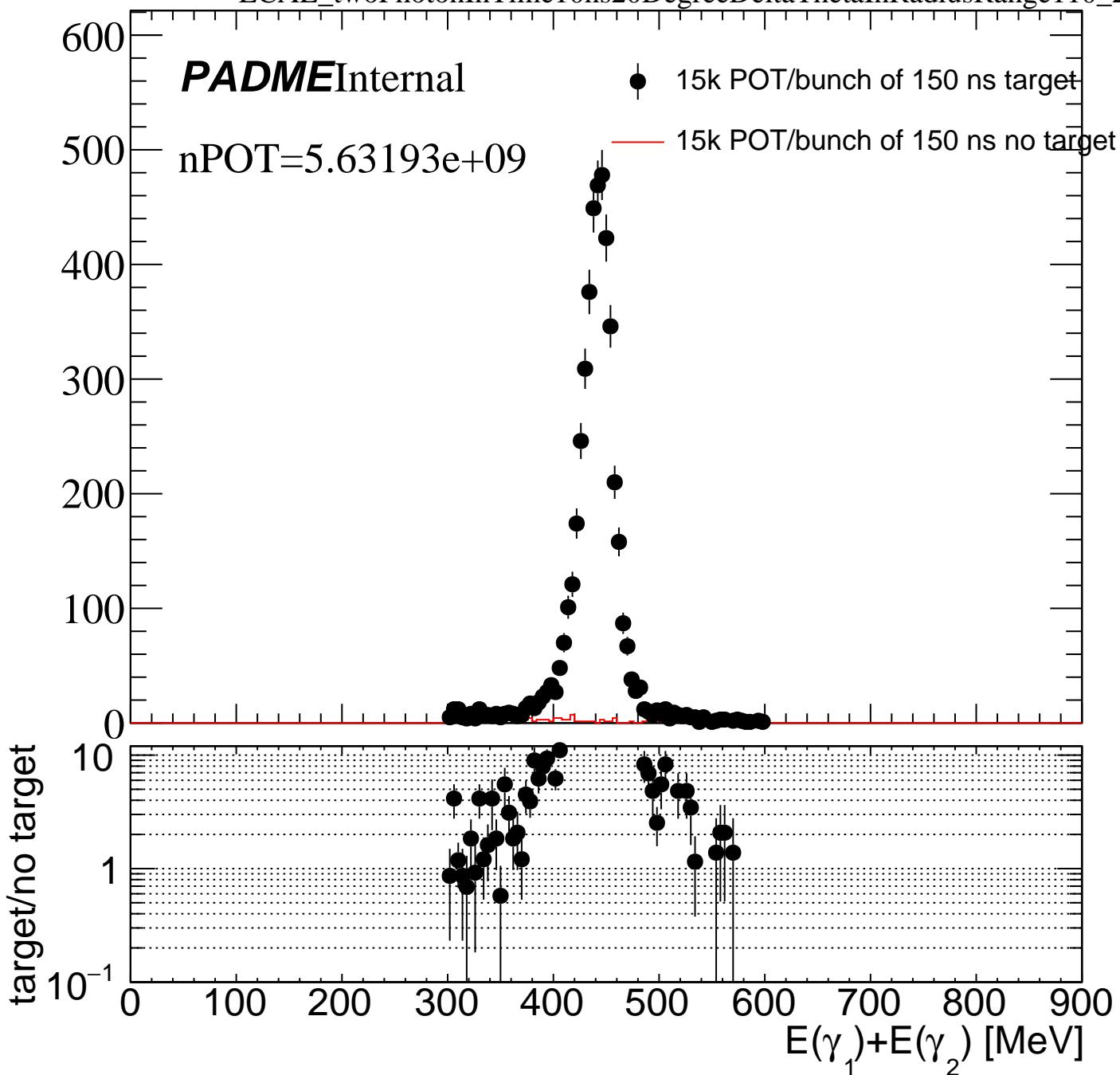
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_28



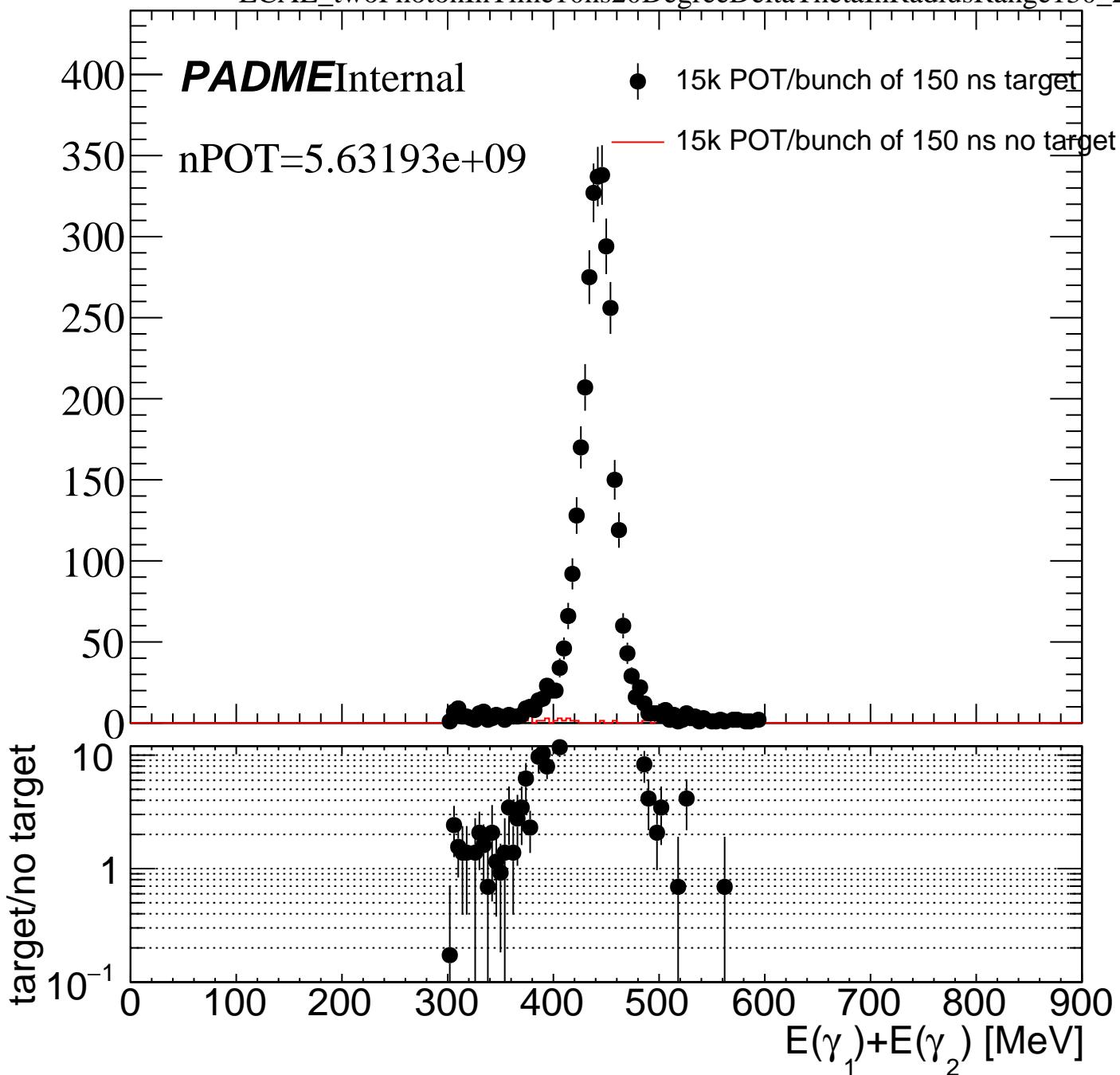




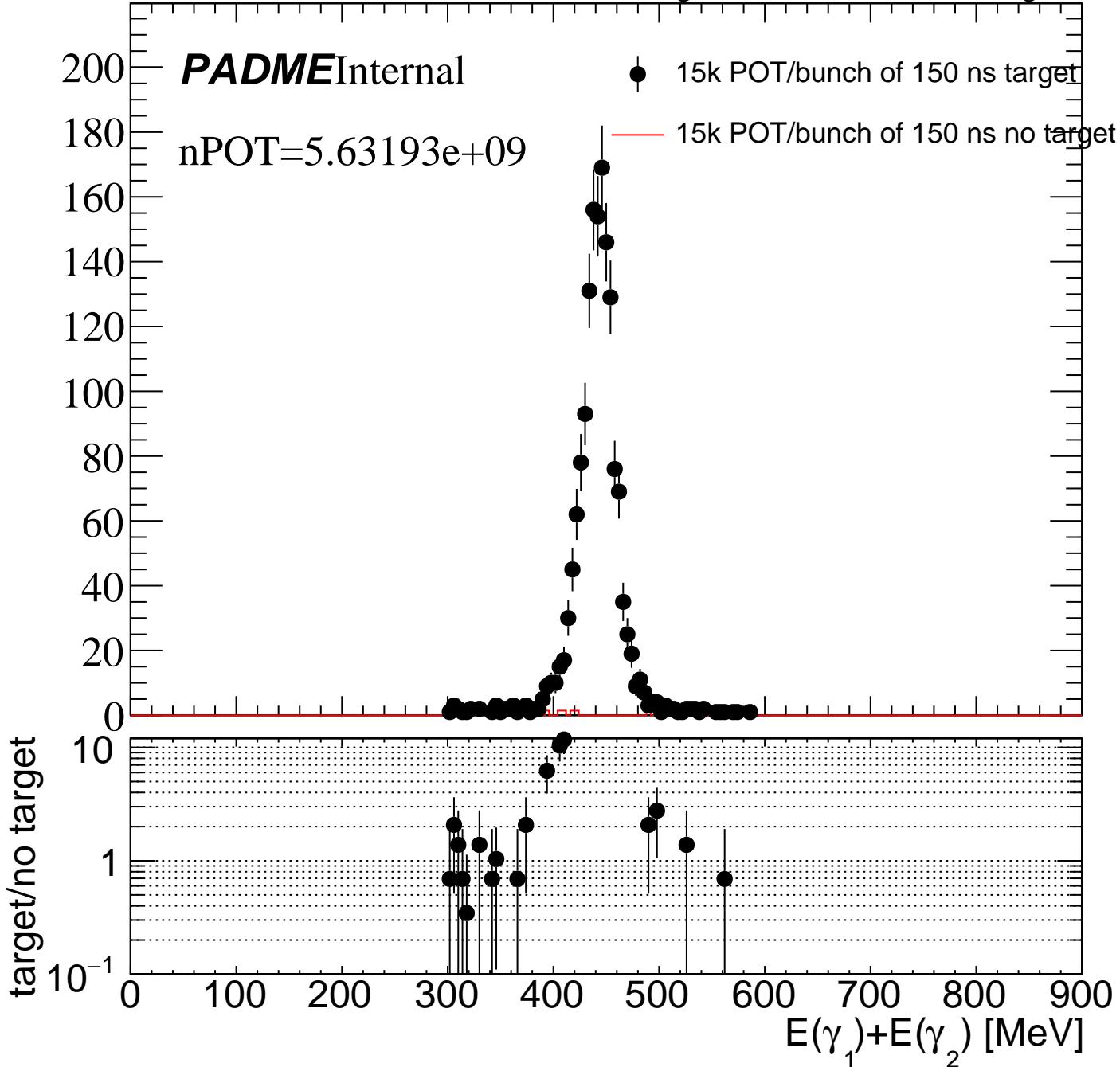
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110_24



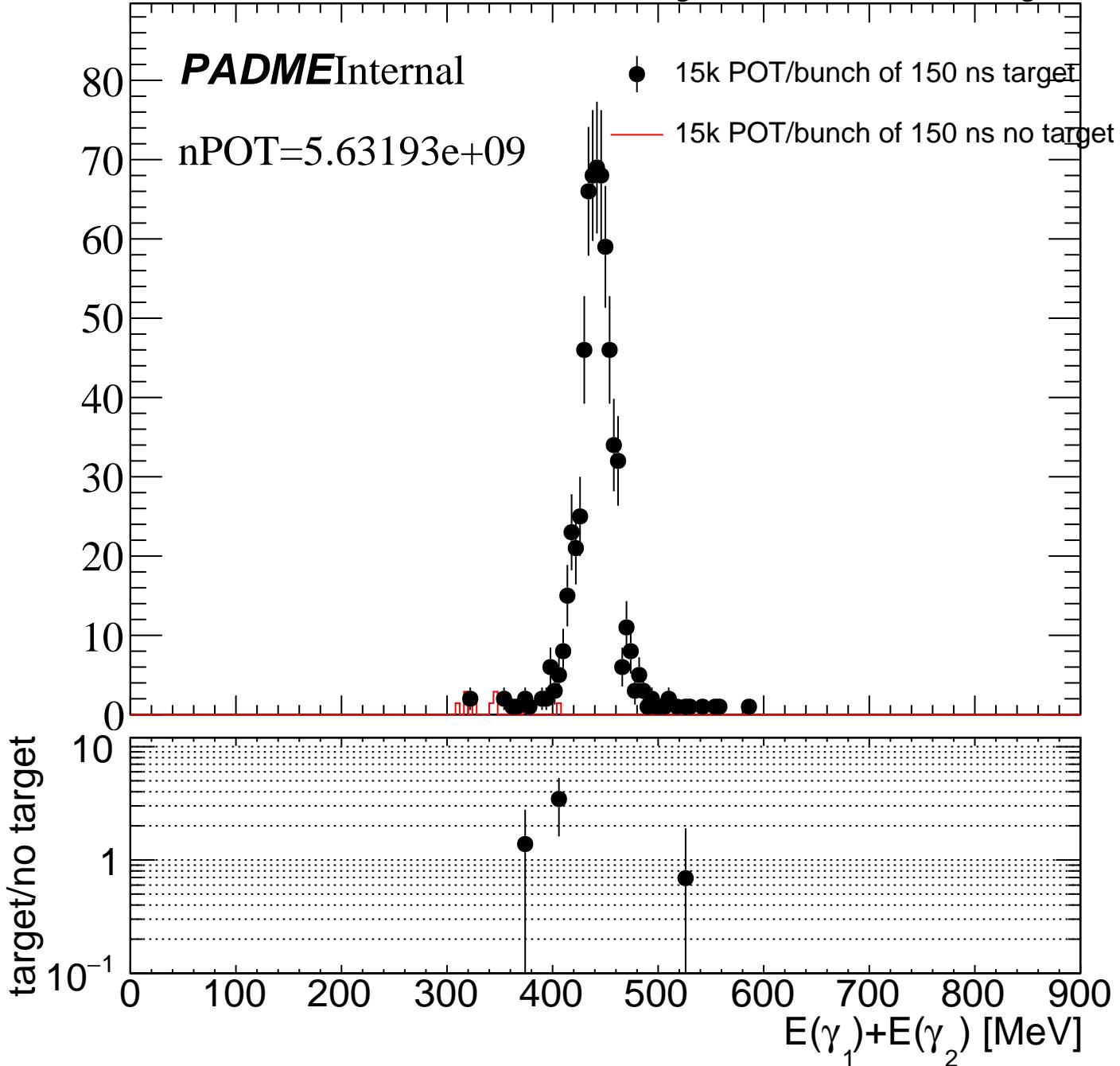
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_22

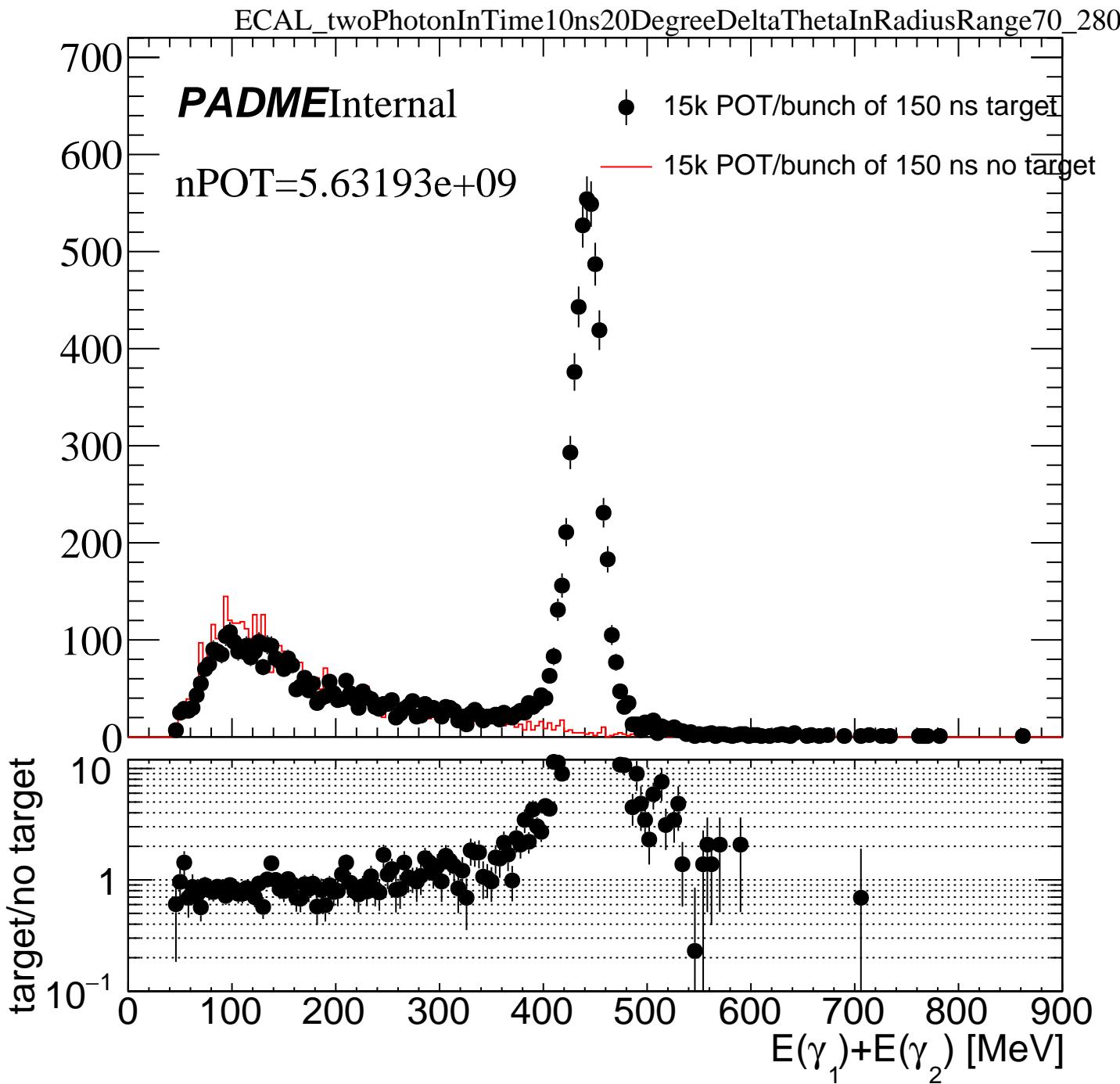


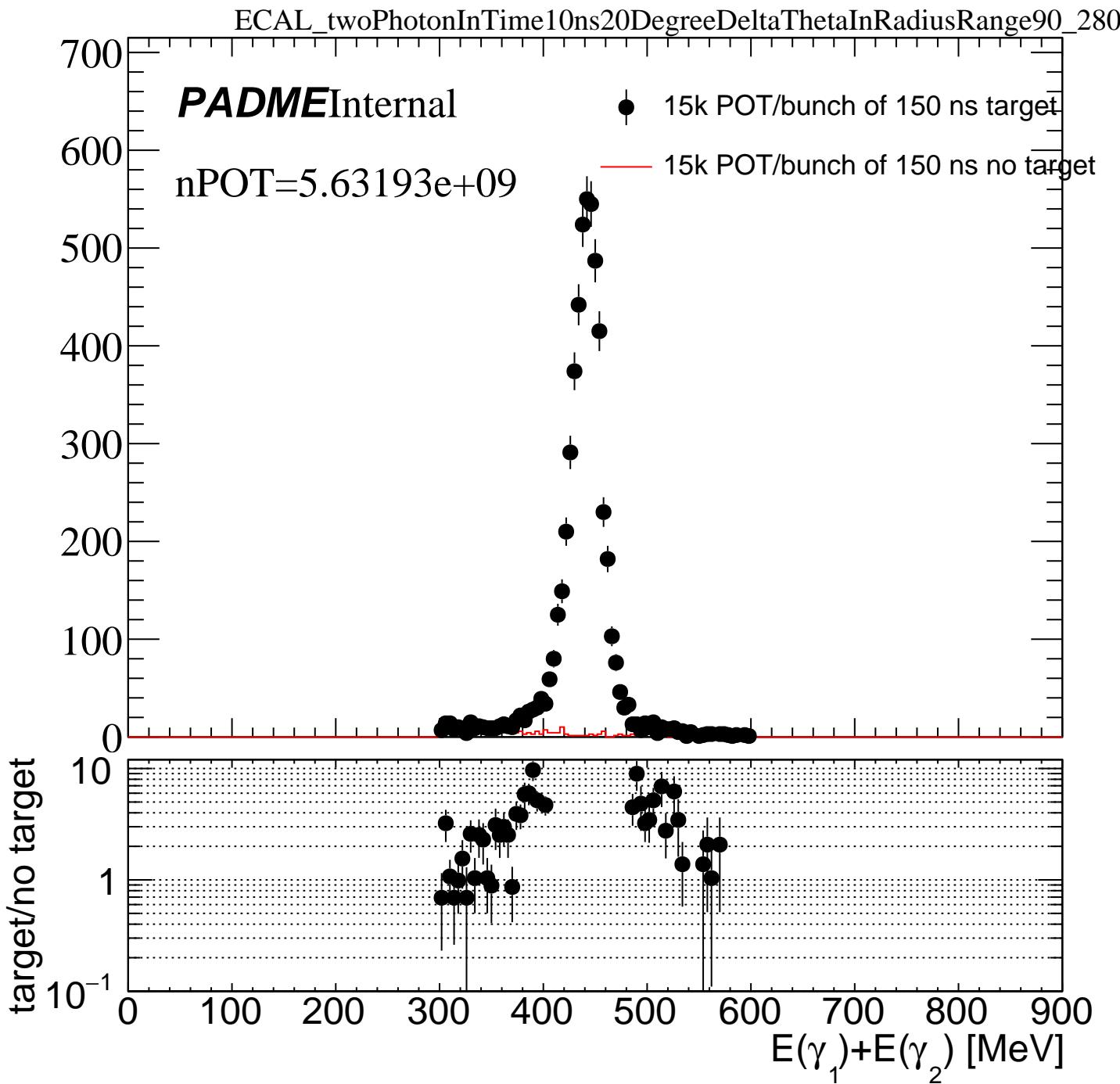
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_20



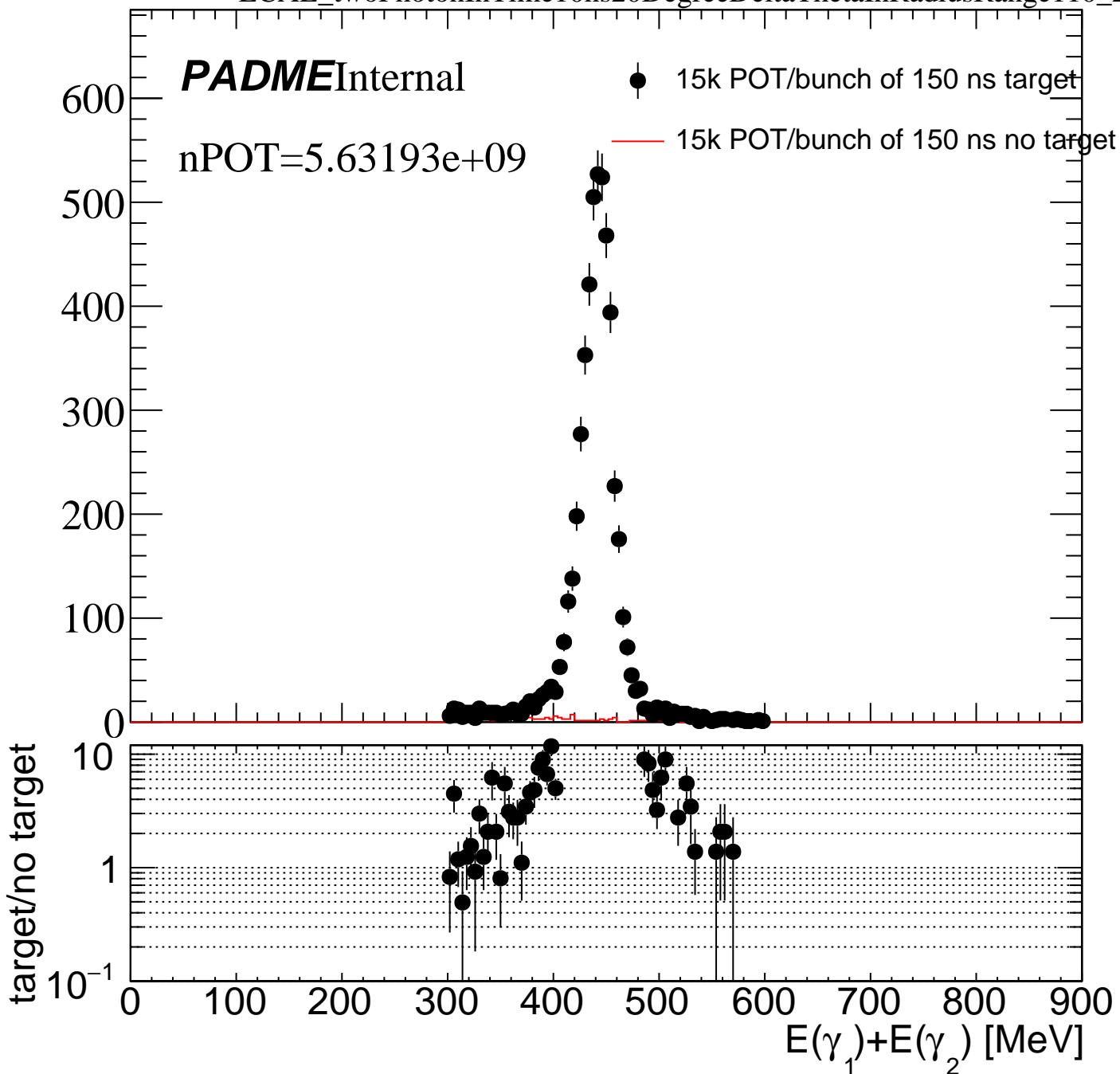
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_19



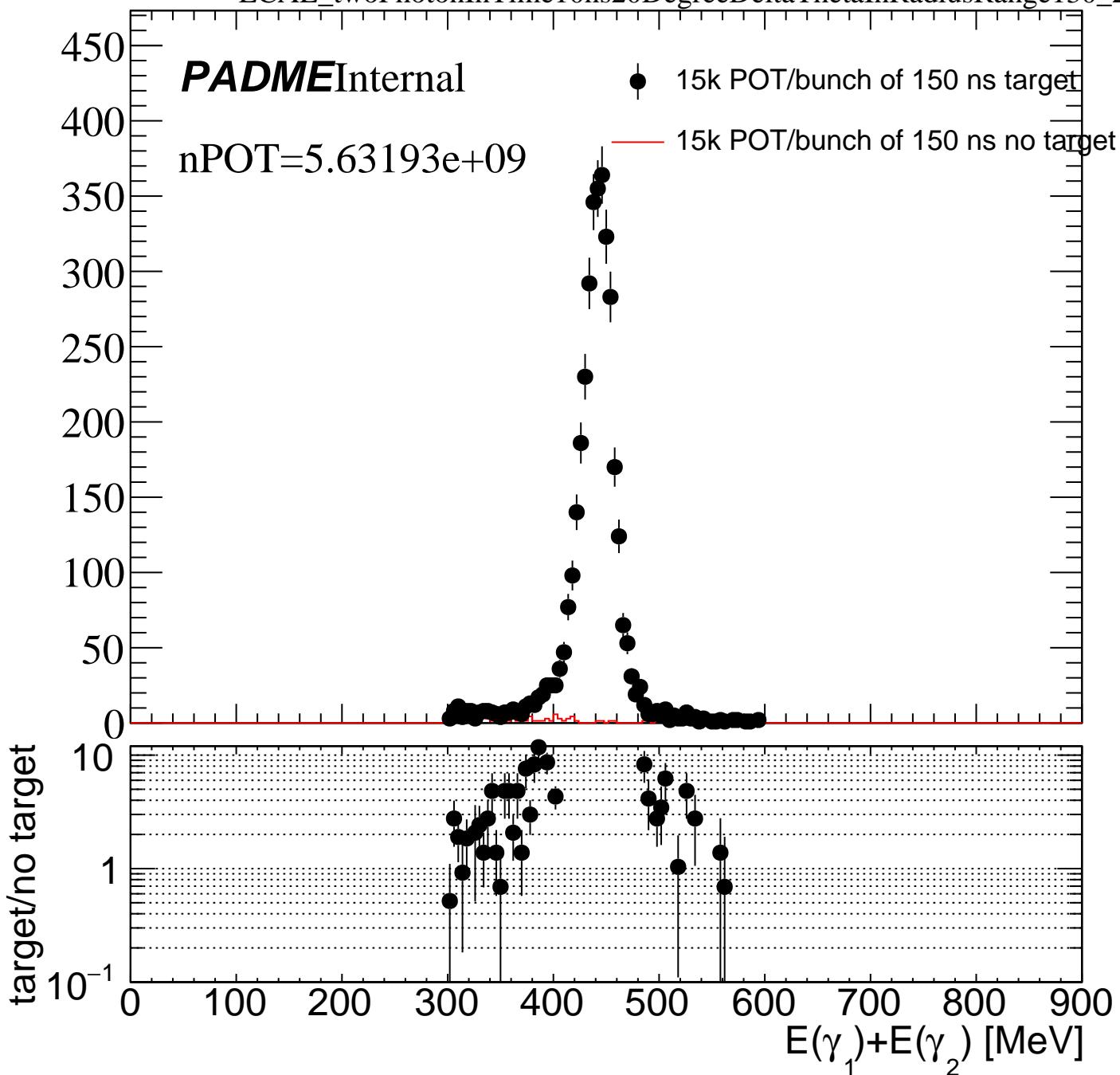




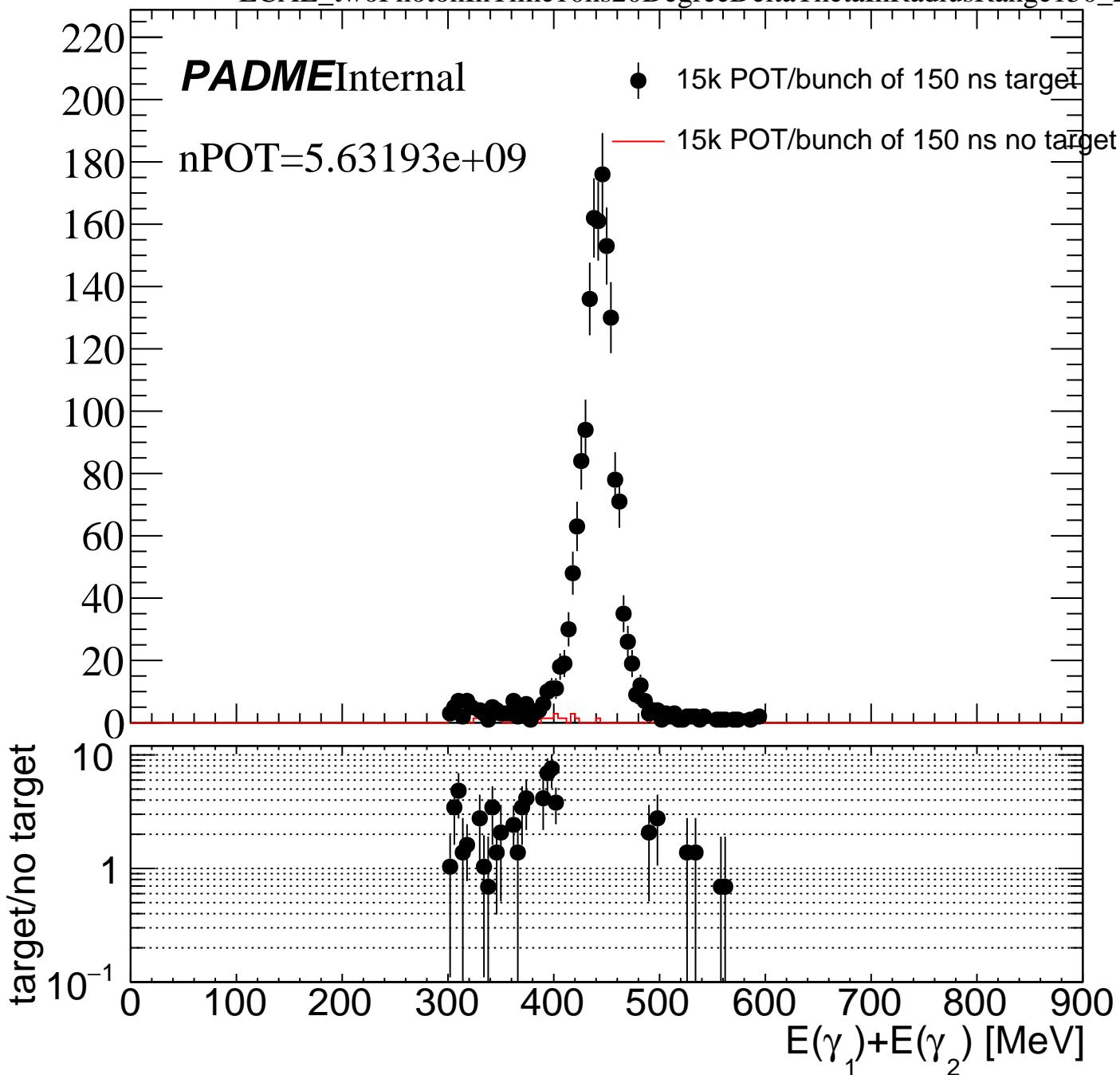
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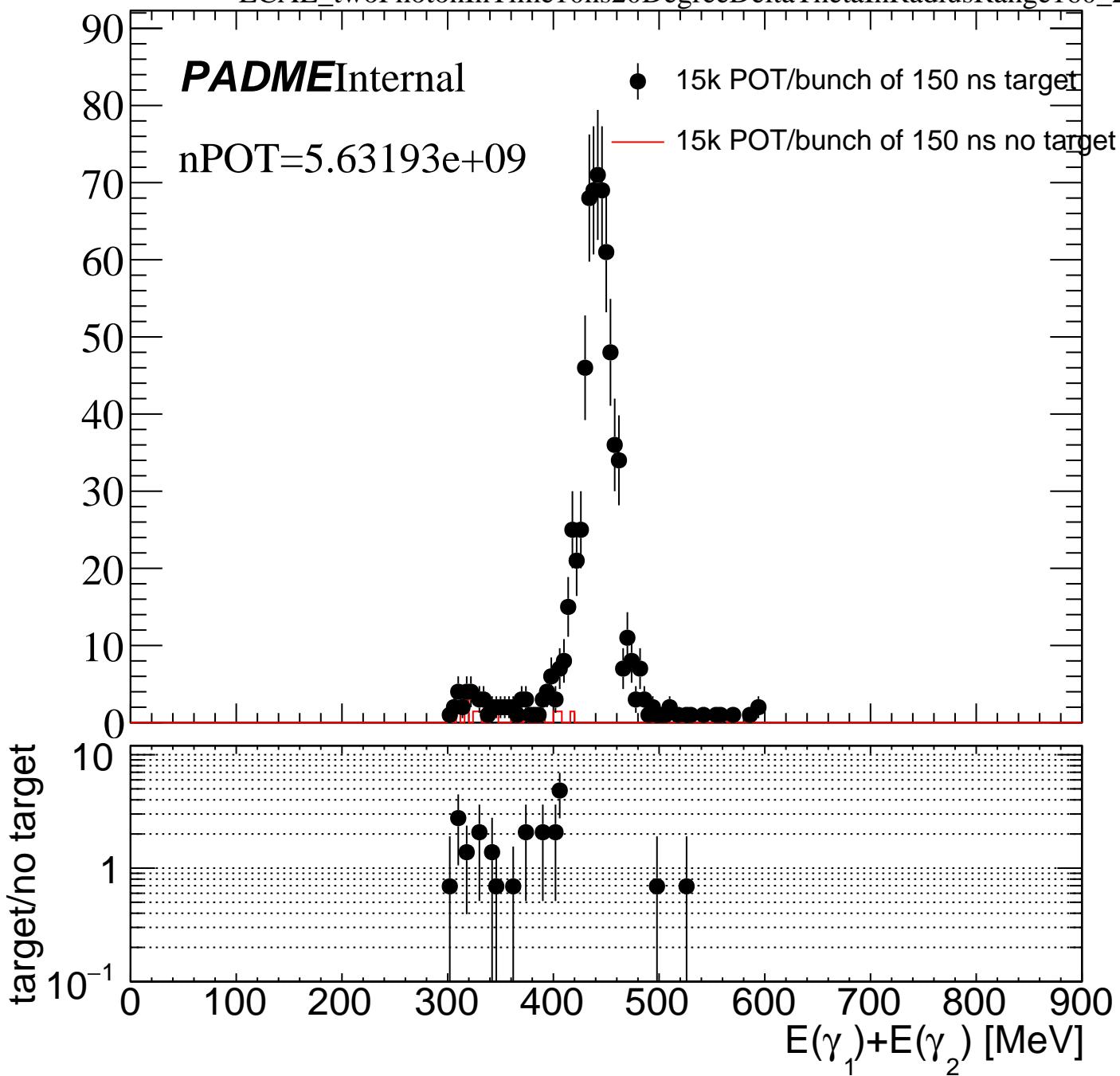
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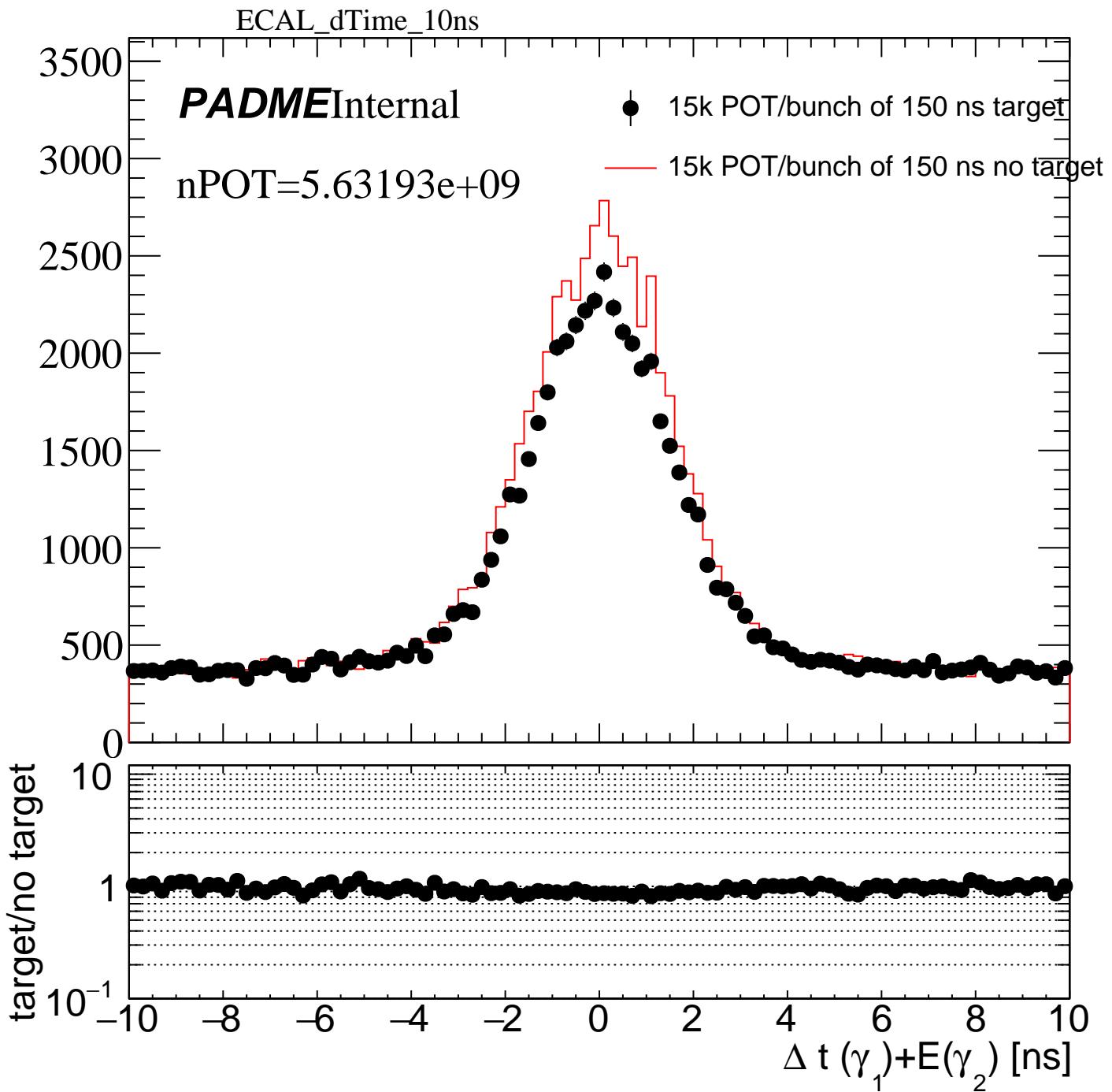


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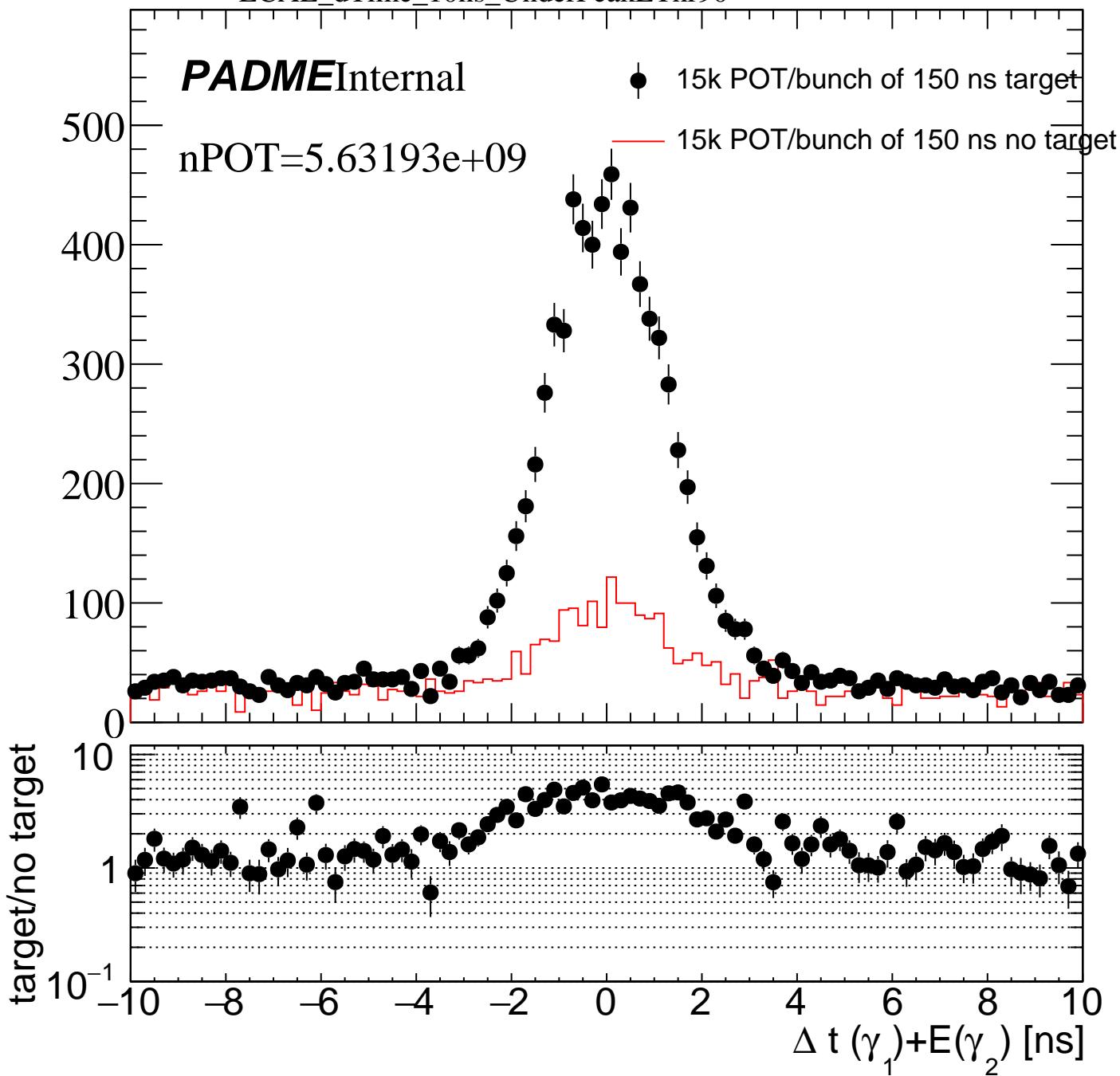


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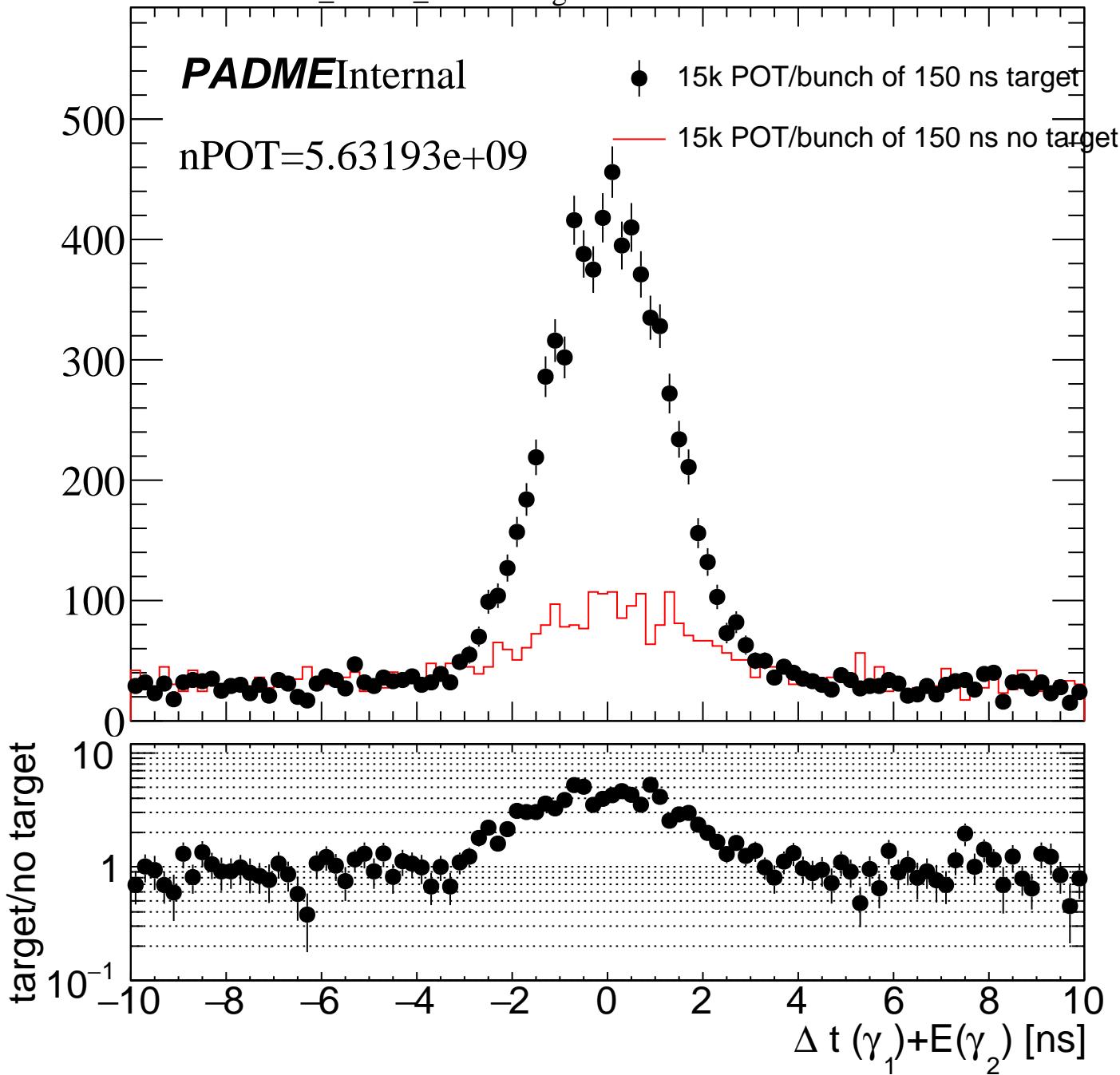




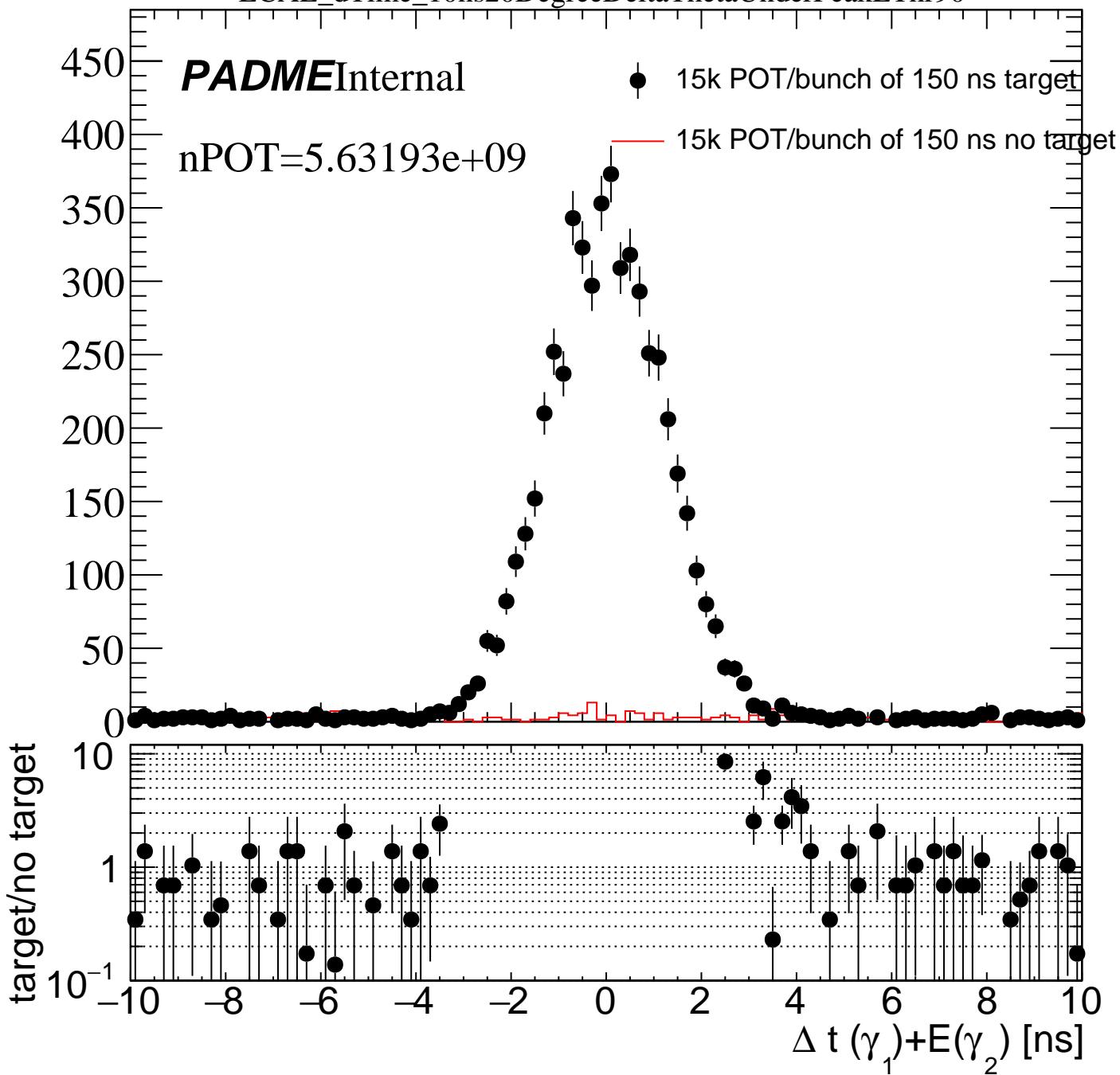
ECAL_dTime_10ns_UnderPeakETHr90



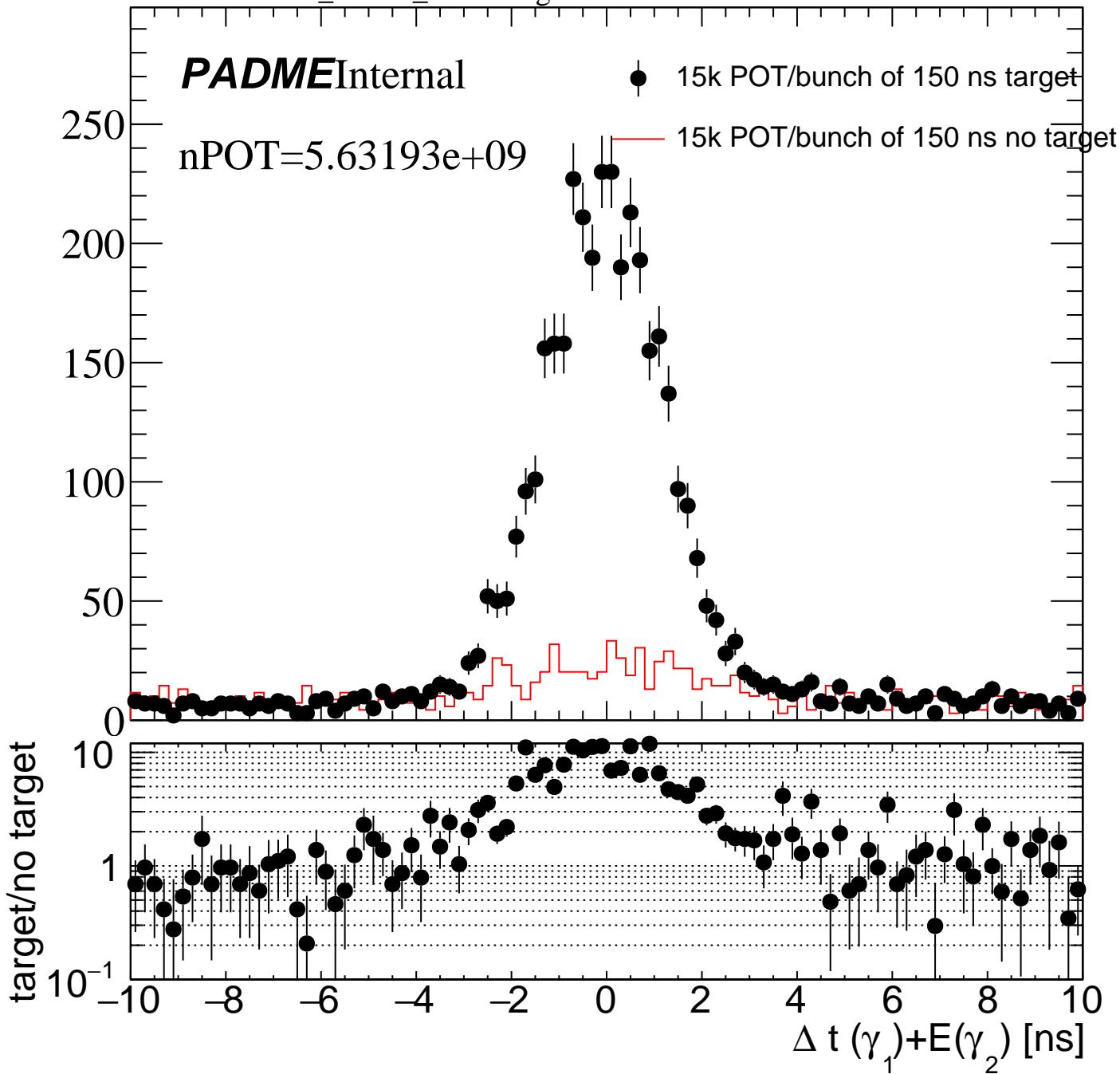
ECAL_dTime_10ns20DegreeDeltaTheta



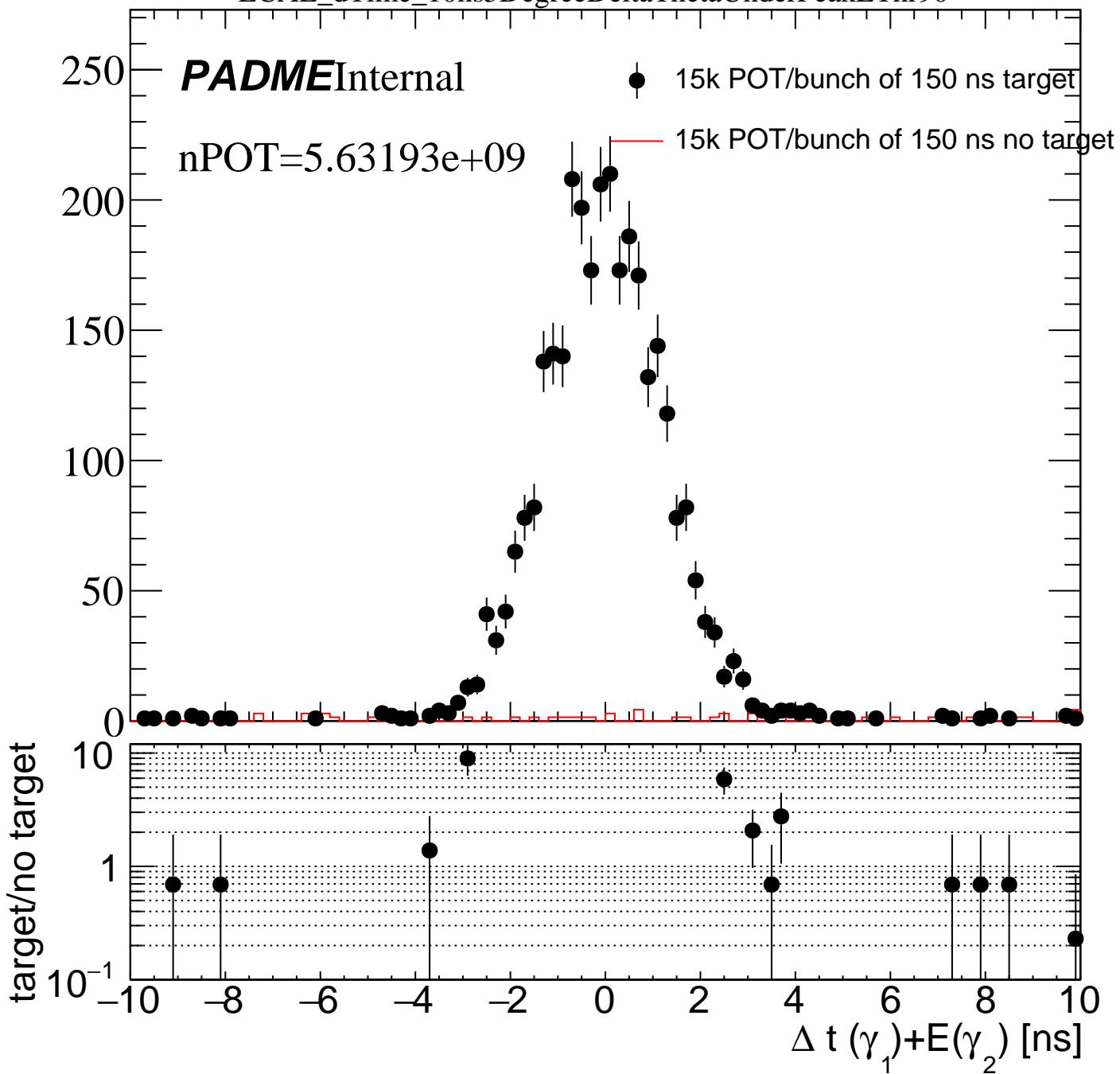
ECAL_dTime_10ns20DegreeDeltaThetaUnderPeakEThr90



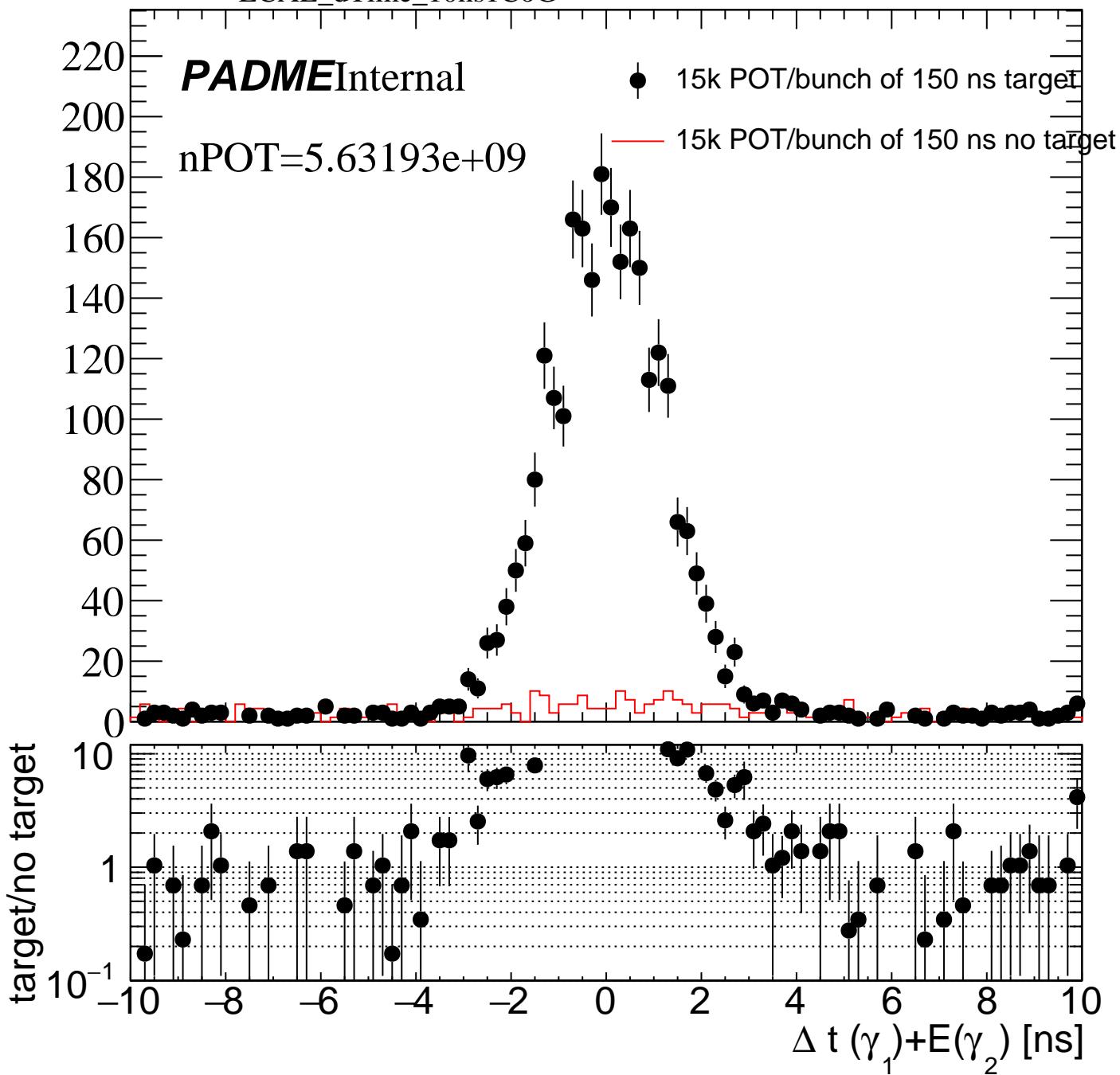
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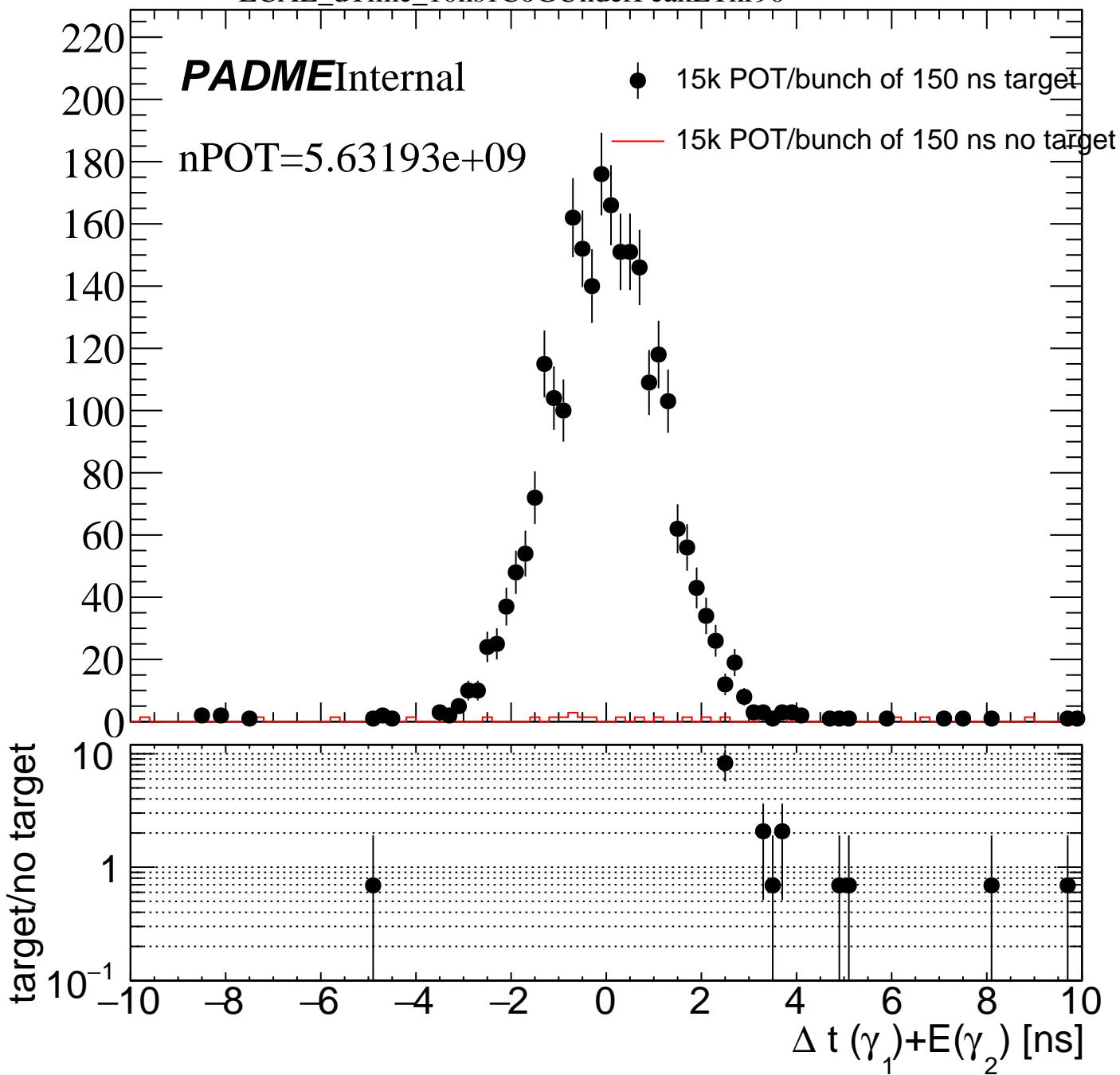
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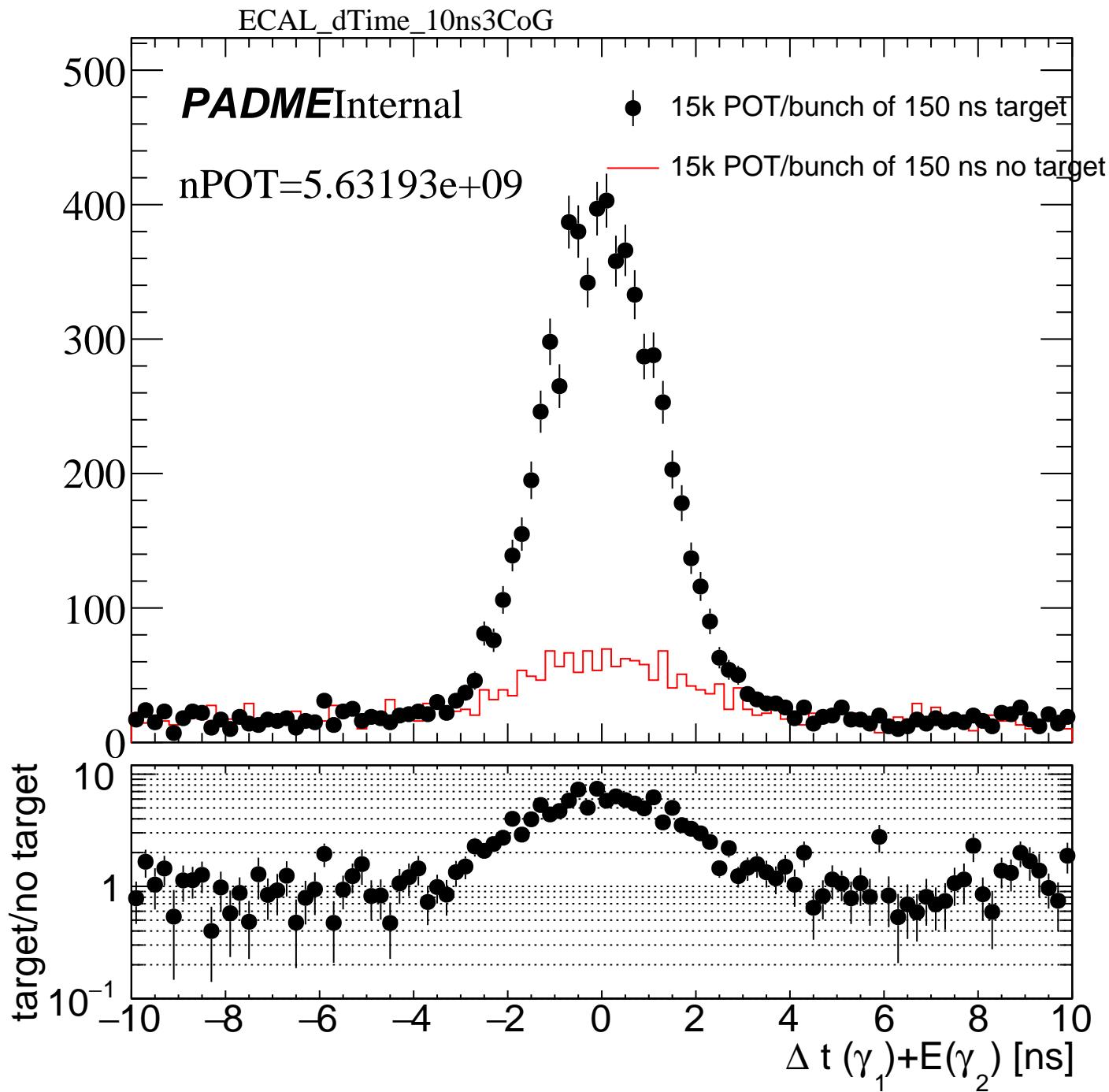


ECAL_dTime_10ns1CoG

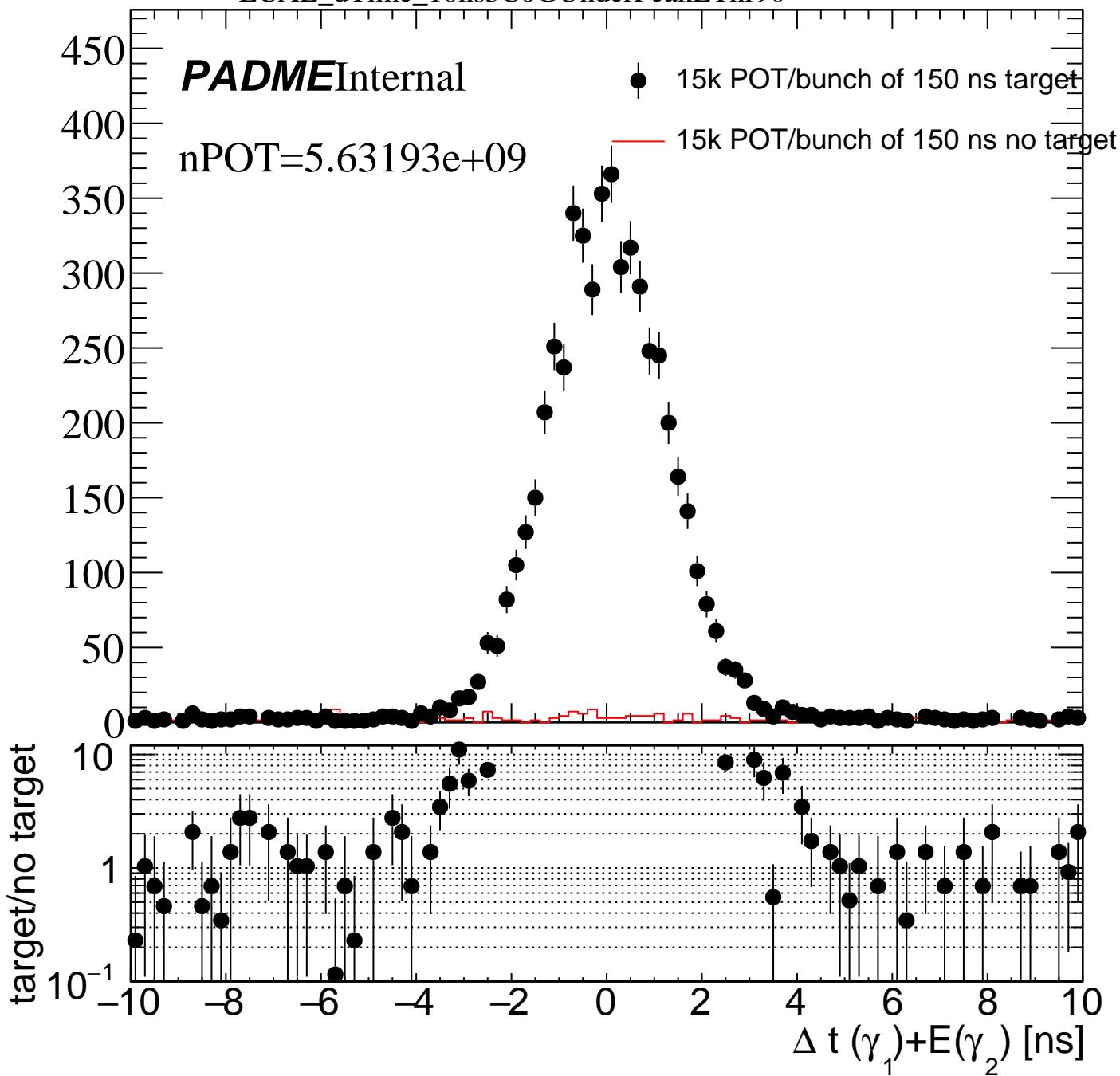


ECAL_dTime_10ns1CoGUnderPeakEThr90

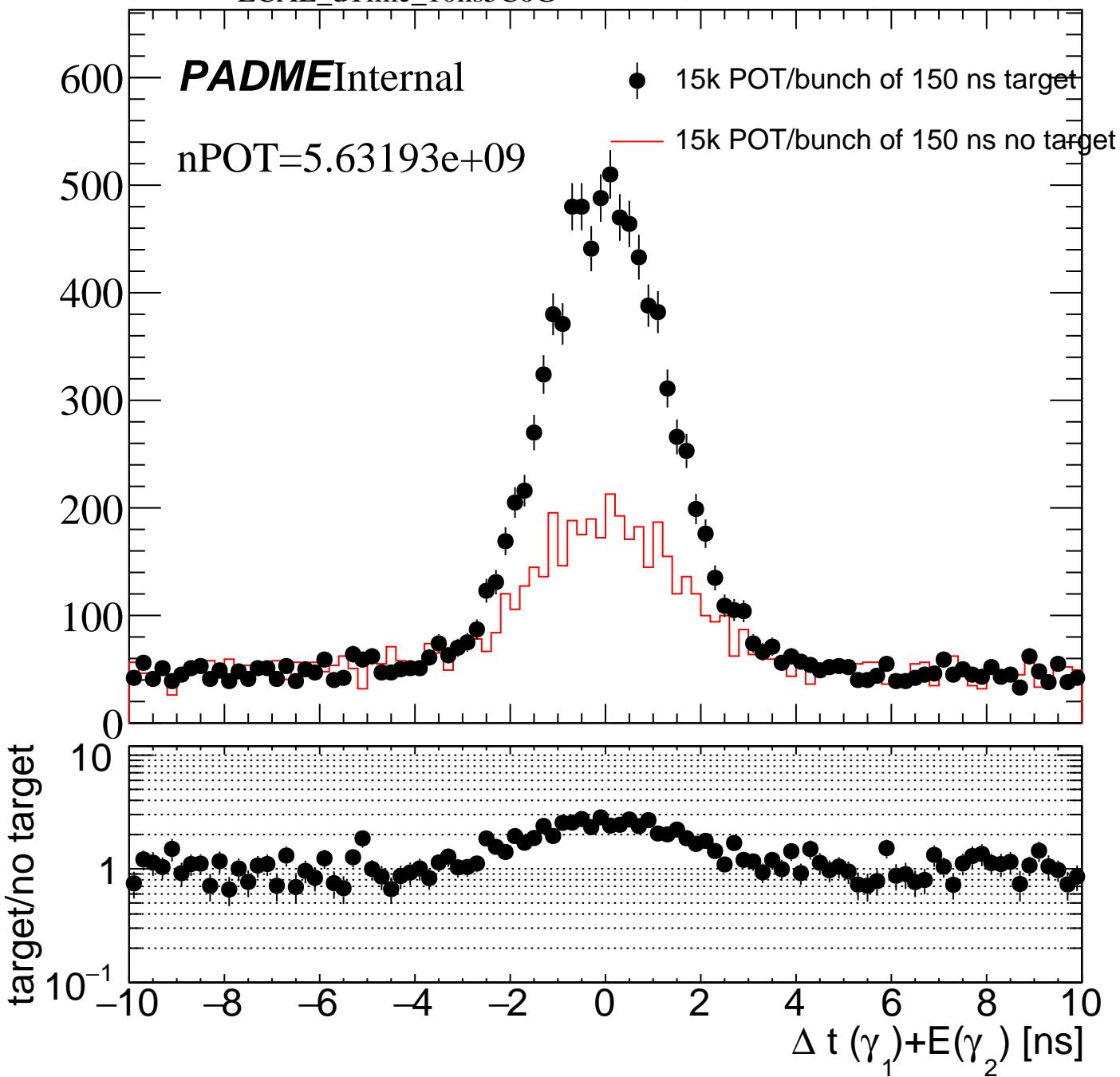




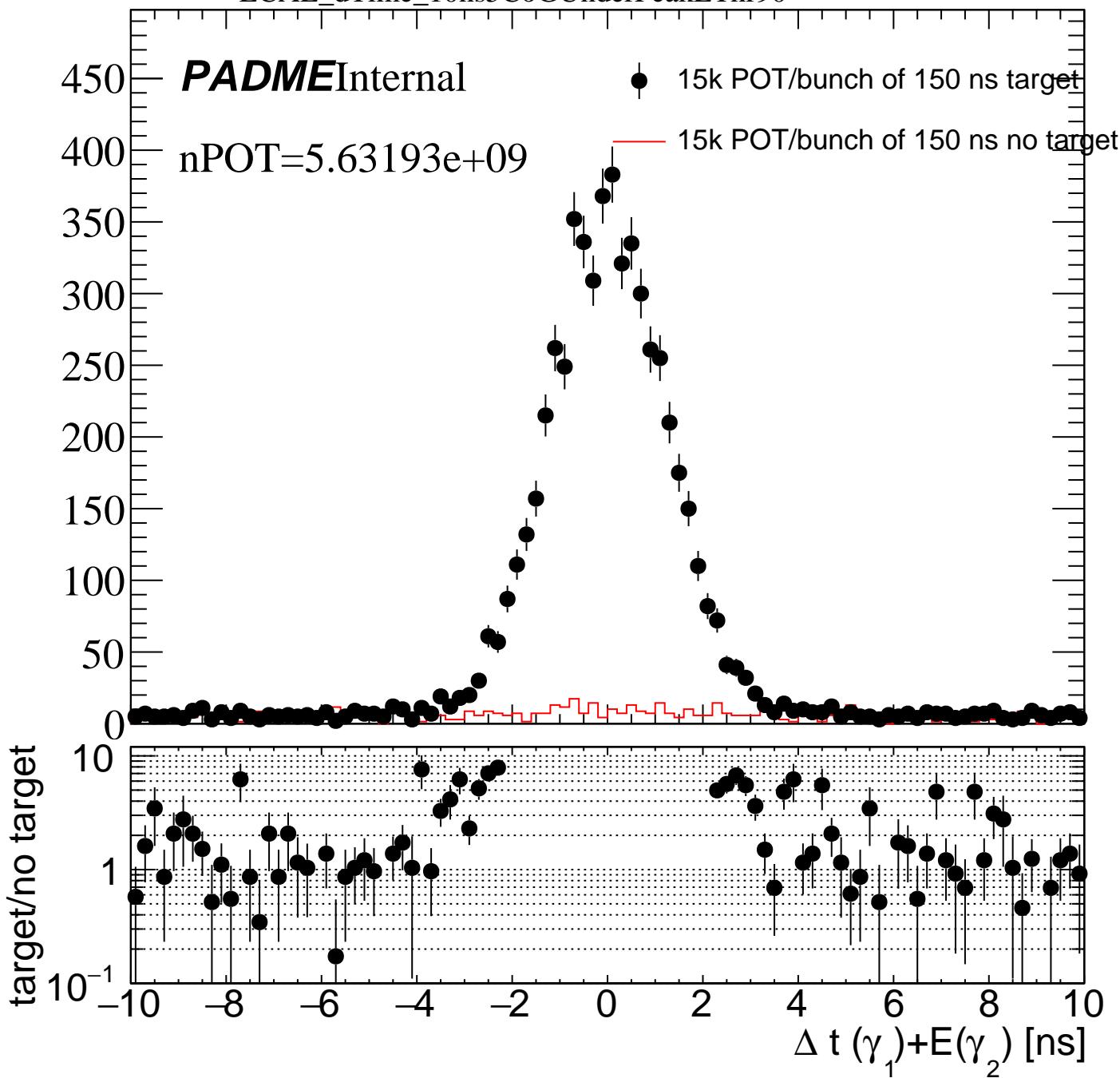
ECAL_dTime_10ns3CoGUnderPeakEThr90

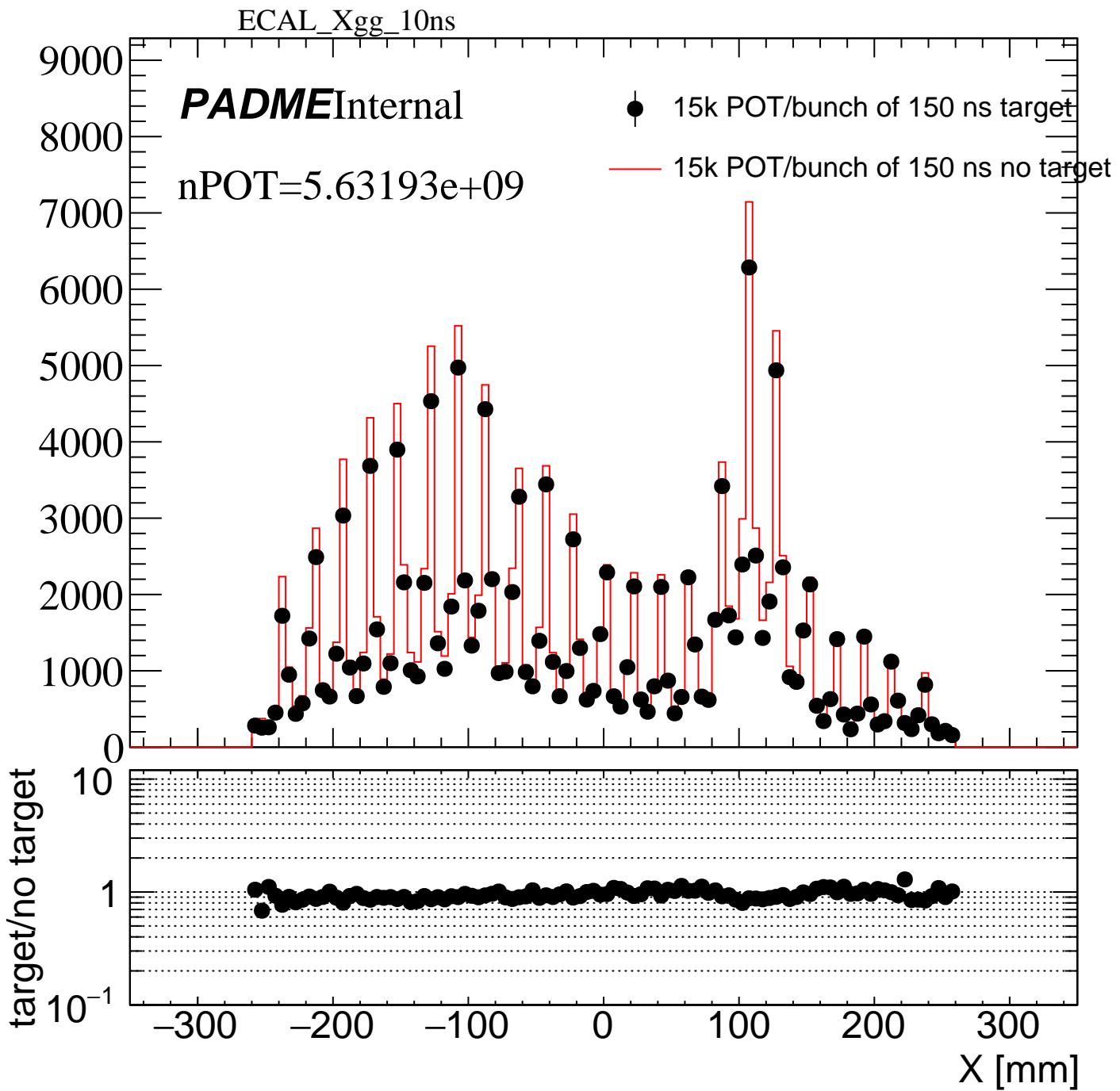


ECAL_dTime_10ns5CoG

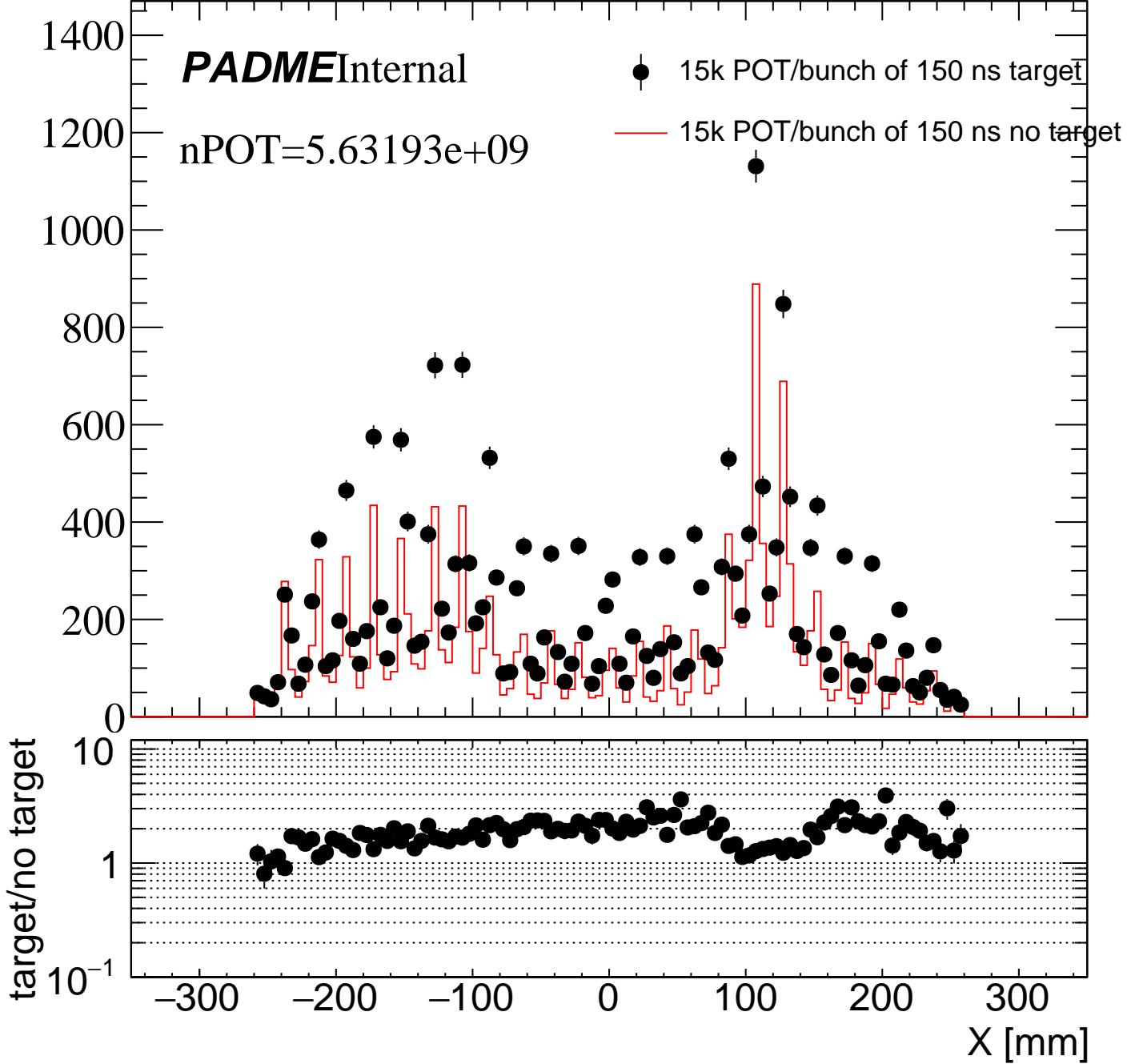


ECAL_dTime_10ns5CoGUnderPeakEThr90

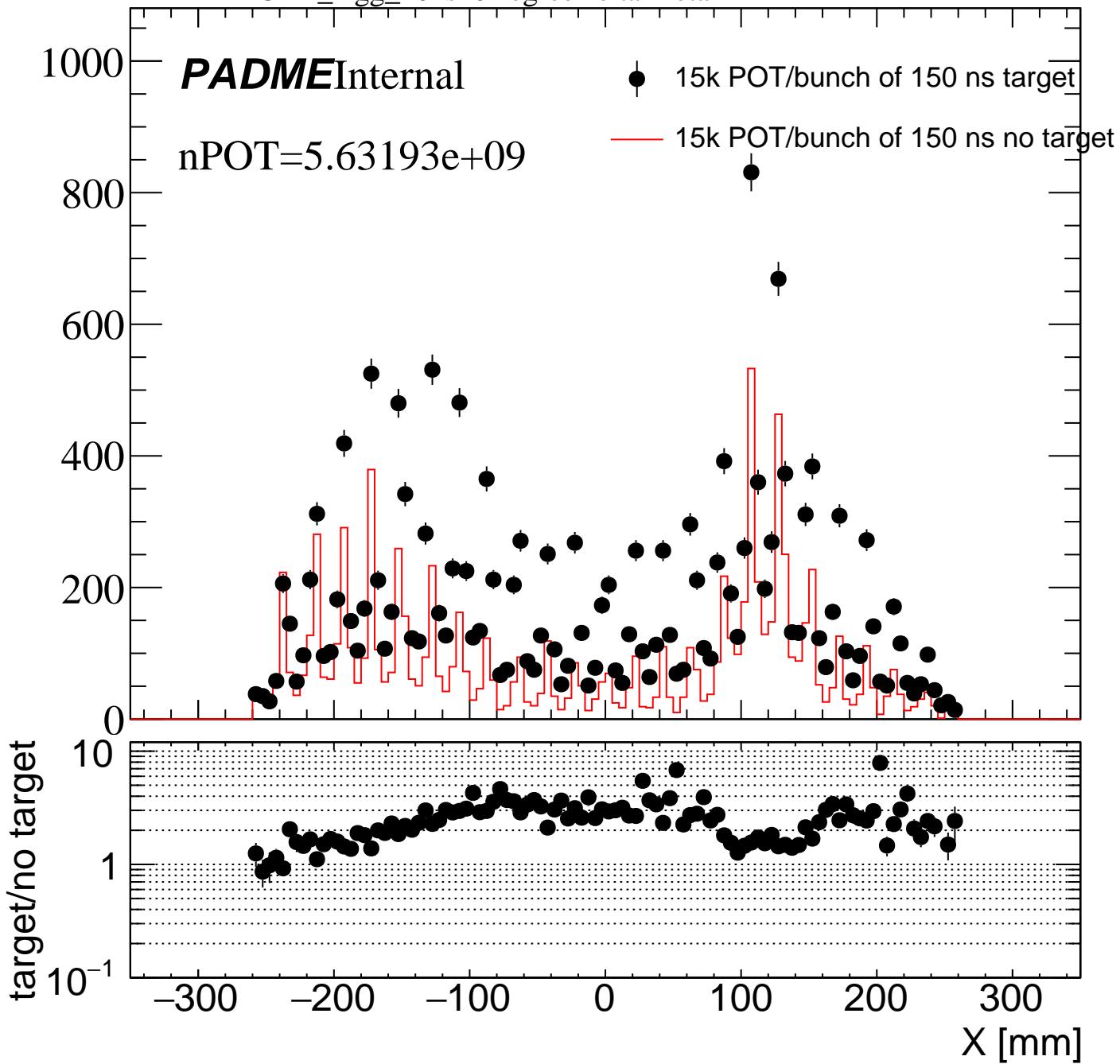




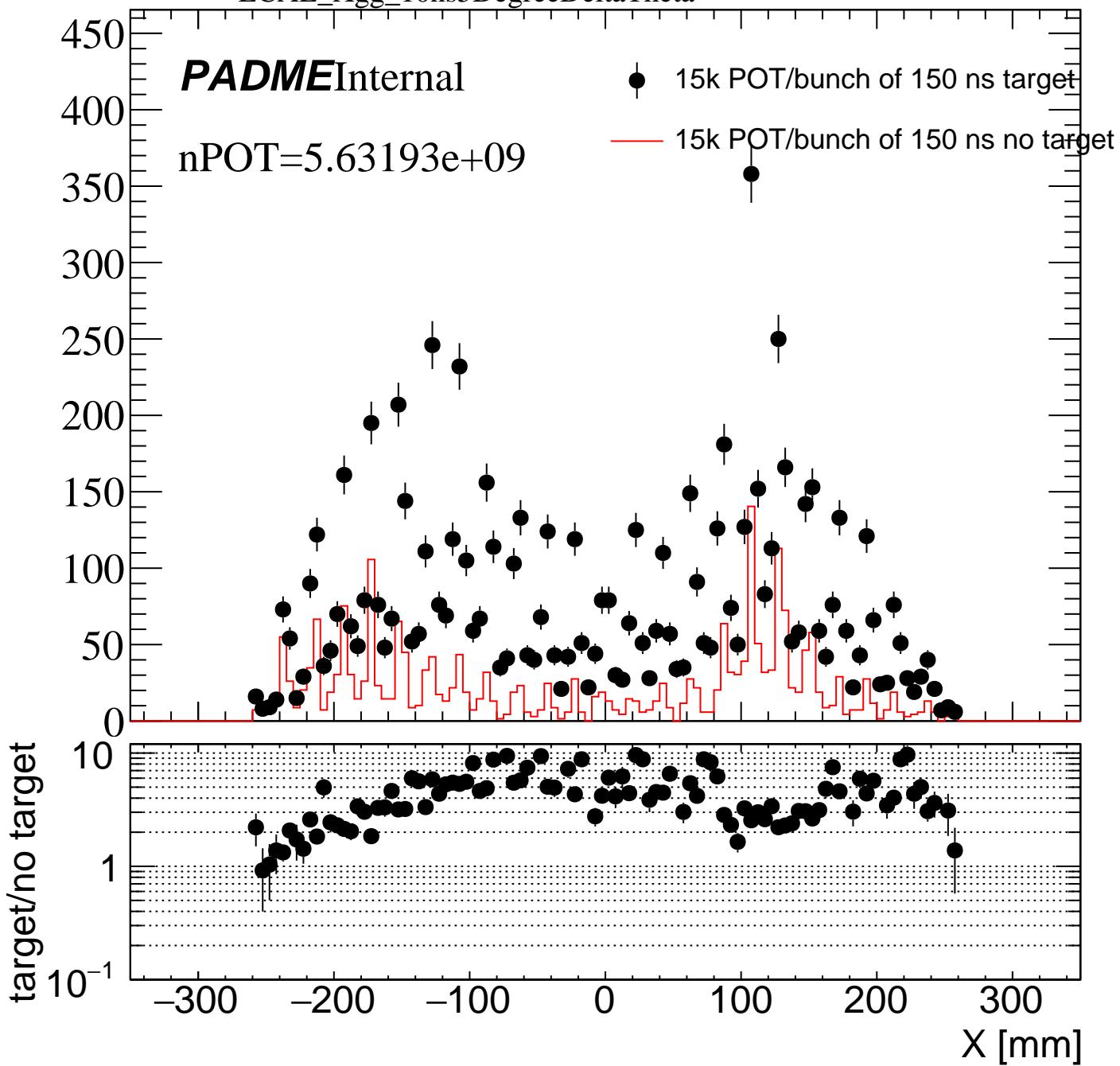
ECAL_Xgg_10ns20Degree



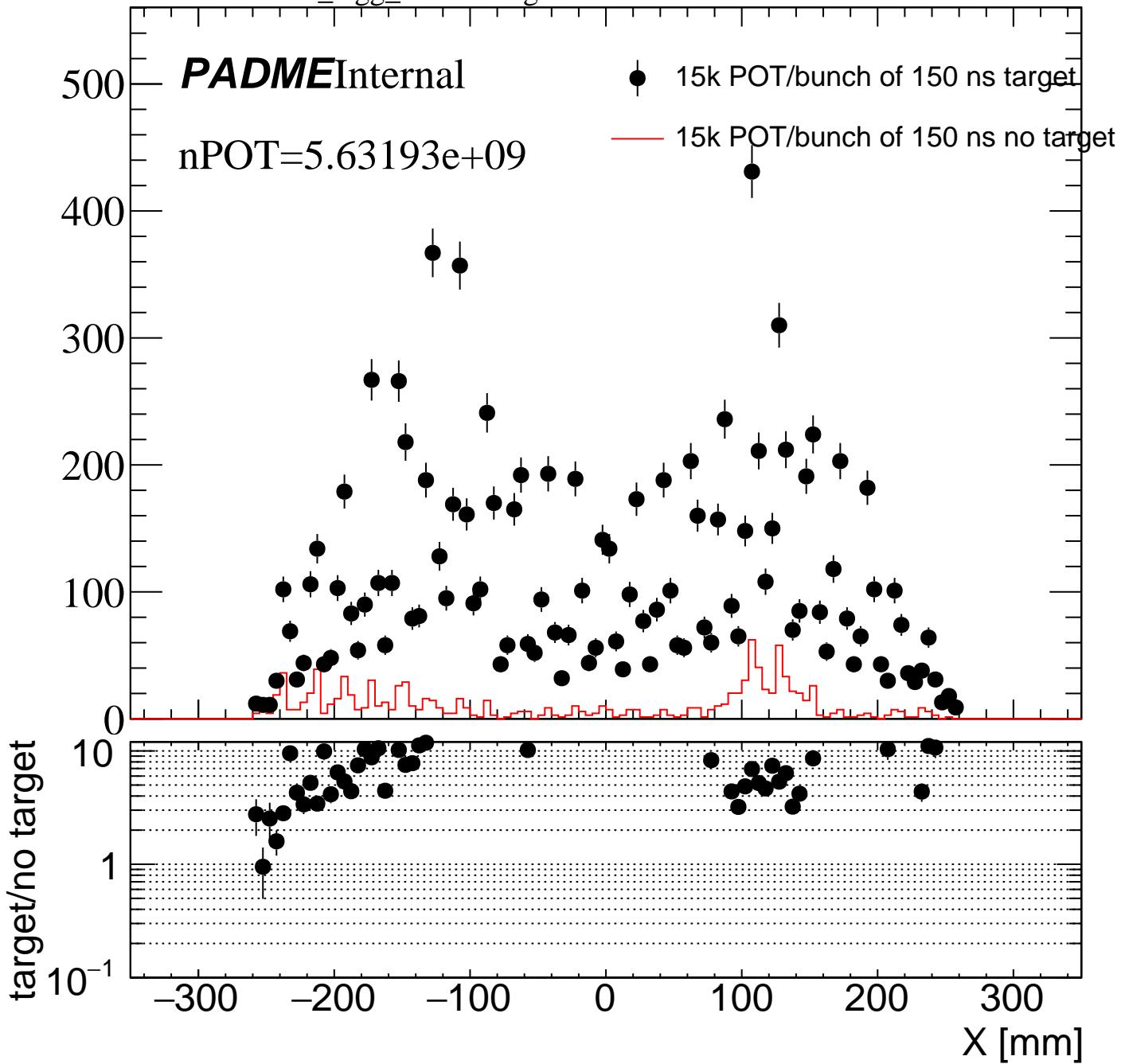
ECAL_Xgg_10ns20DegreeDeltaTheta



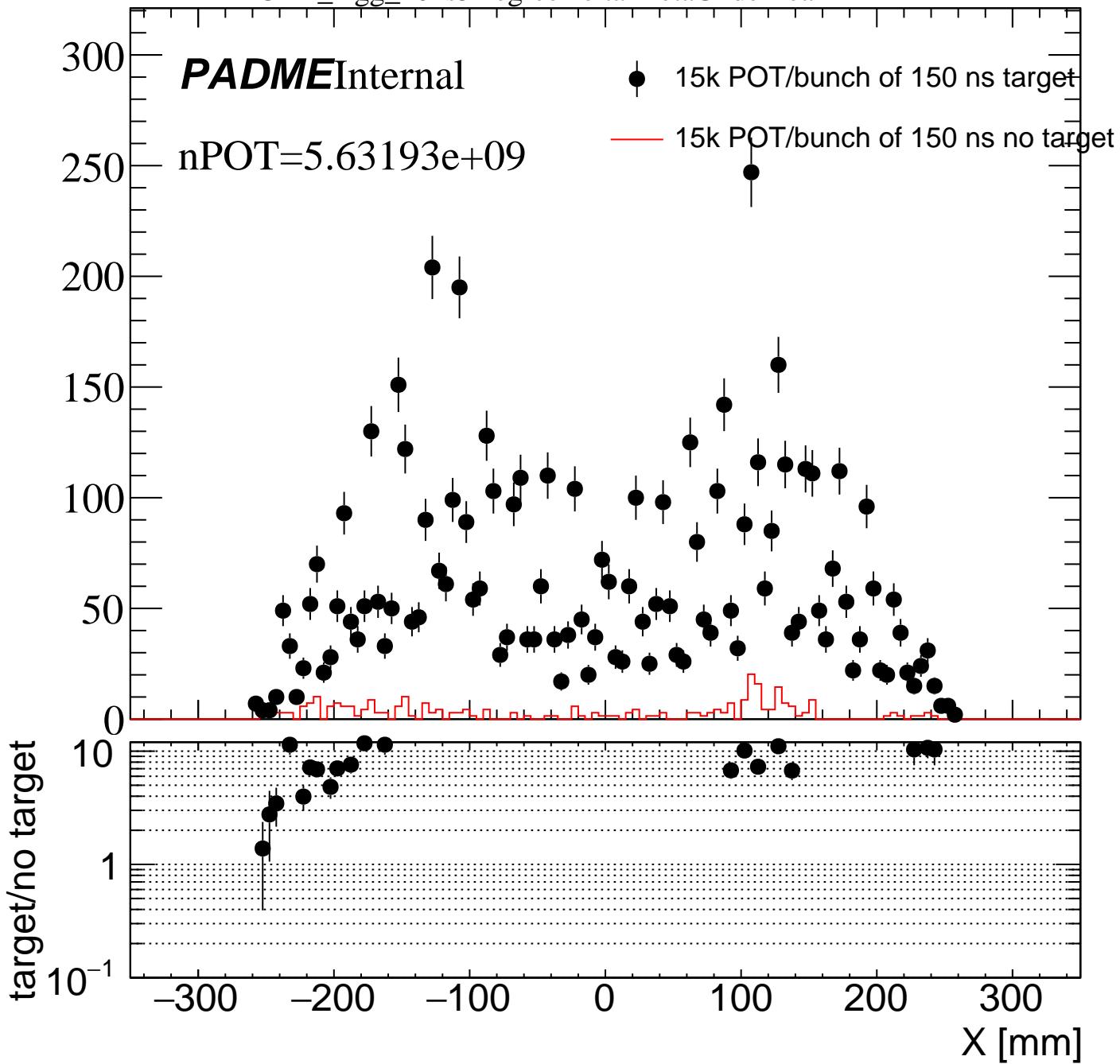
ECAL_Xgg_10ns5DegreeDeltaTheta



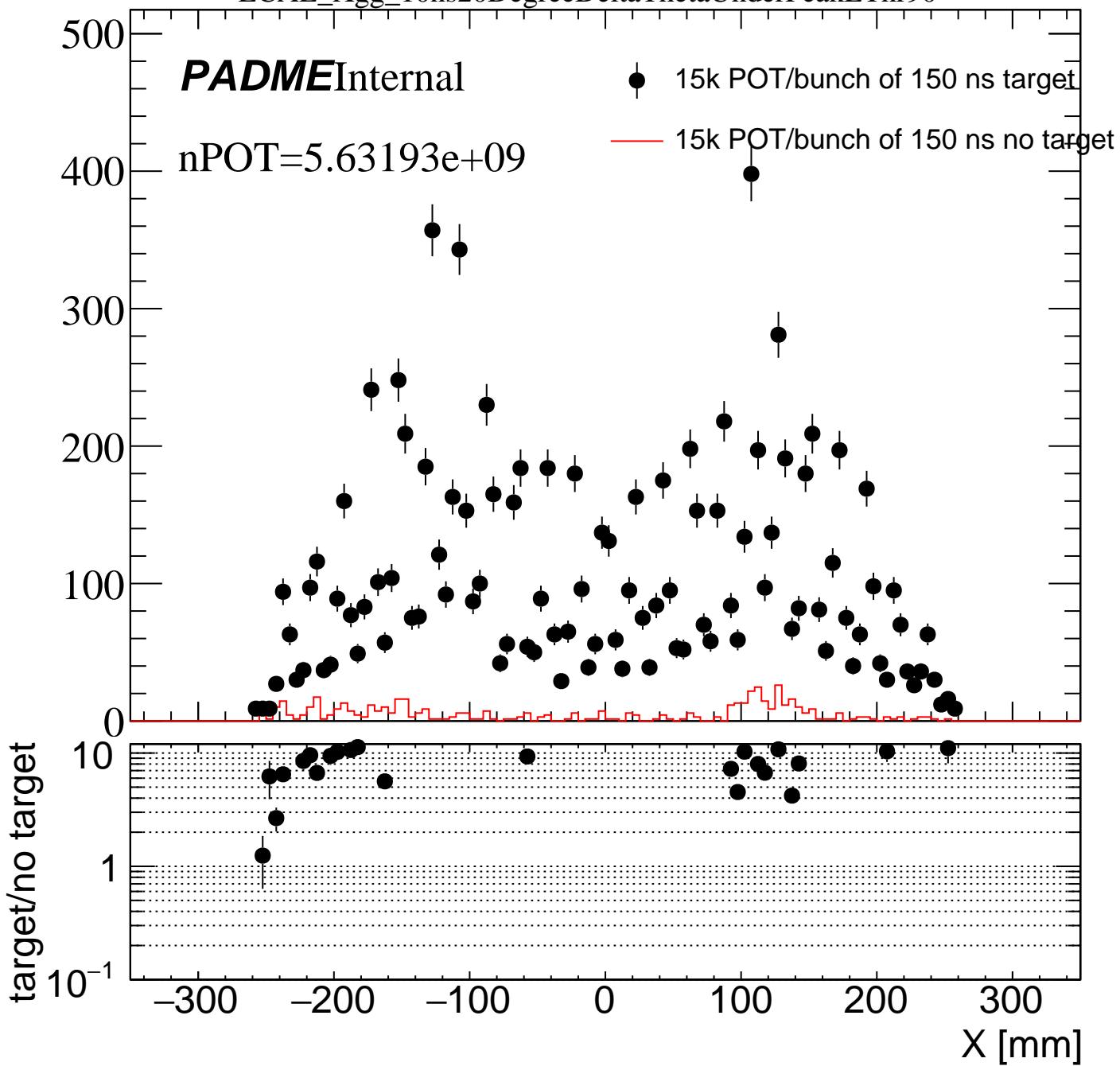
ECAL_Xgg_10ns20DegreeDeltaThetaUnderPeak



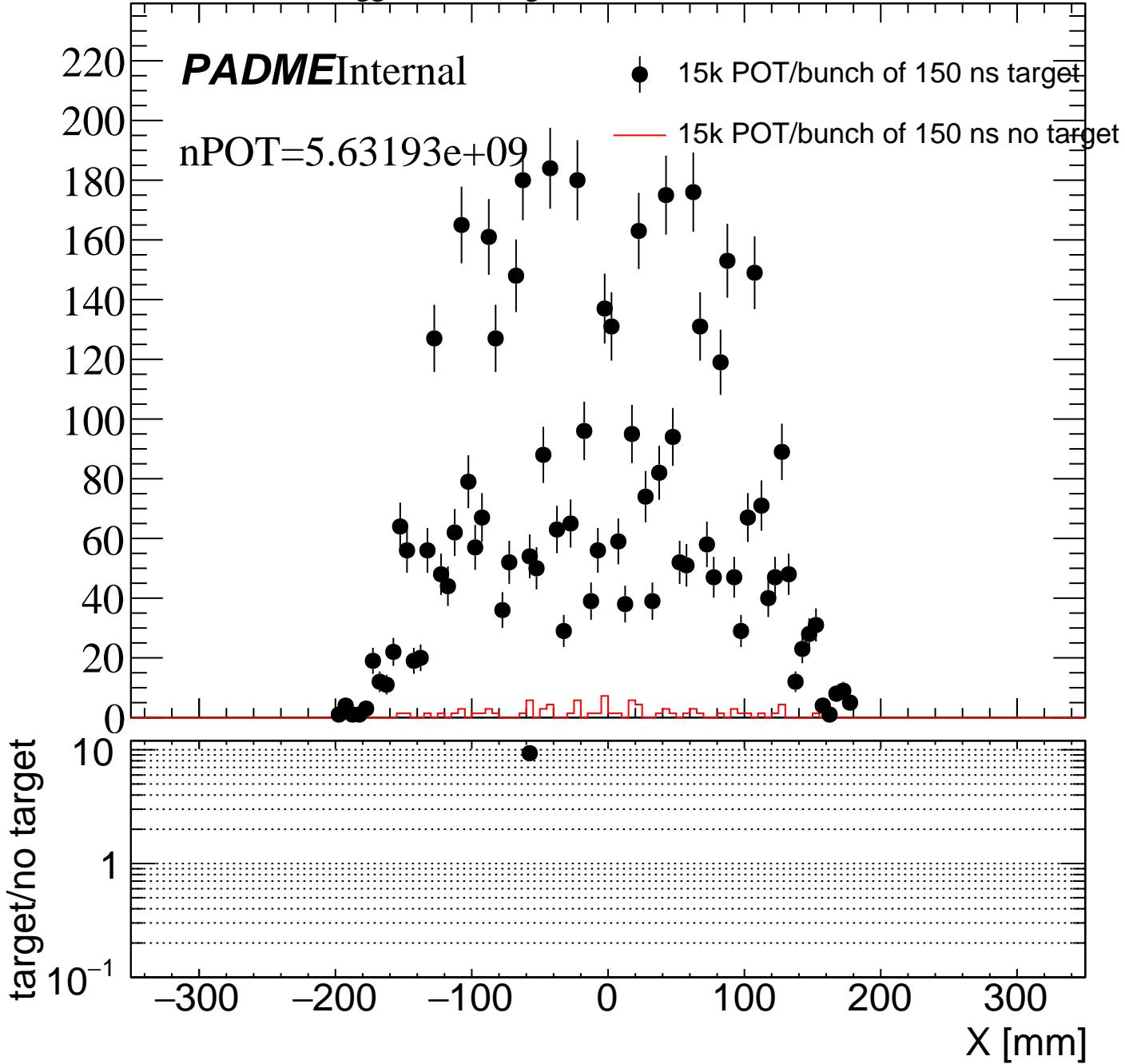
ECAL_Xgg_10ns5DegreeDeltaThetaUnderPeak



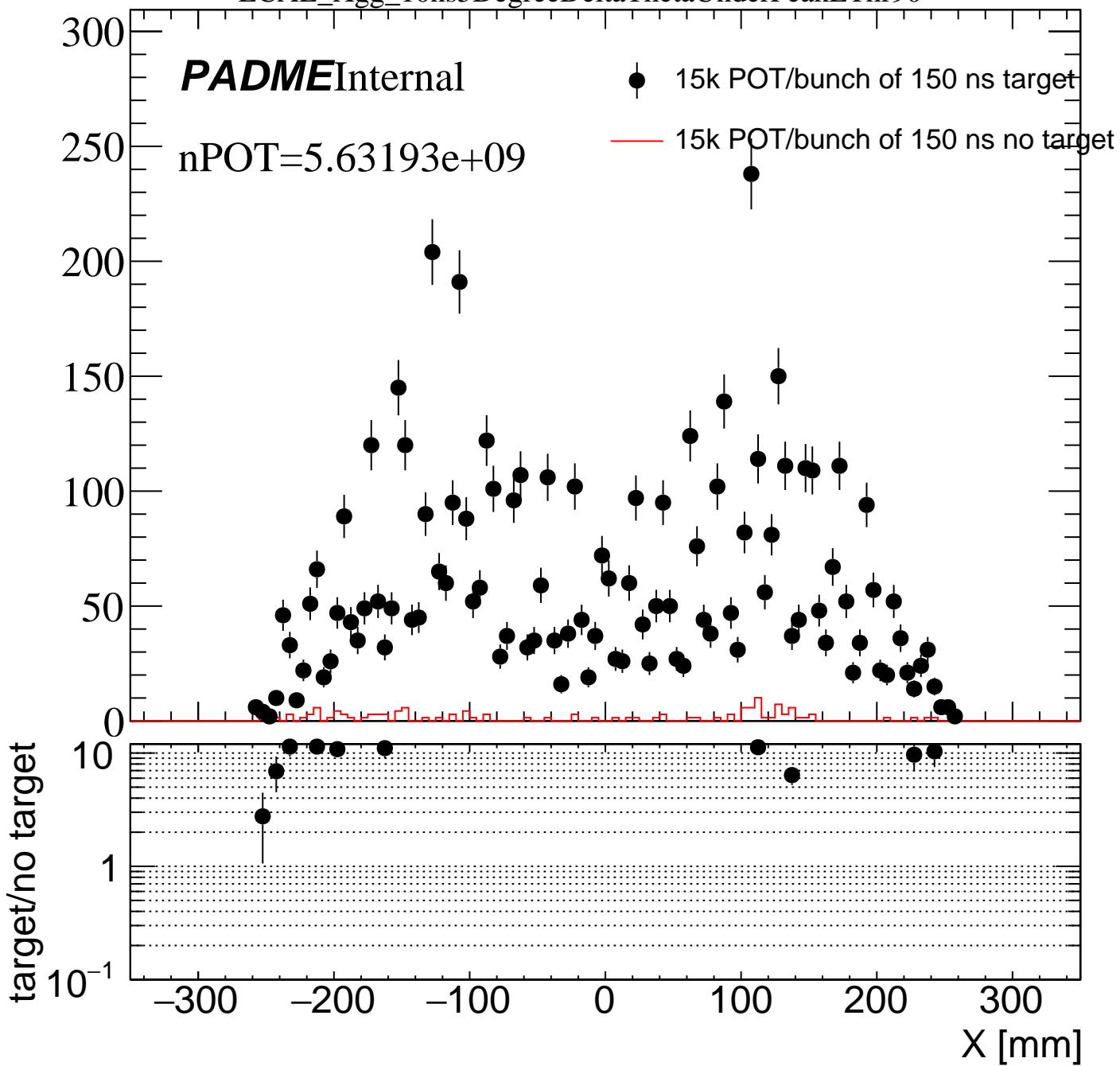
ECAL_Xgg_10ns20DegreeDeltaThetaUnderPeakEThr90



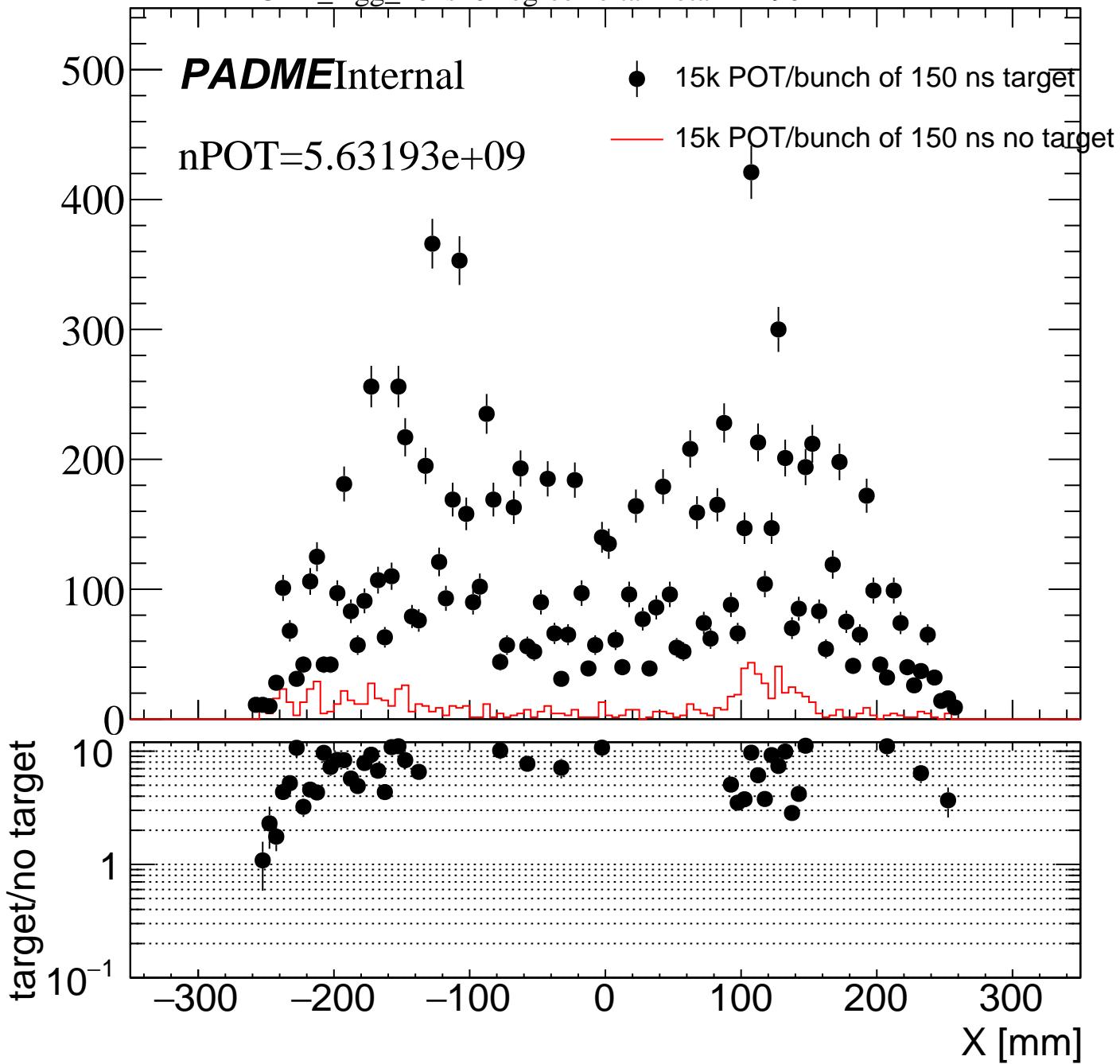
ECAL_Xgg_10ns20DegreeDeltaThetaUnderPeakEThr90_FRY



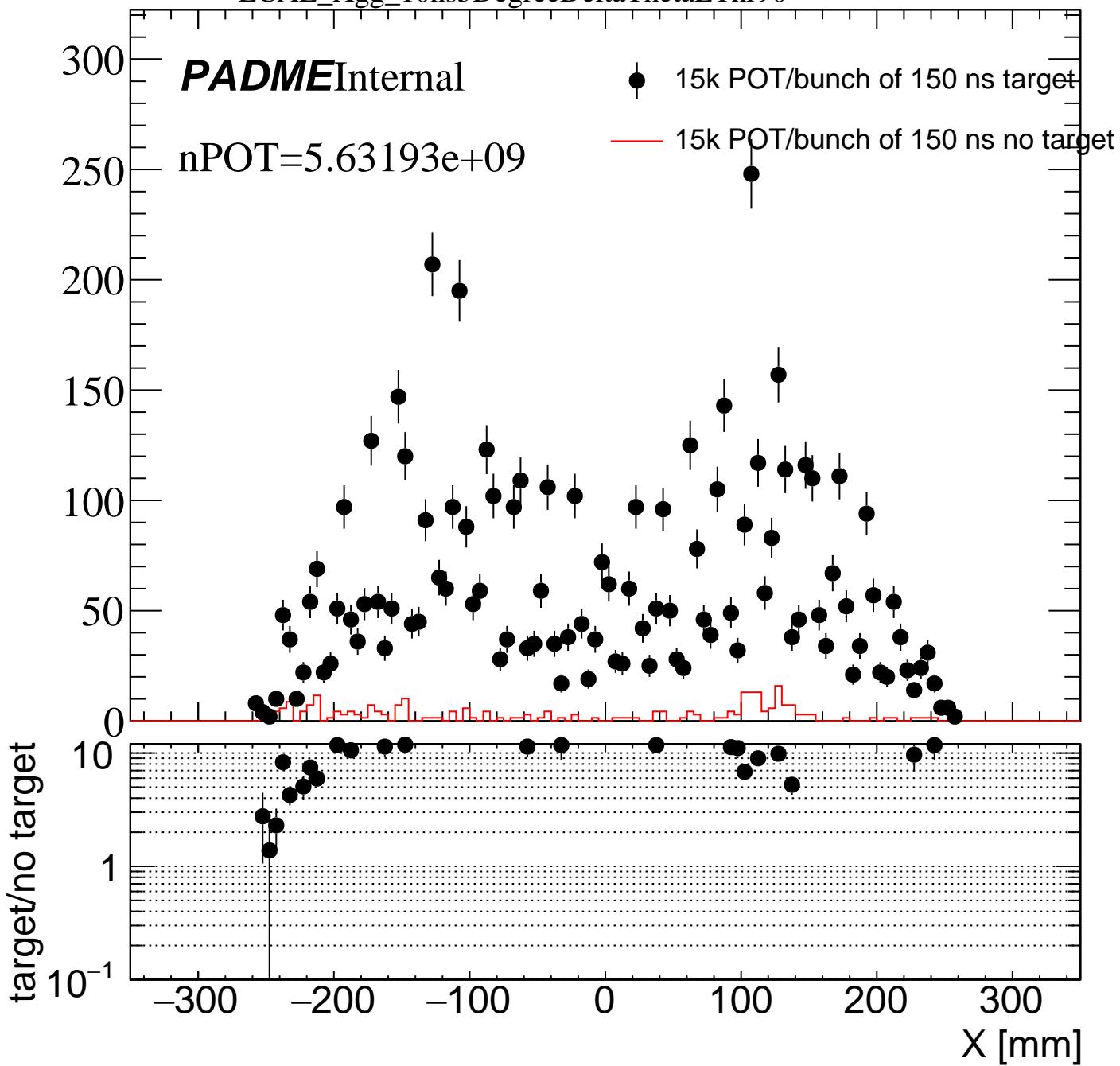
ECAL_Xgg_10ns5DegreeDeltaThetaUnderPeakEThr90

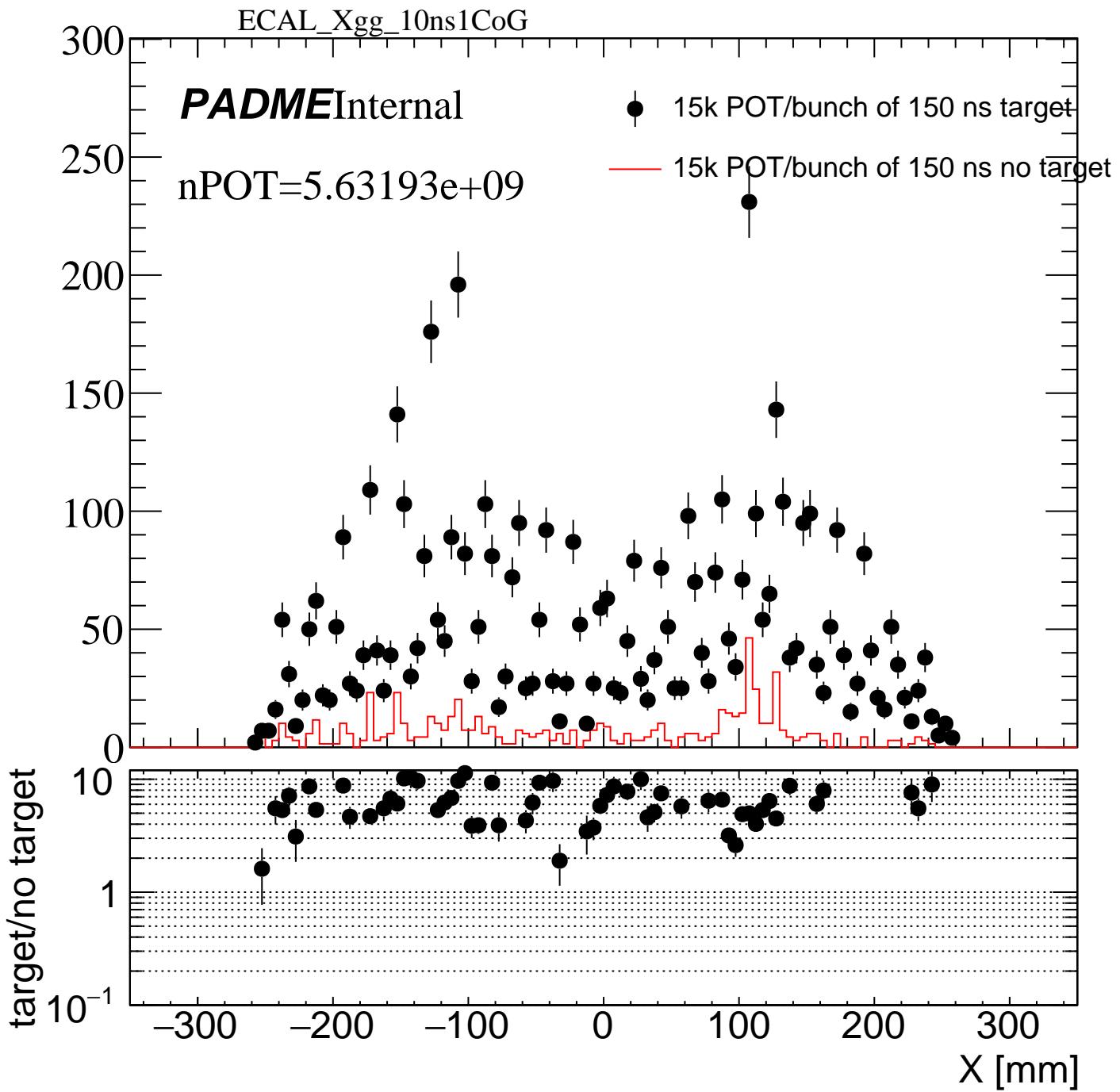


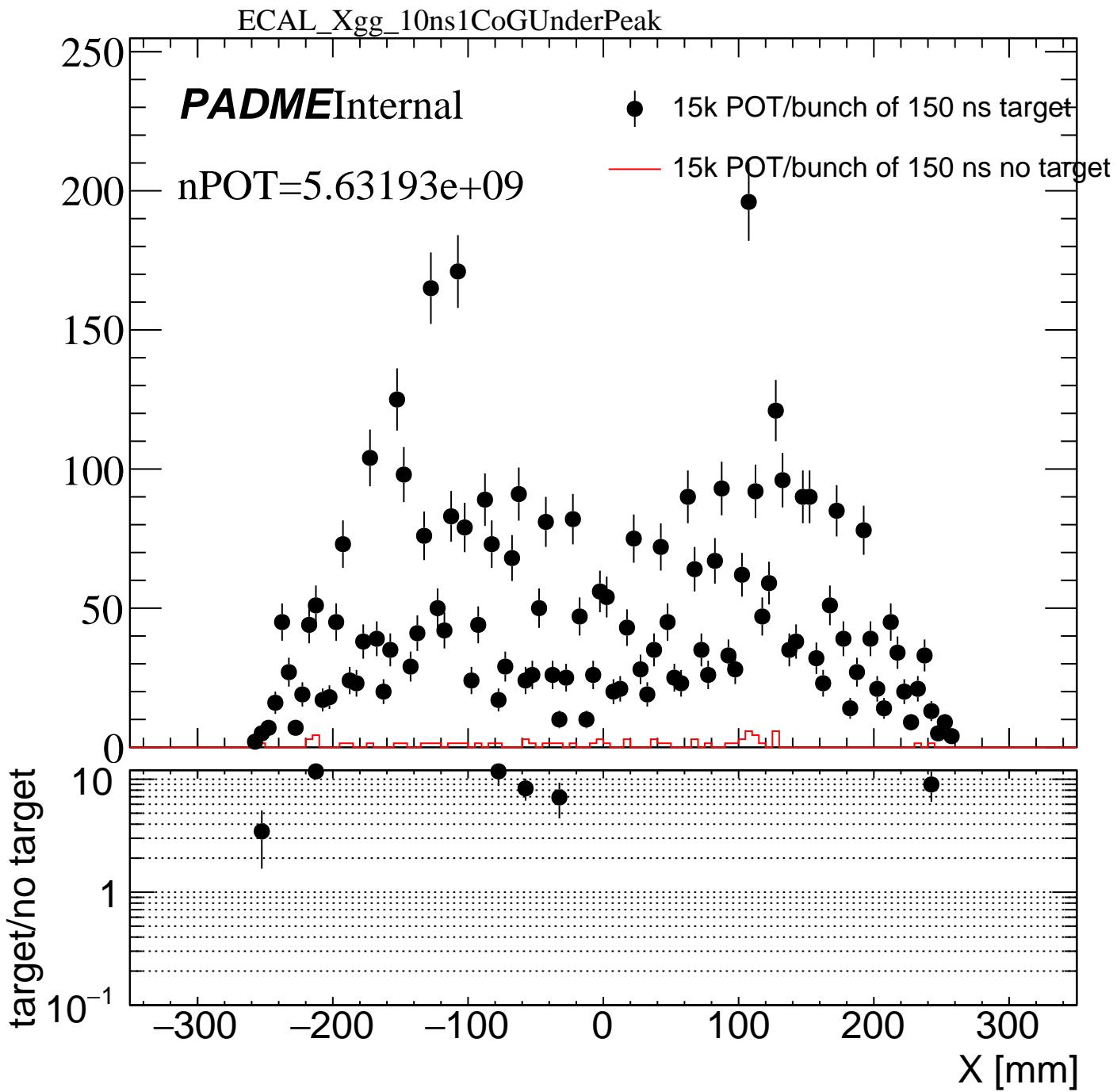
ECAL_Xgg_10ns20DegreeDeltaThetaEThr90



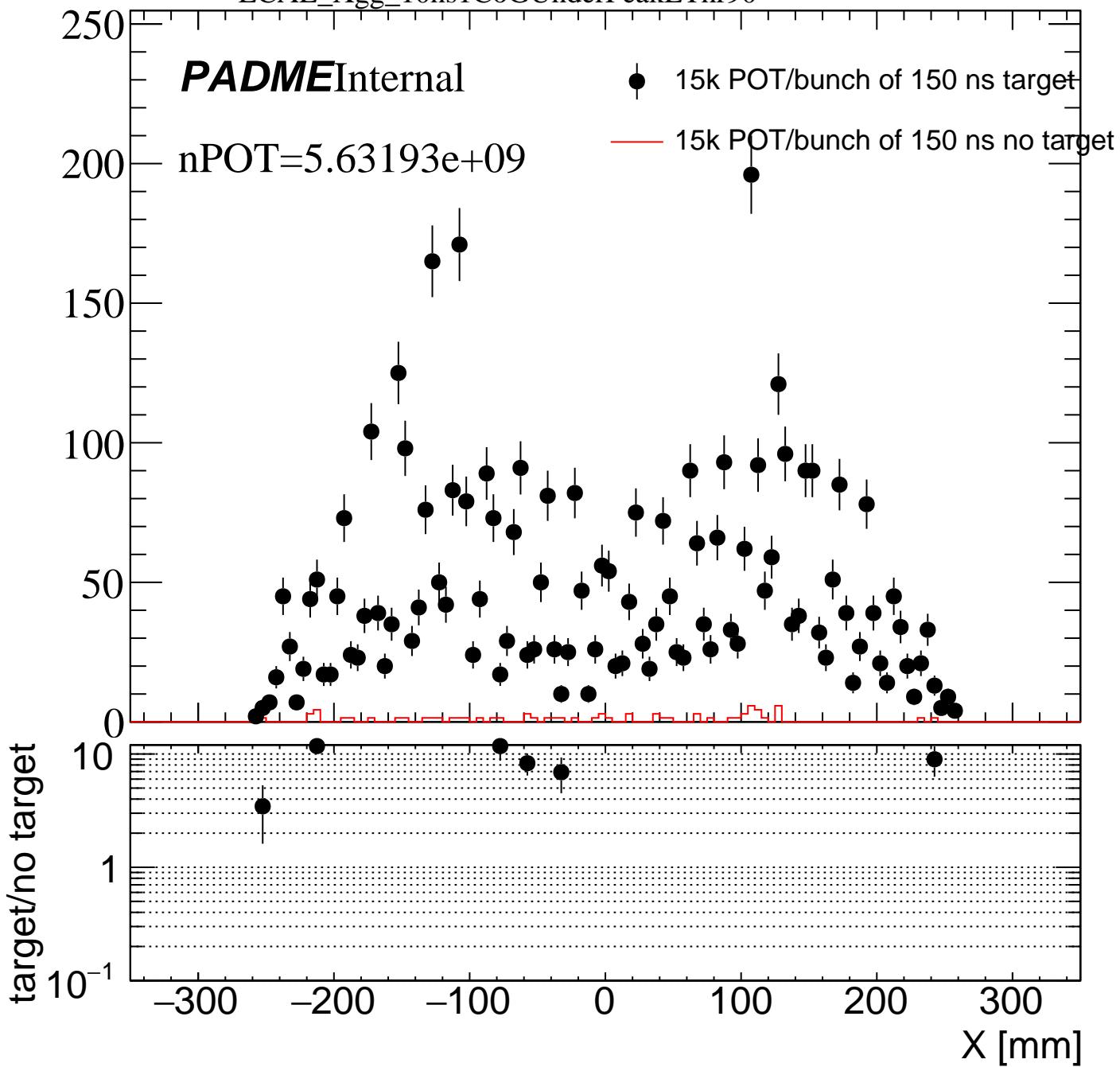
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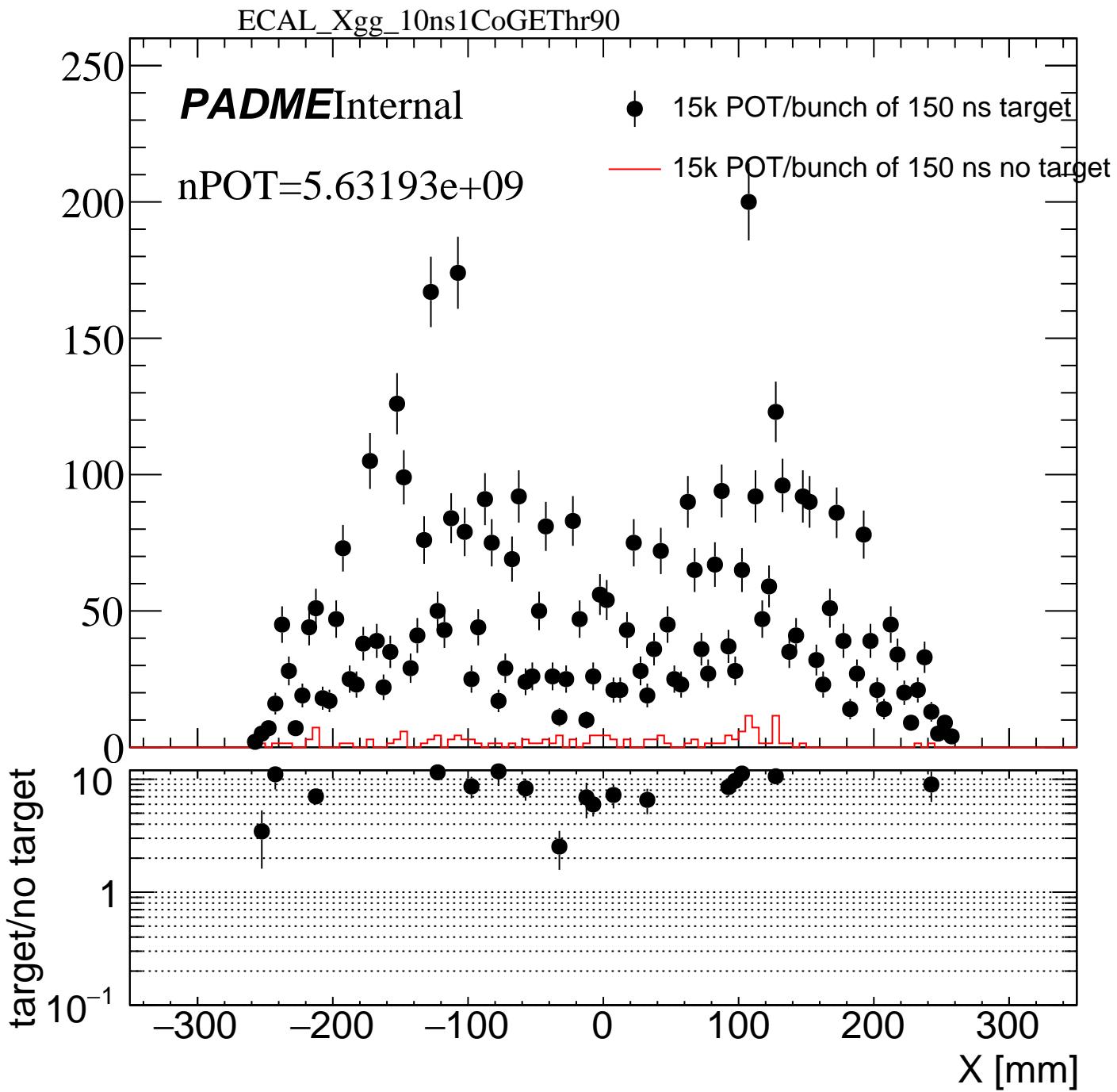


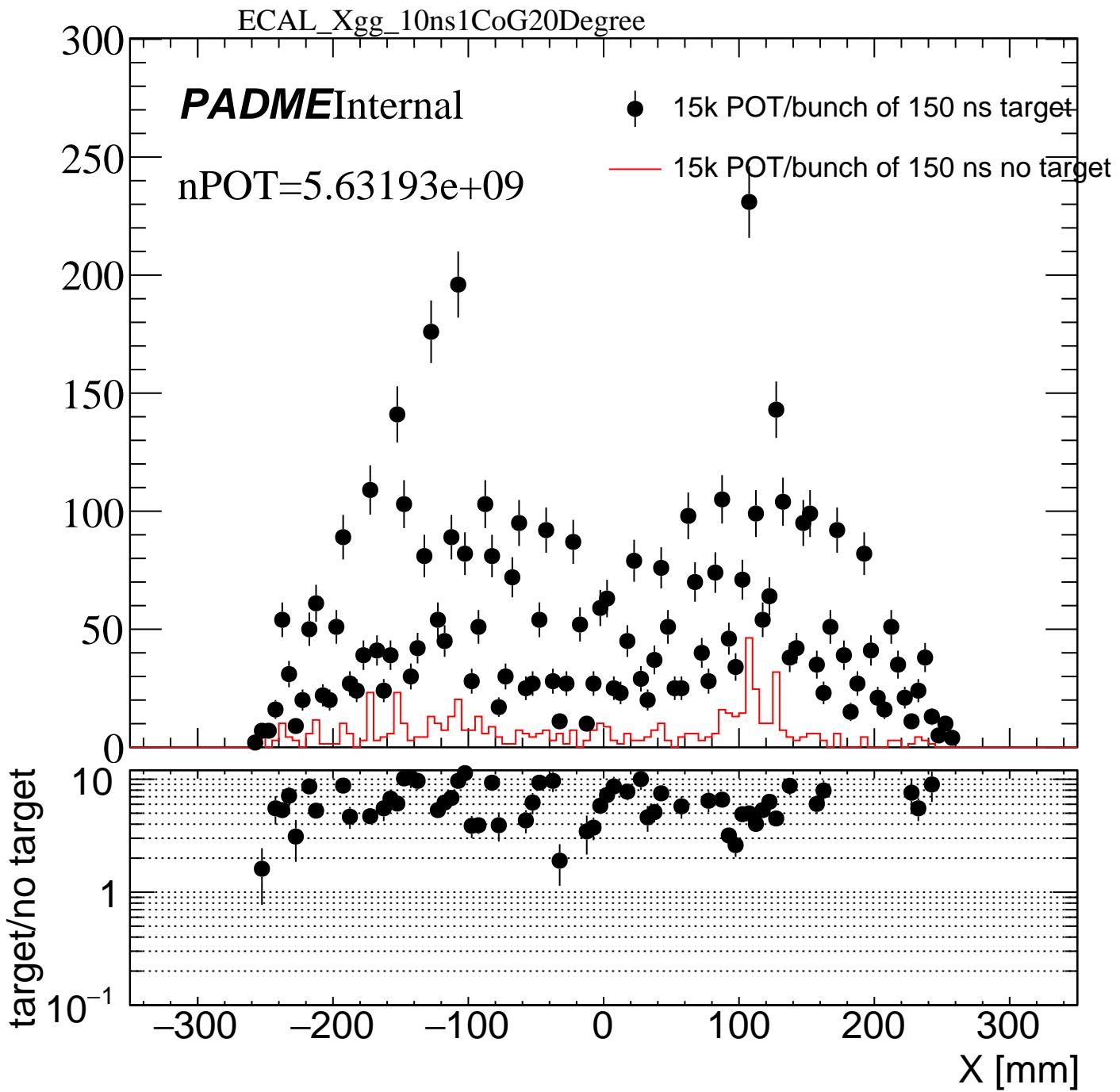




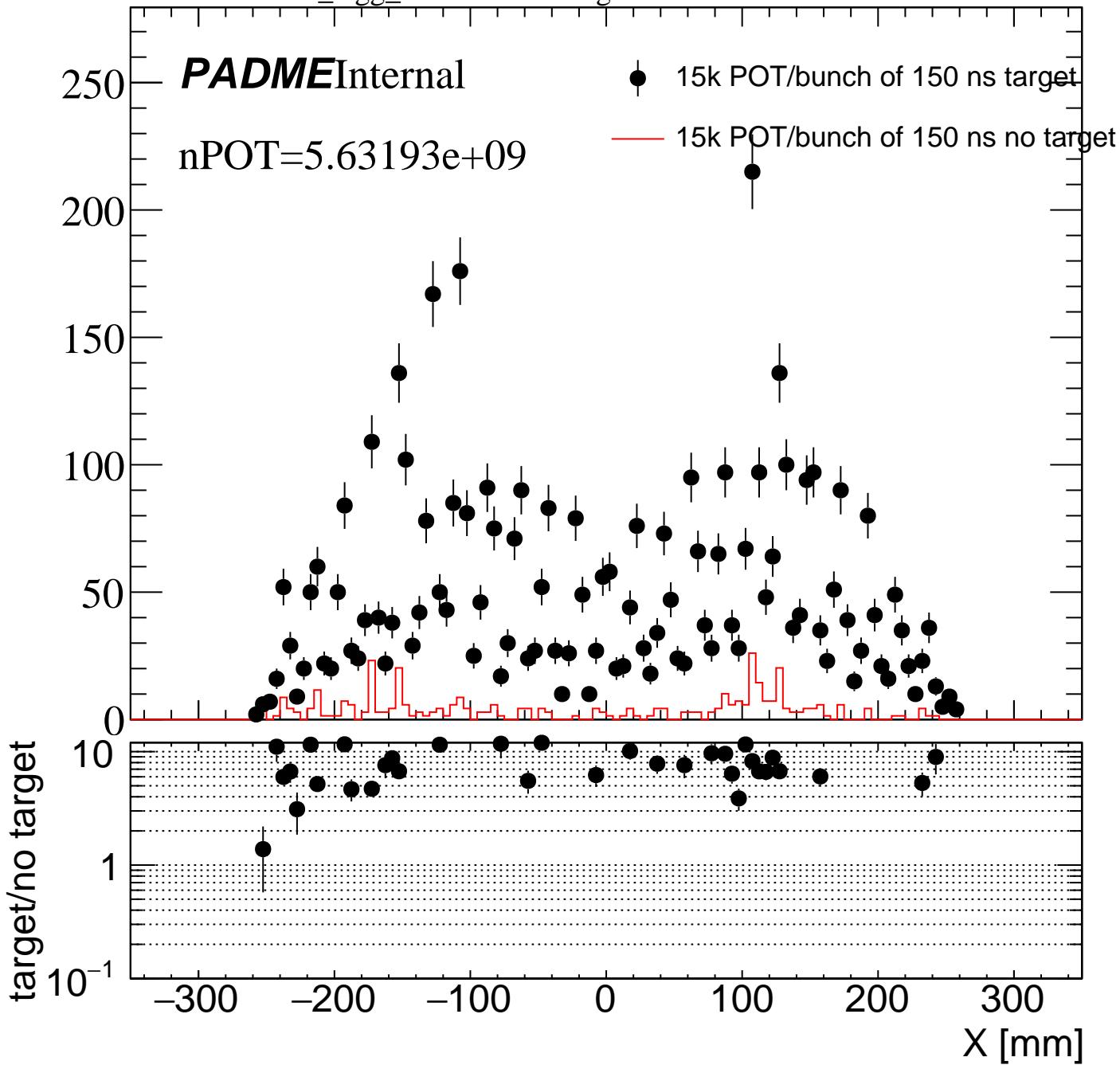
ECAL_Xgg_10ns1CoGUnderPeakEThr90



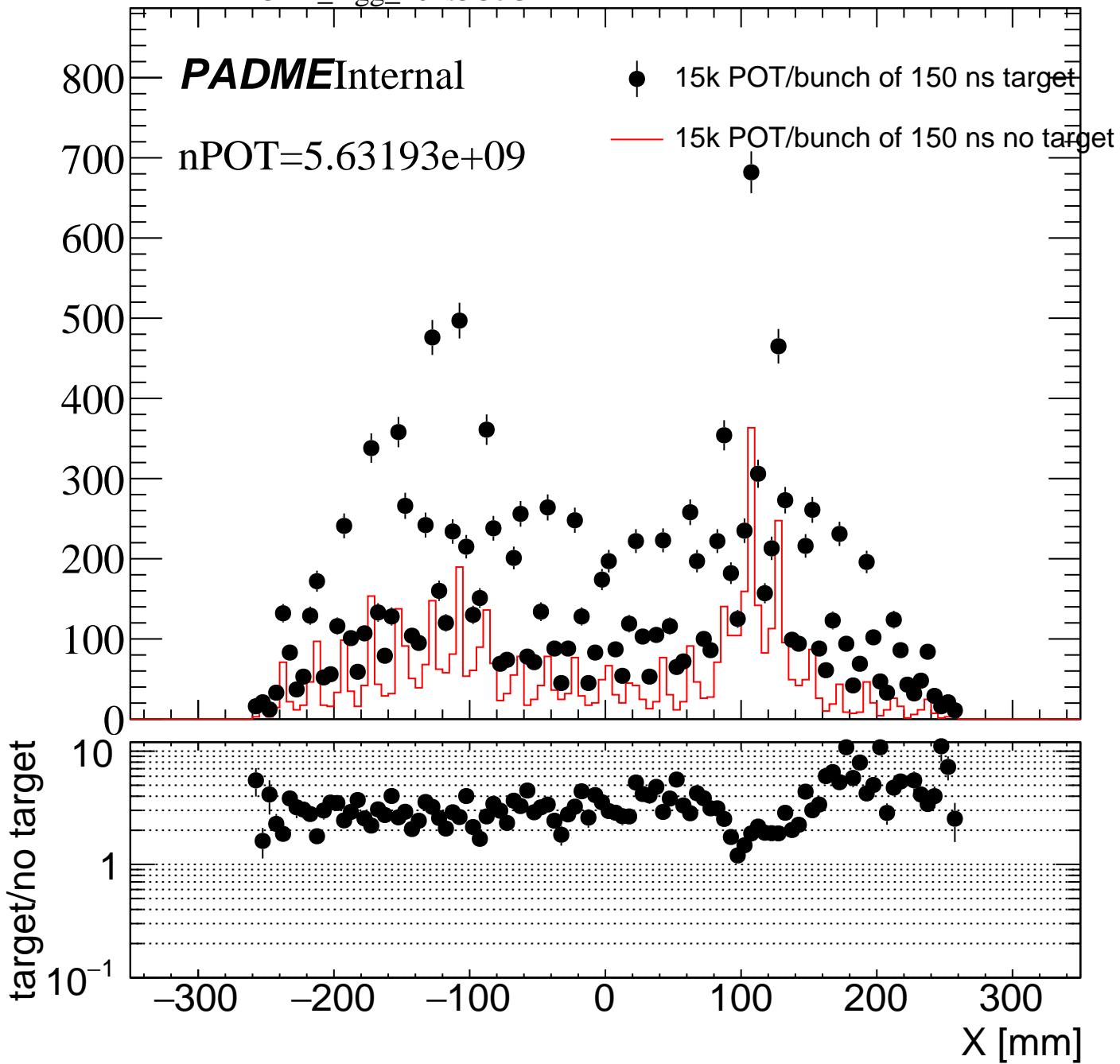


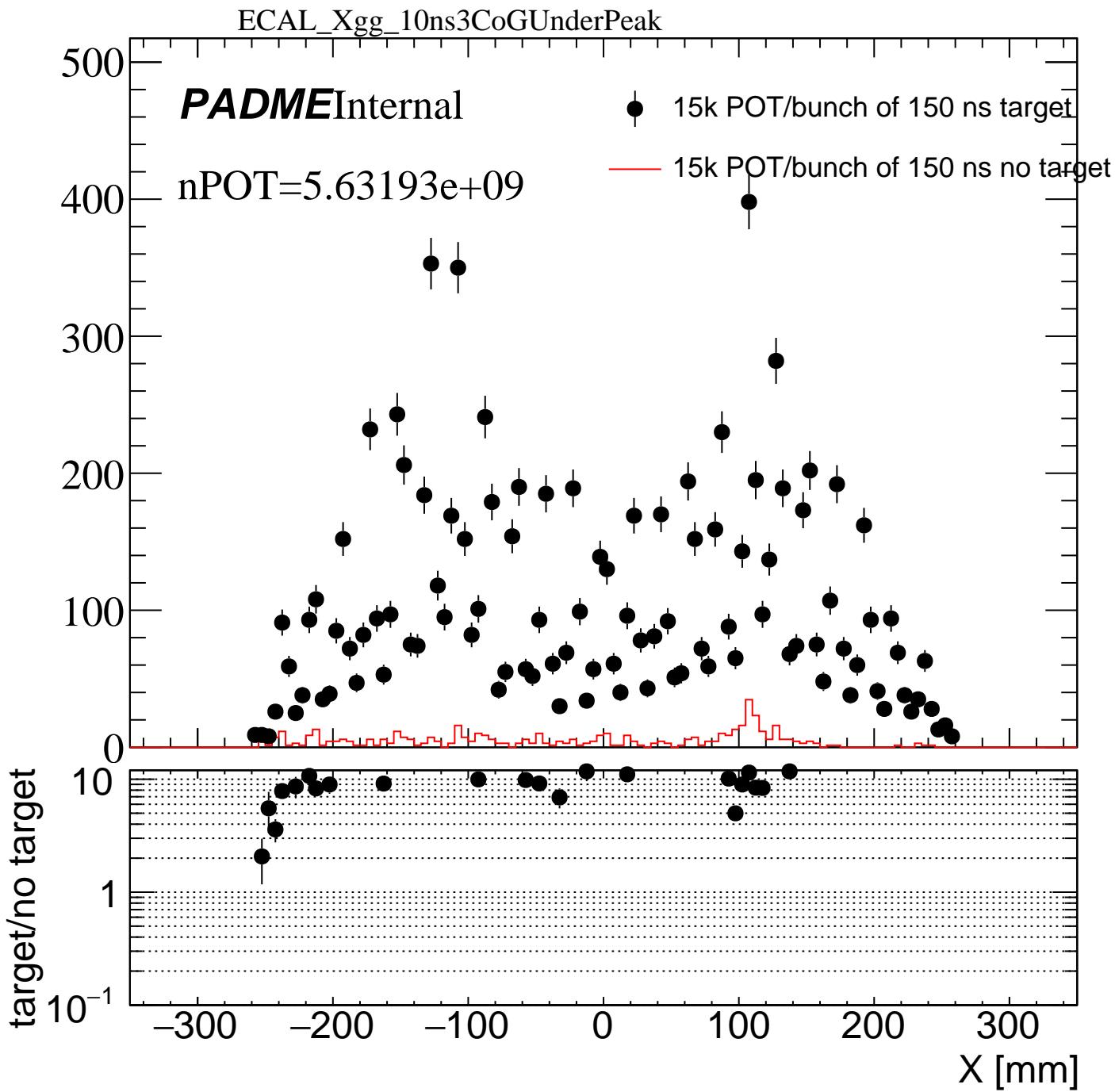


ECAL_Xgg_10ns1CoG20DegreeDeltaTheta

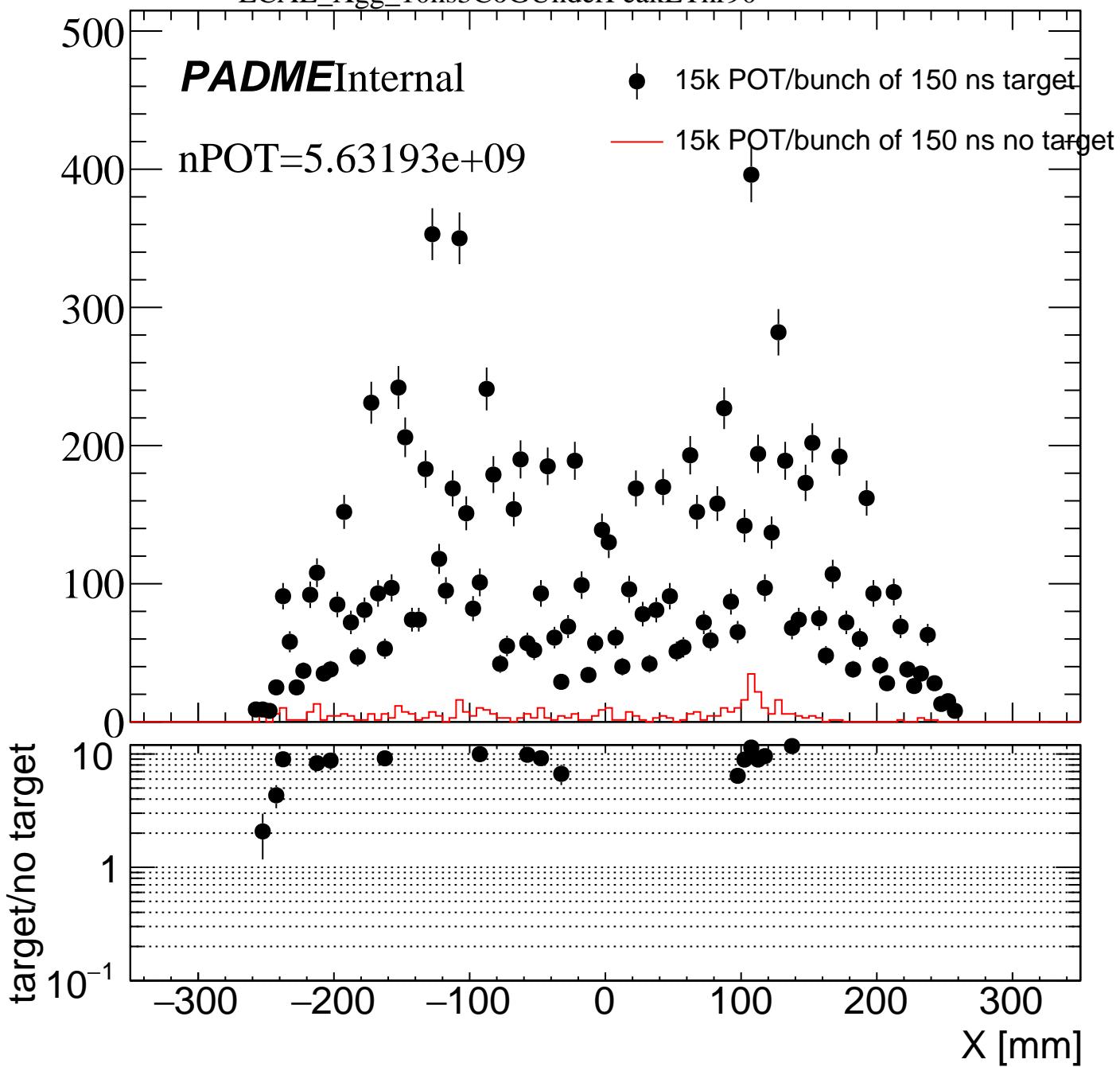


ECAL_Xgg_10ns3CoG

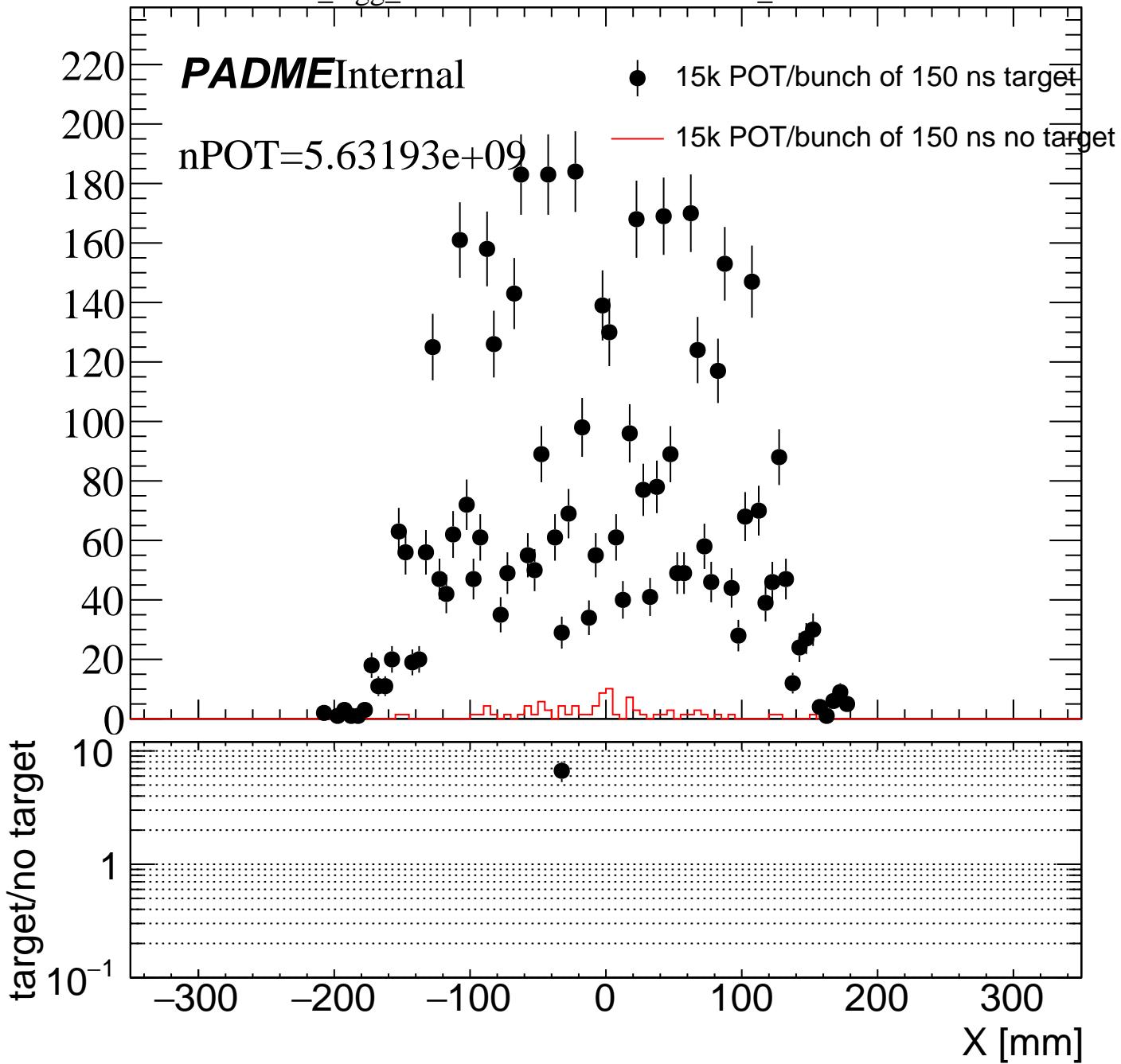




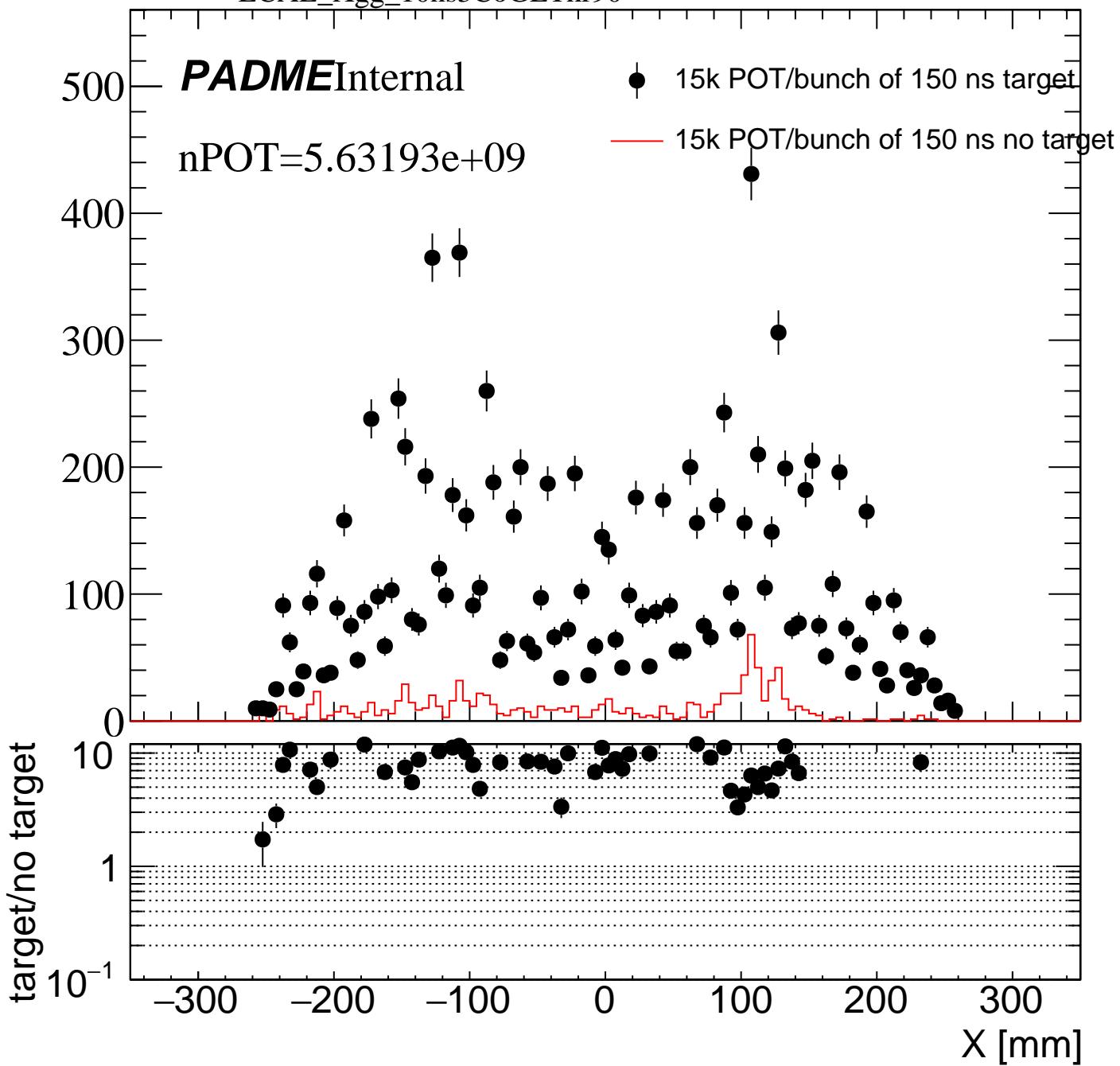
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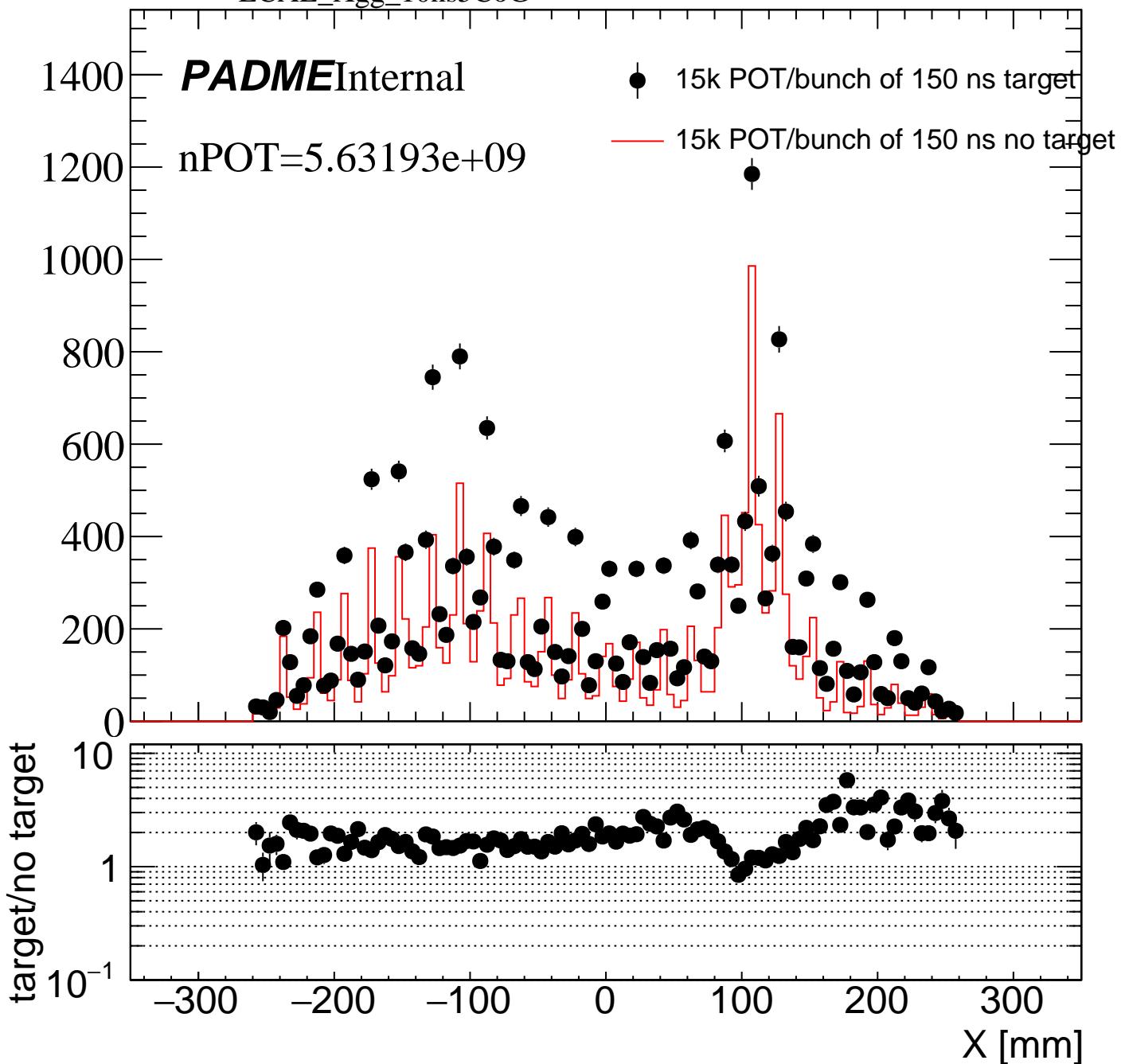
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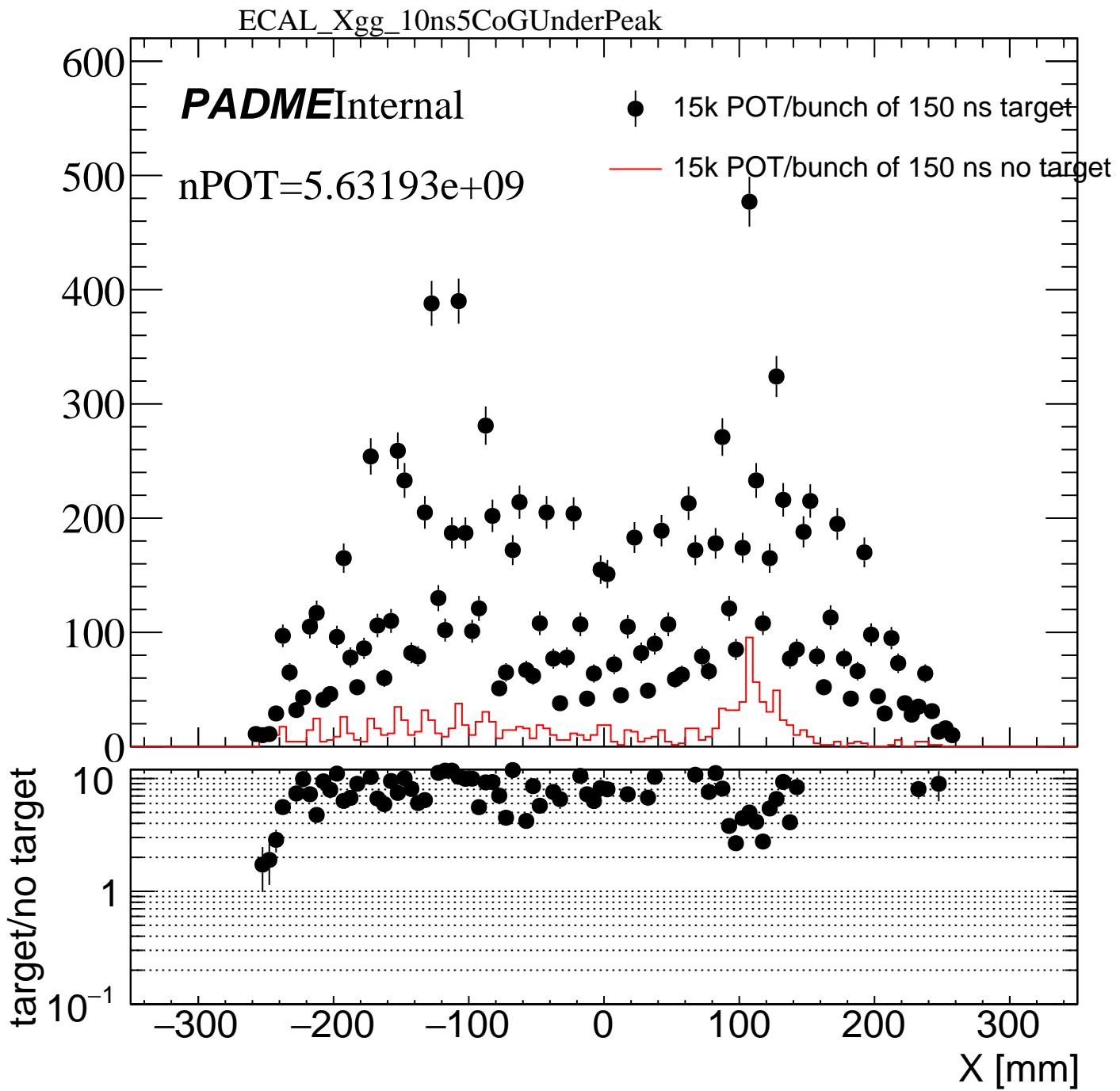


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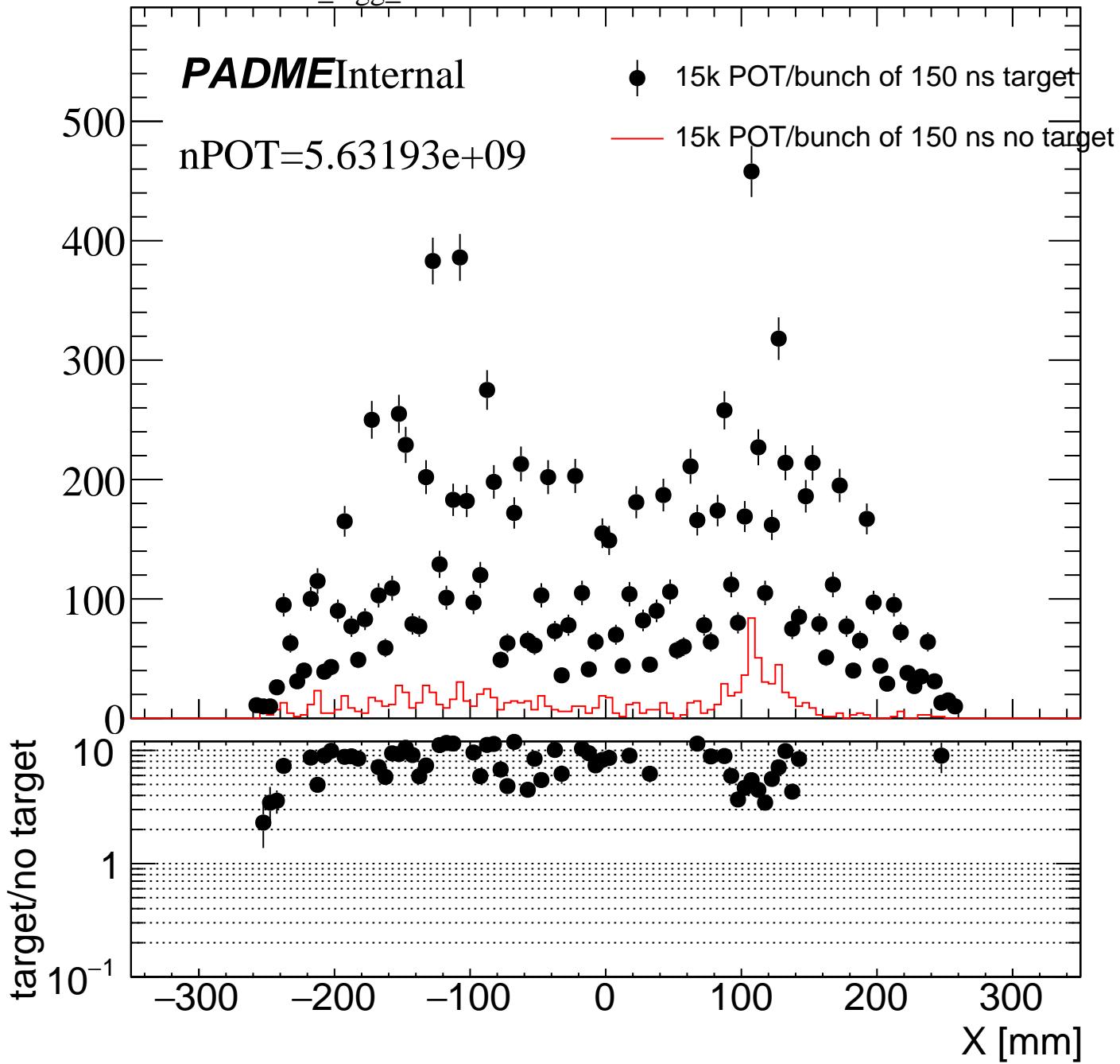


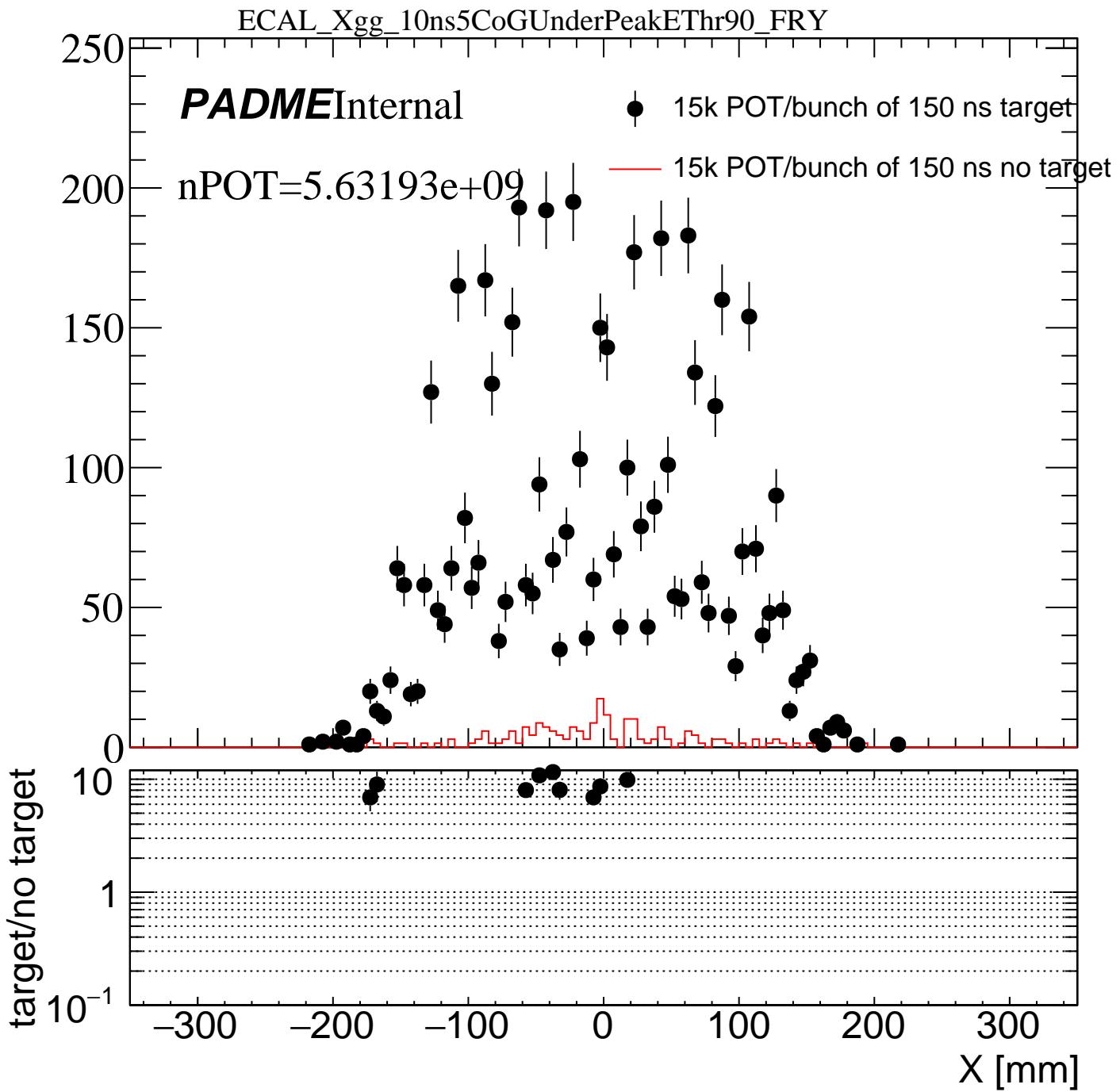
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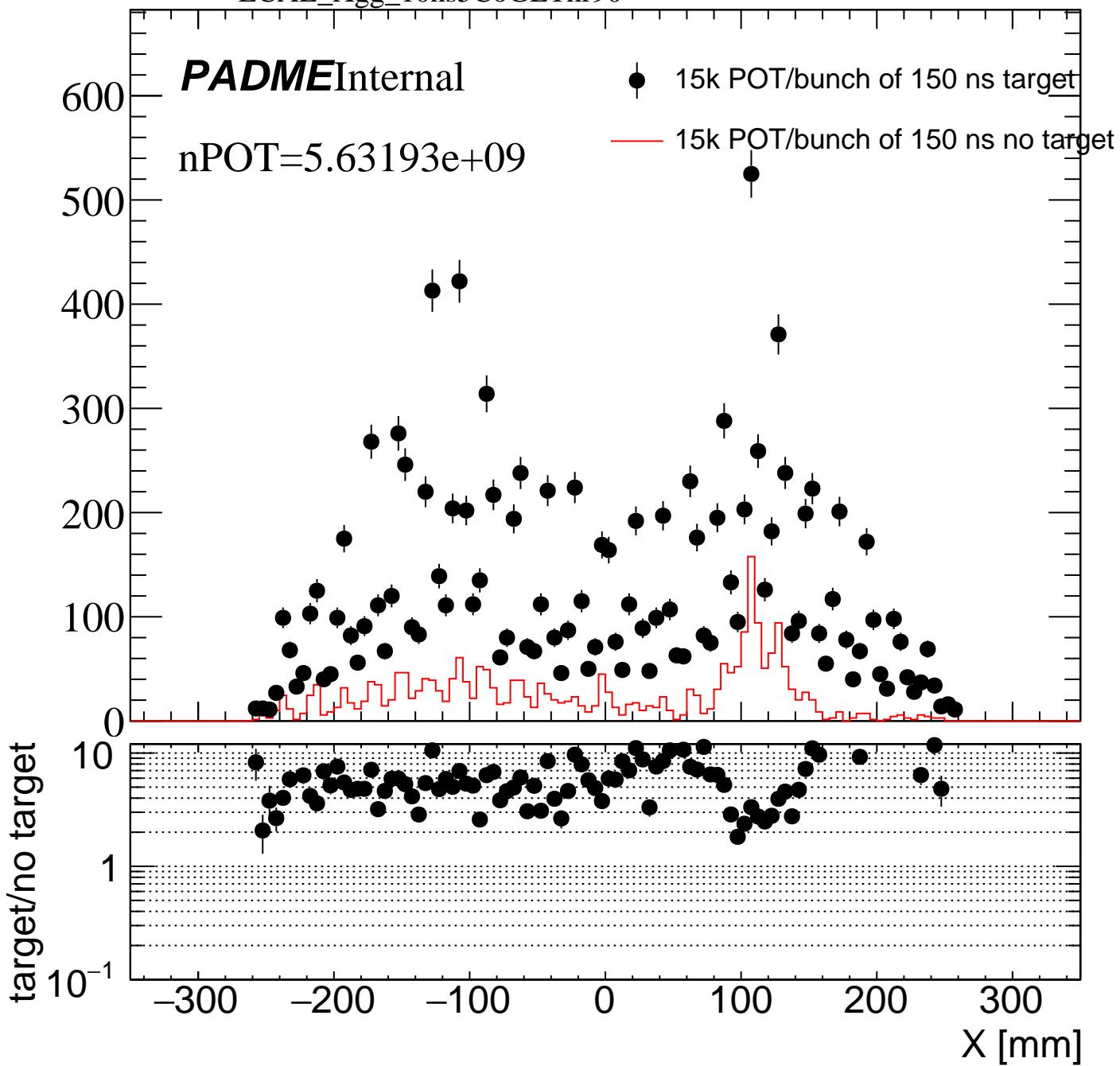


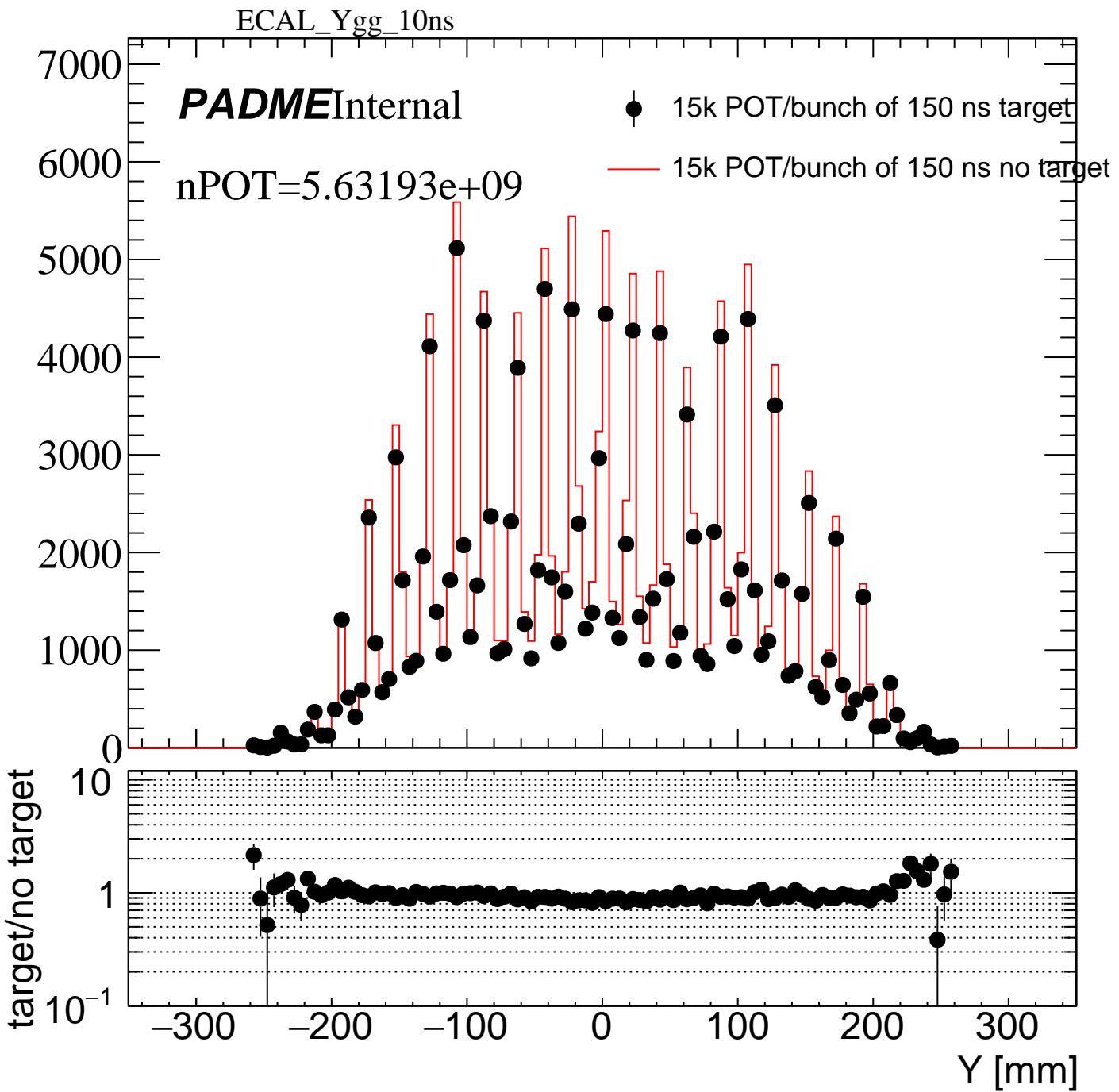
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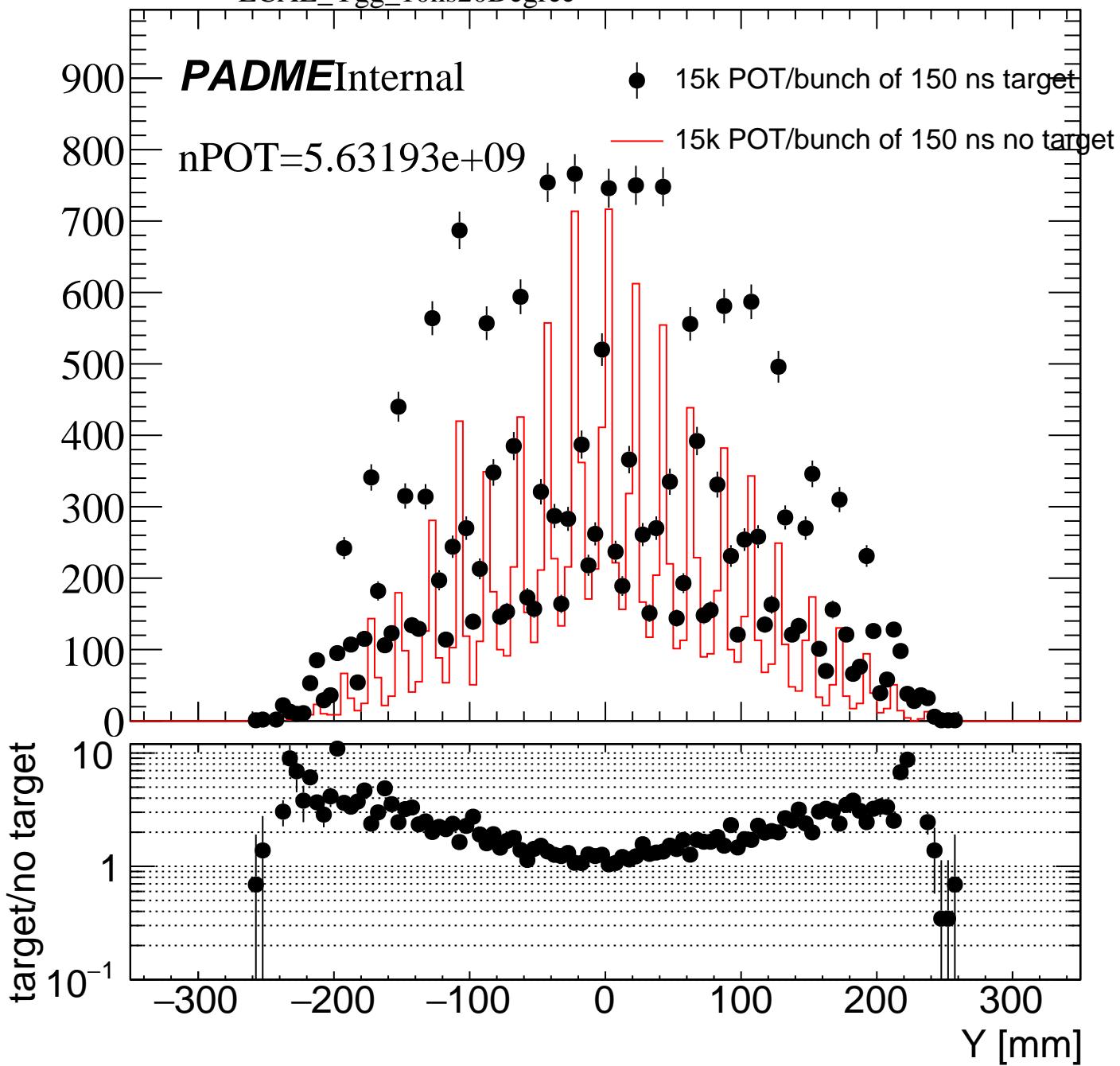


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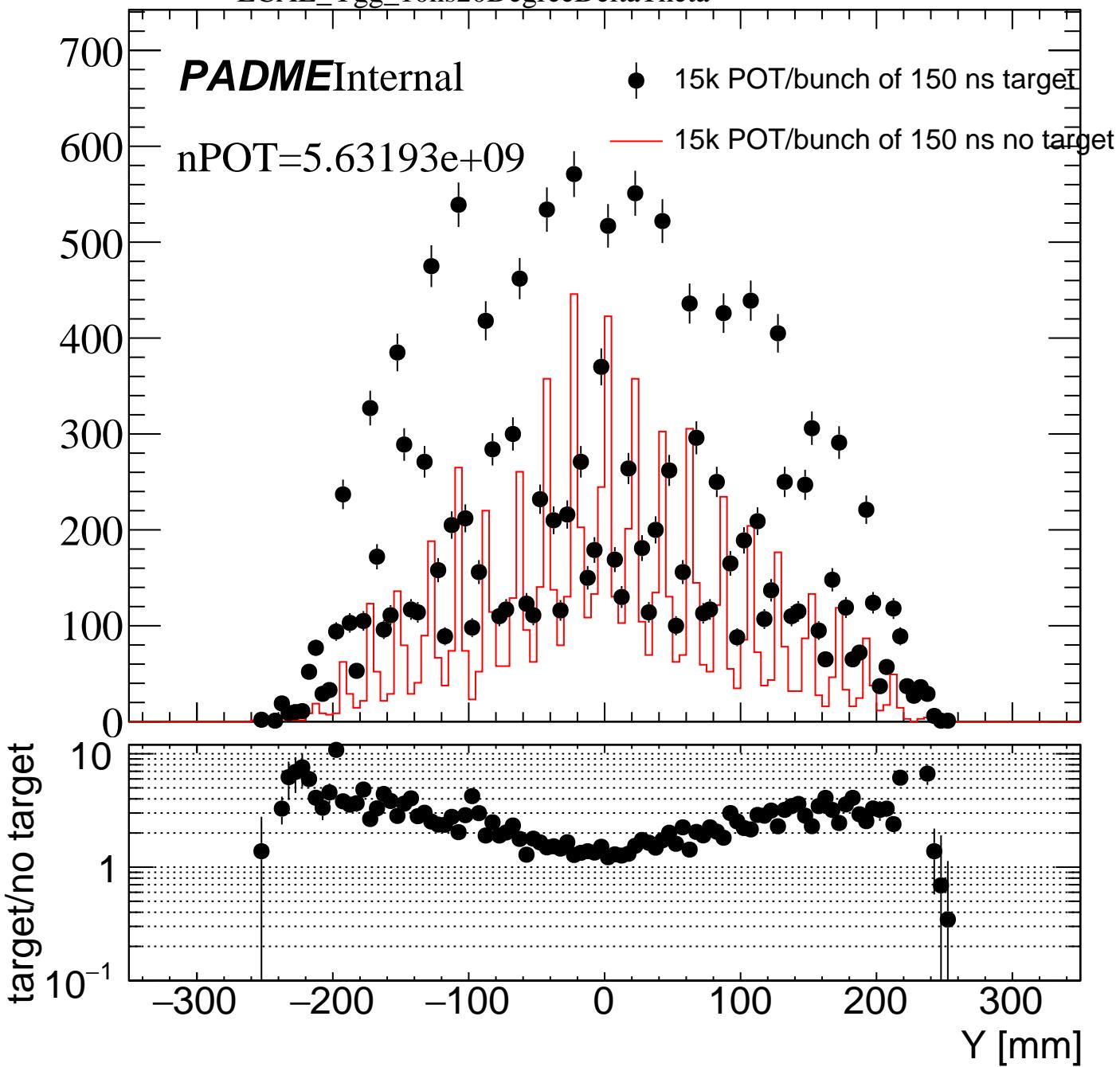


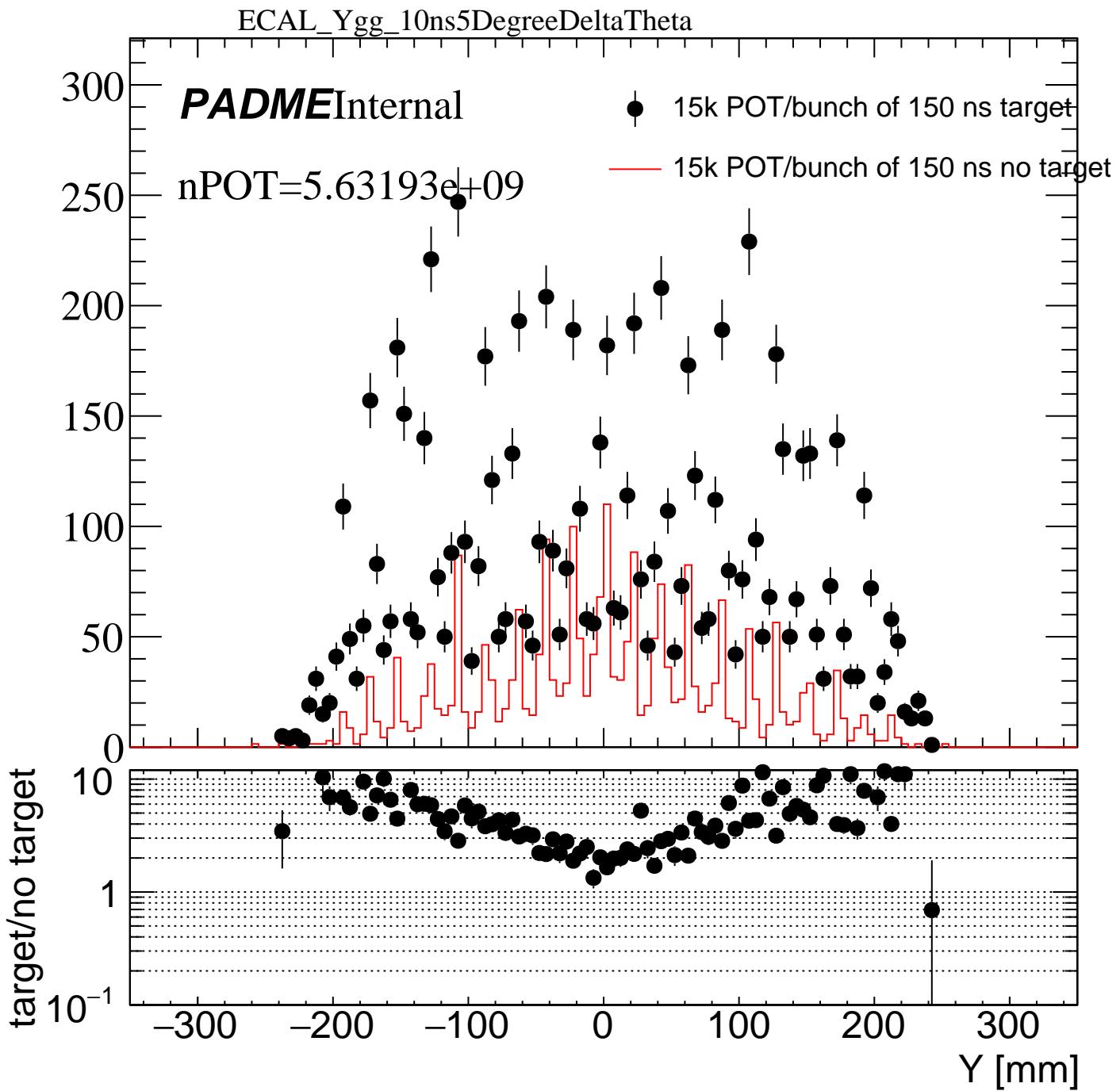


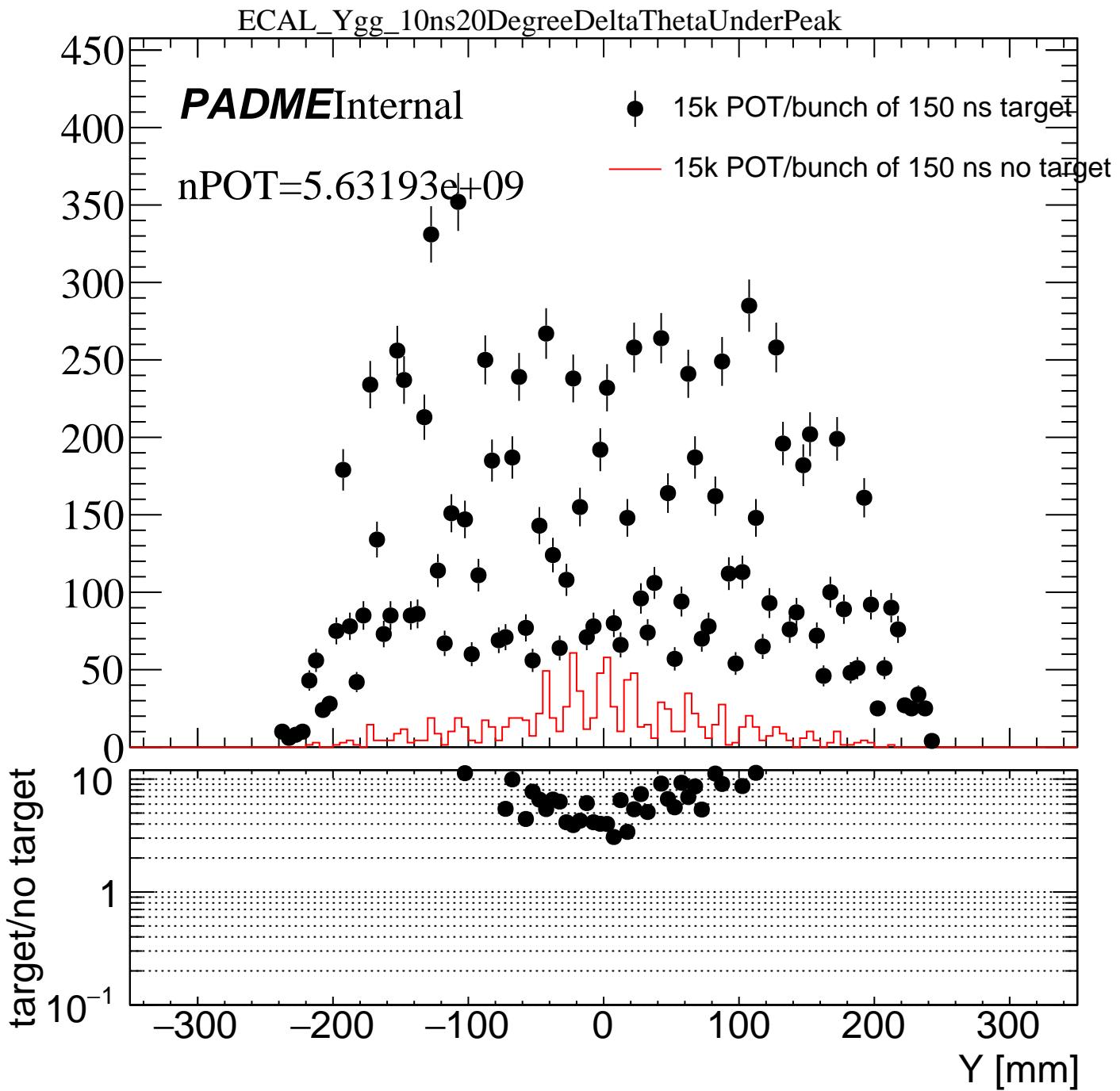
ECAL_Ygg_10ns20Degree

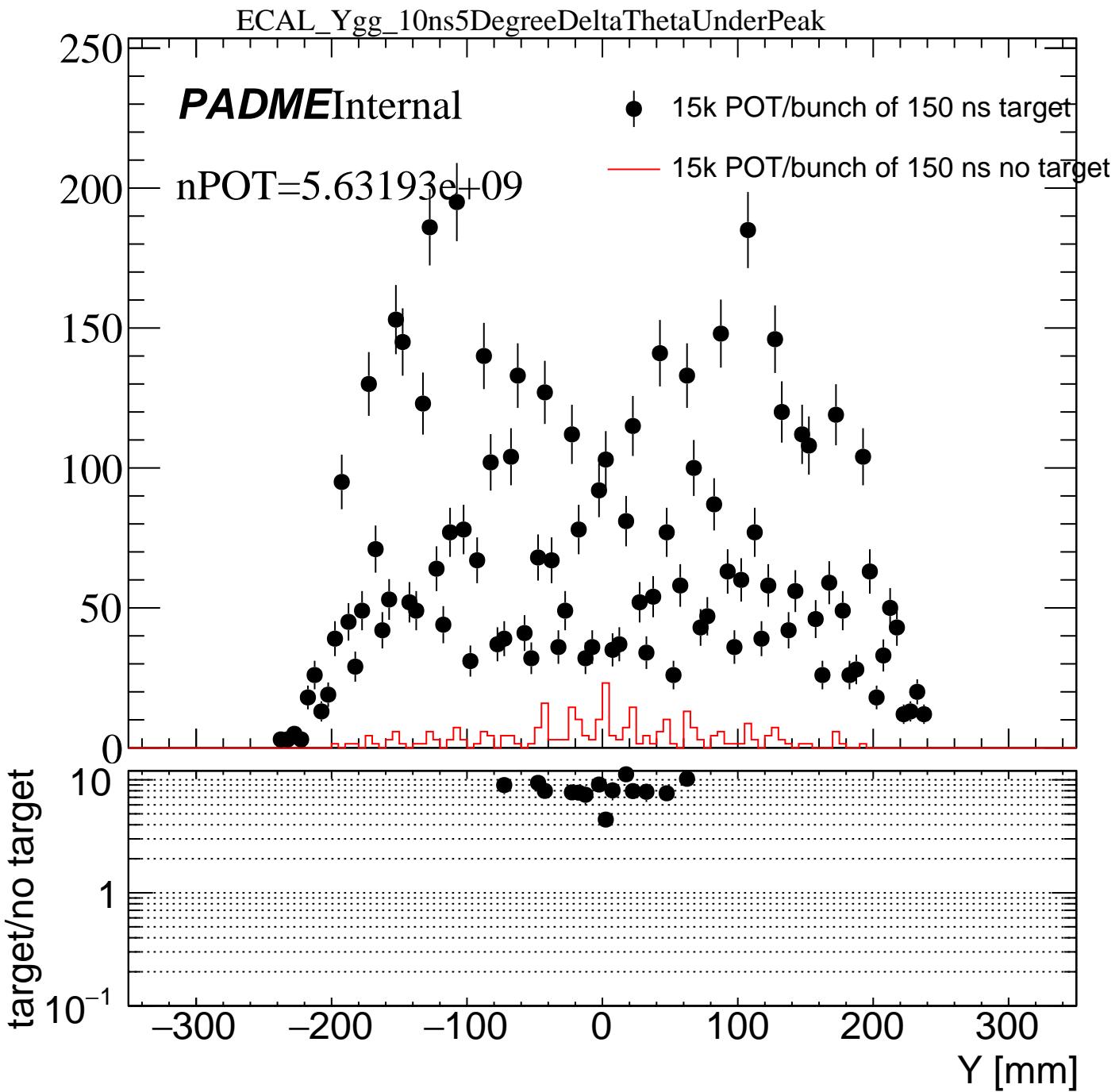


ECAL_Ygg_10ns20DegreeDeltaTheta

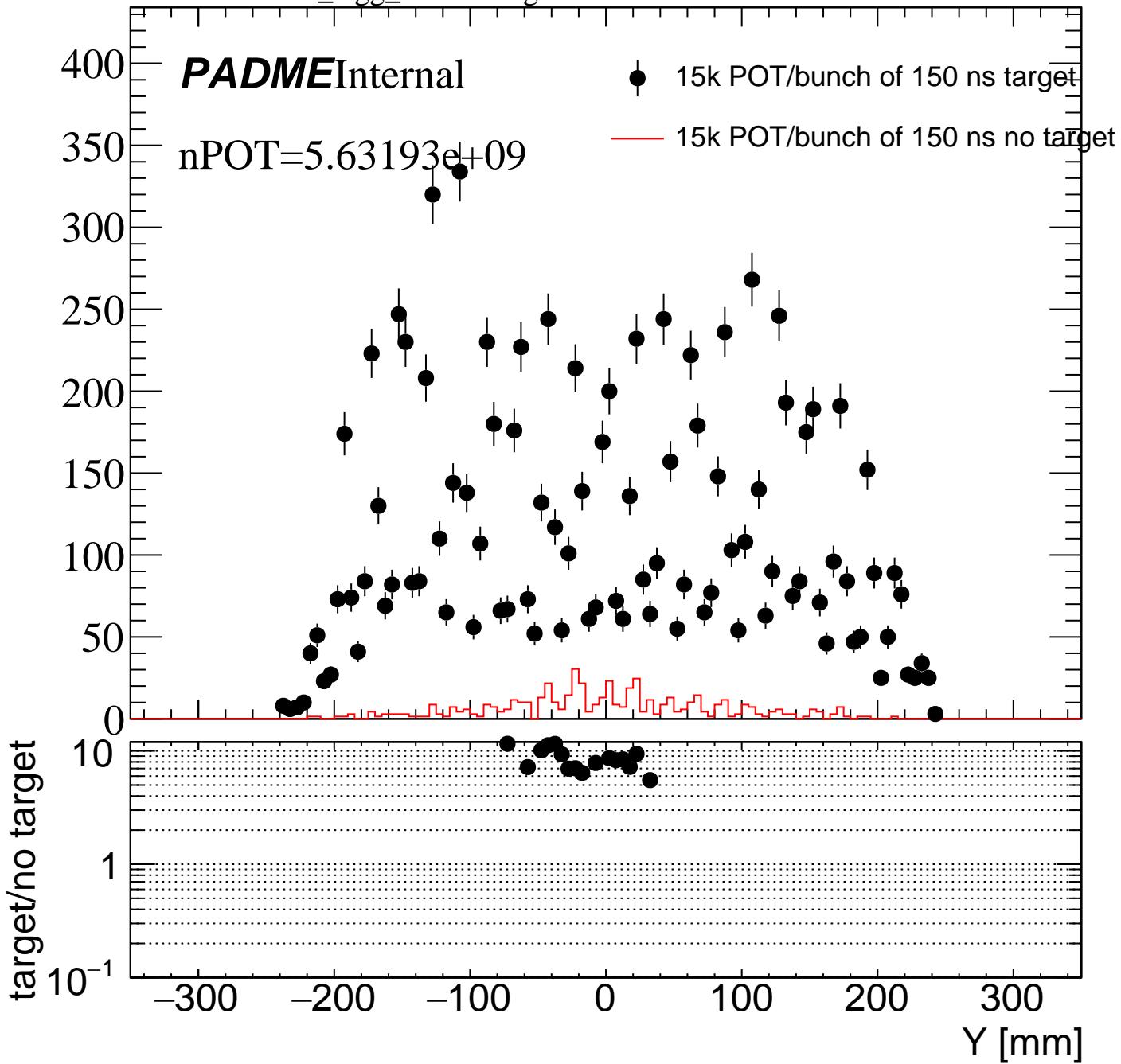




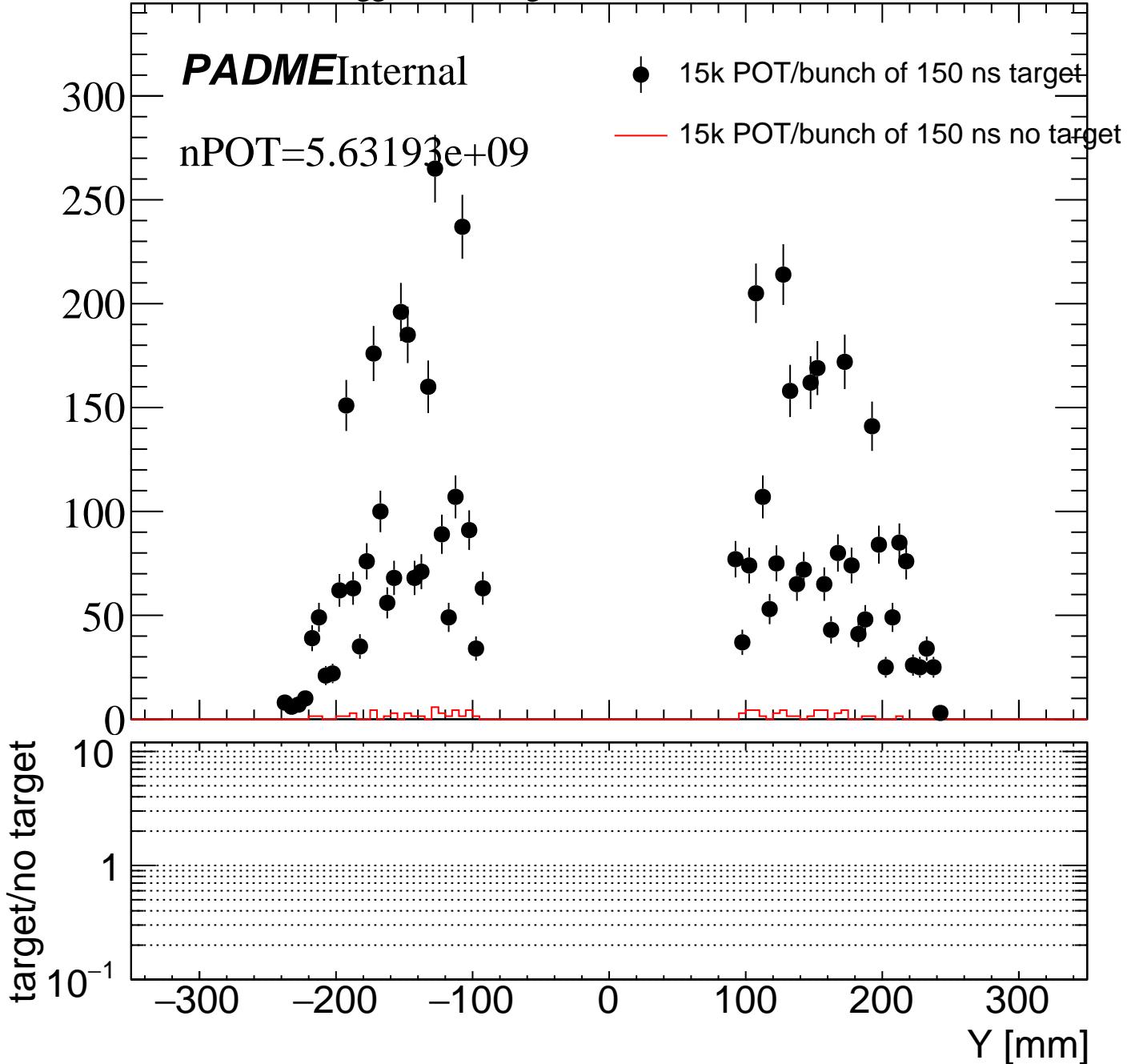


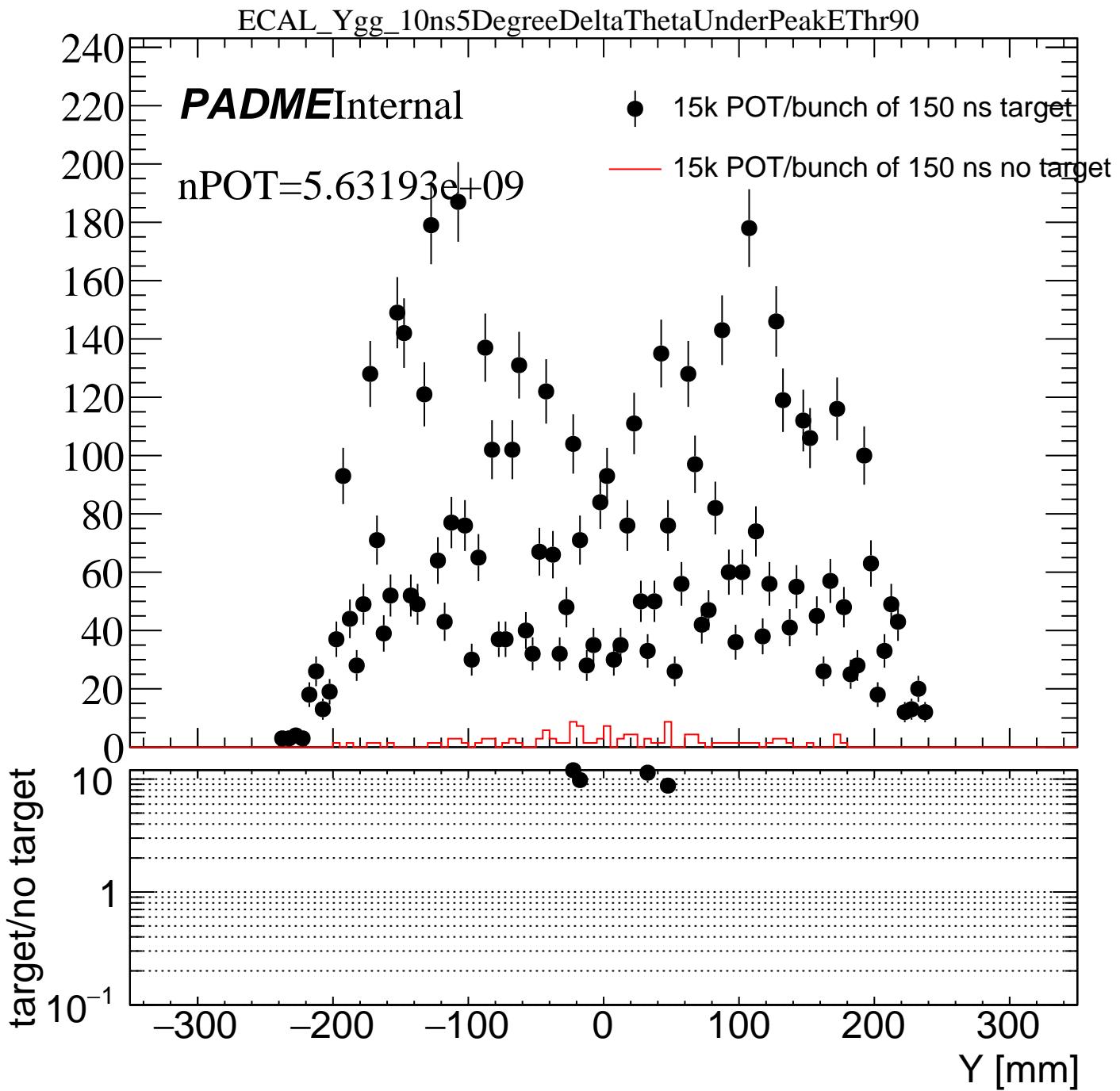


ECAL_Ygg_10ns20DegreeDeltaThetaUnderPeakEThr90

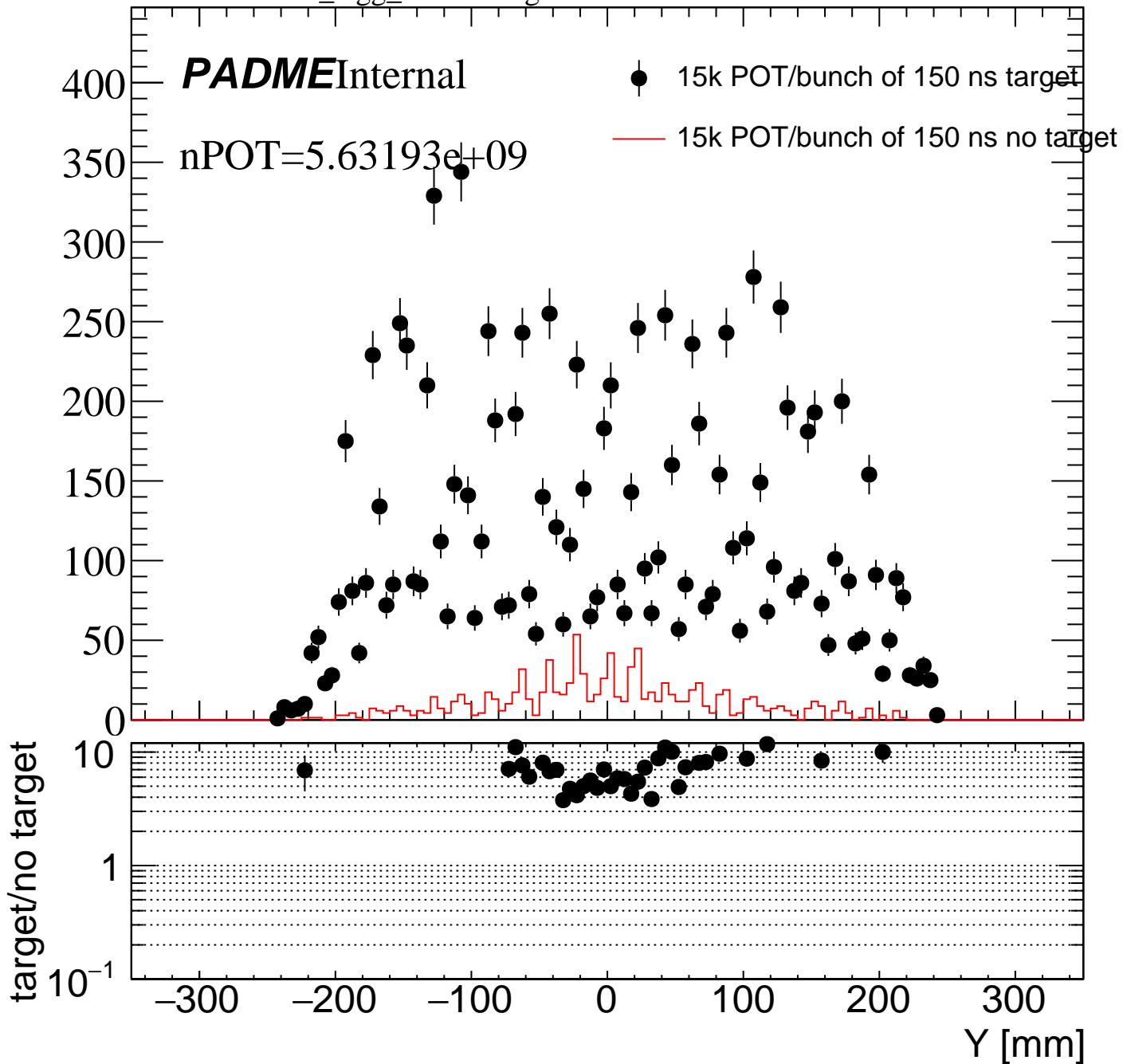


ECAL_Ygg_10ns20DegreeDeltaThetaUnderPeakEThr90_FRY

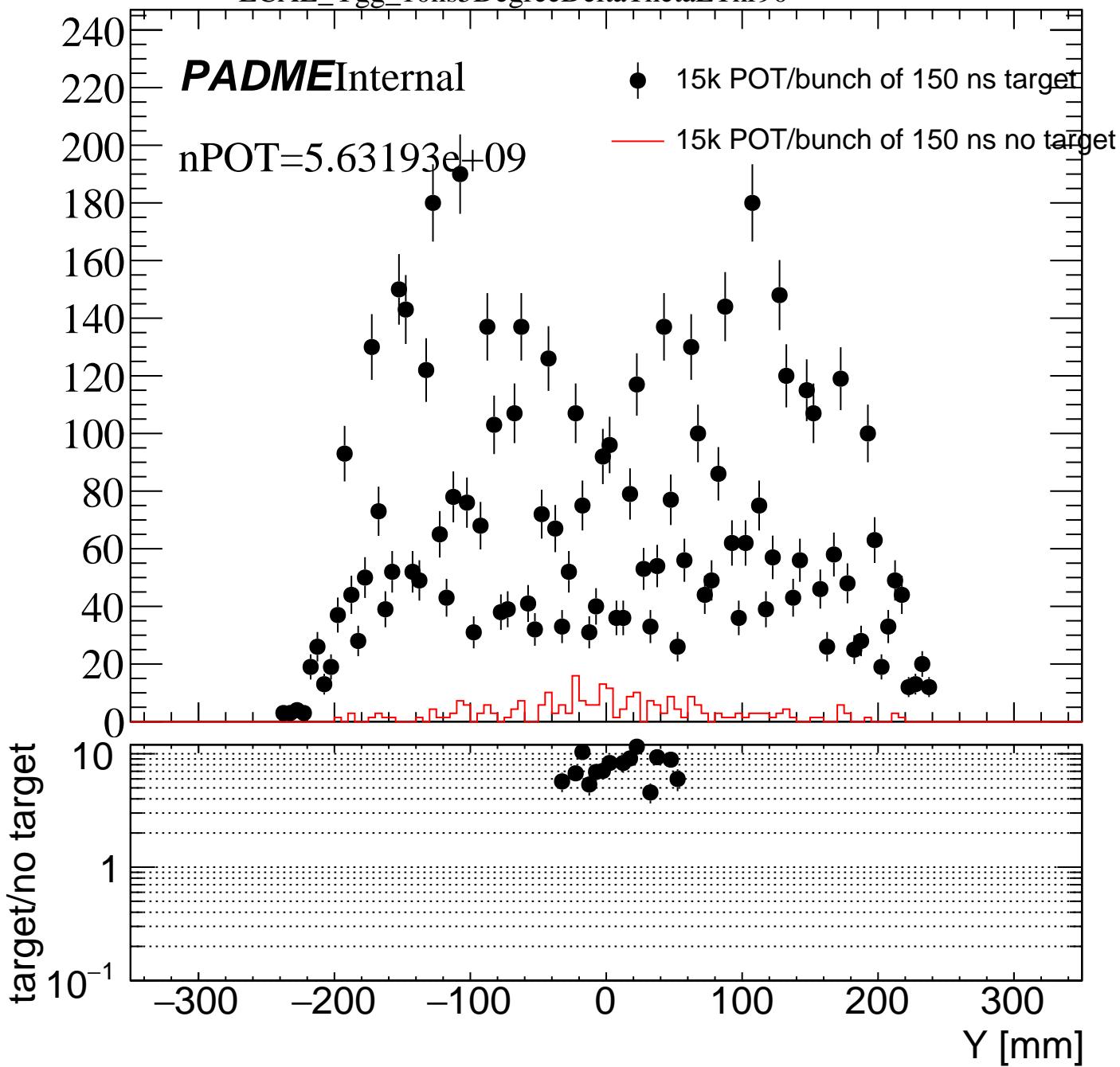




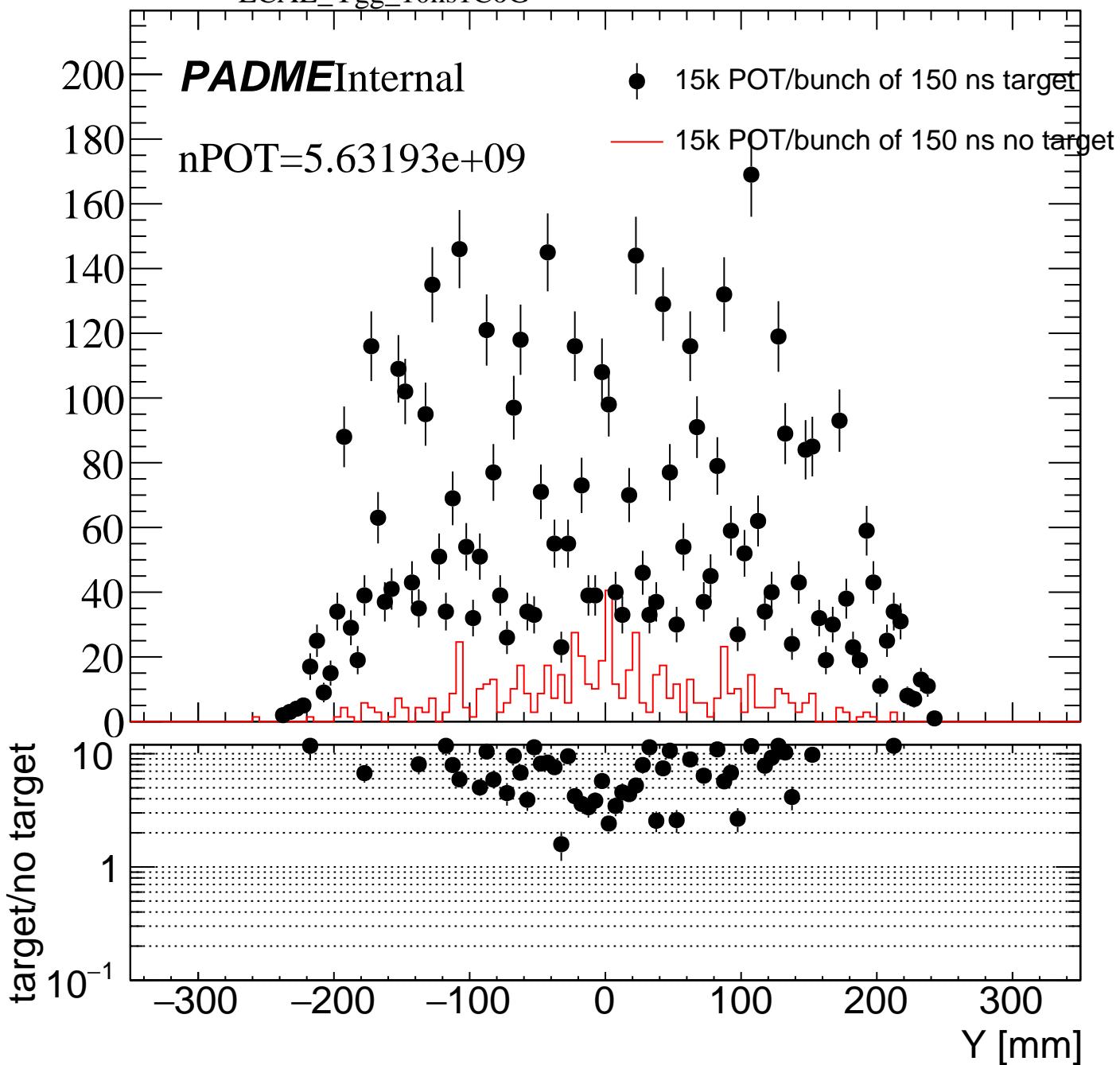
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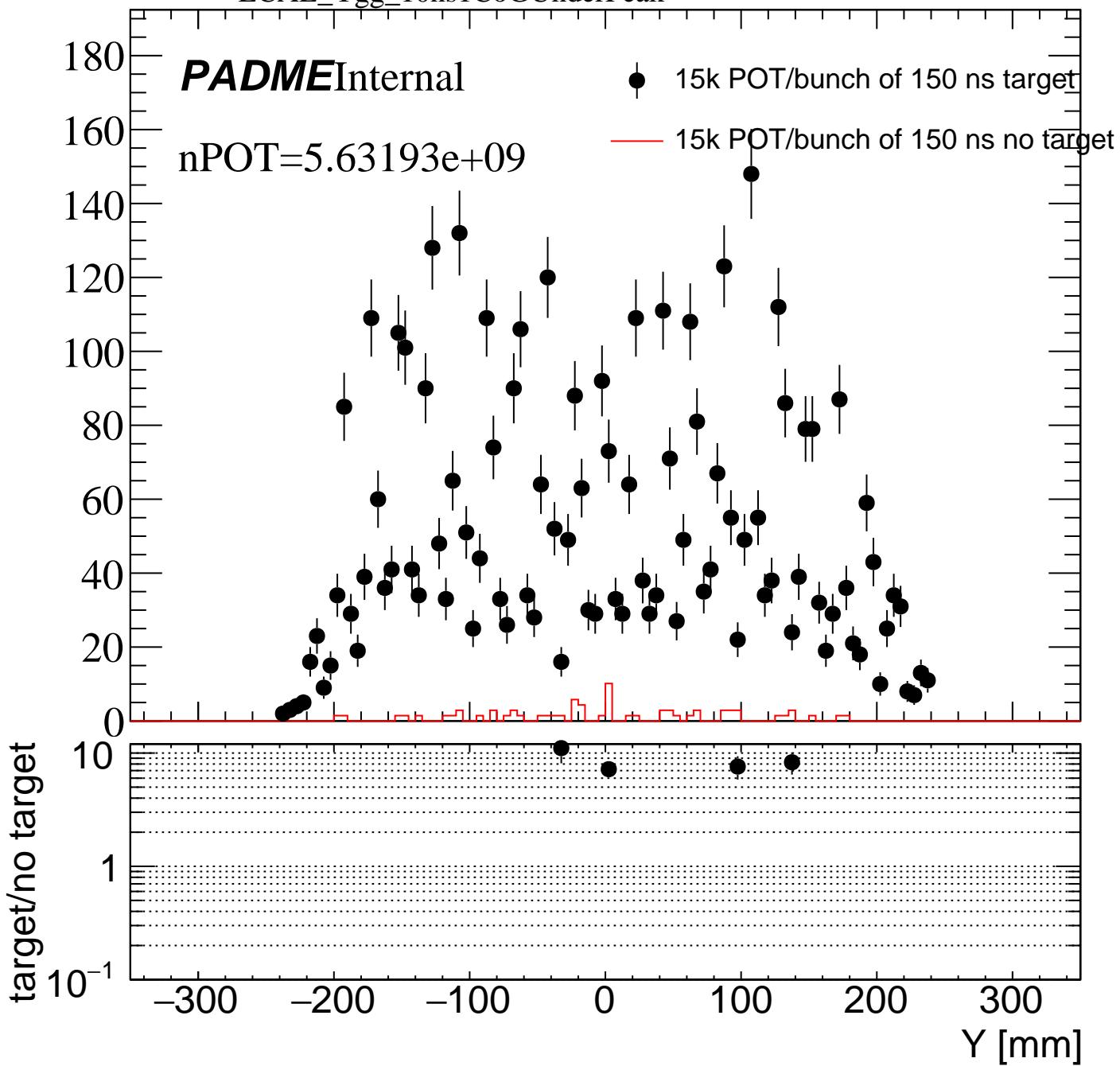
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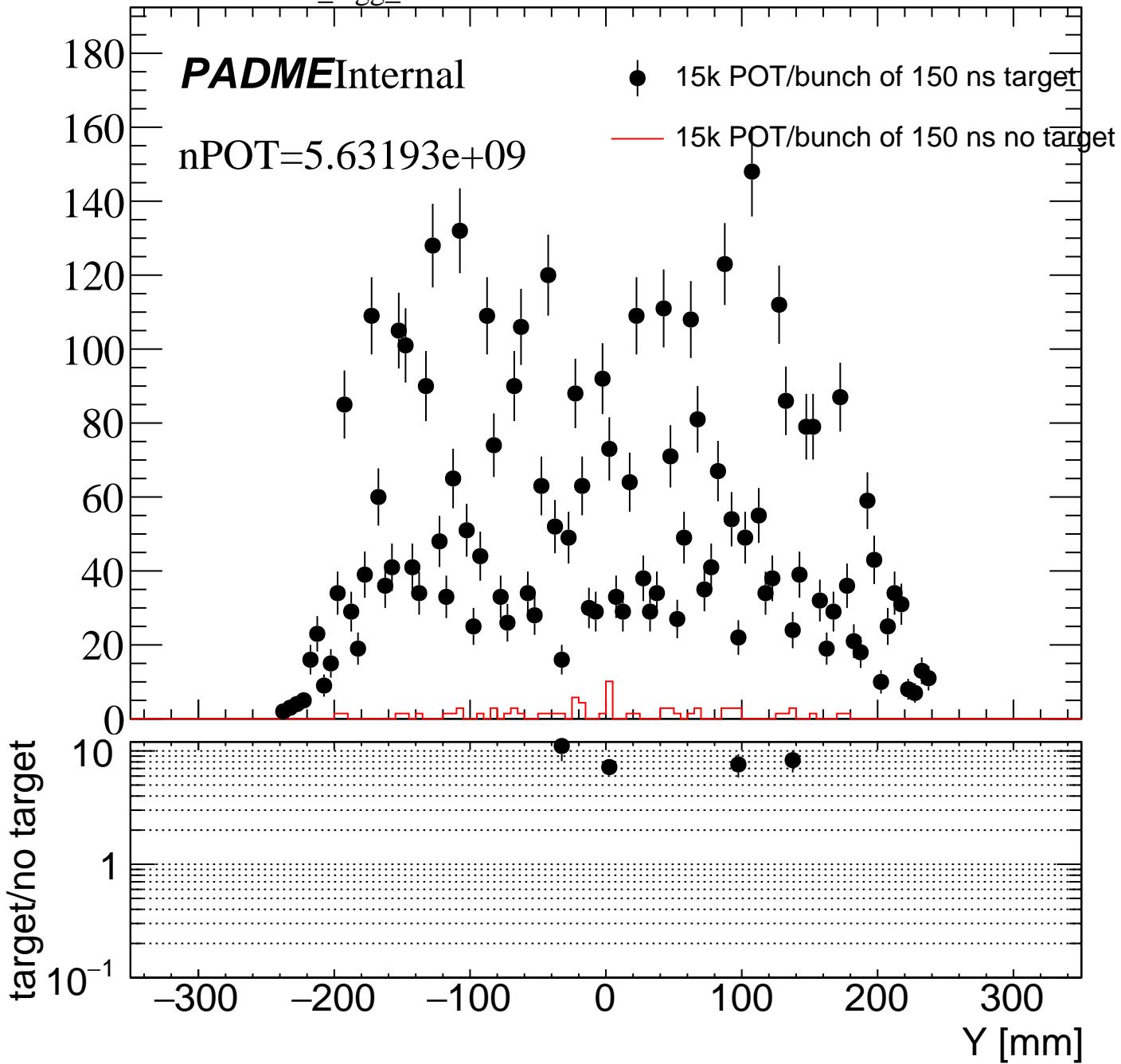
ECAL_Ygg_10ns1CoG



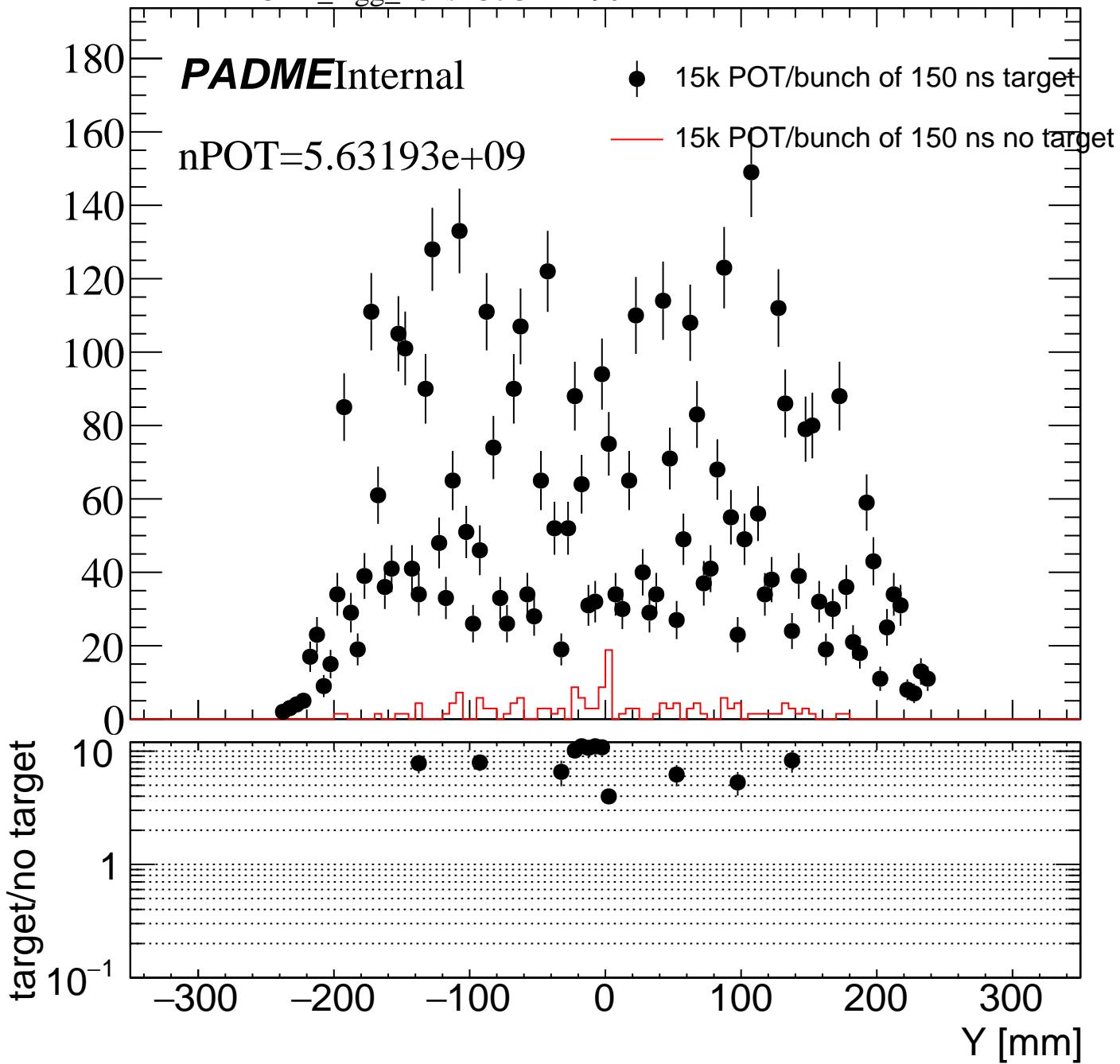
ECAL_Ygg_10ns1CoGUnderPeak



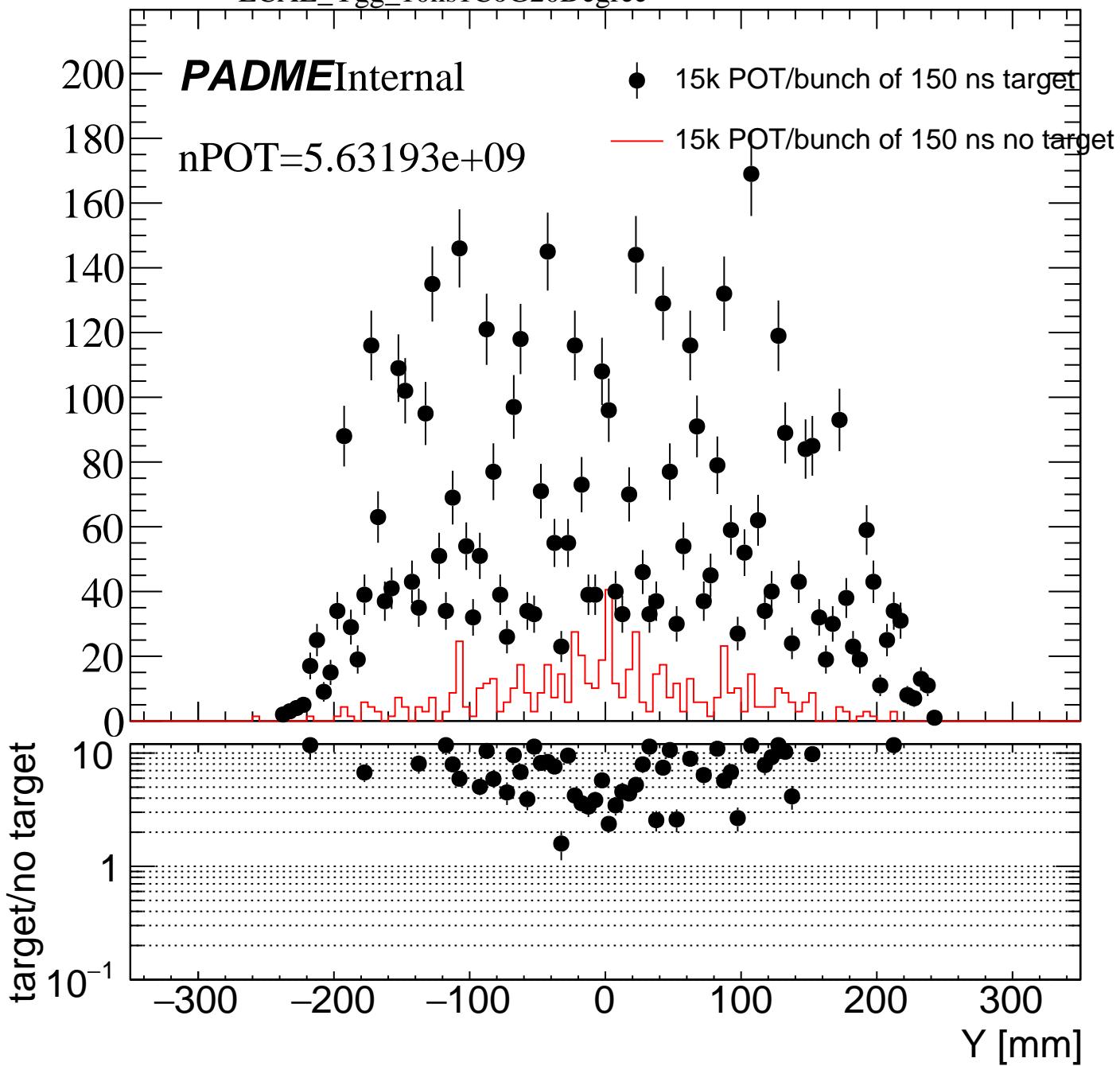
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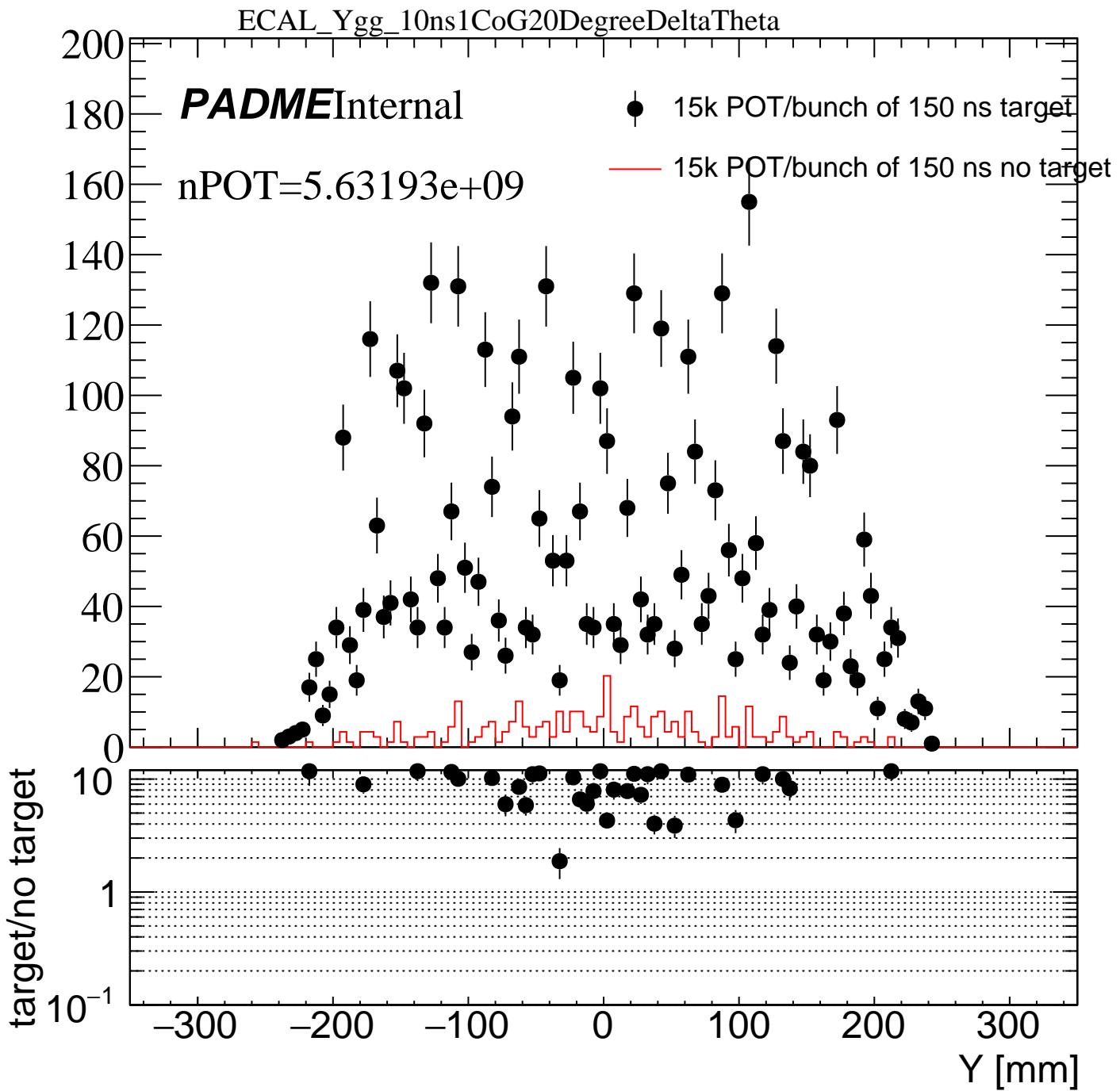


ECAL_Ygg_10ns1CoGEThr90

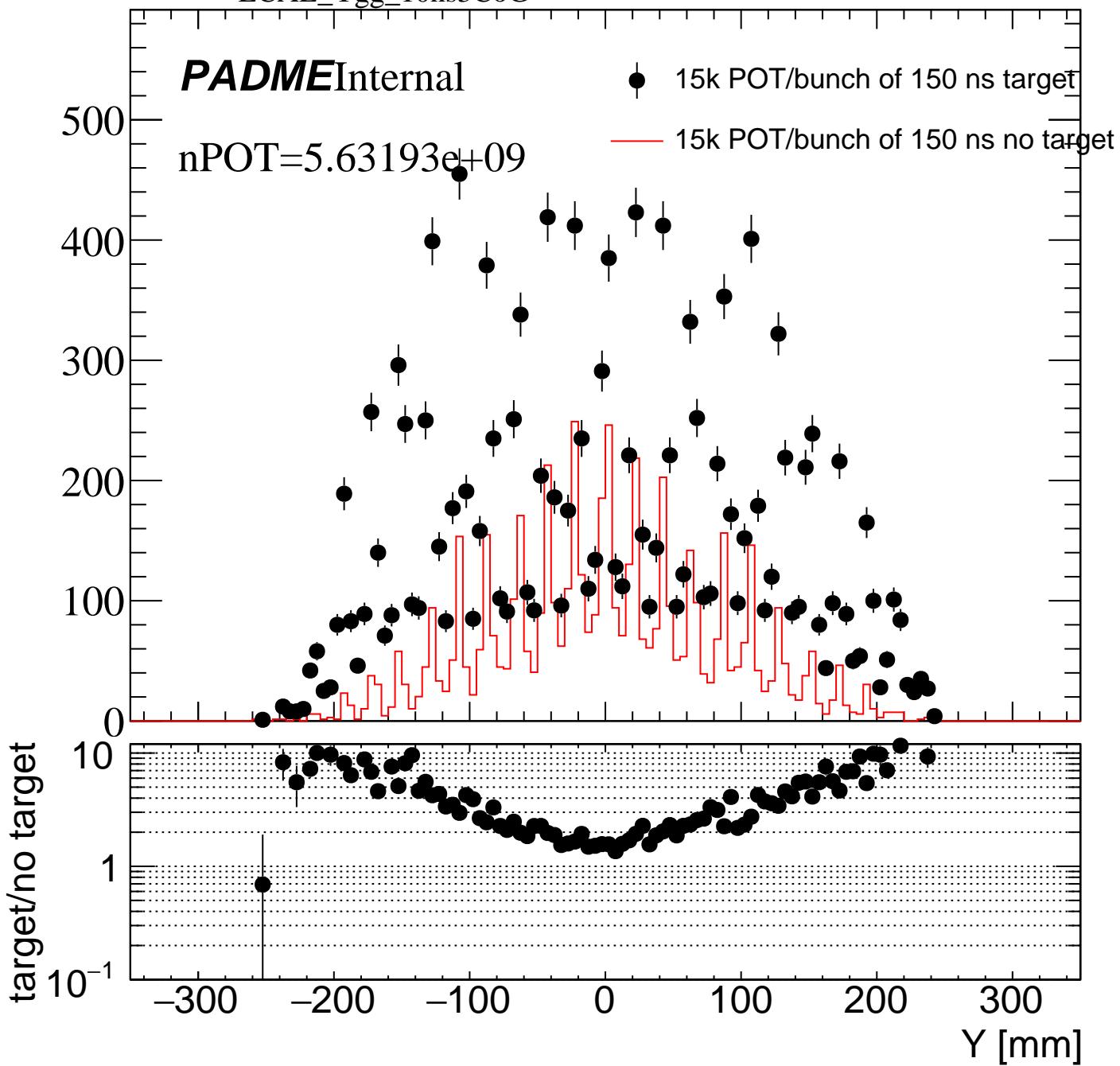


ECAL_Ygg_10ns1CoG20Degree

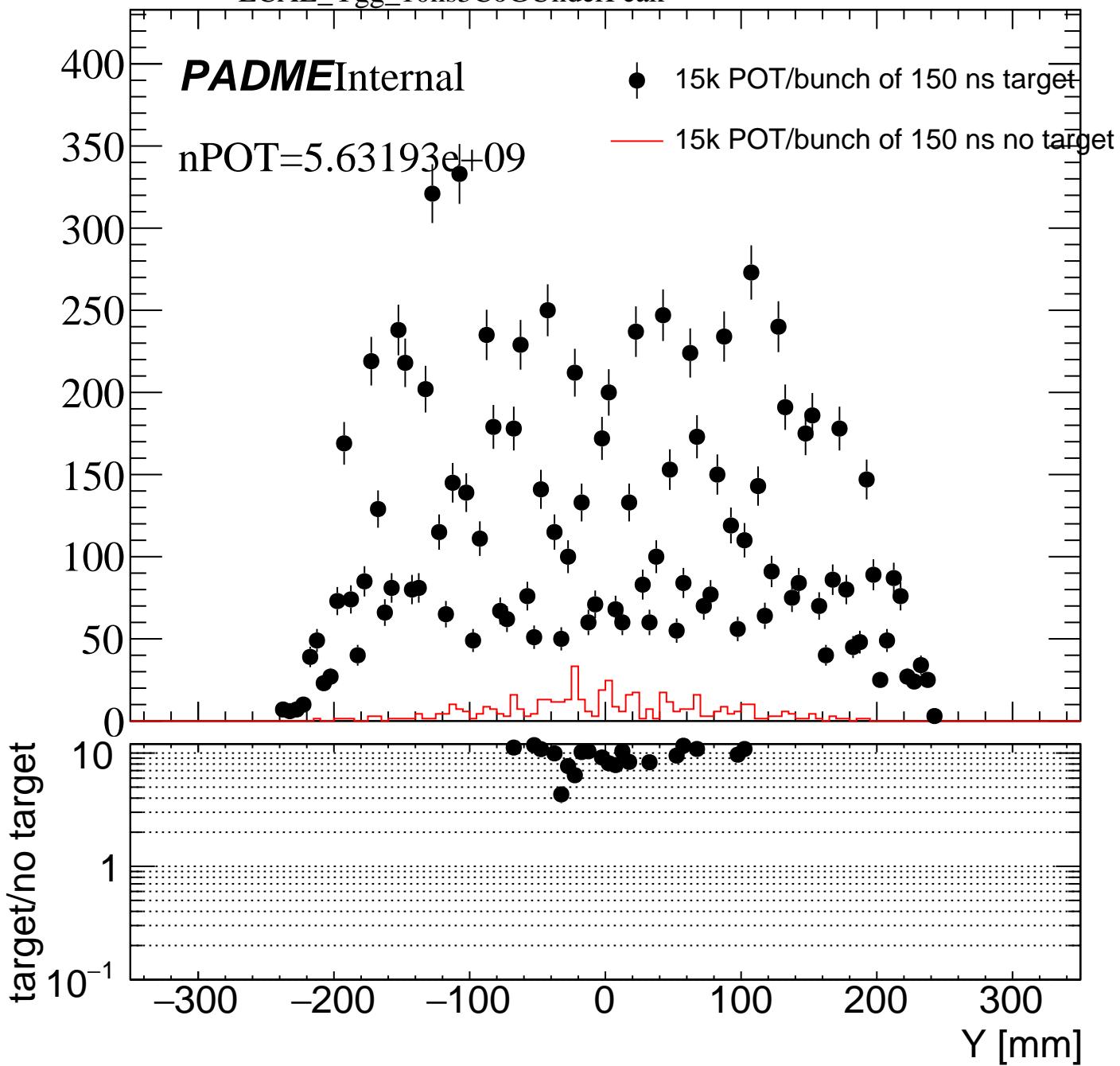




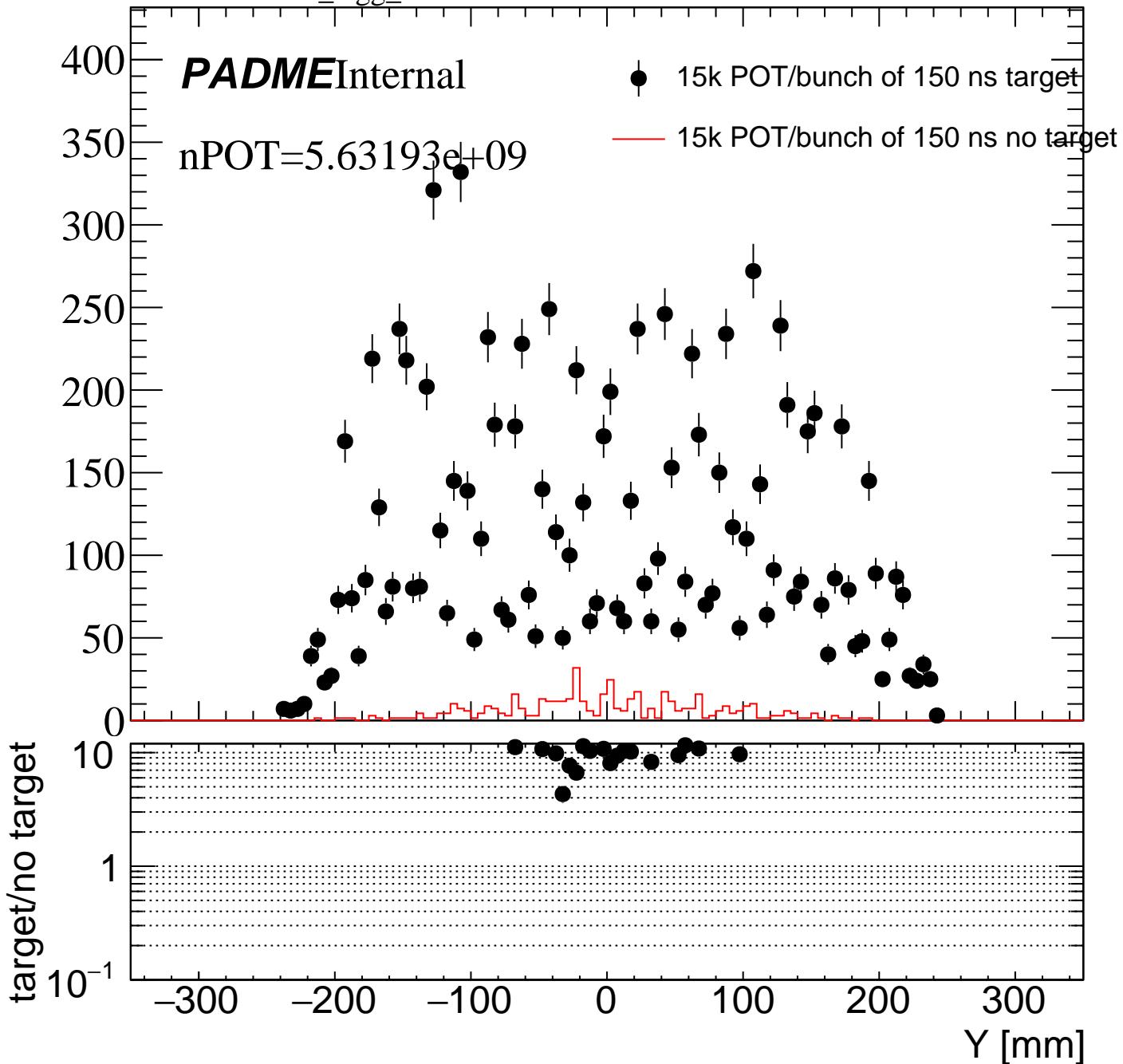
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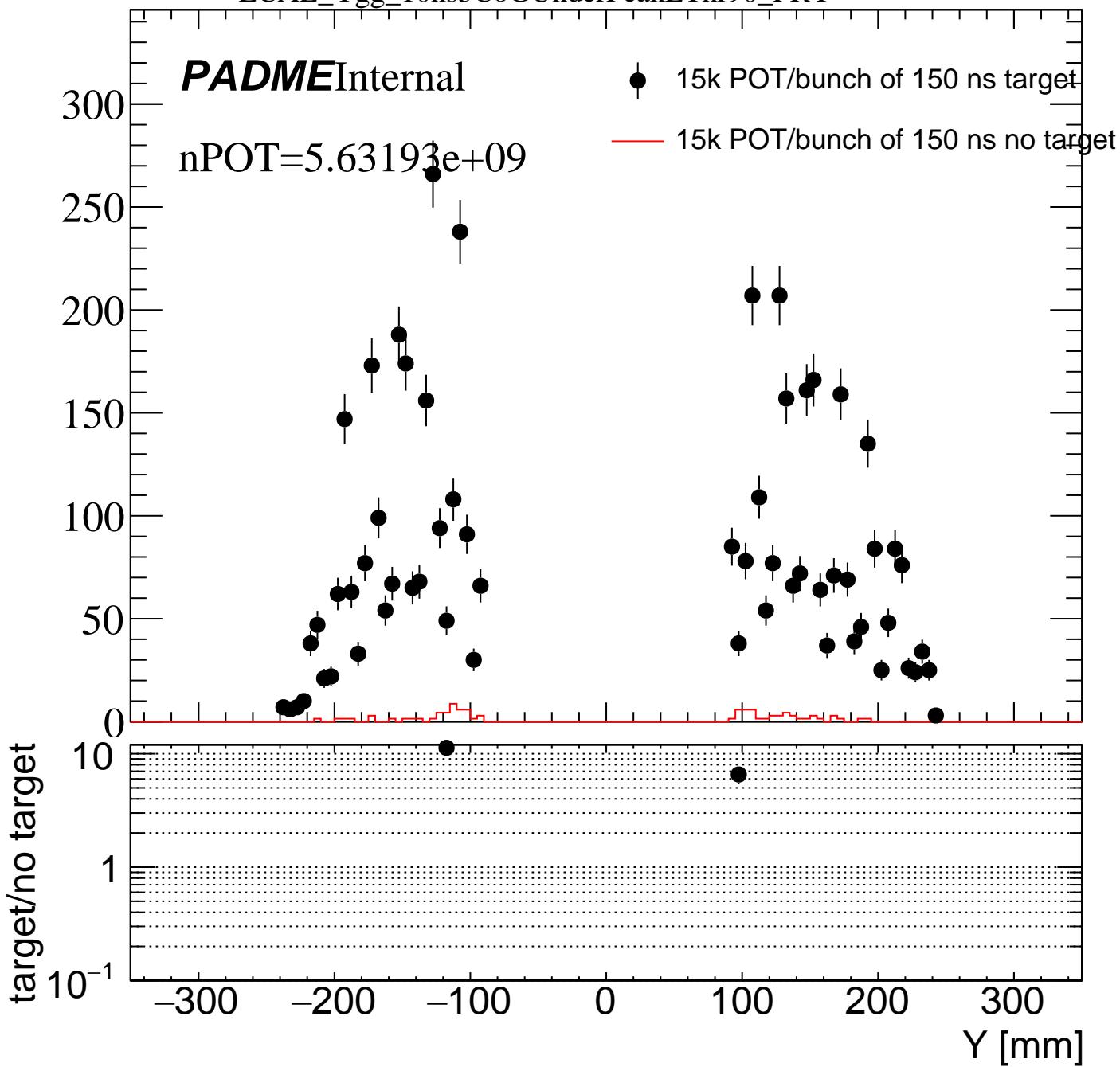
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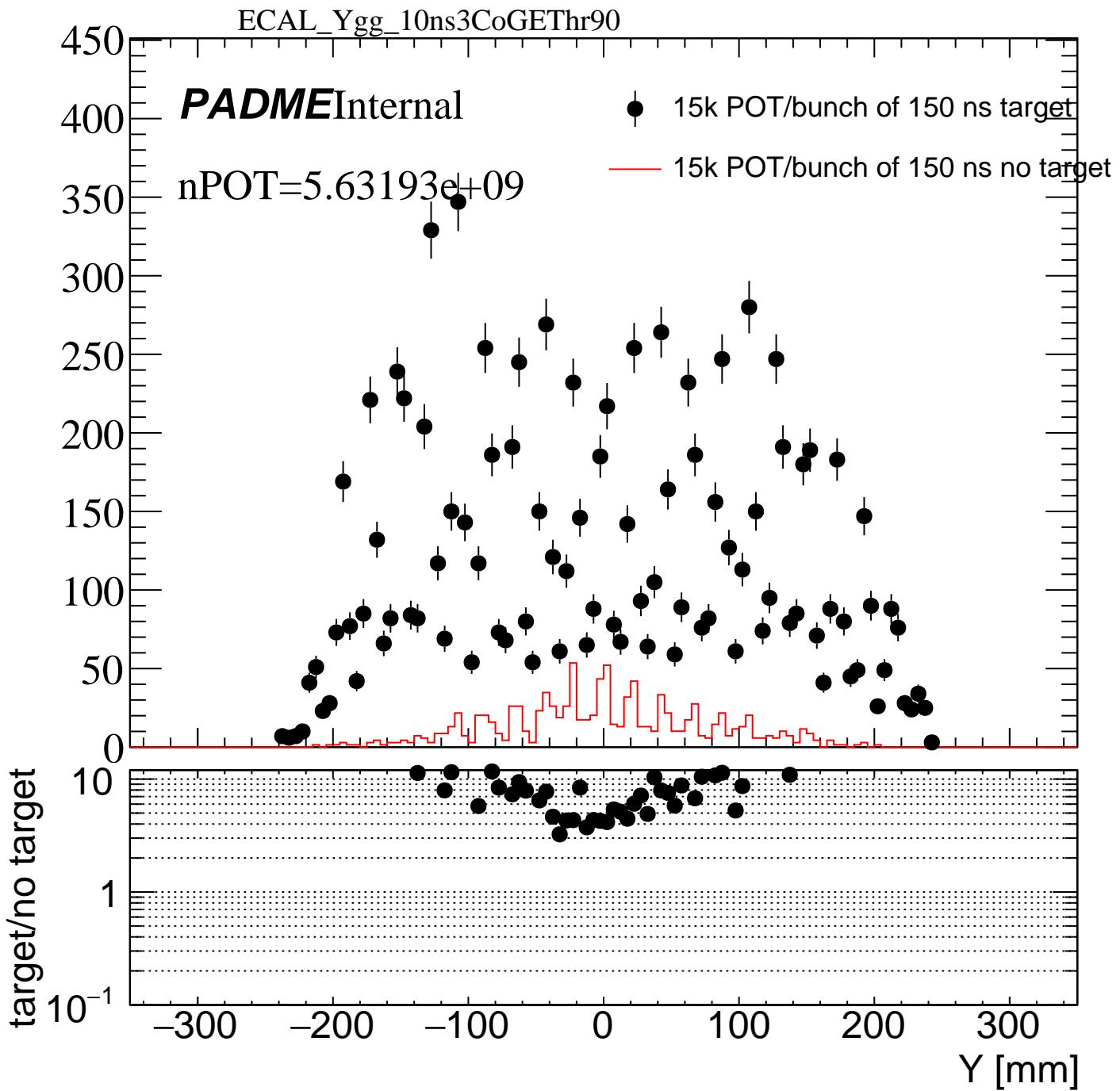


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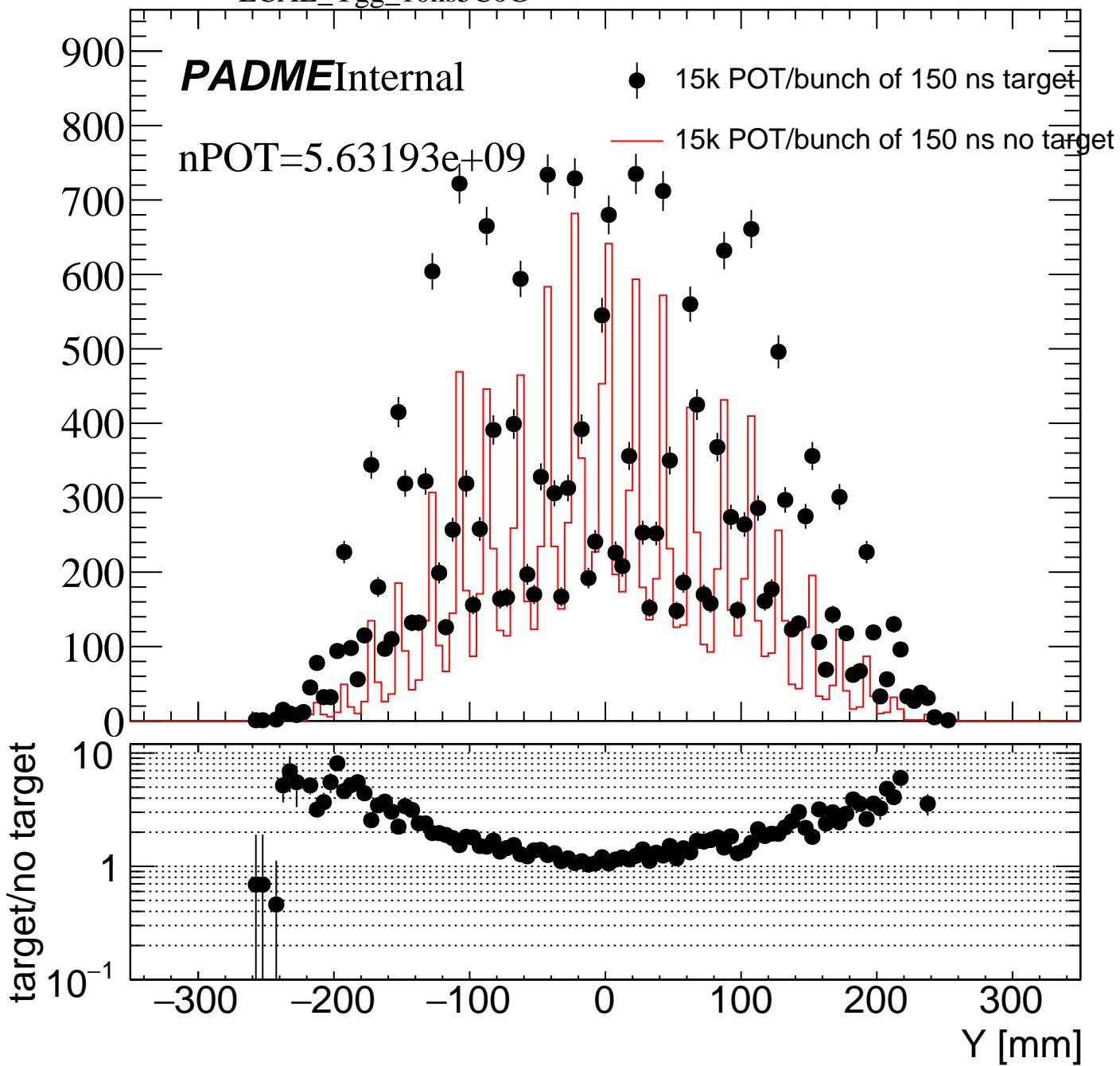


ECAL_Ygg_10ns3CoGUnderPeakEThr90_FRY

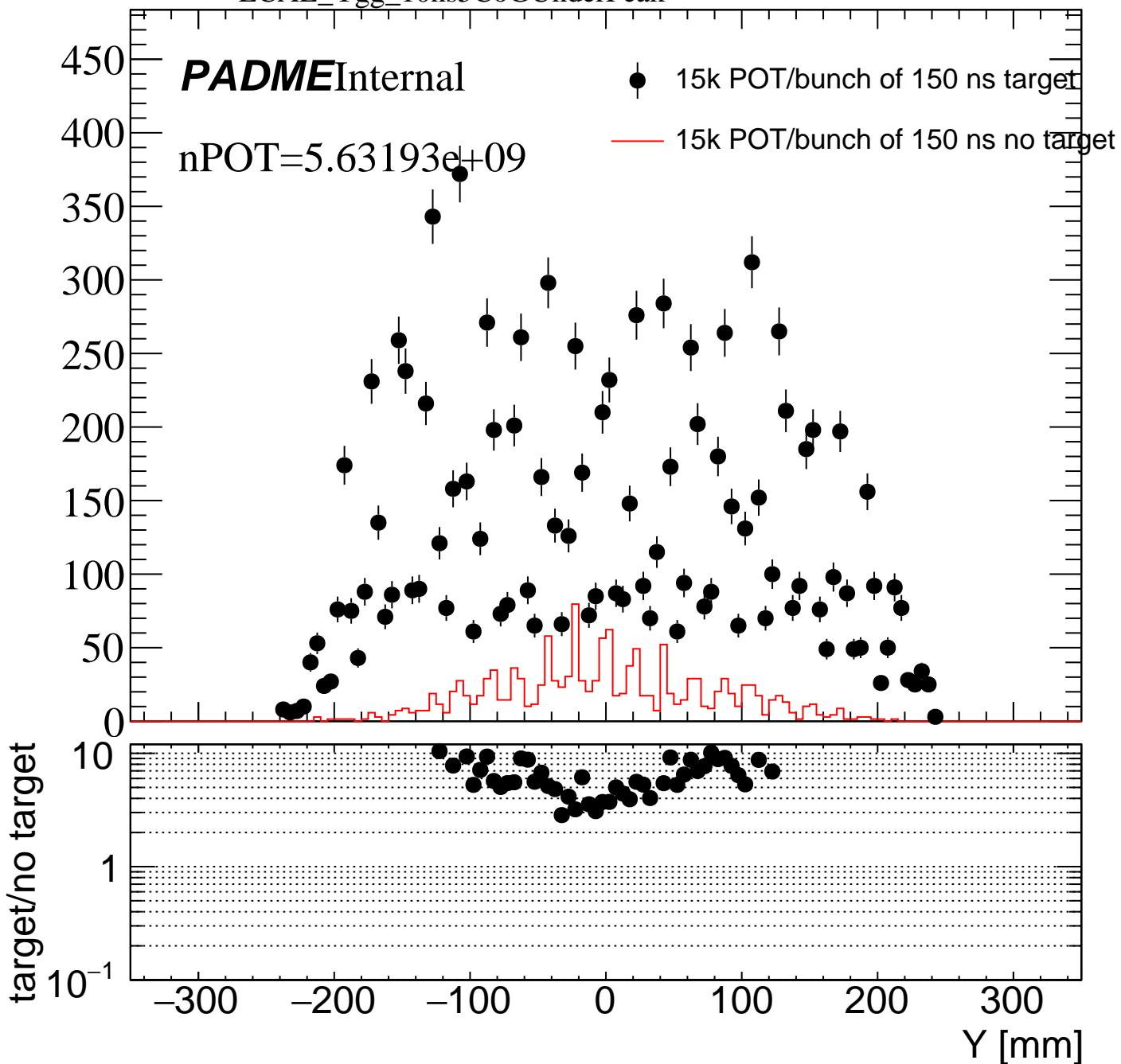




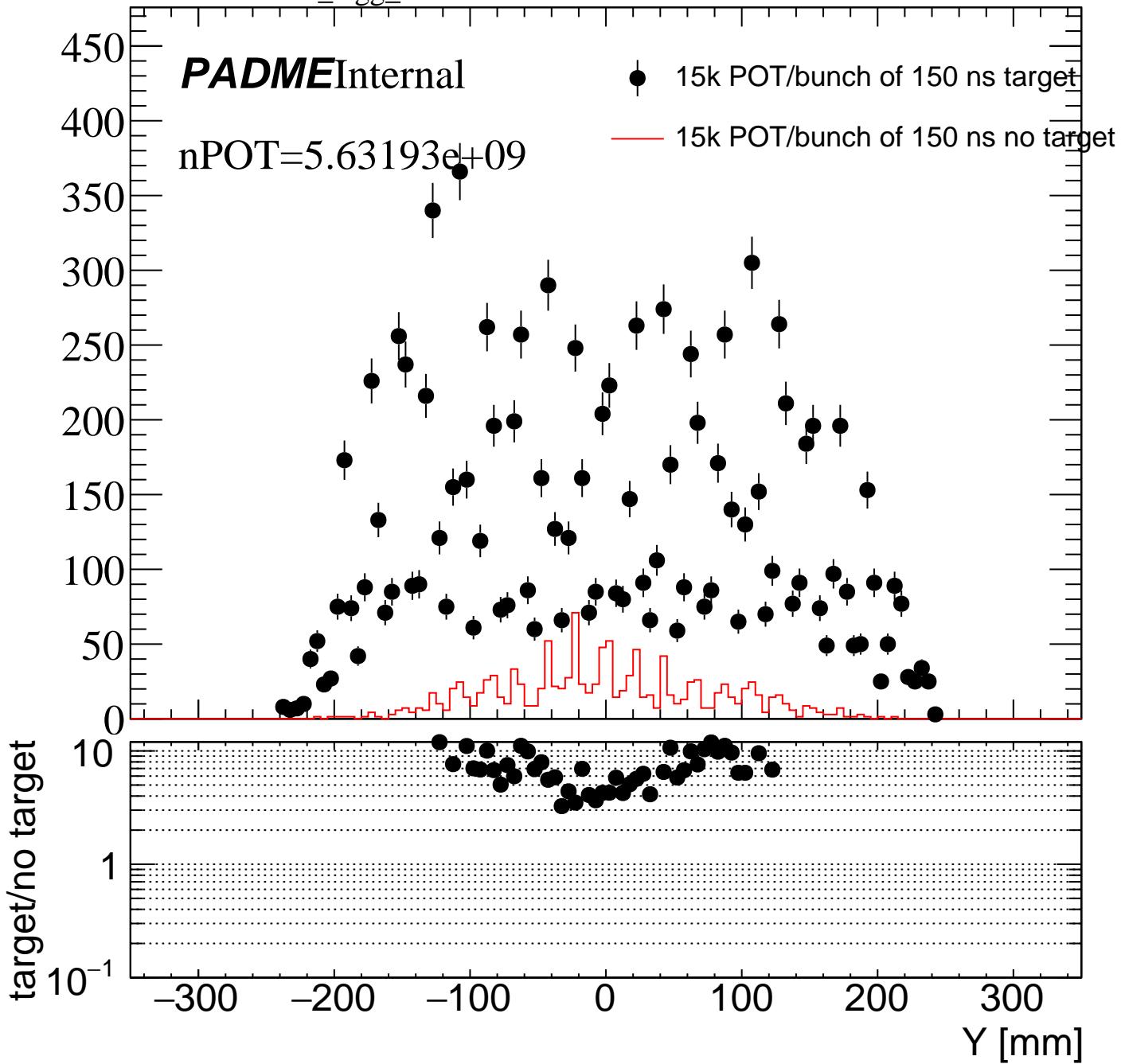
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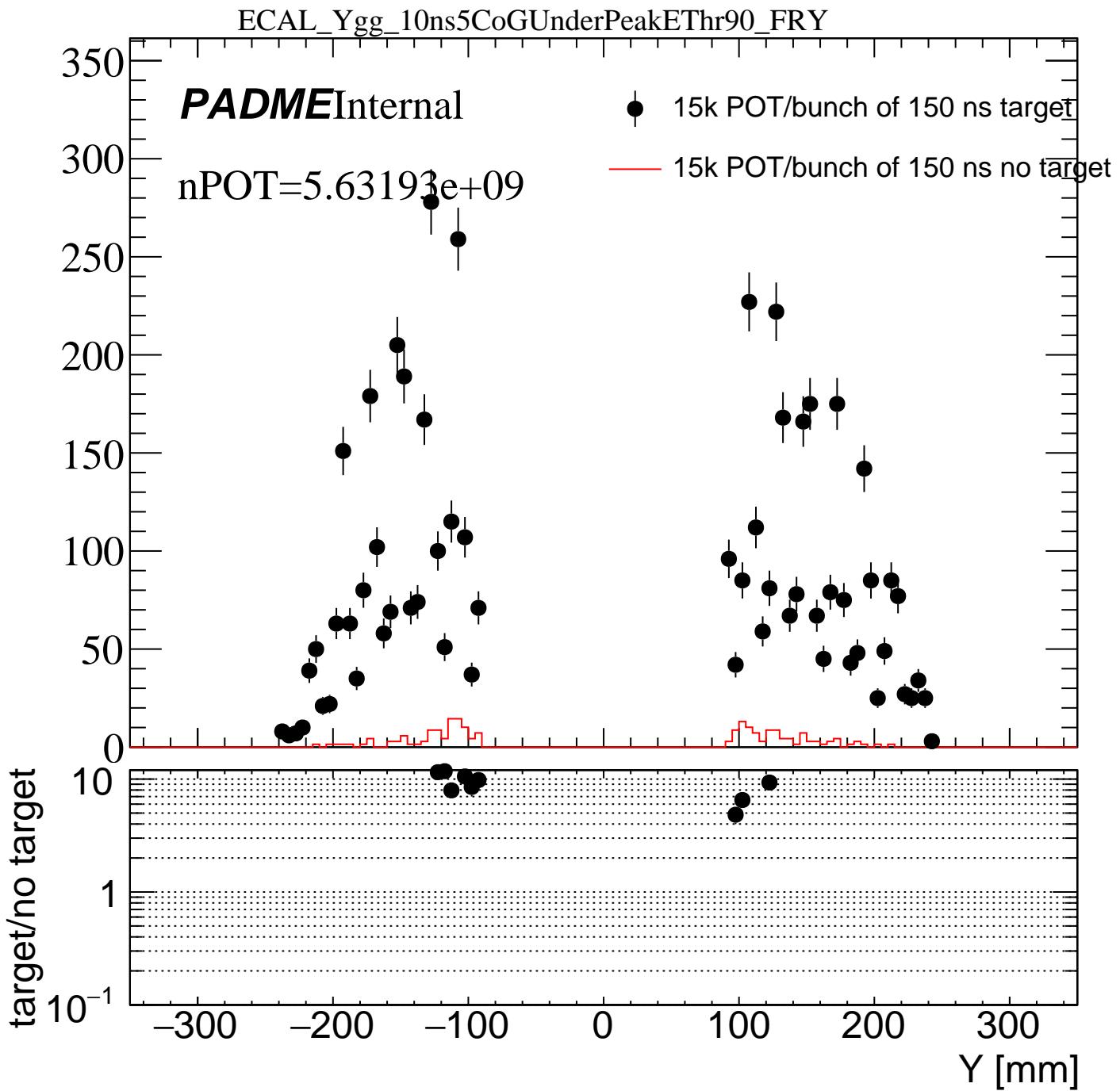


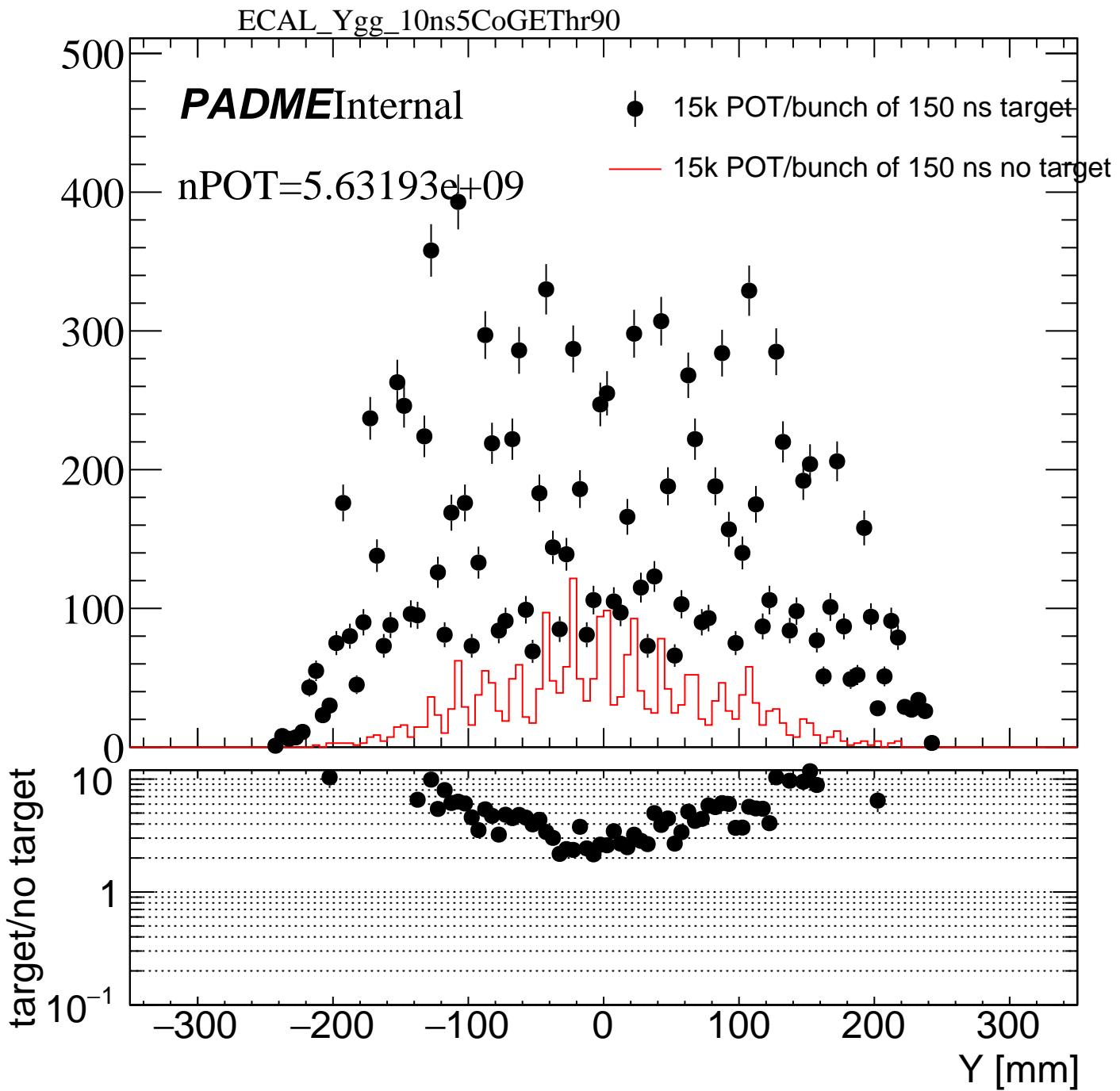
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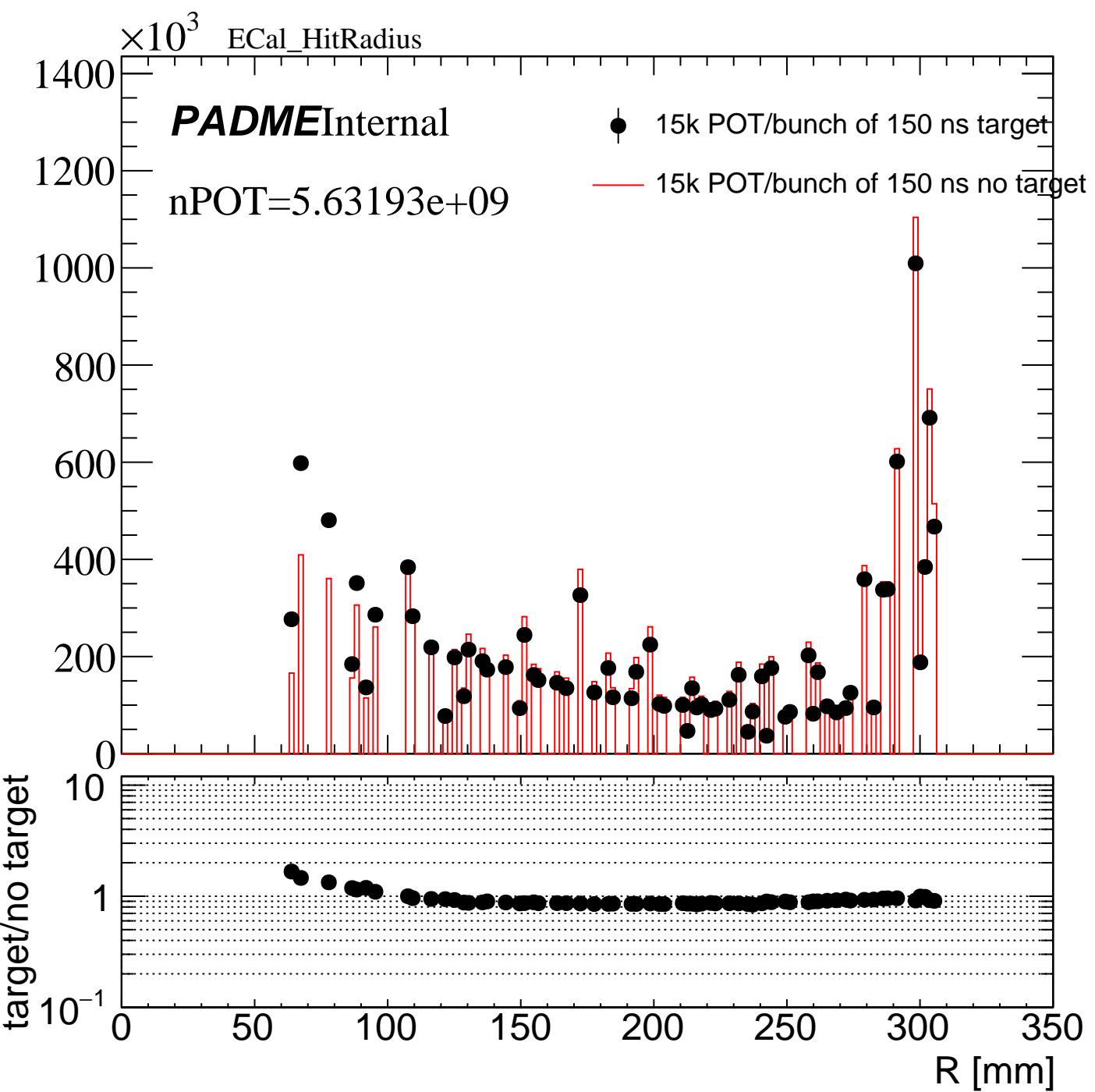


ECAL_Ygg_10ns5CoGUnderPeakETHr90

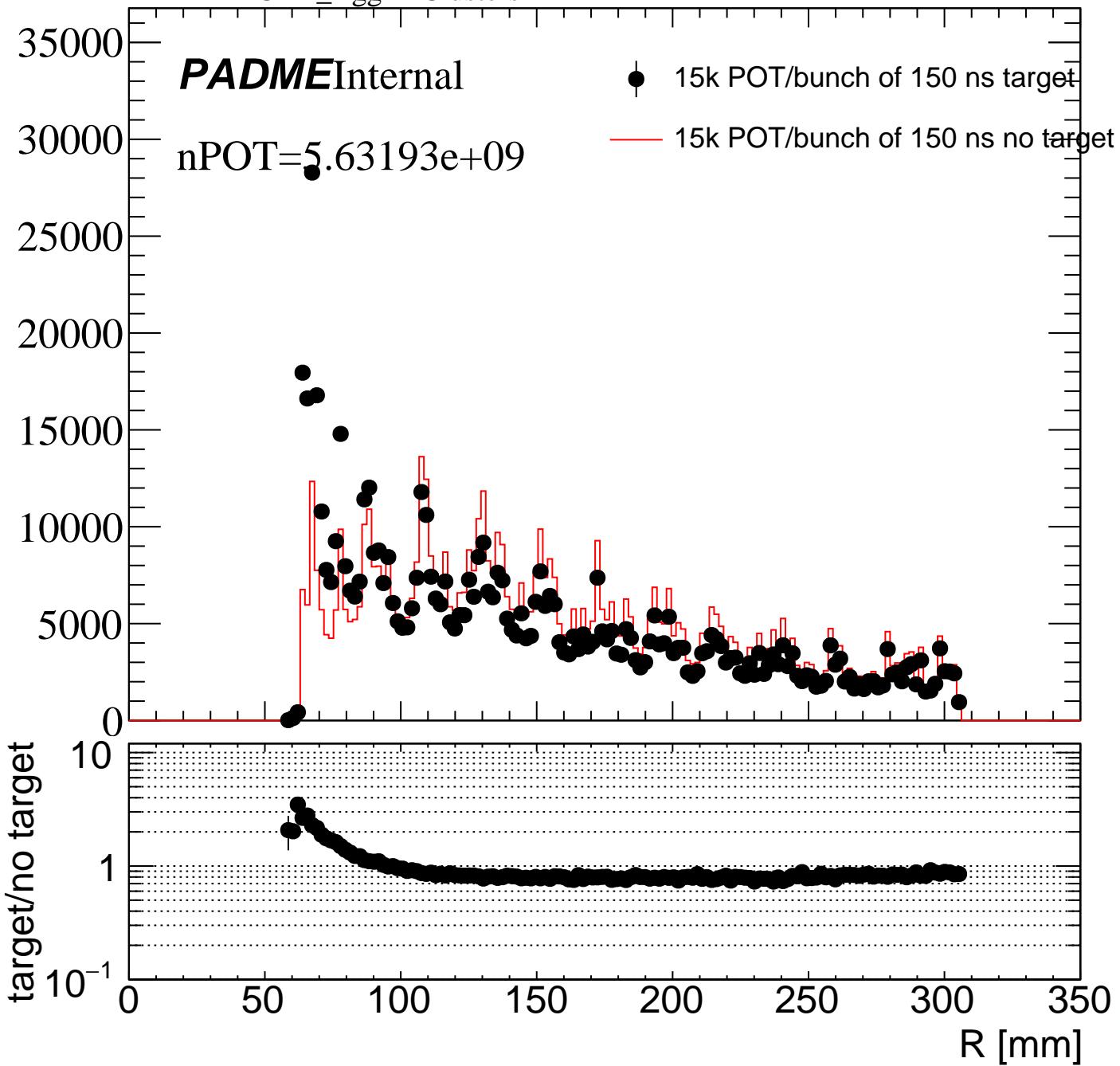




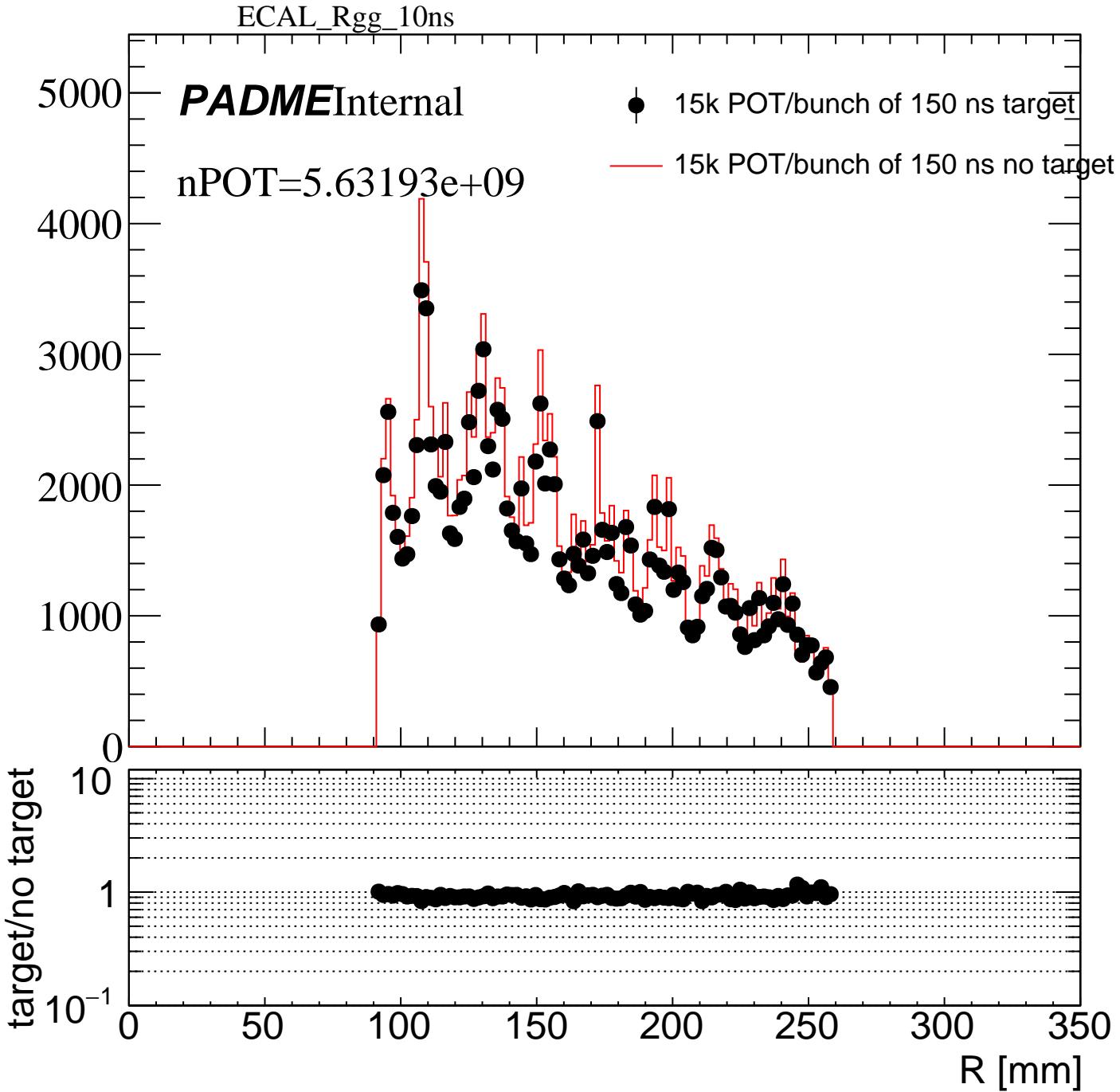




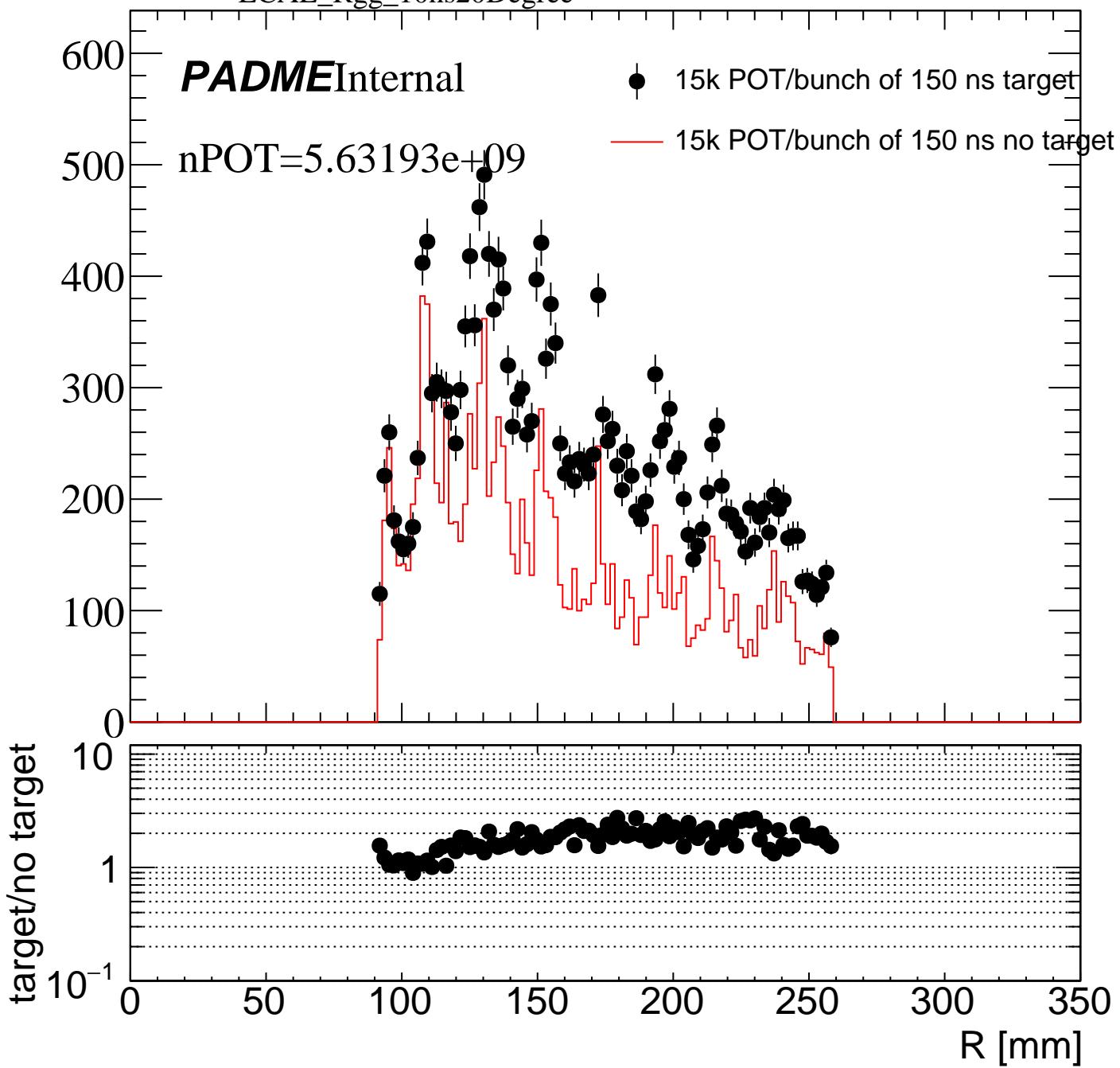
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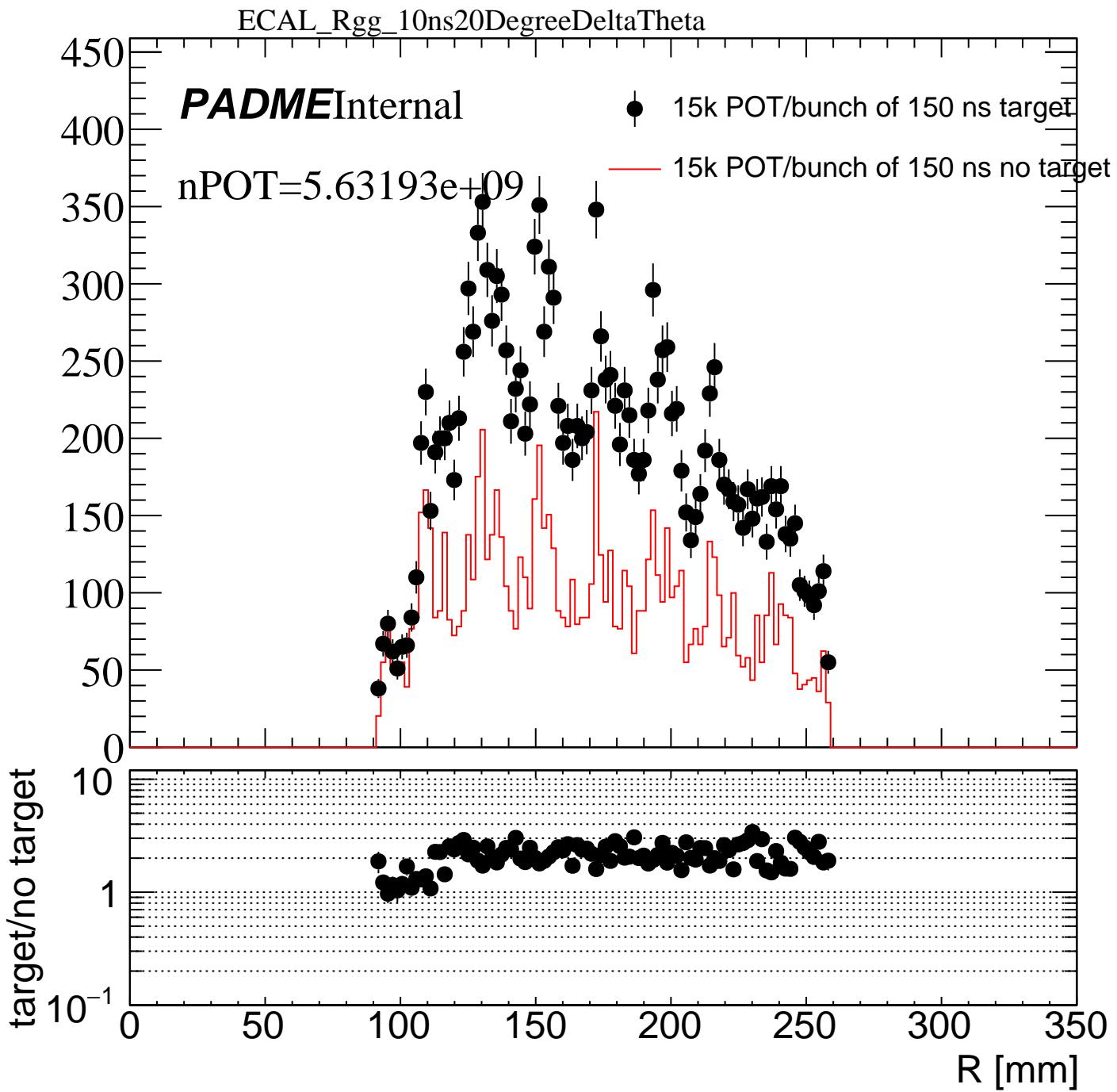


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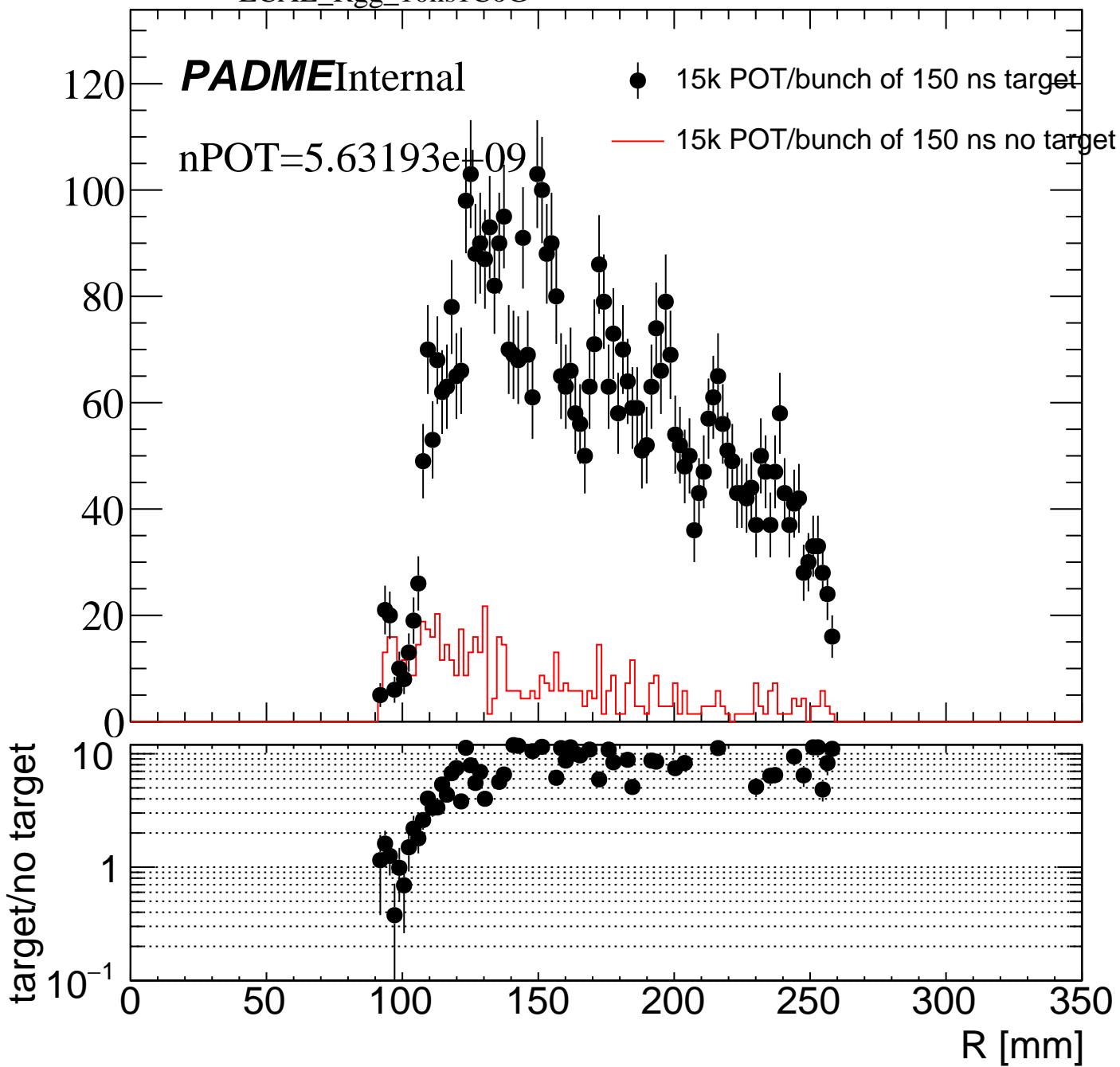


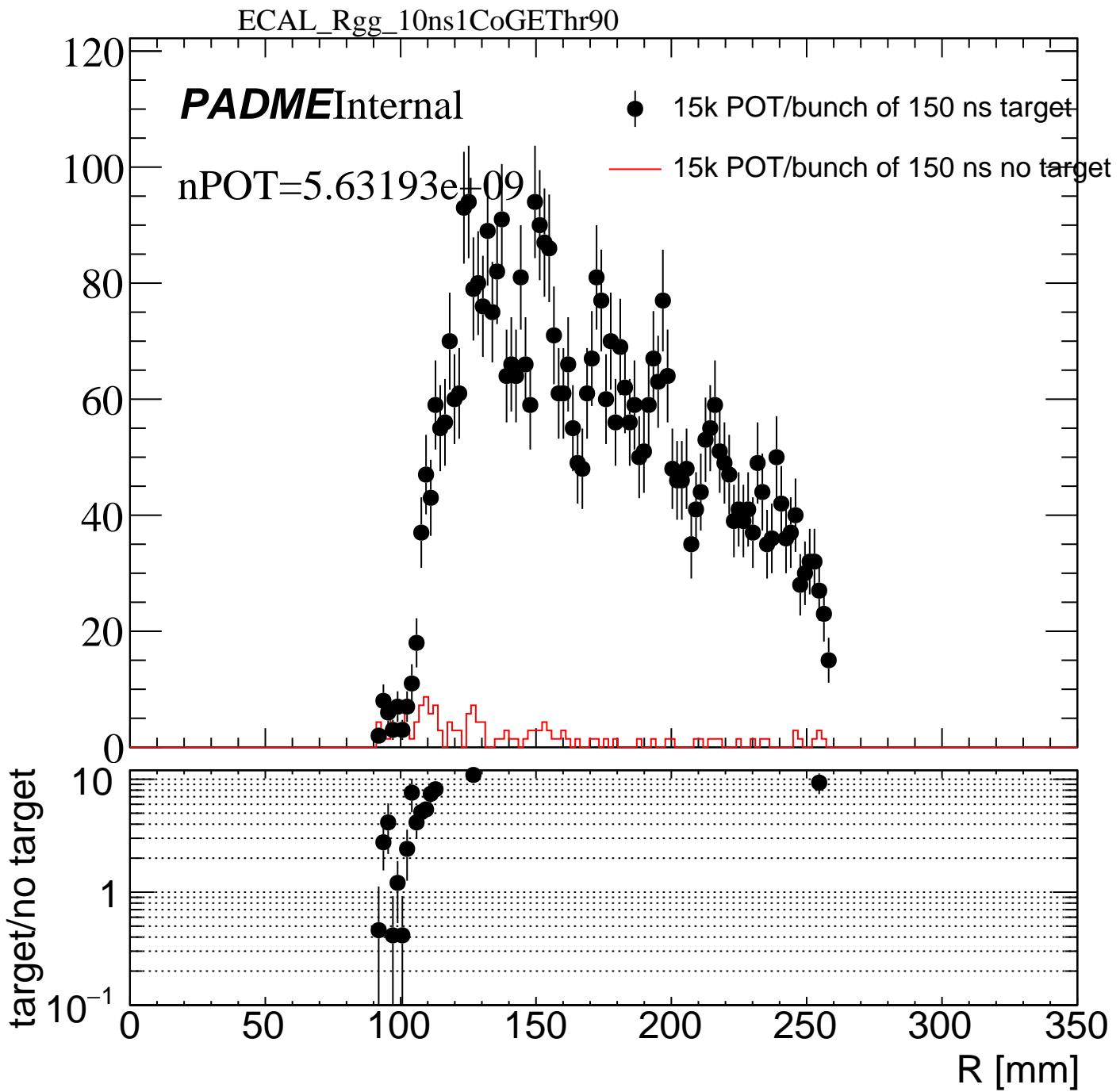
ECAL_Rgg_10ns20Degree



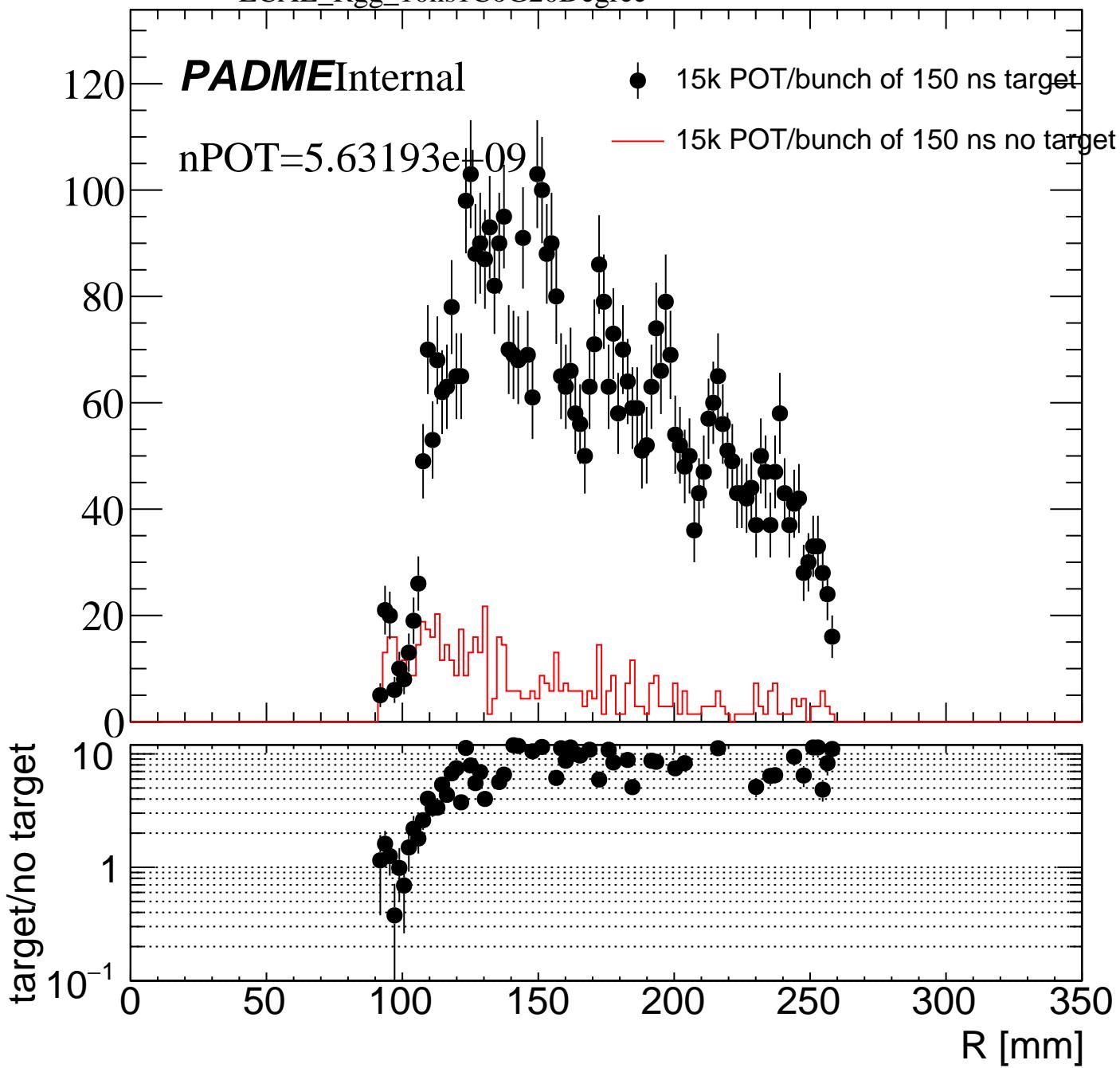


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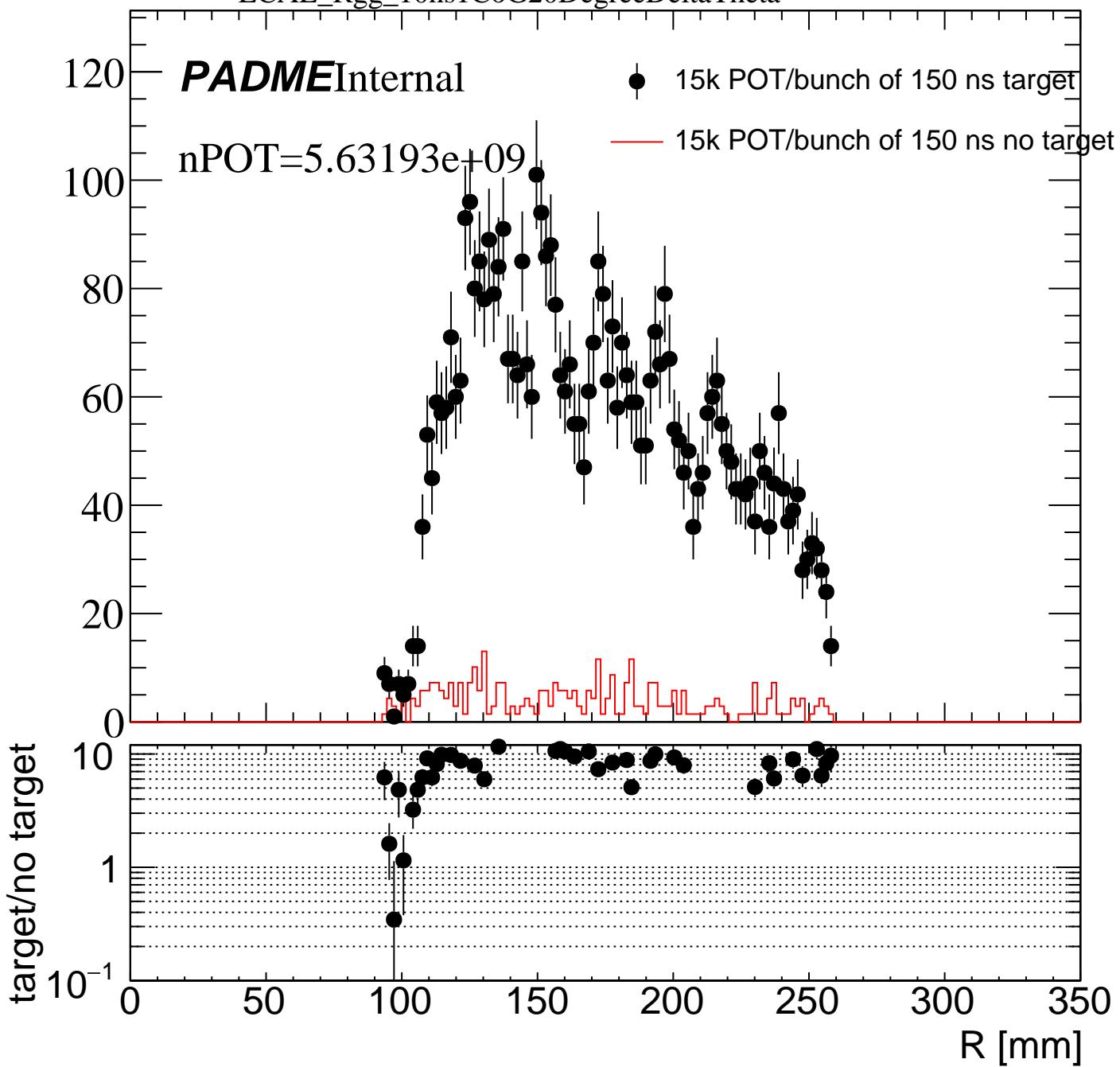




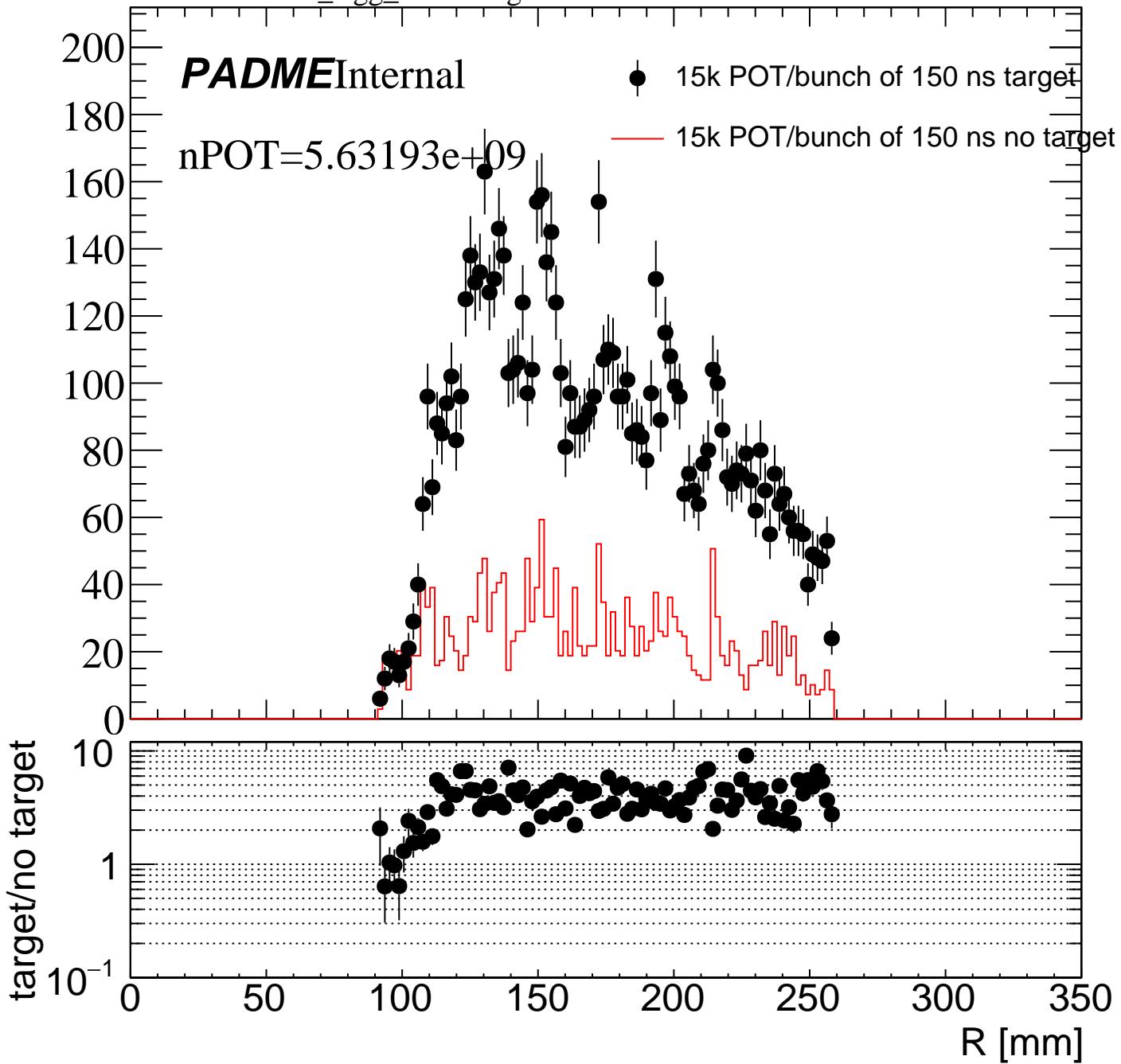
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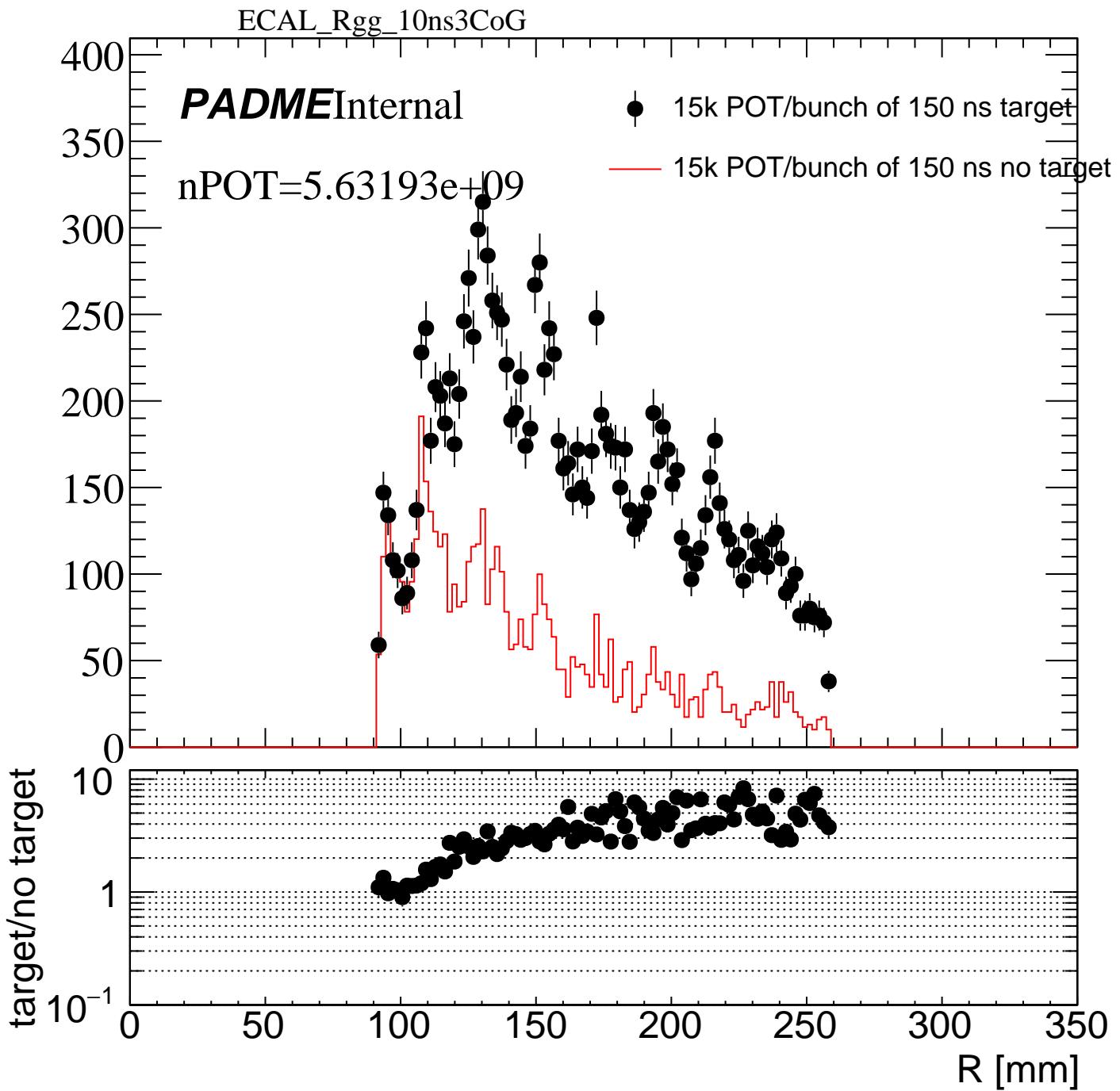


ECAL_Rgg_10ns1CoG20DegreeDeltaTheta

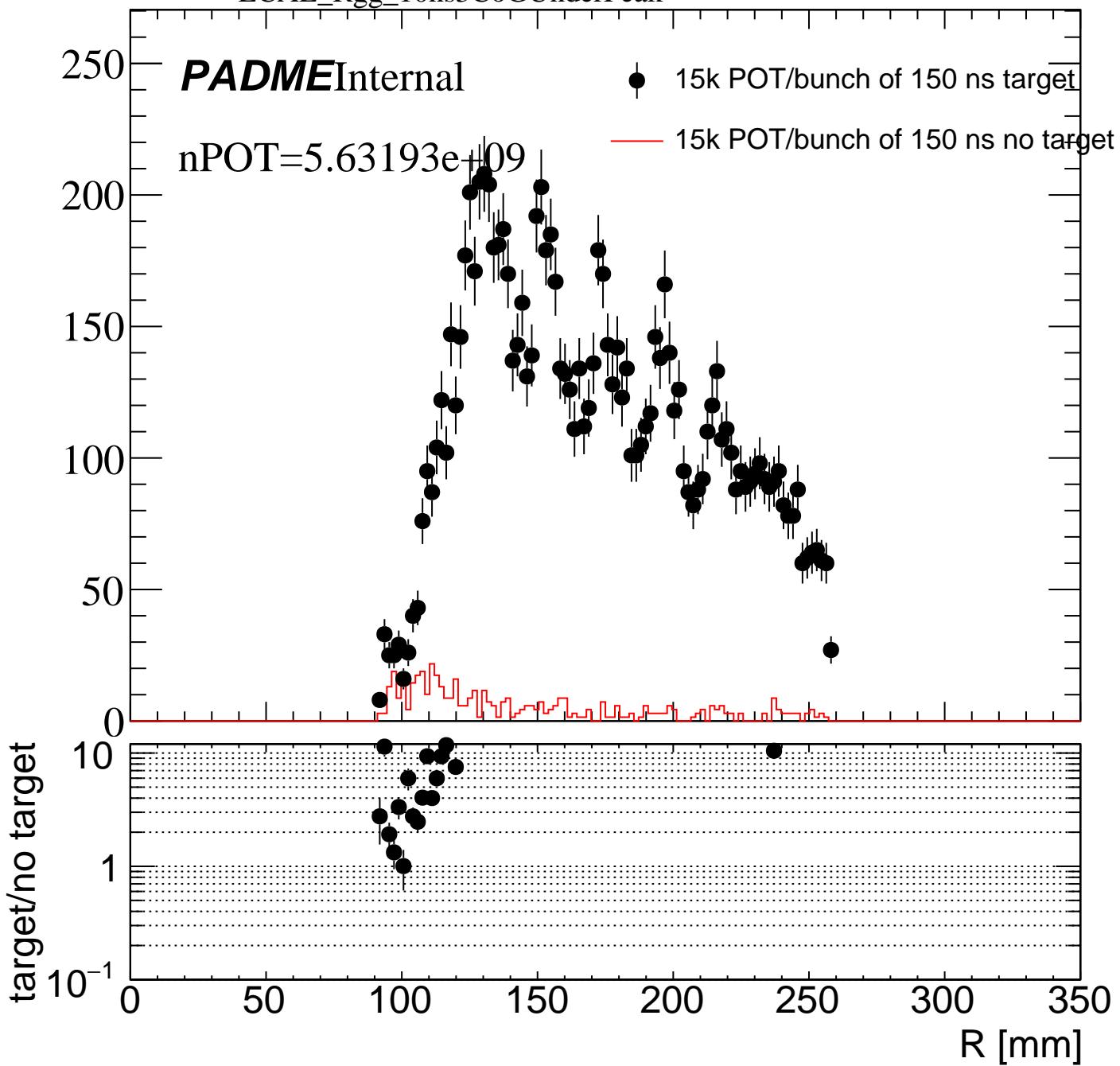


ECAL_Rgg_10ns5DegreeDeltaTheta

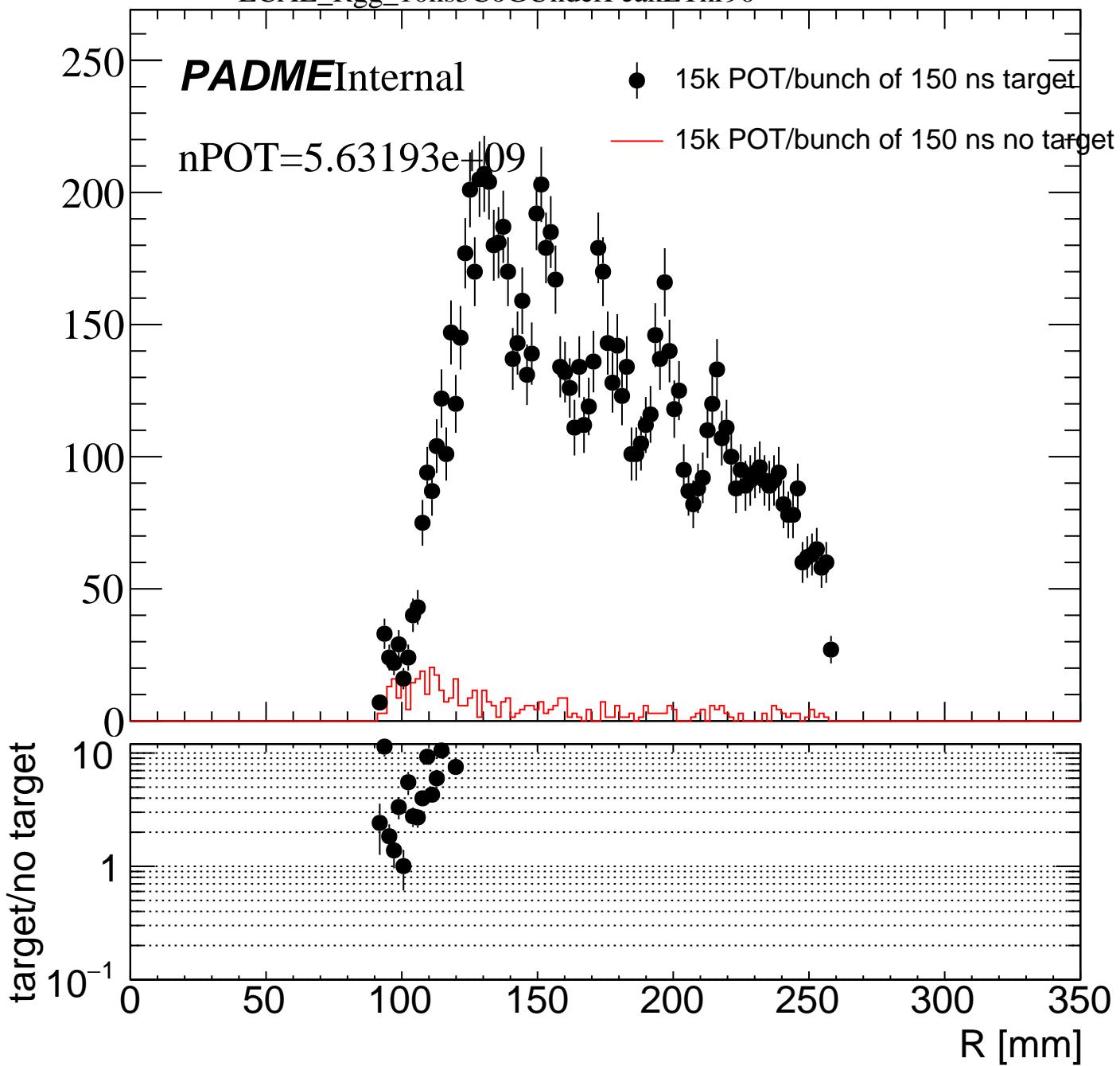




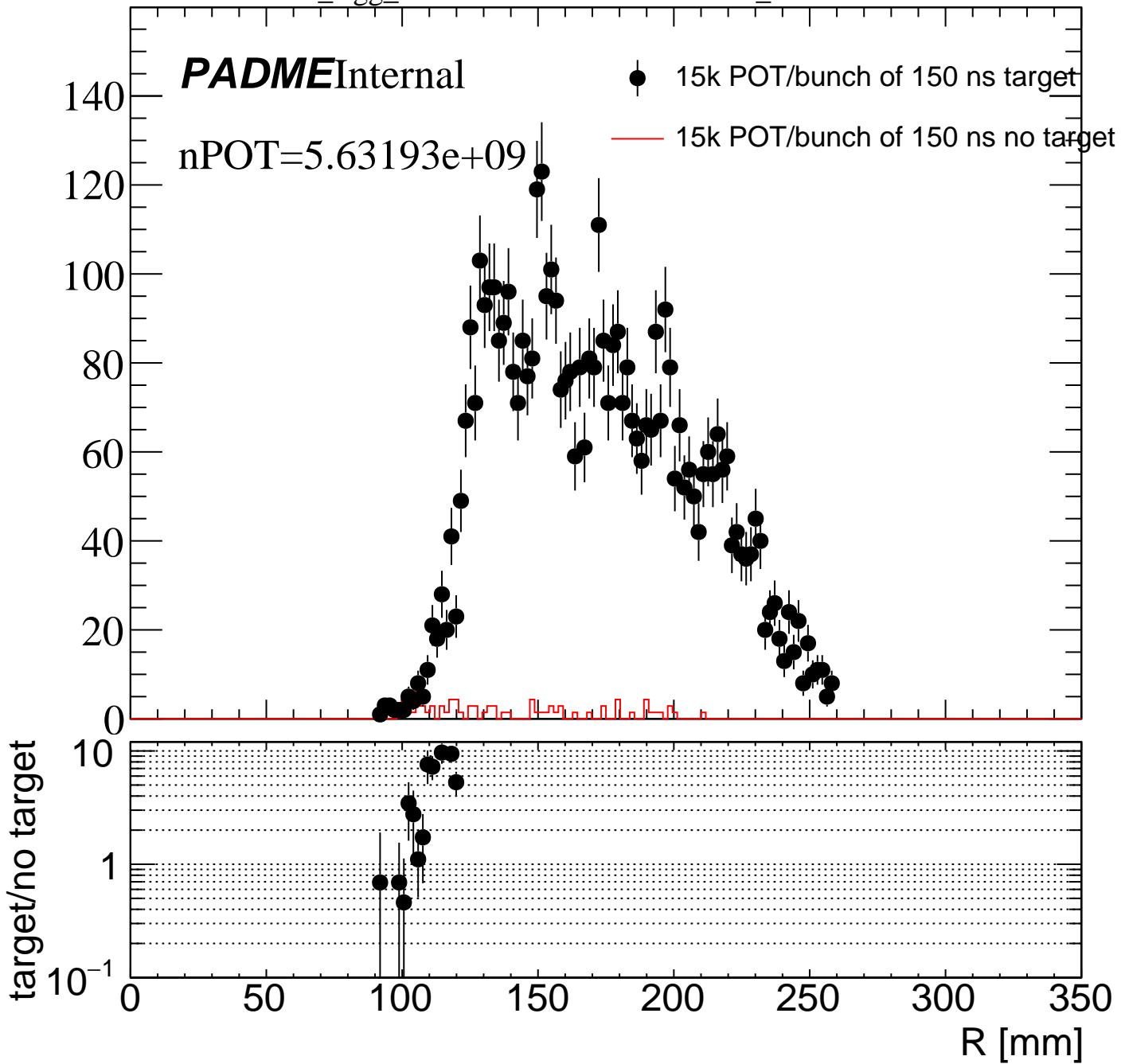
ECAL_Rgg_10ns3CoGUnderPeak



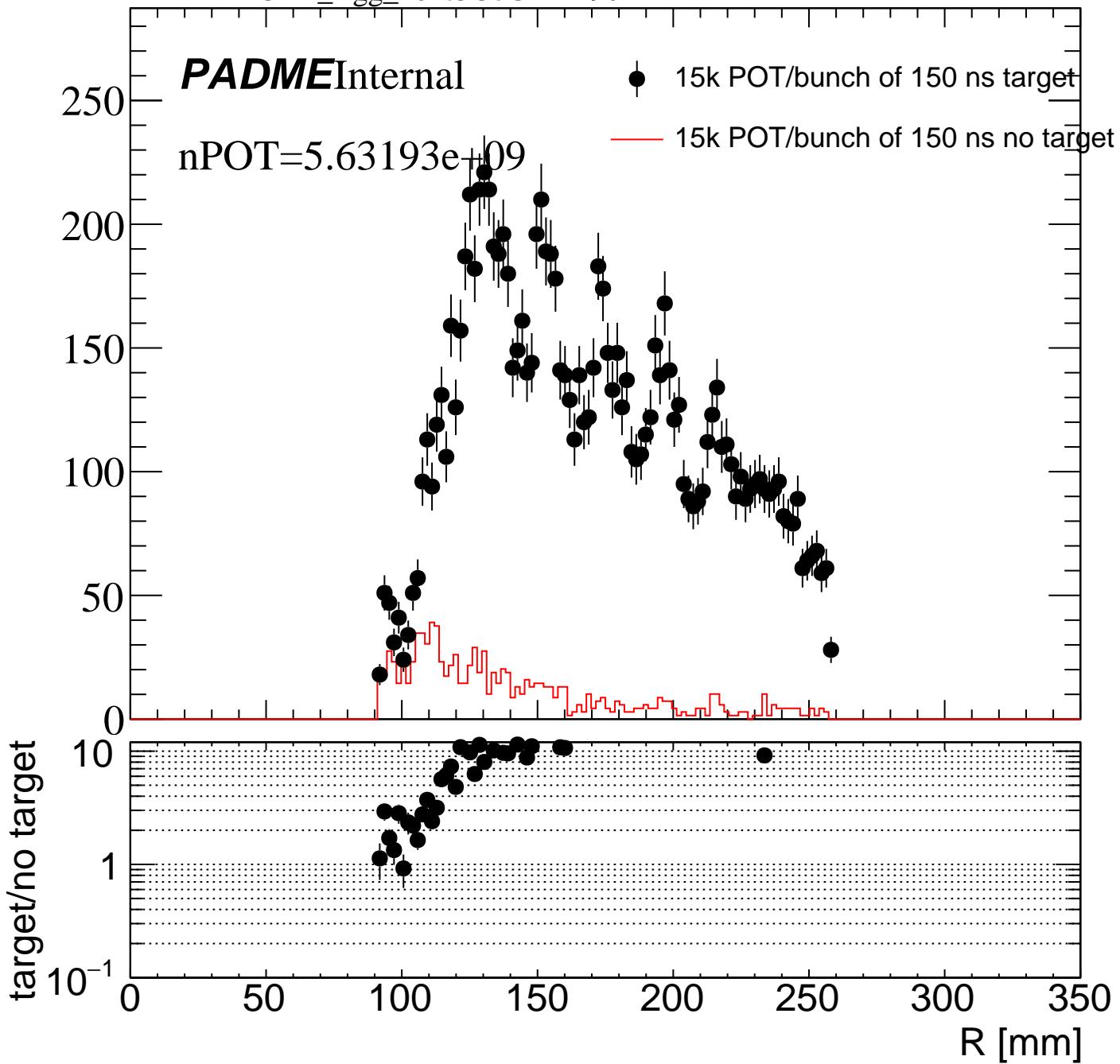
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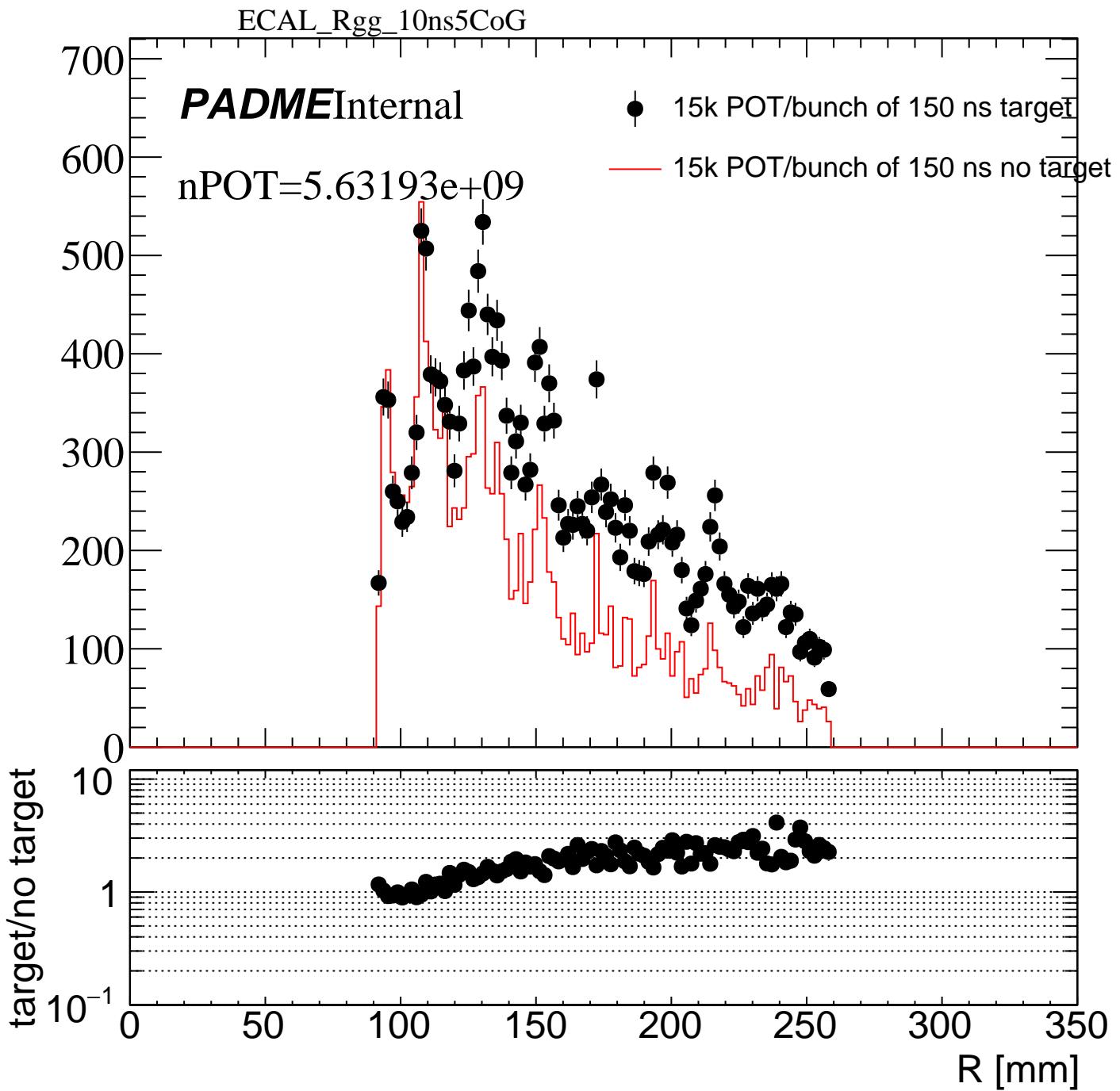


ECAL_Rgg_10ns3CoGUnderPeakEThr90_FRY

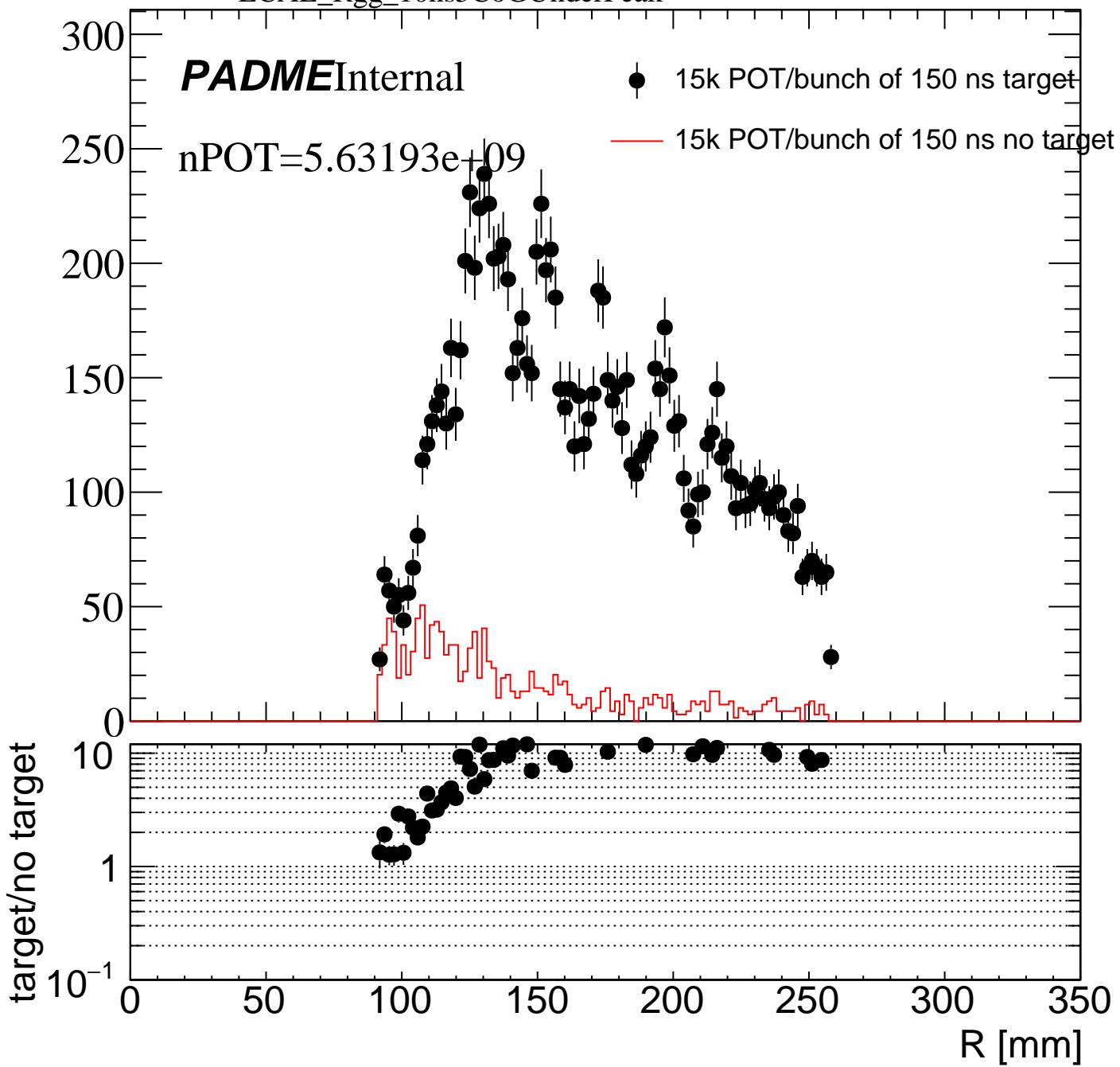


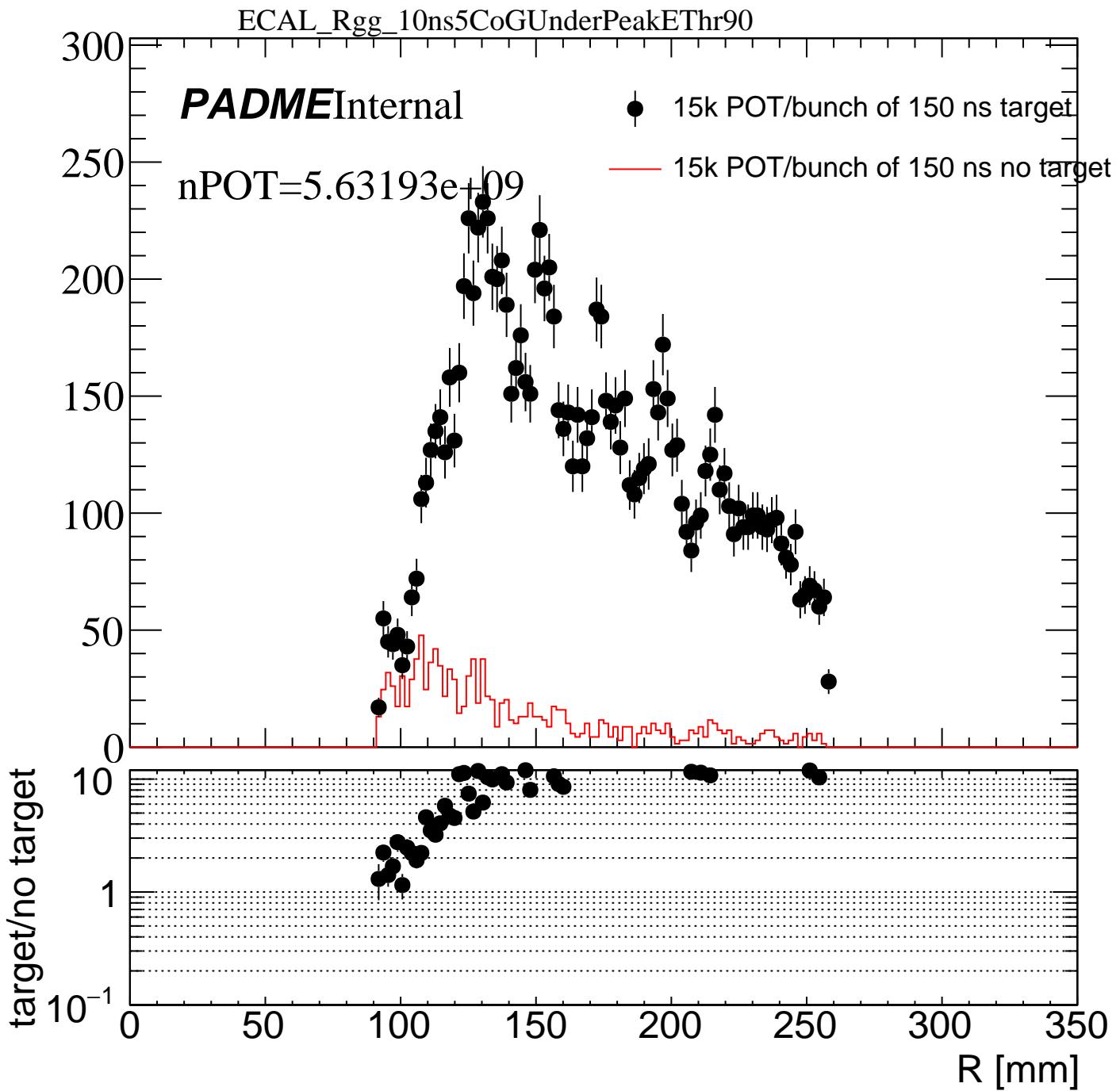
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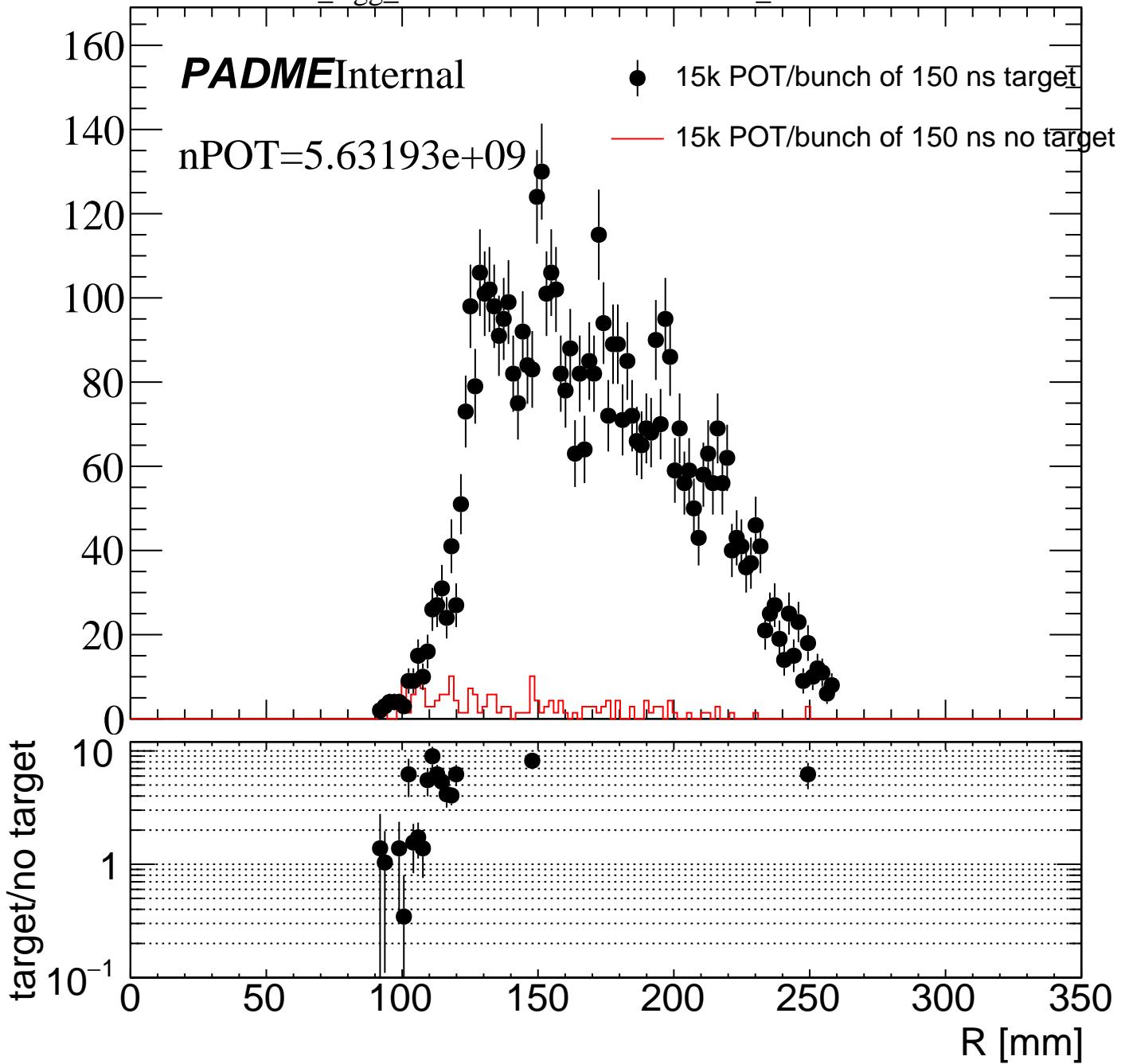


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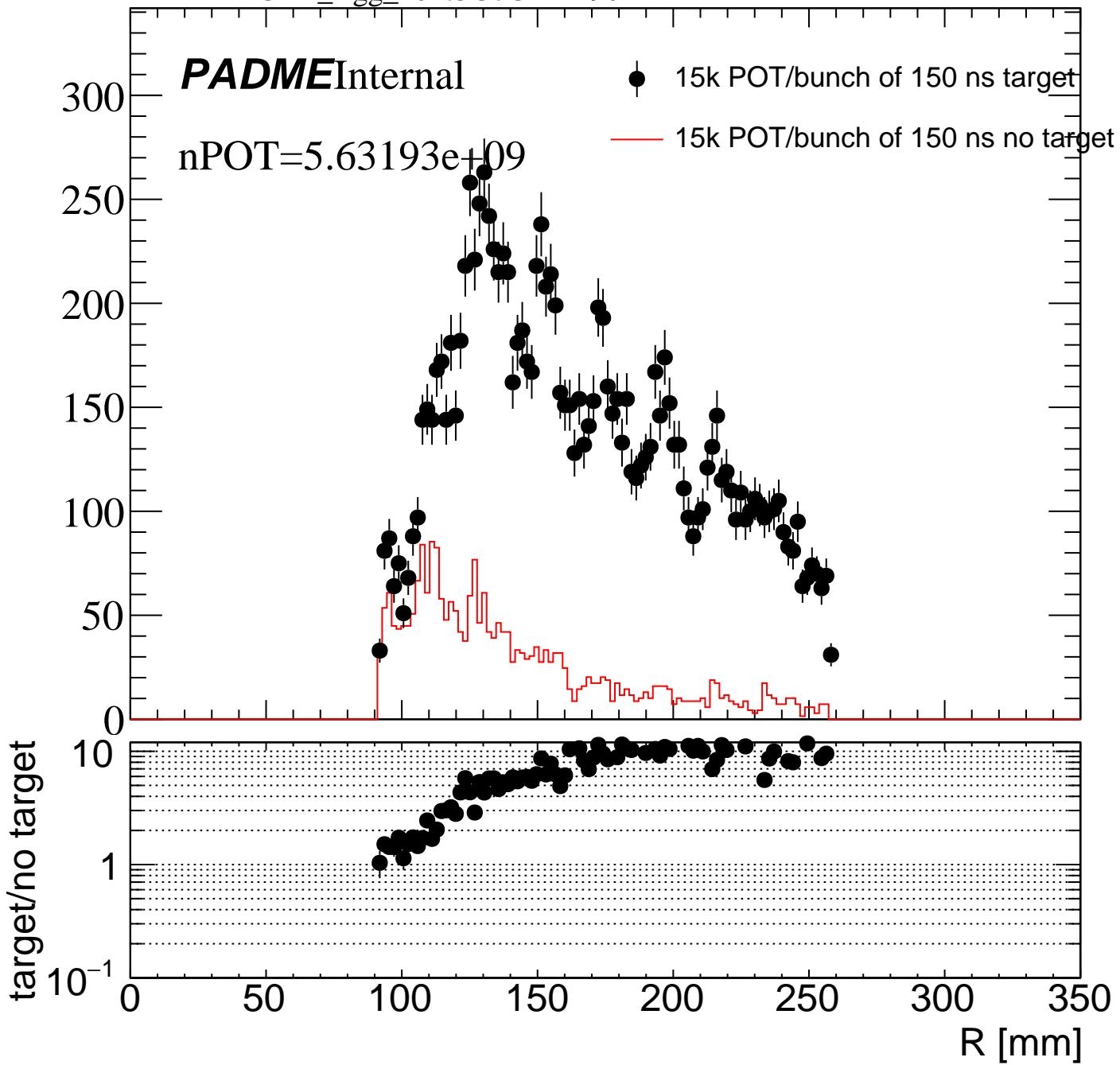




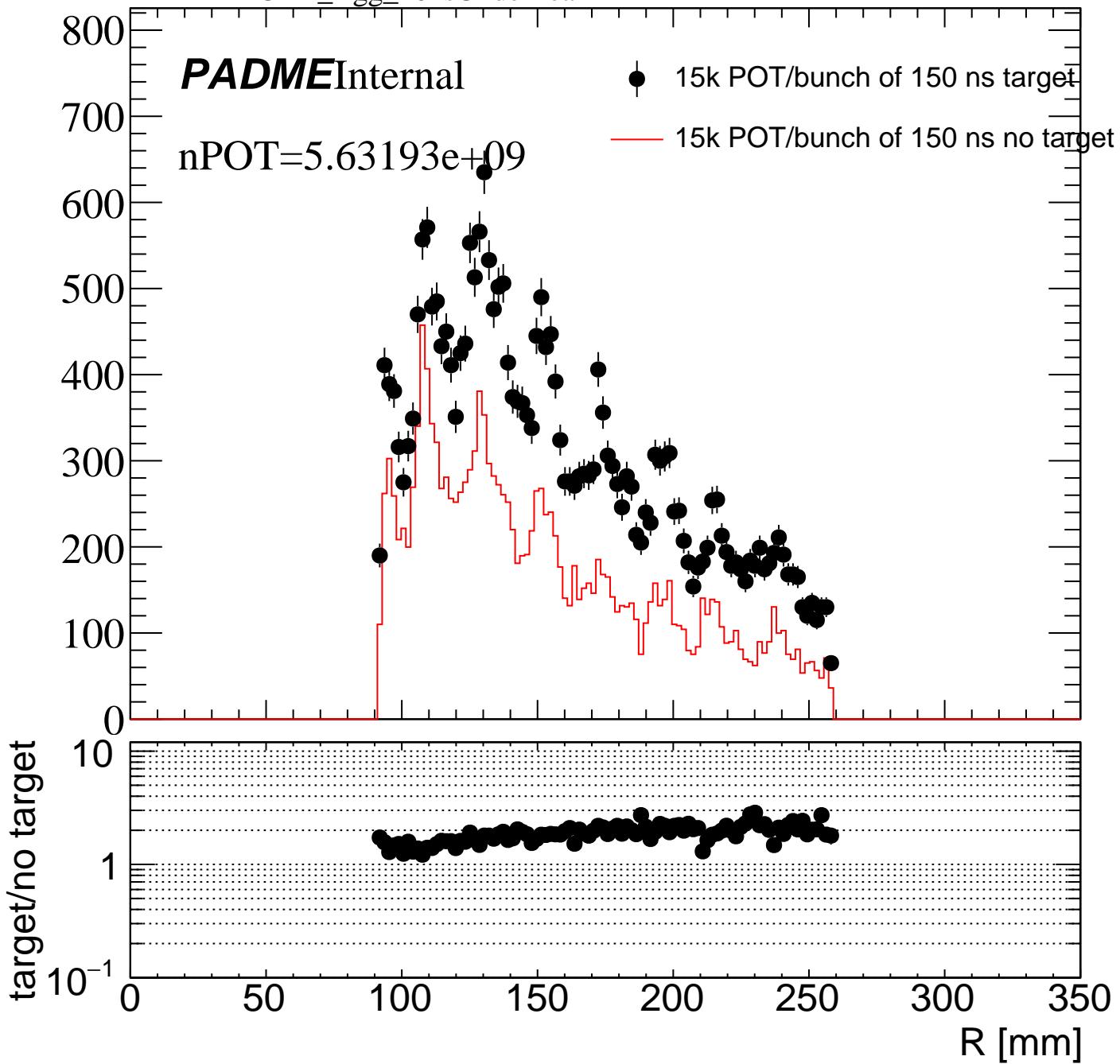
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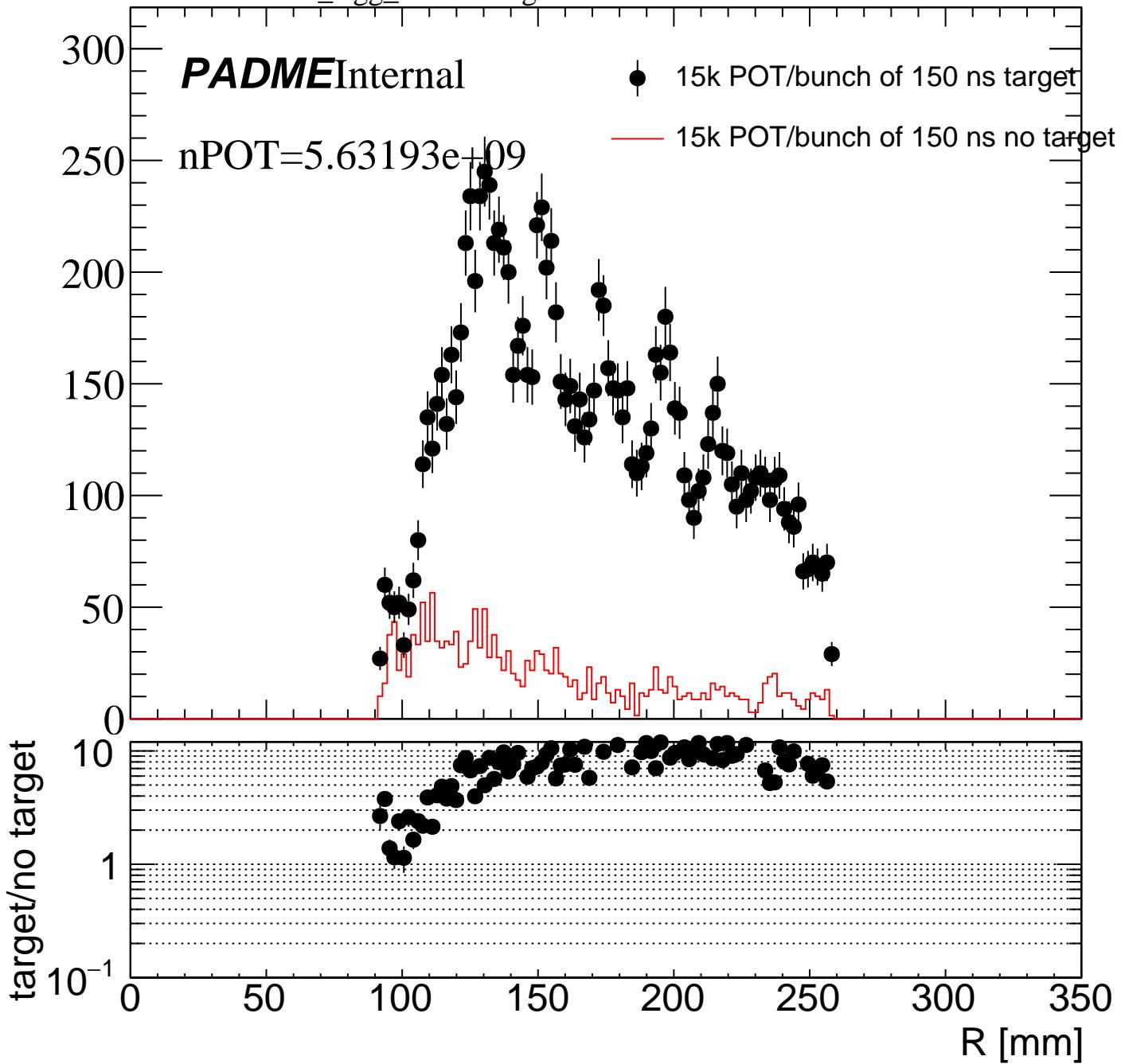
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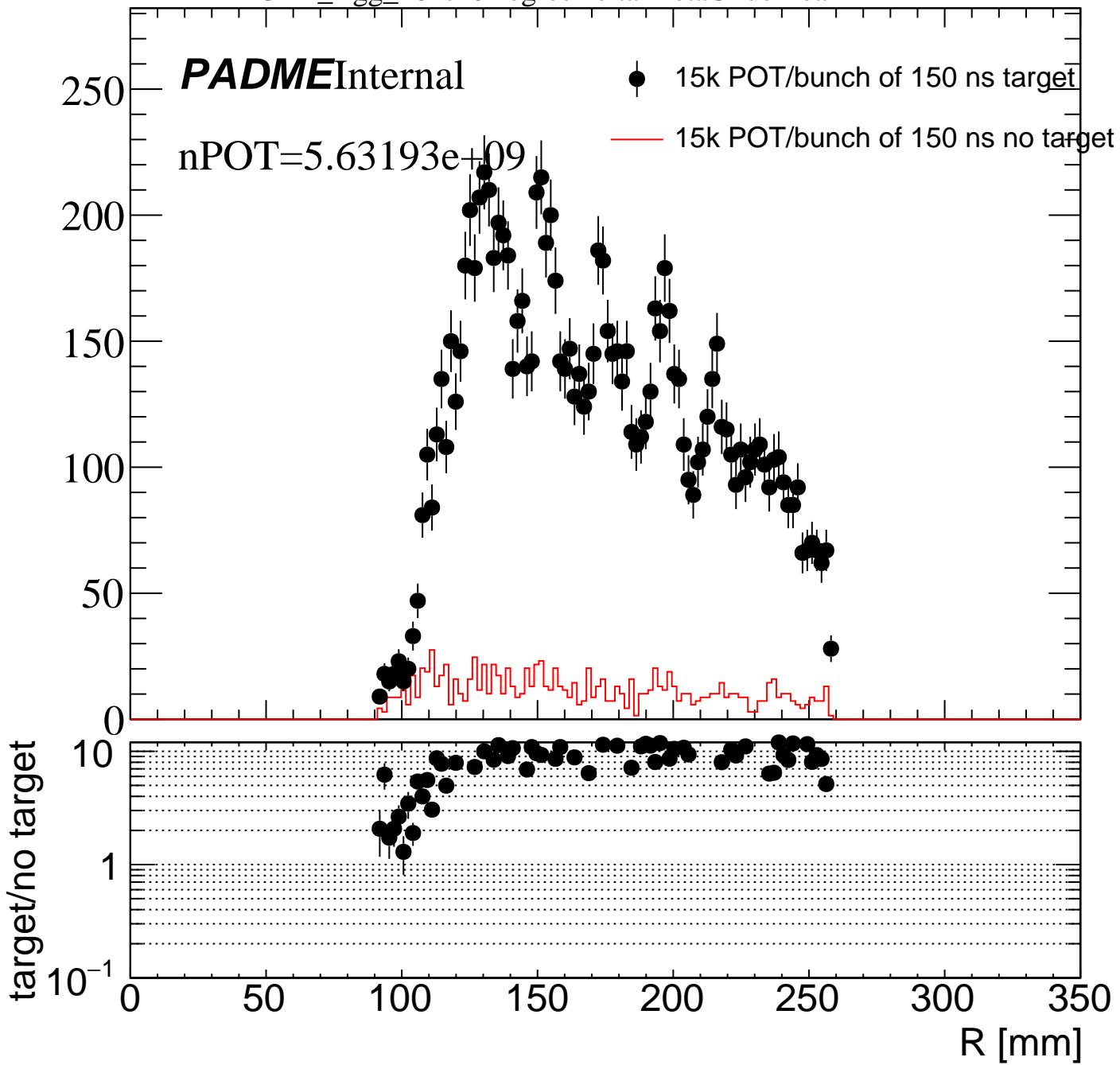
ECAL_Rgg_10nsUnderPeak

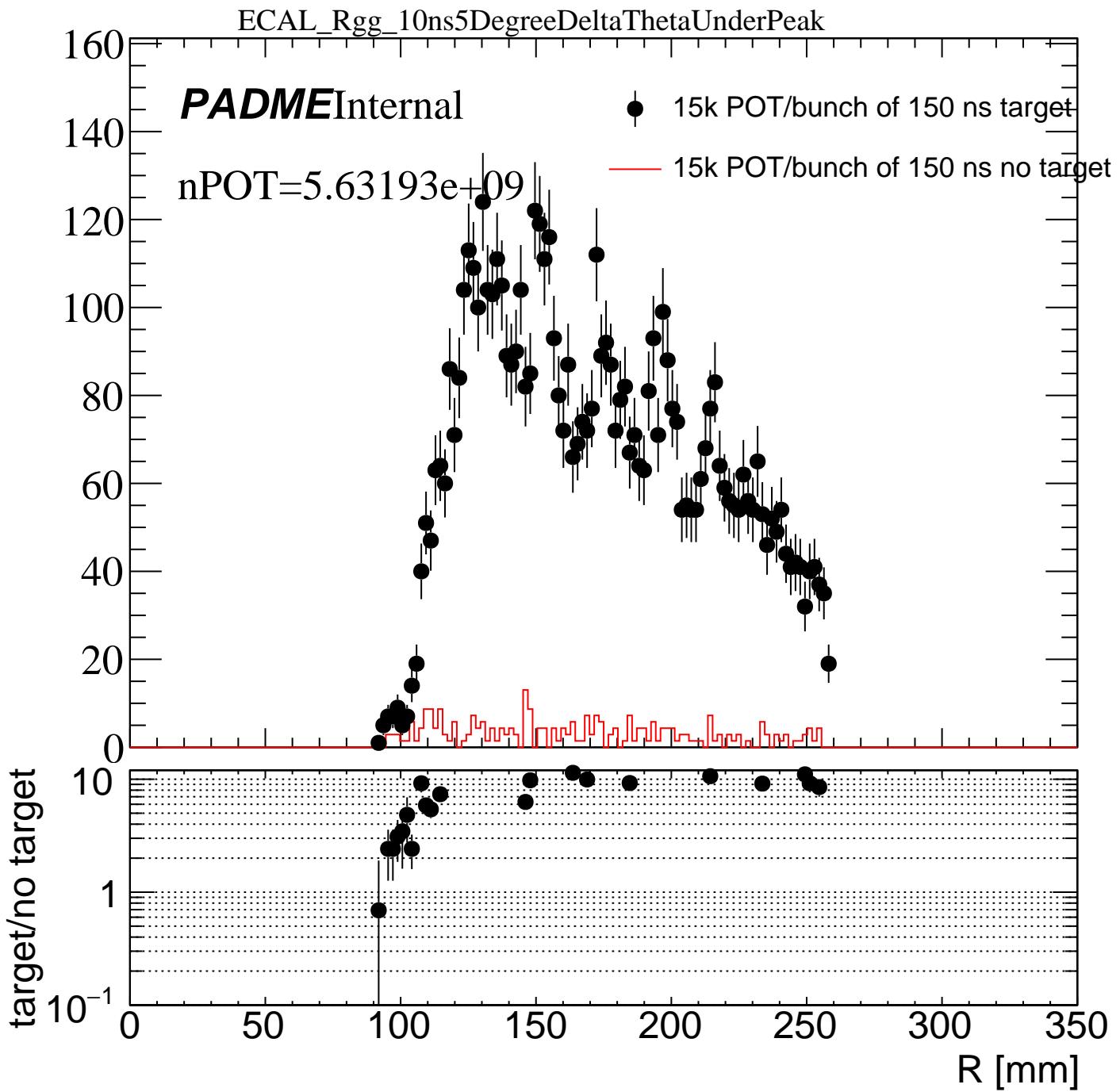


ECAL_Rgg_10ns20DegreeUnderPeak

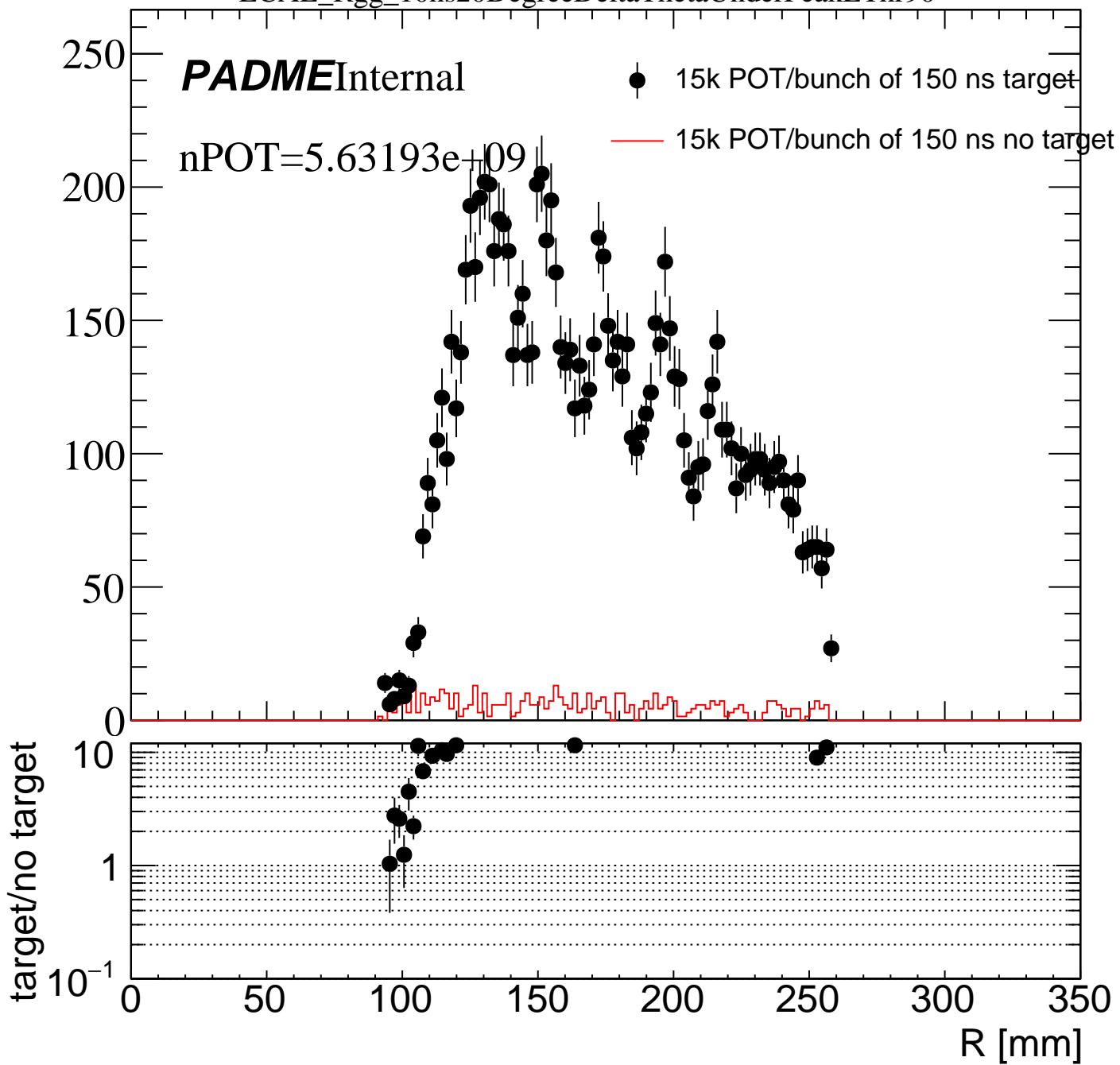


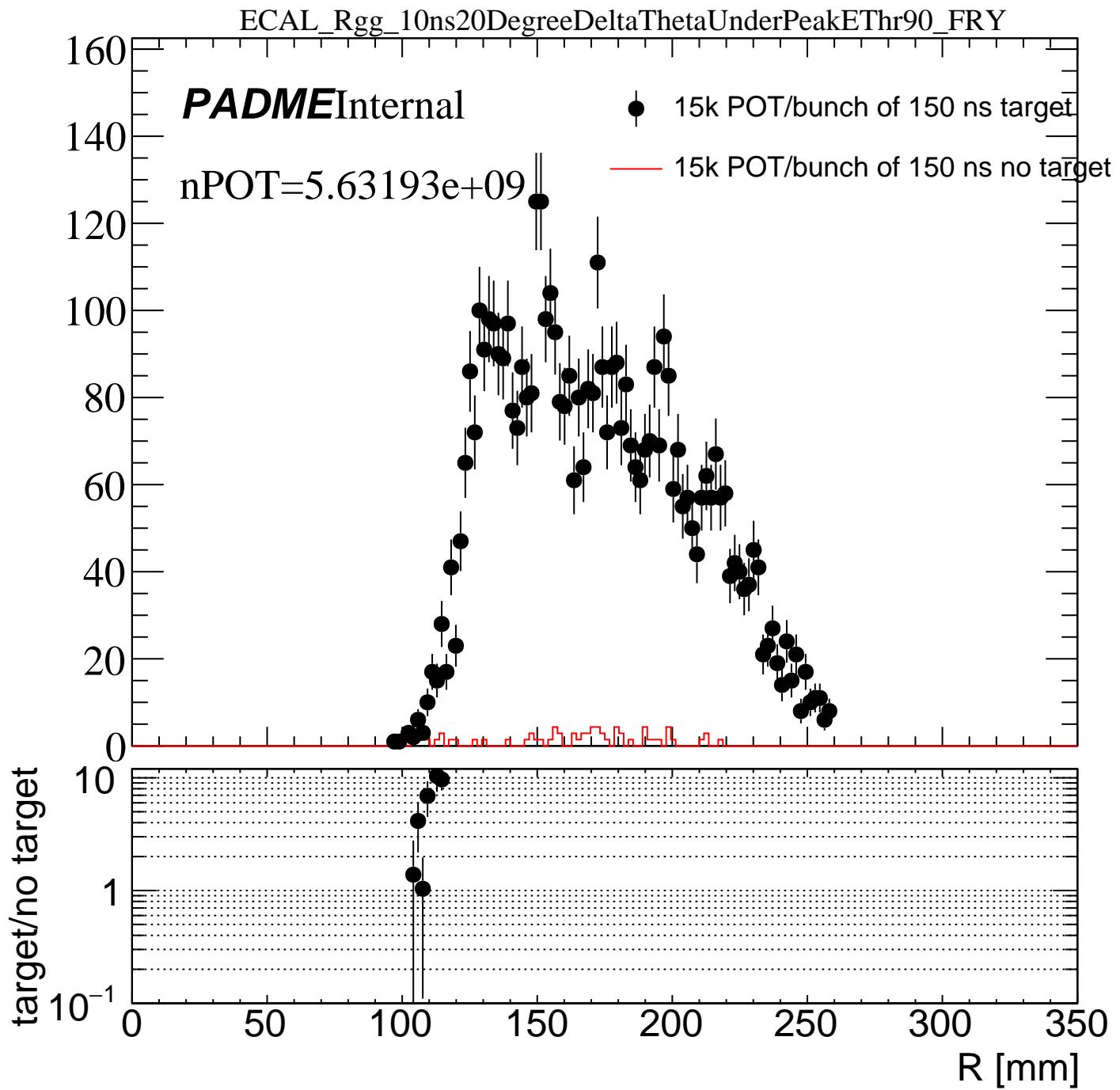
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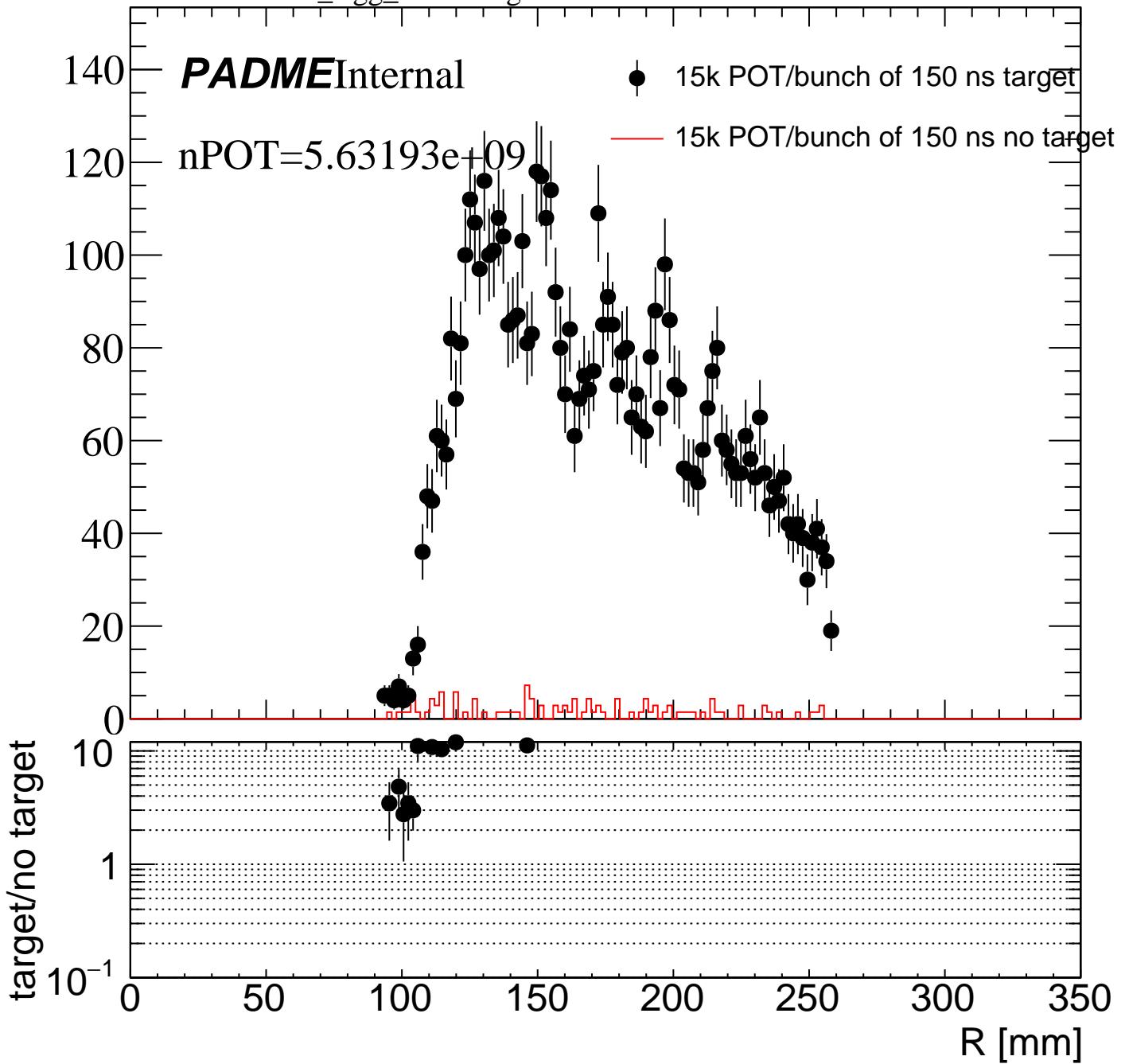


ECAL_Rgg_10ns20DegreeDeltaThetaUnderPeakEThr90

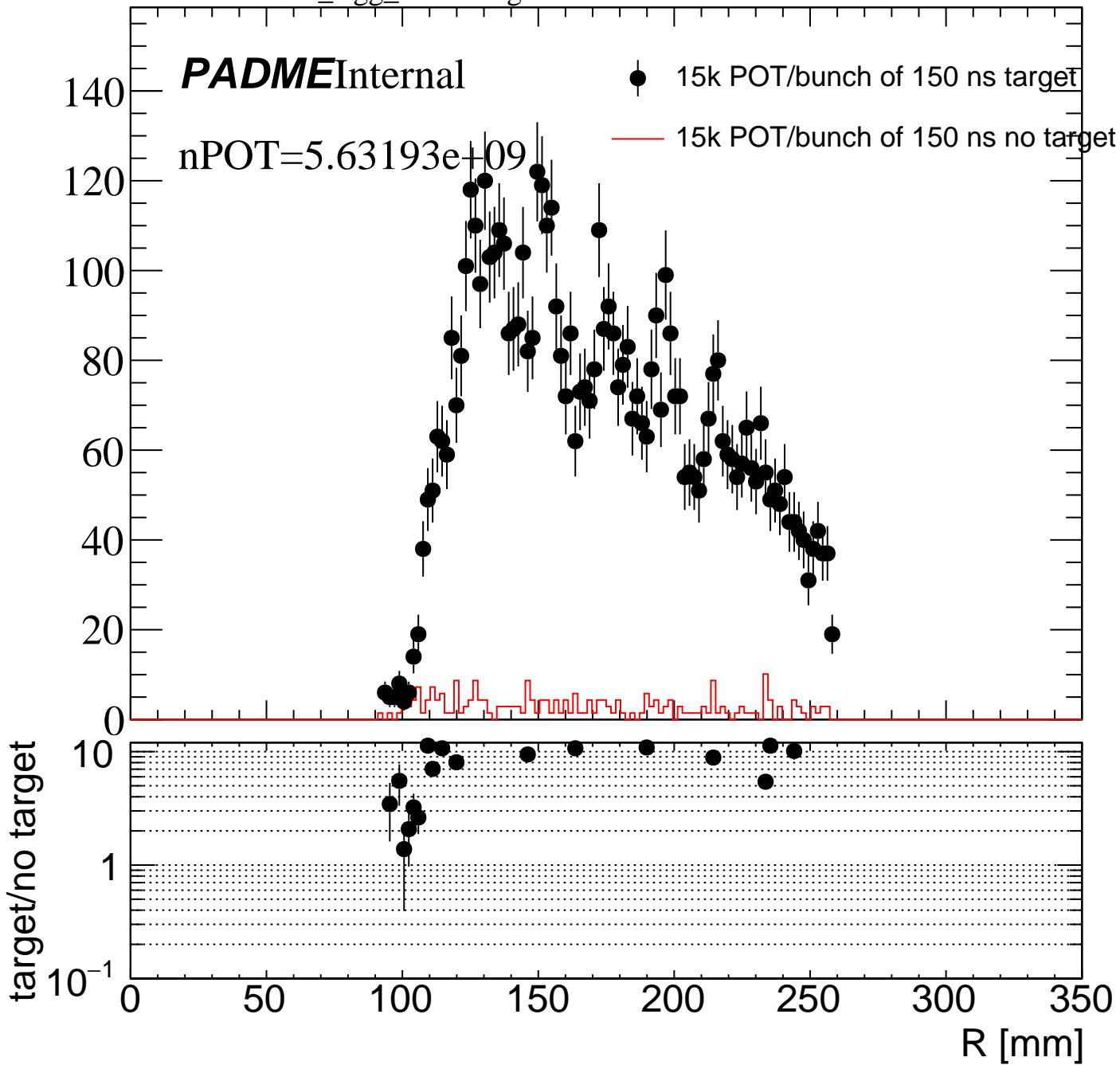




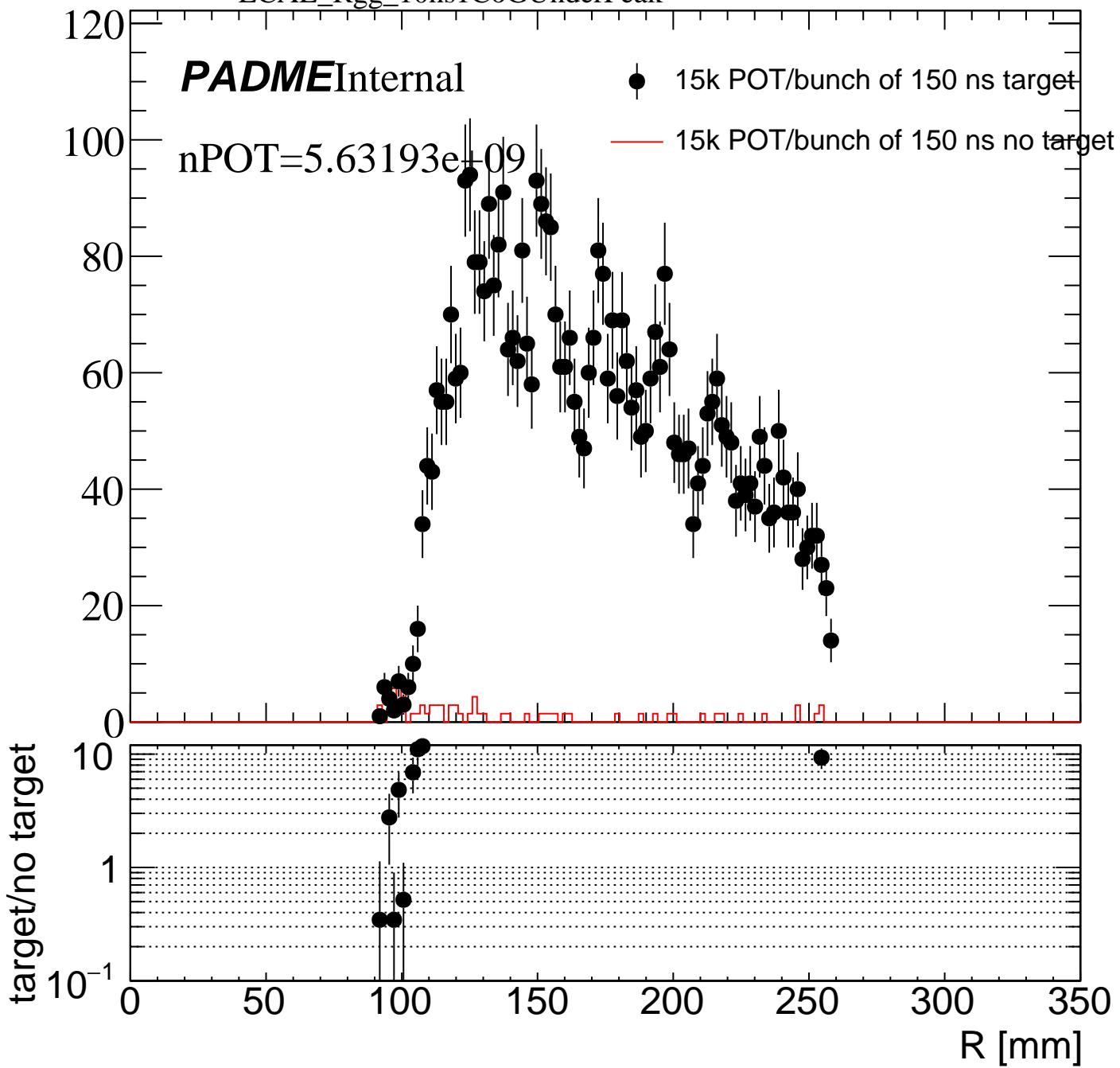
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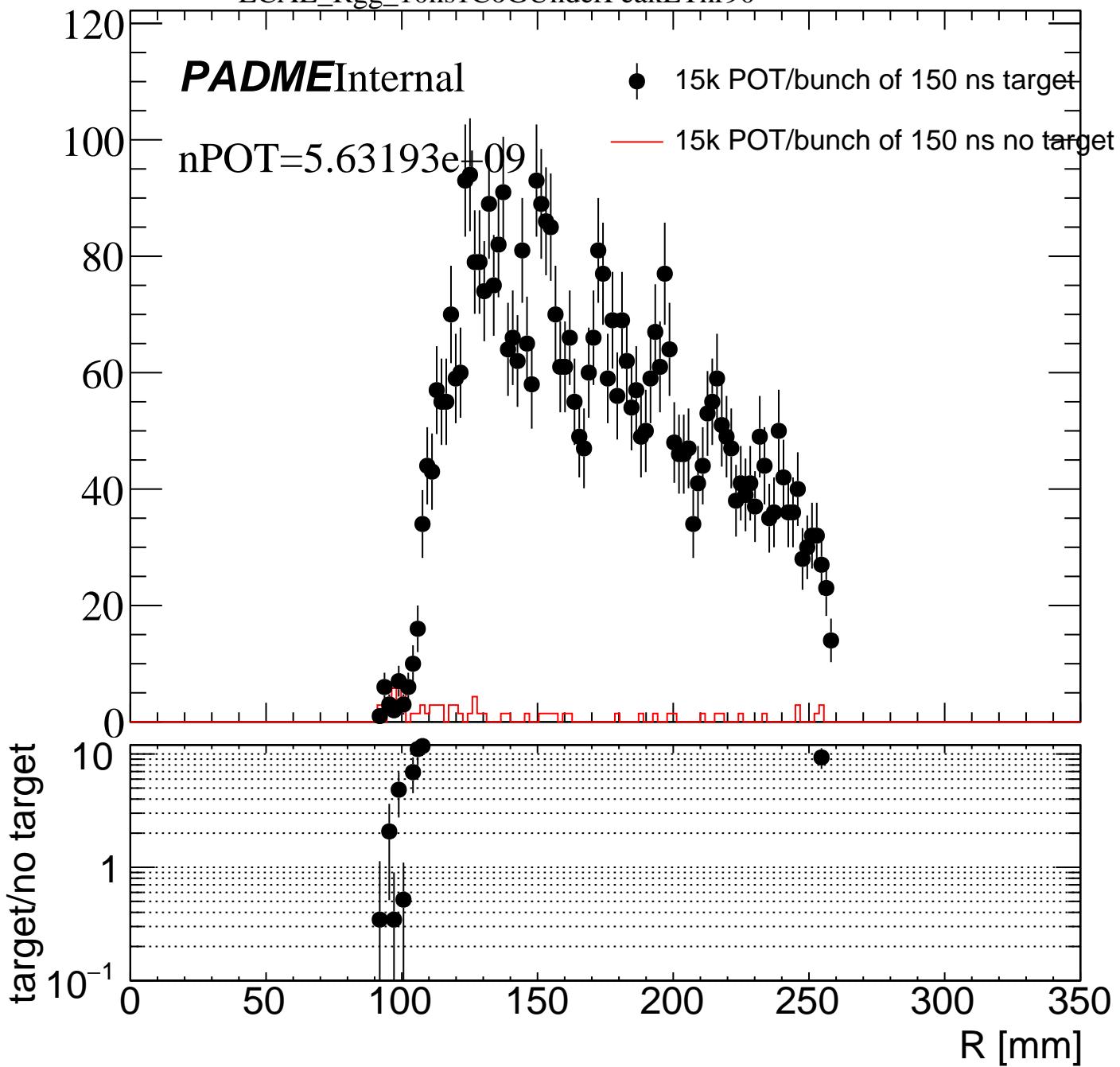
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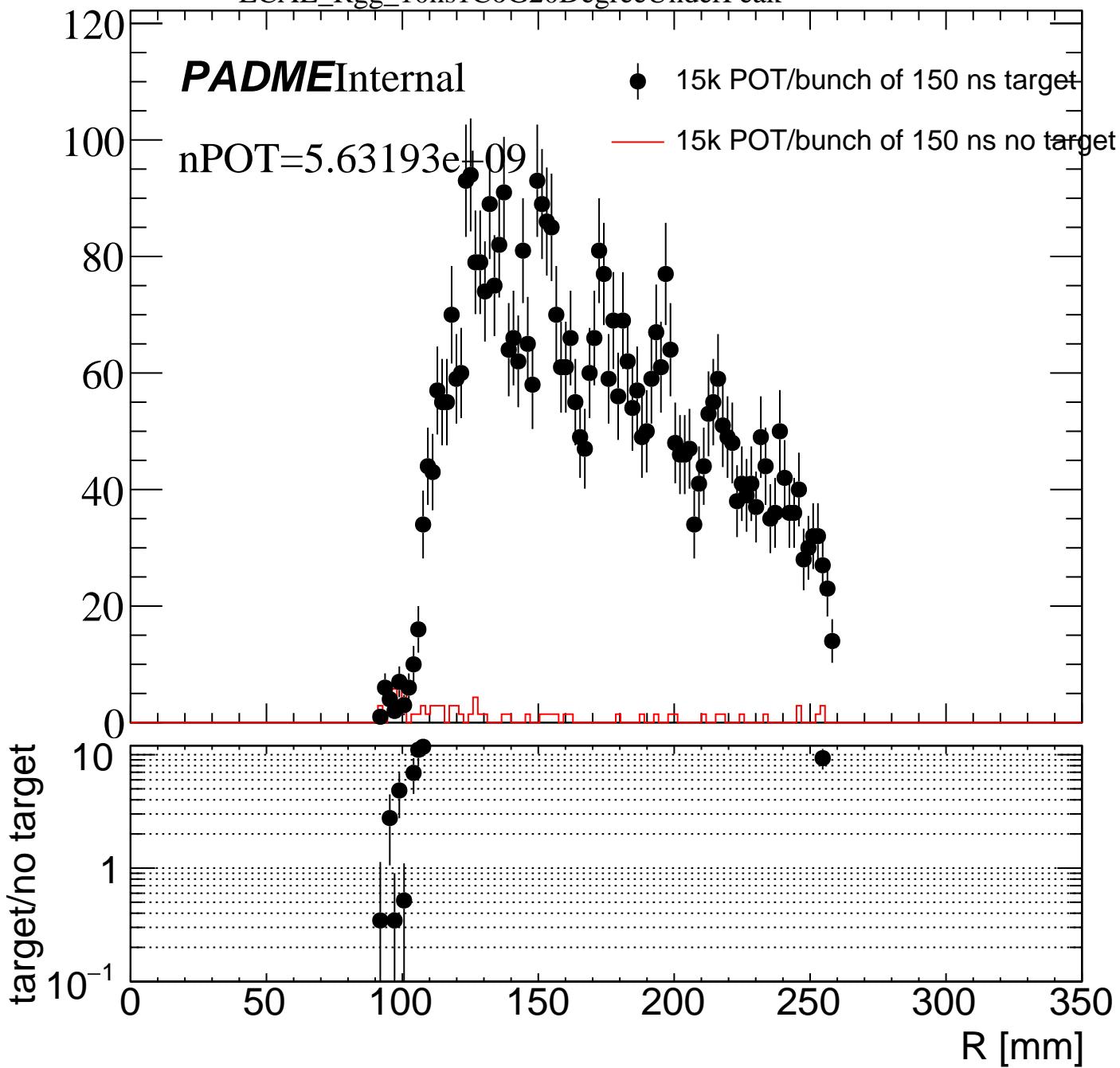
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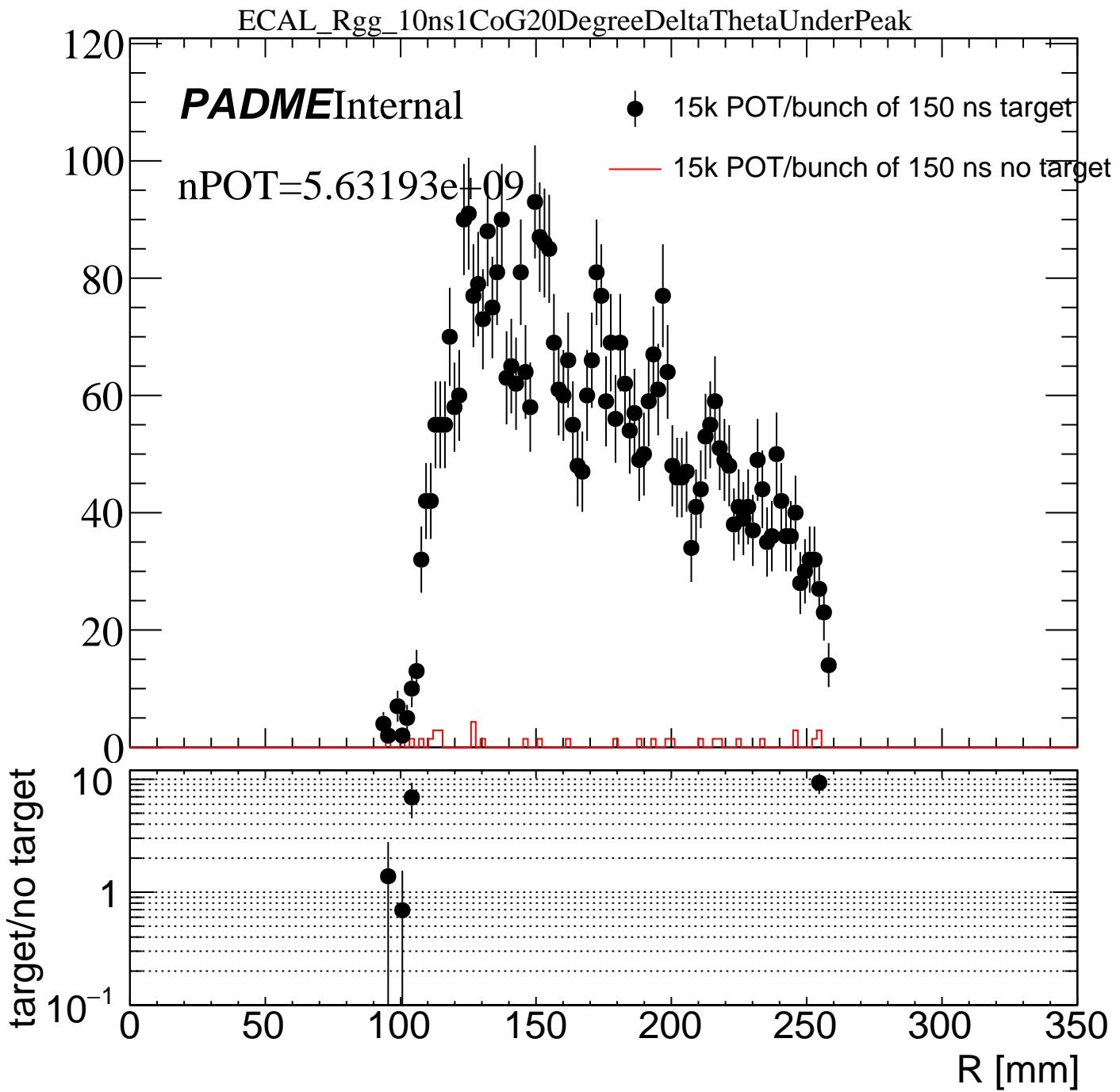


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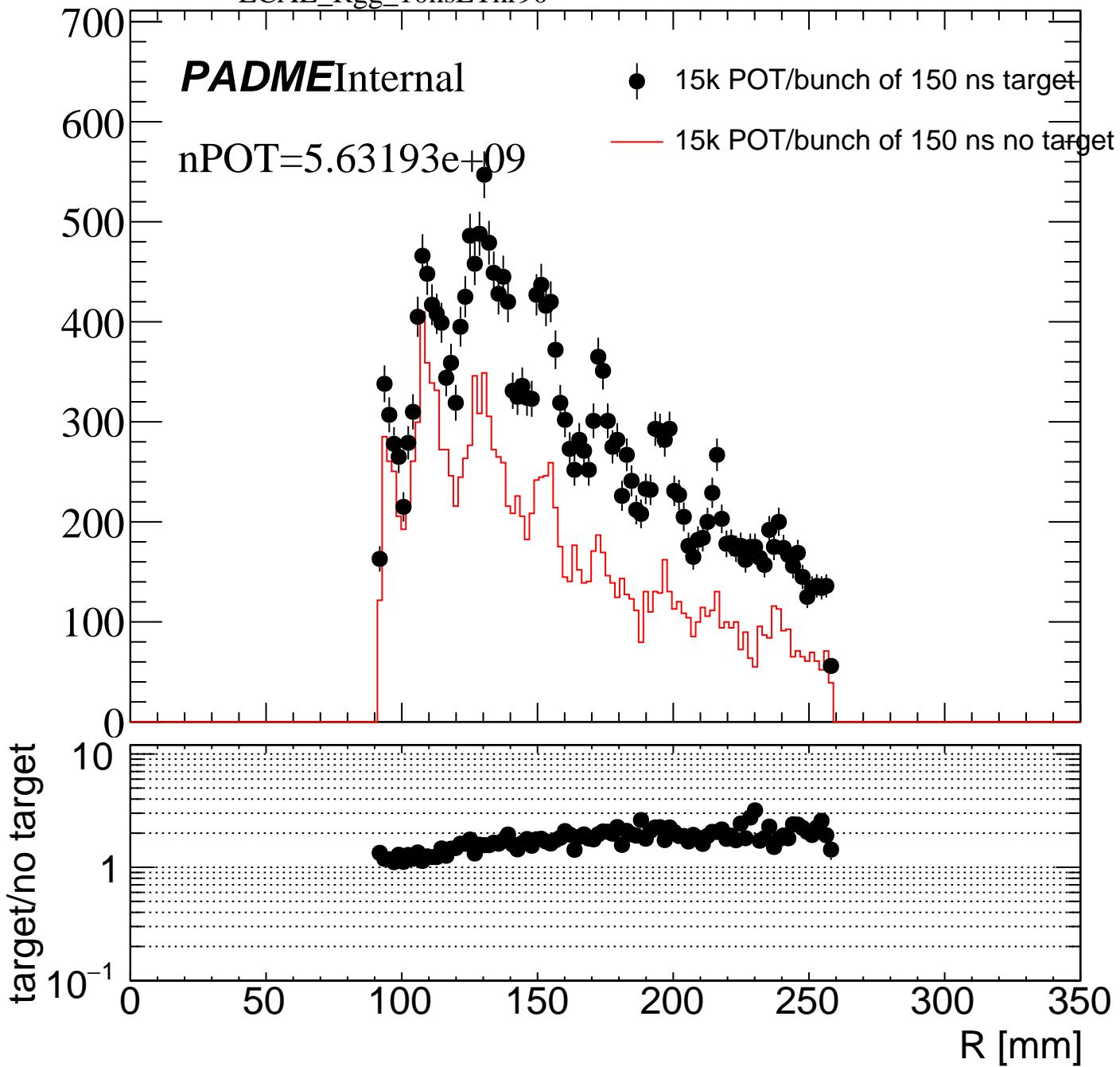


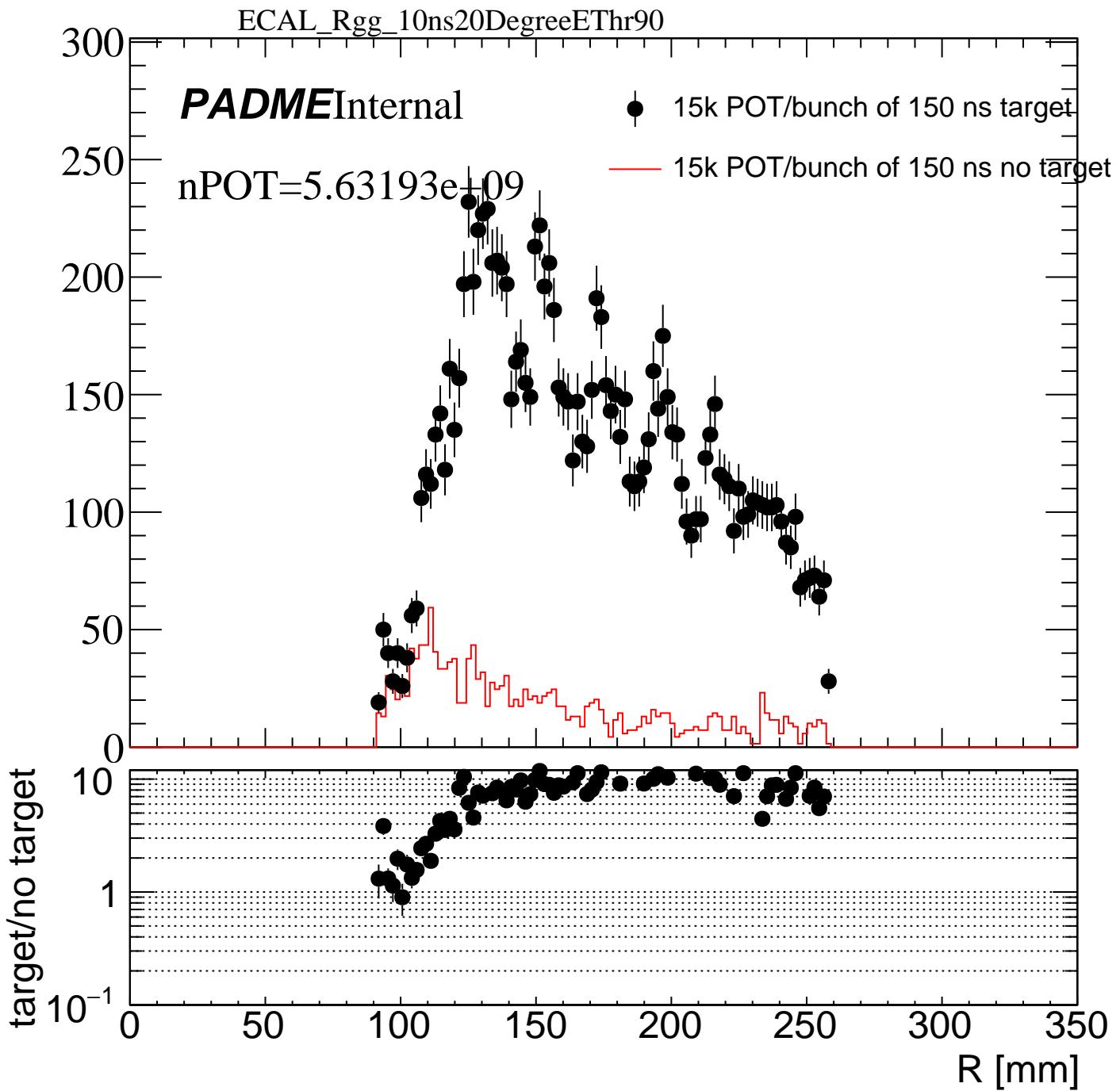
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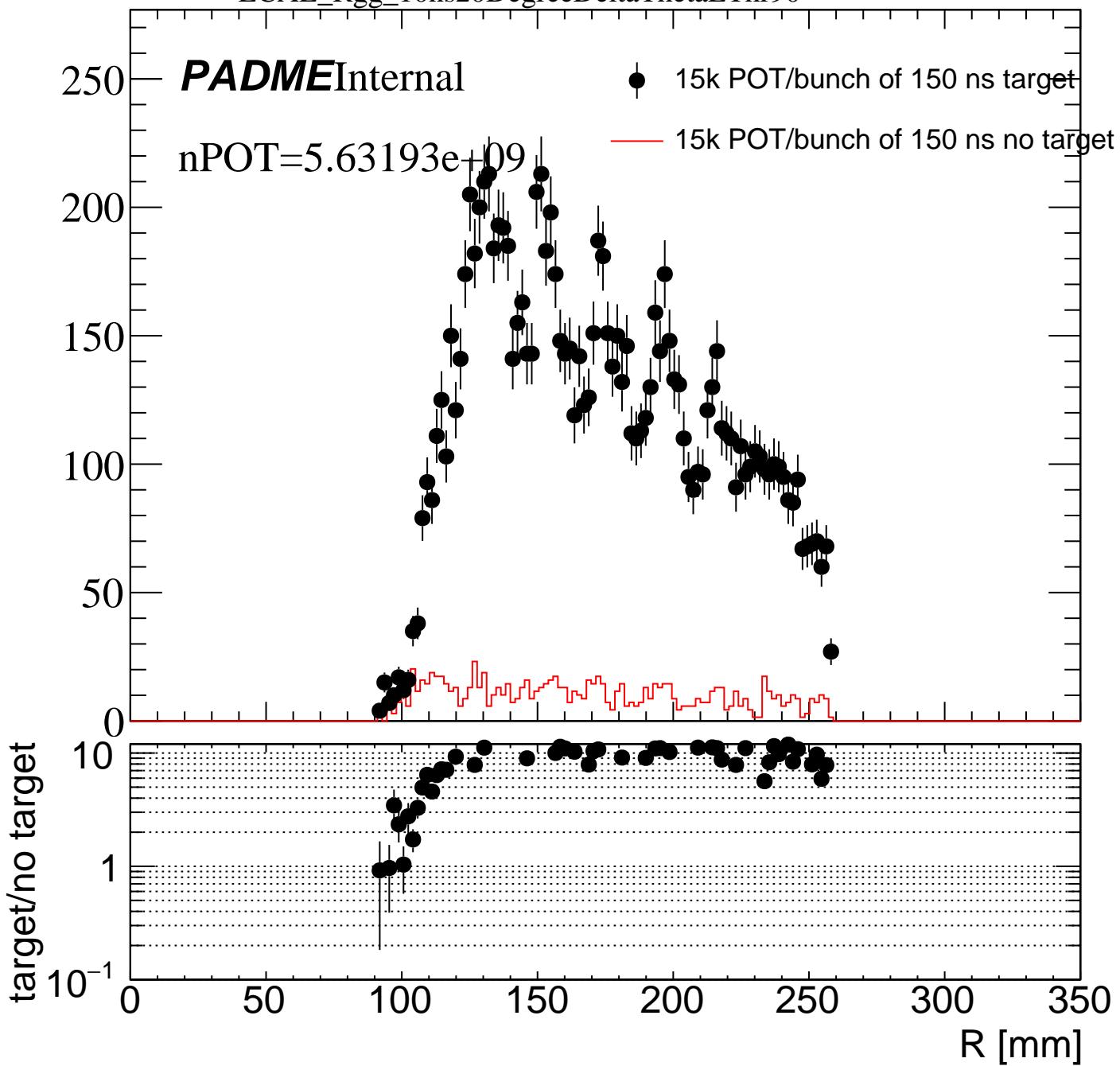


ECAL_Rgg_10nsETHr90

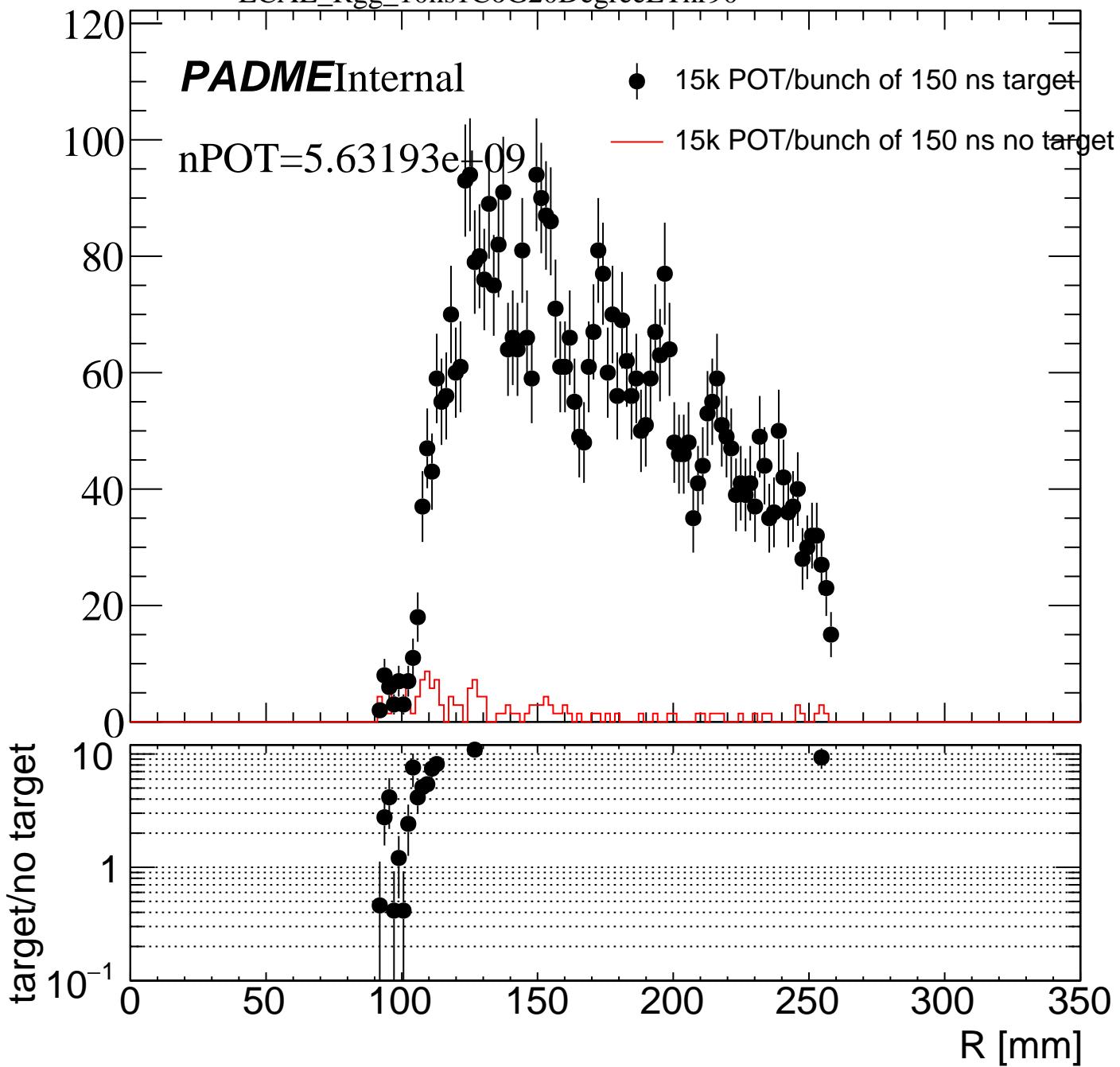




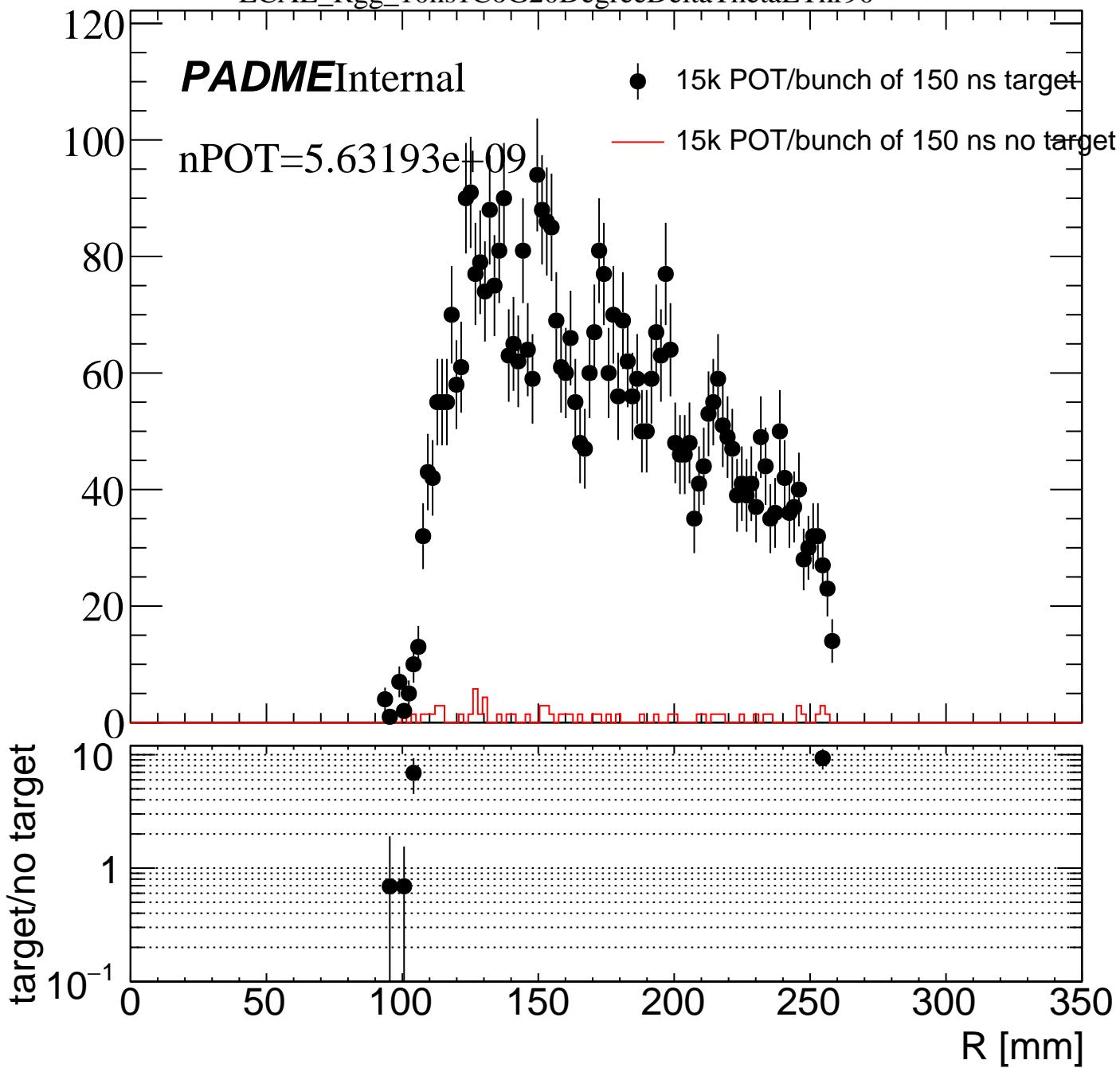
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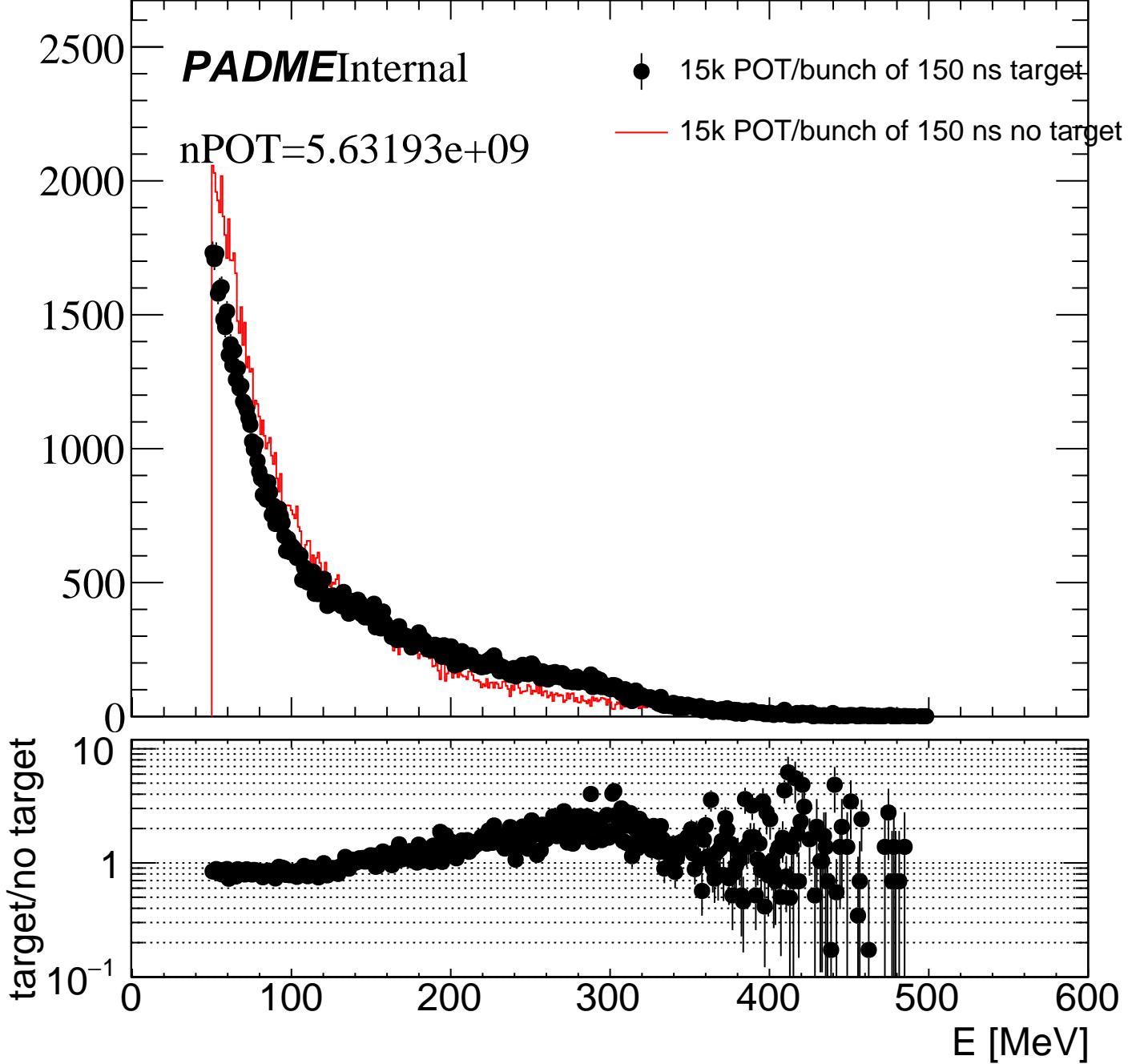
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ECAL_Rgg_10ns1CoG20DegreeDeltaThetaETHr90



ECAL_Egg_10ns



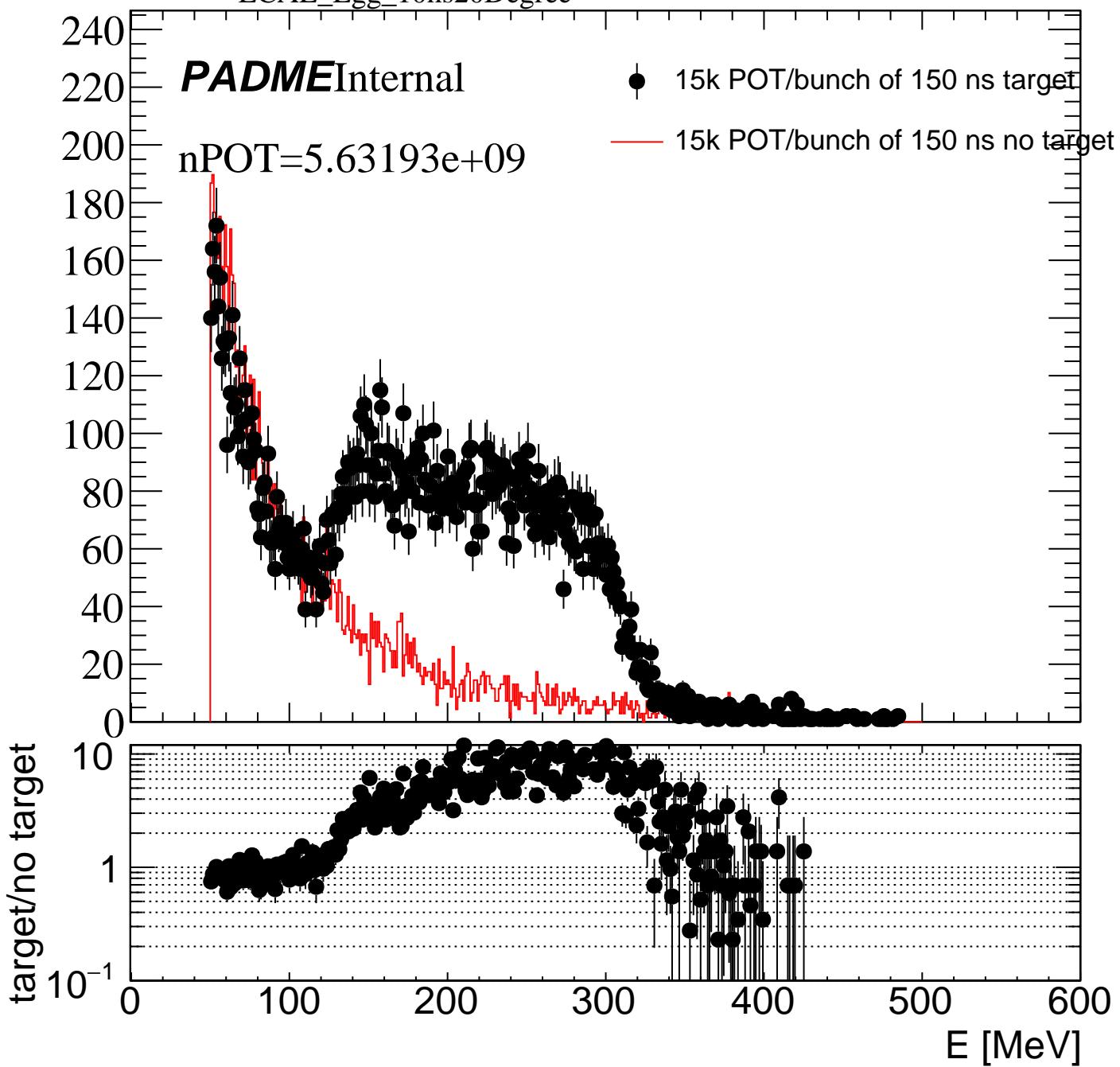
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PADME Internal

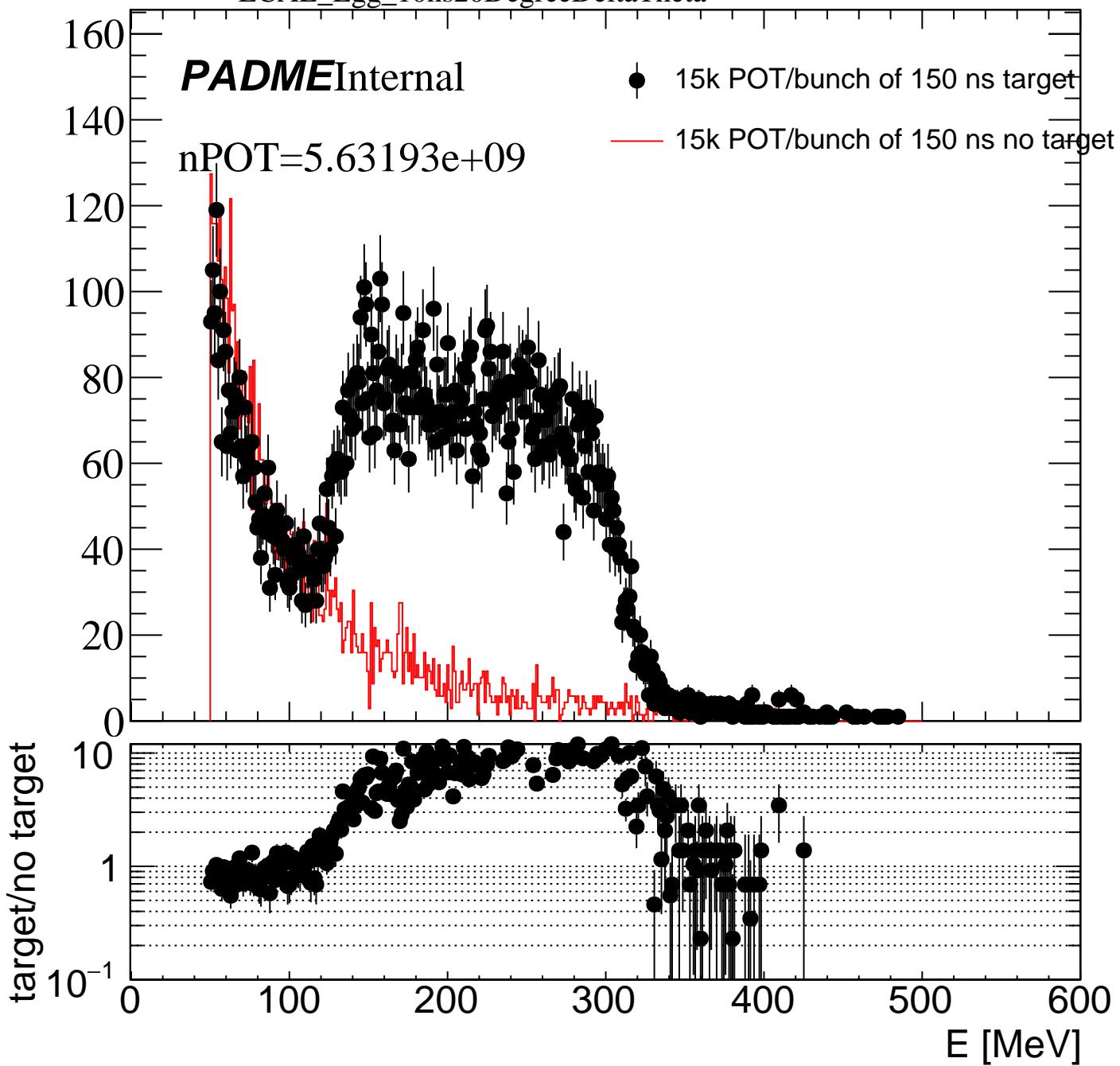
nPOT=5.63193e+09

● 15k POT/bunch of 150 ns target

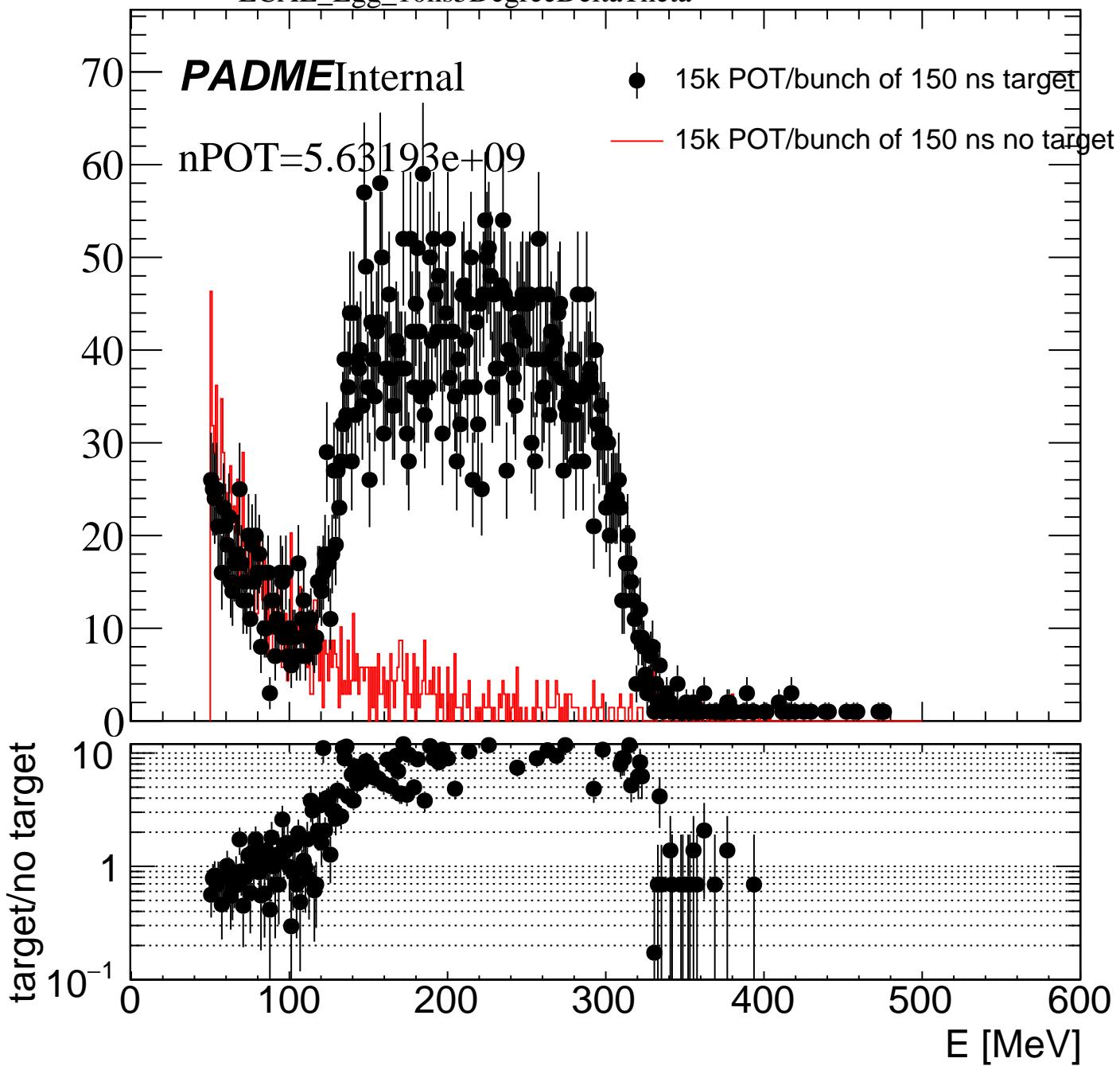
— 15k POT/bunch of 150 ns no target



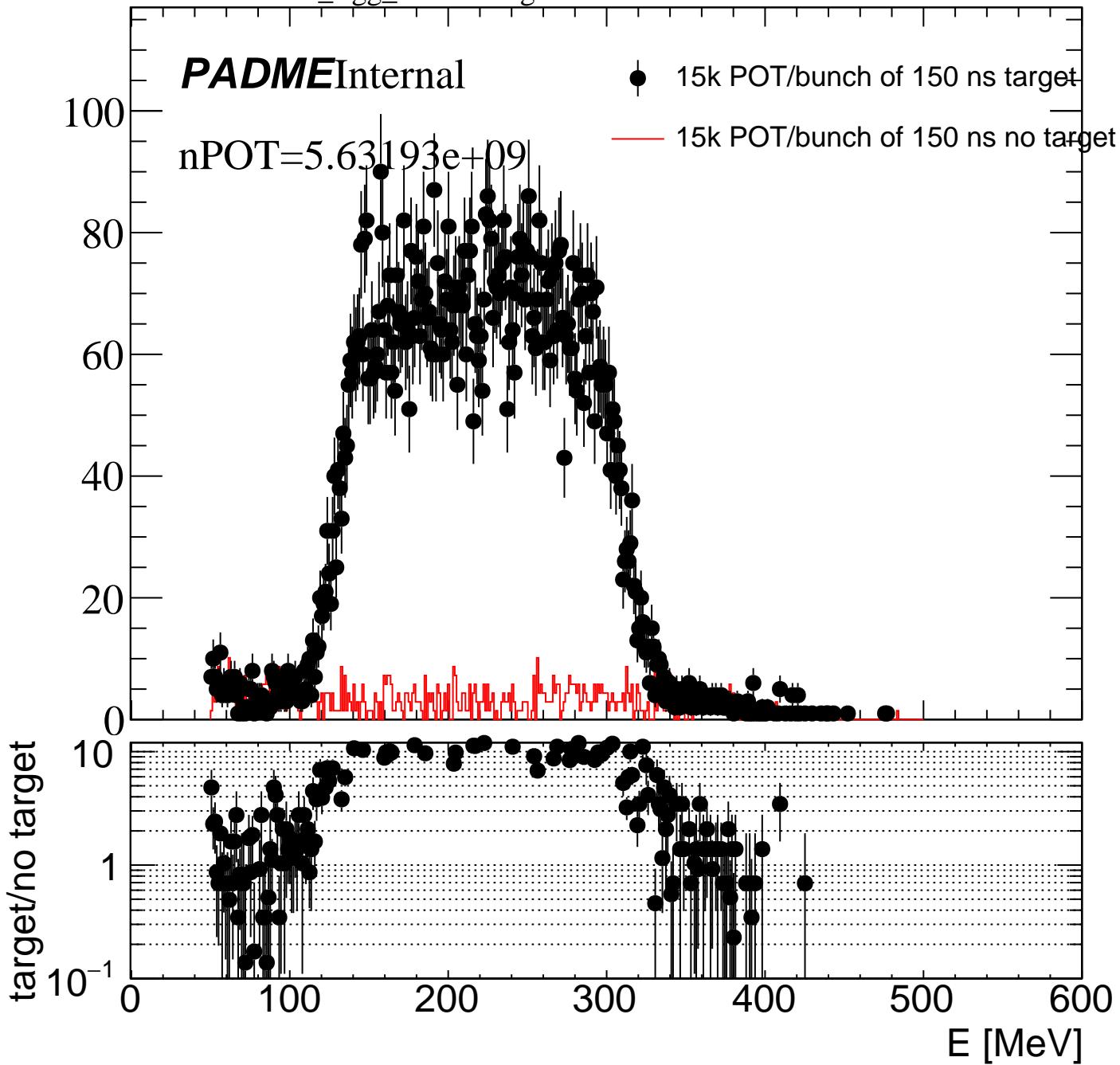
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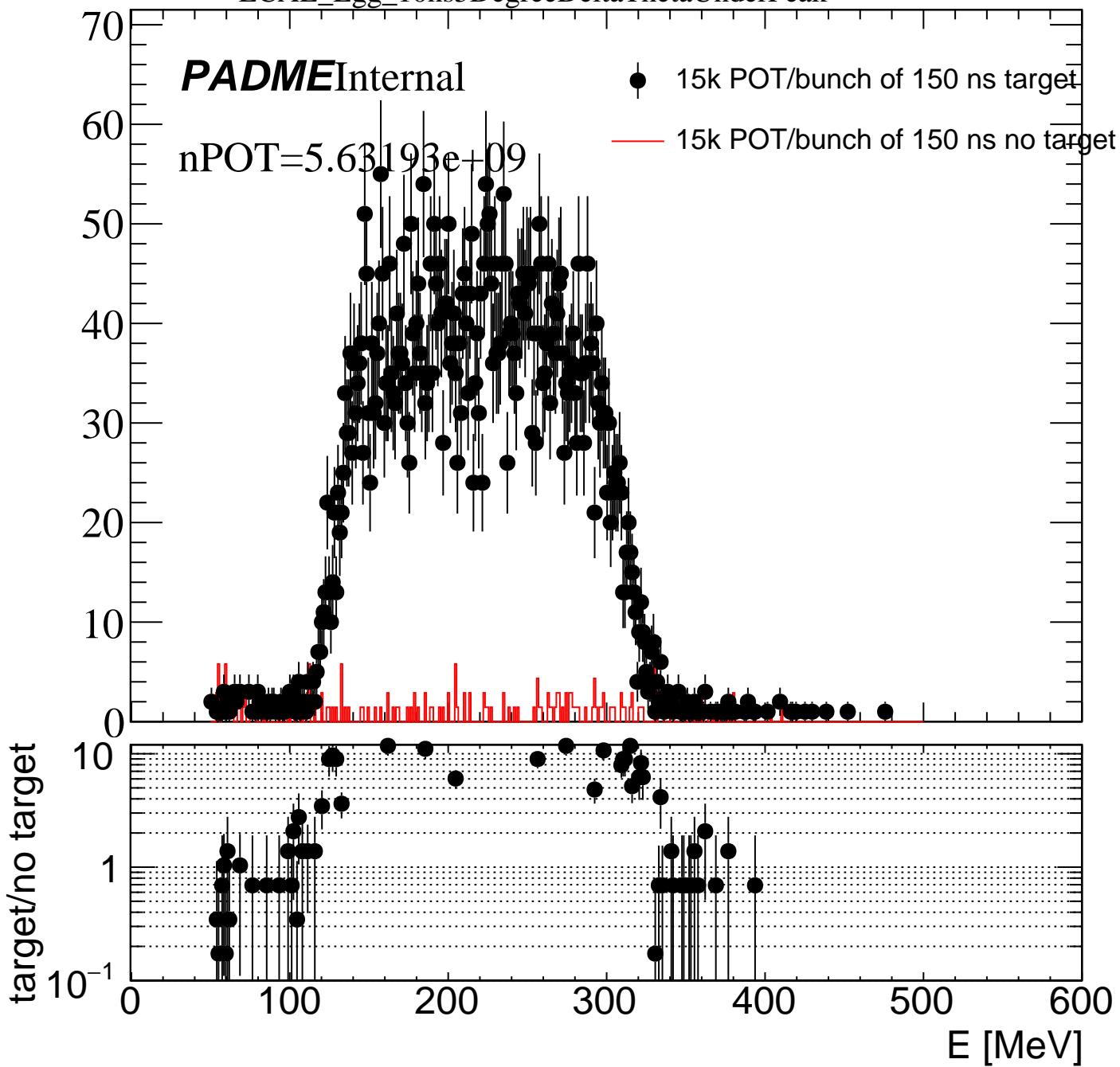
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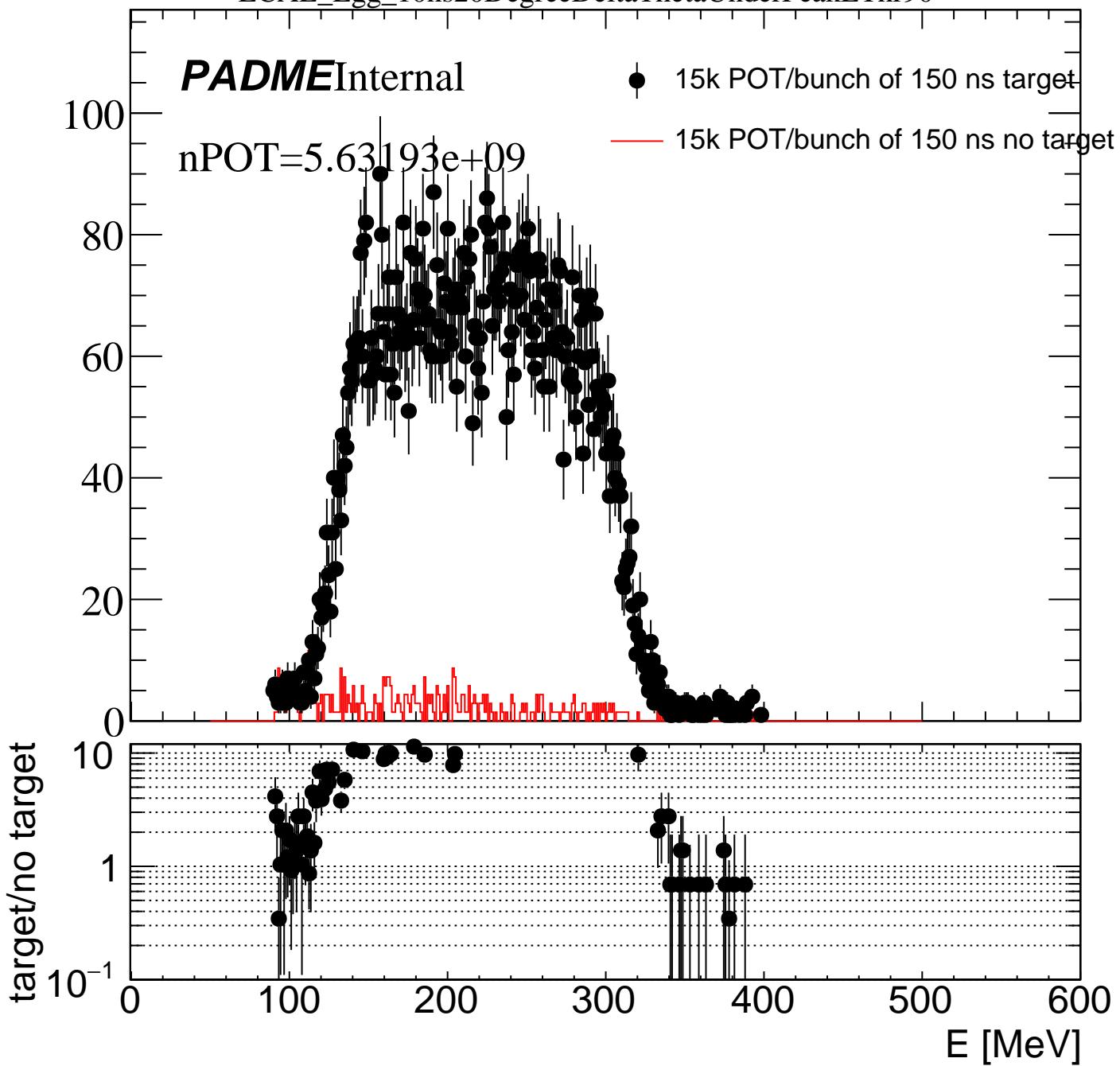
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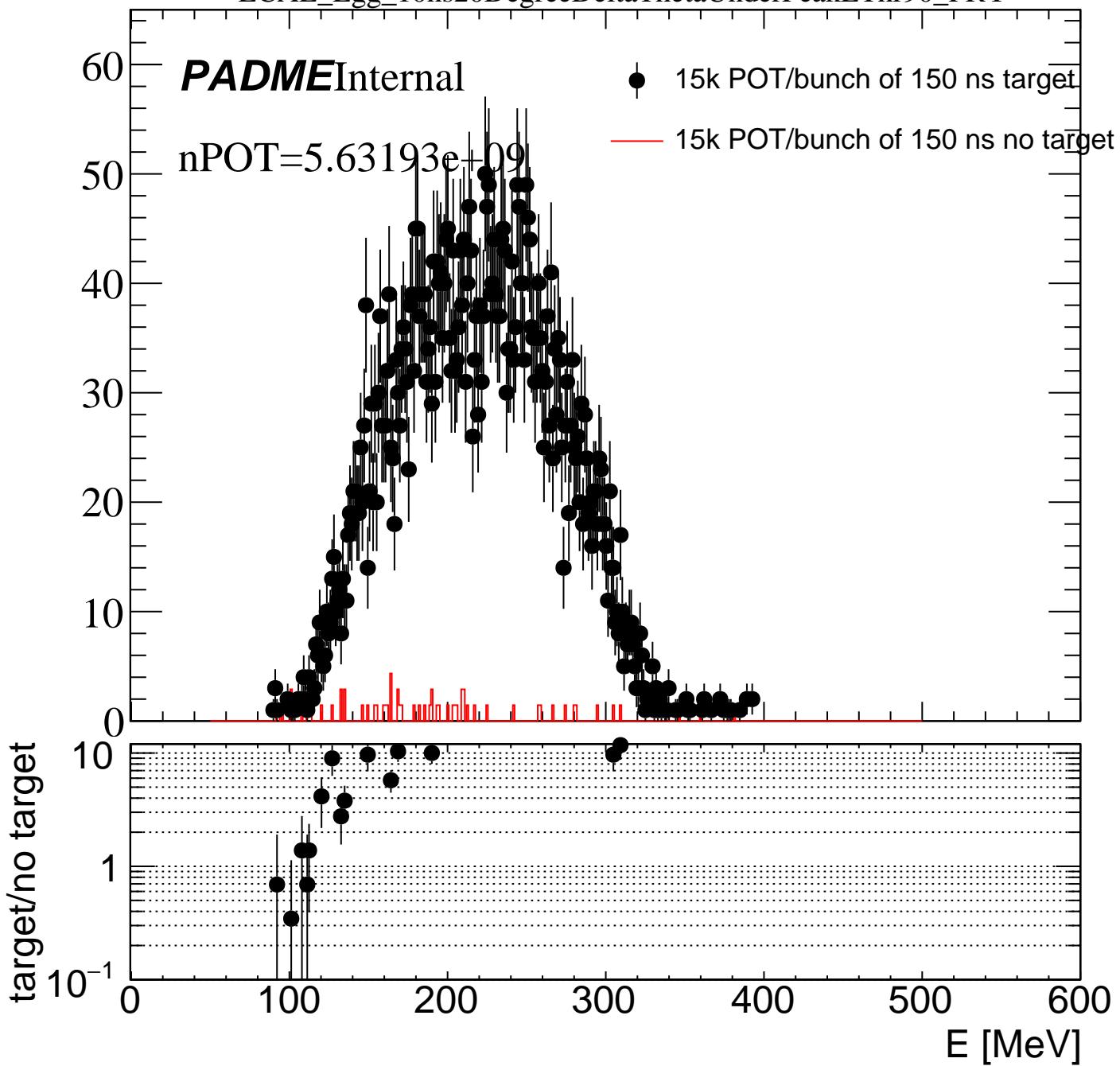
ECAL_Egg_10ns5DegreeDeltaThetaUnderPeak



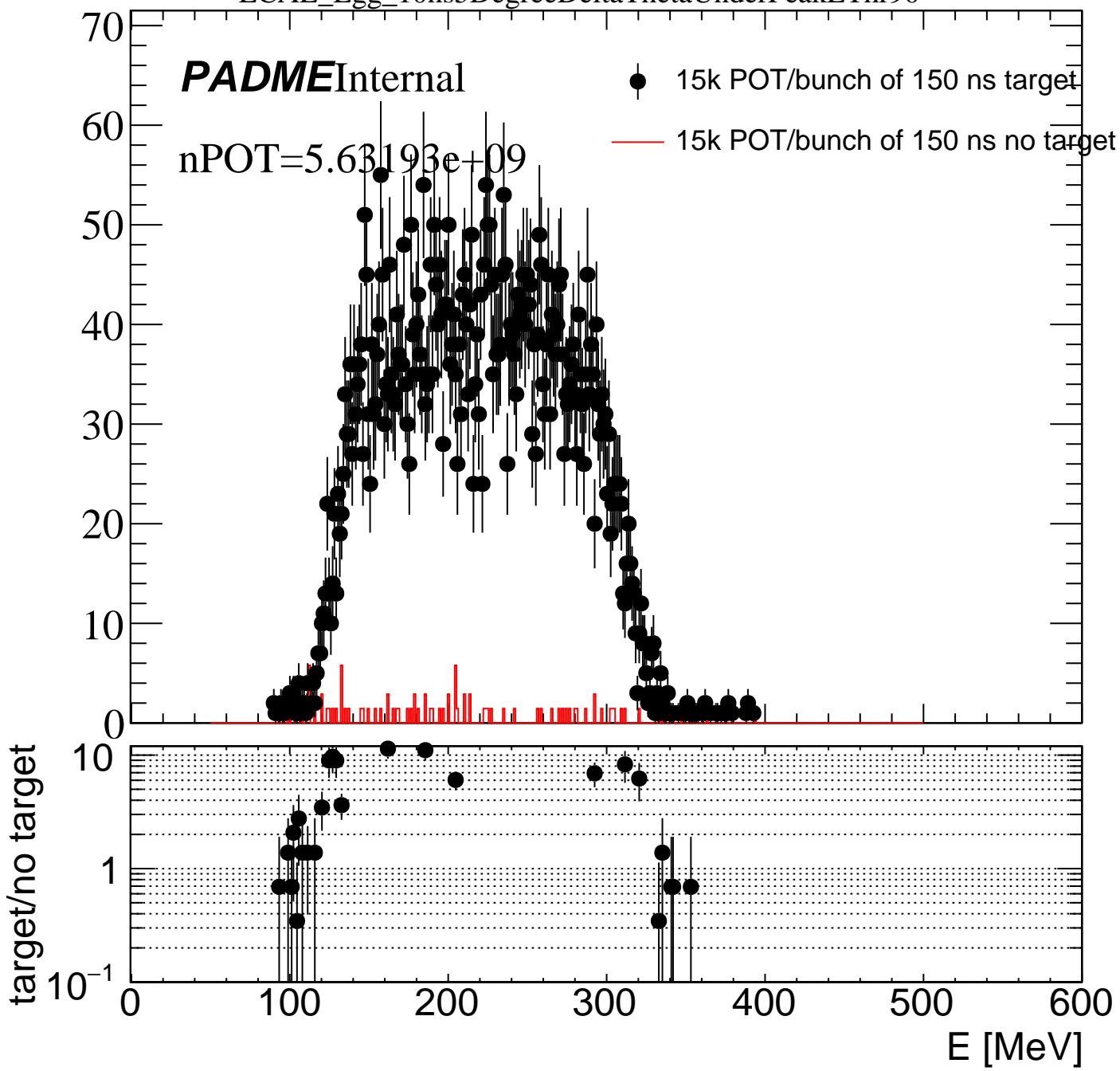
ECAL_Egg_10ns20DegreeDeltaThetaUnderPeakEThr90

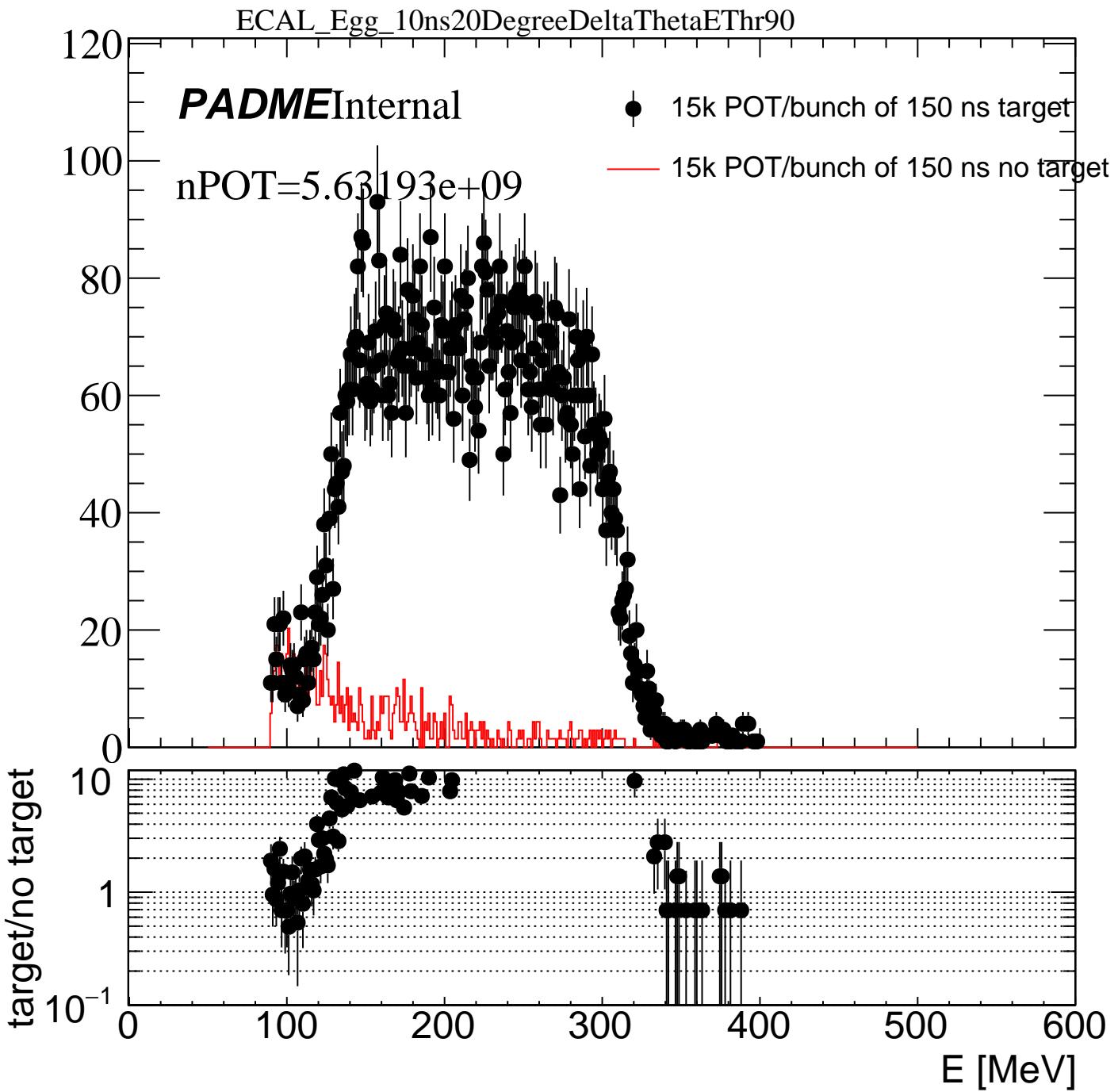


ECAL_Egg_10ns20DegreeDeltaThetaUnderPeakEThr90_FRY

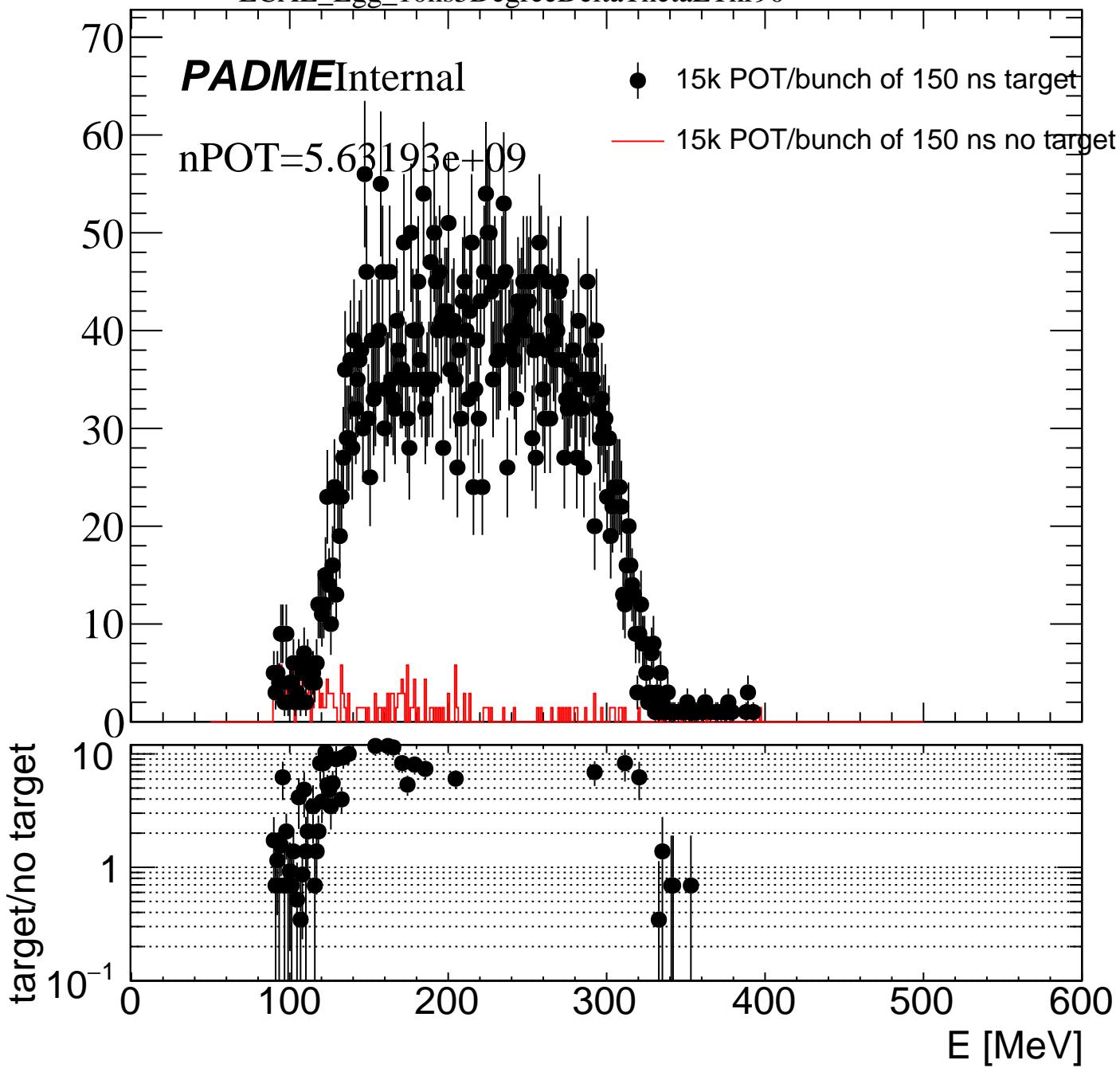


ECAL_Egg_10ns5DegreeDeltaThetaUnderPeakEThr90

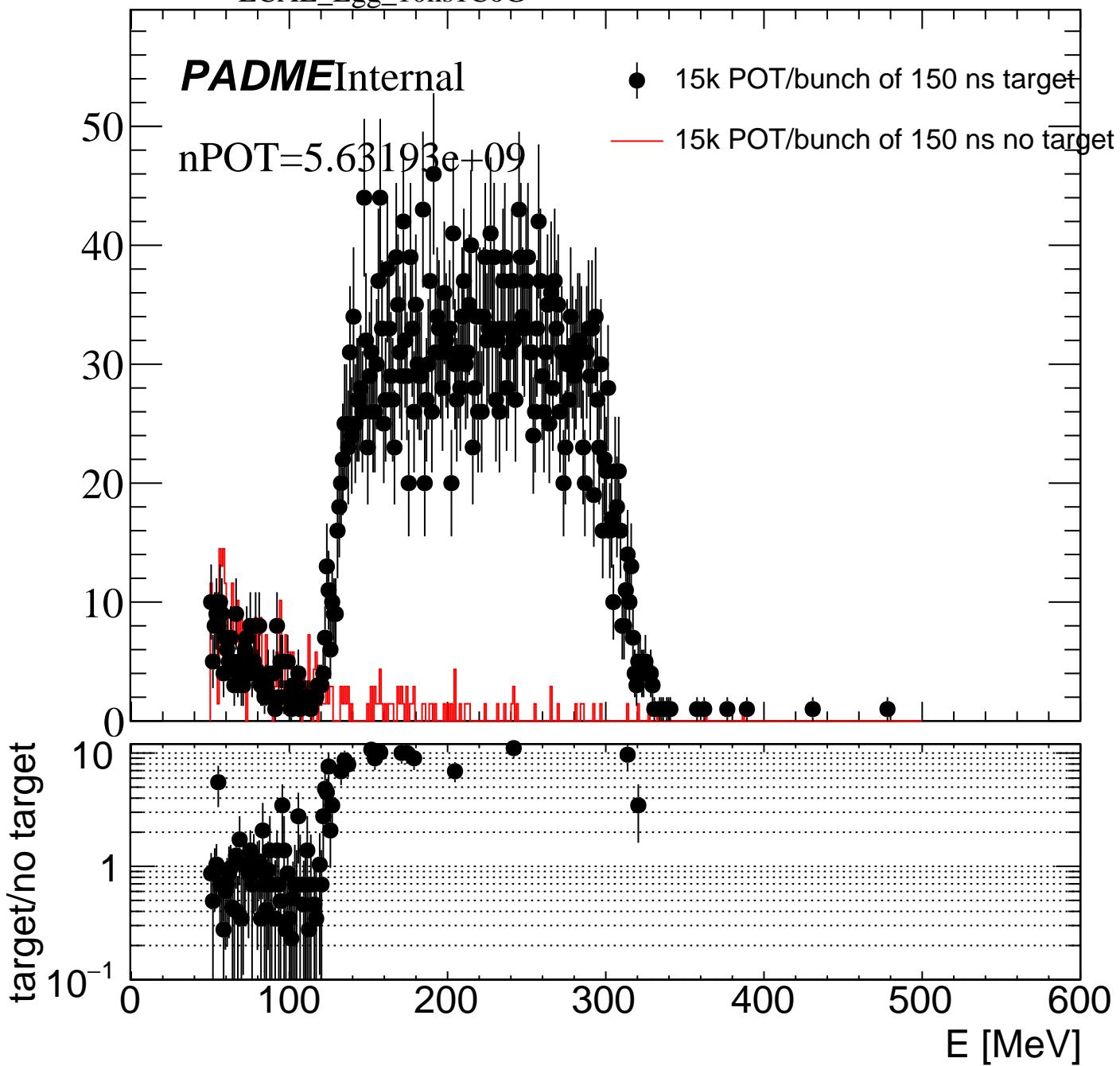




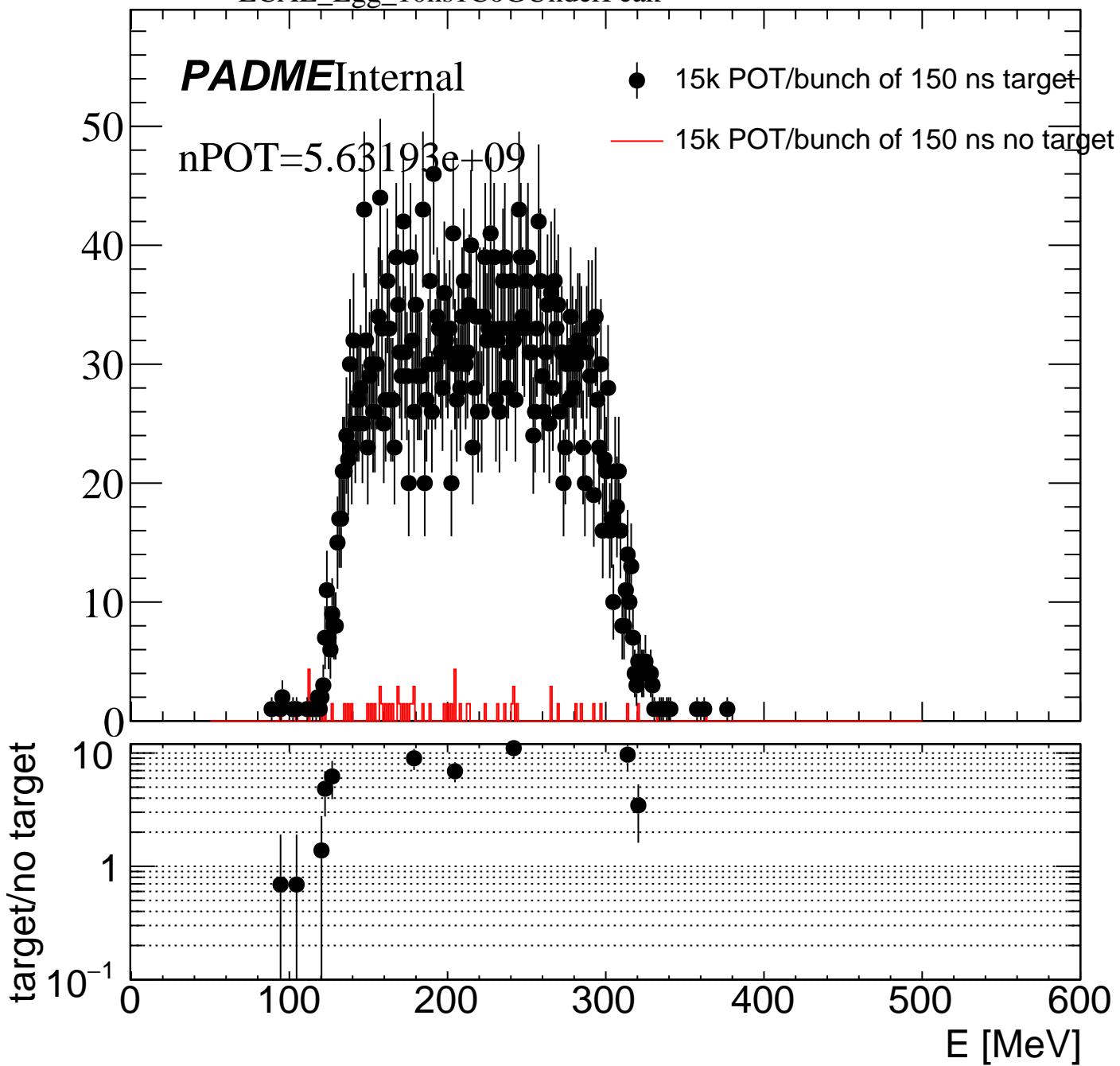
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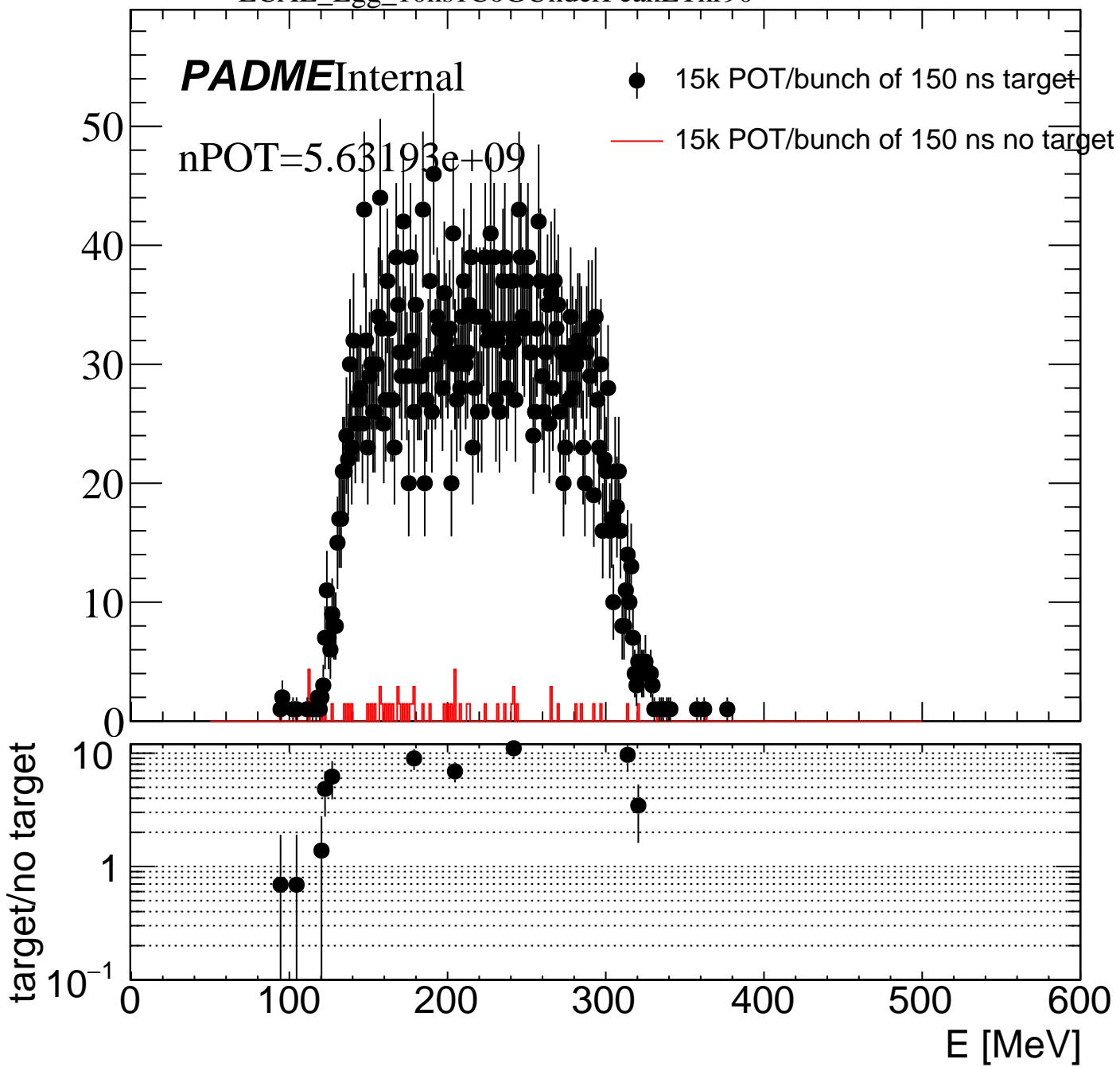
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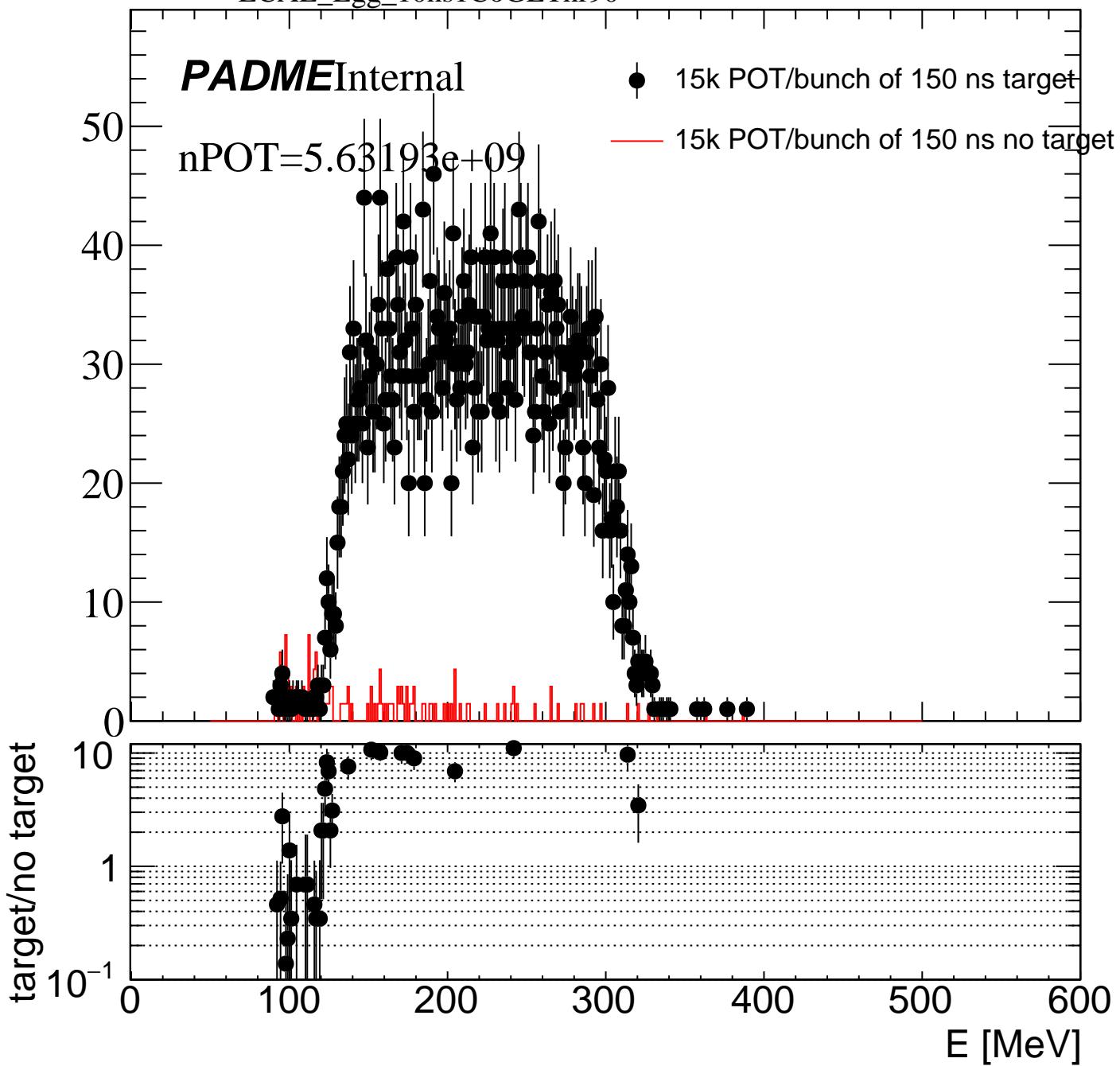
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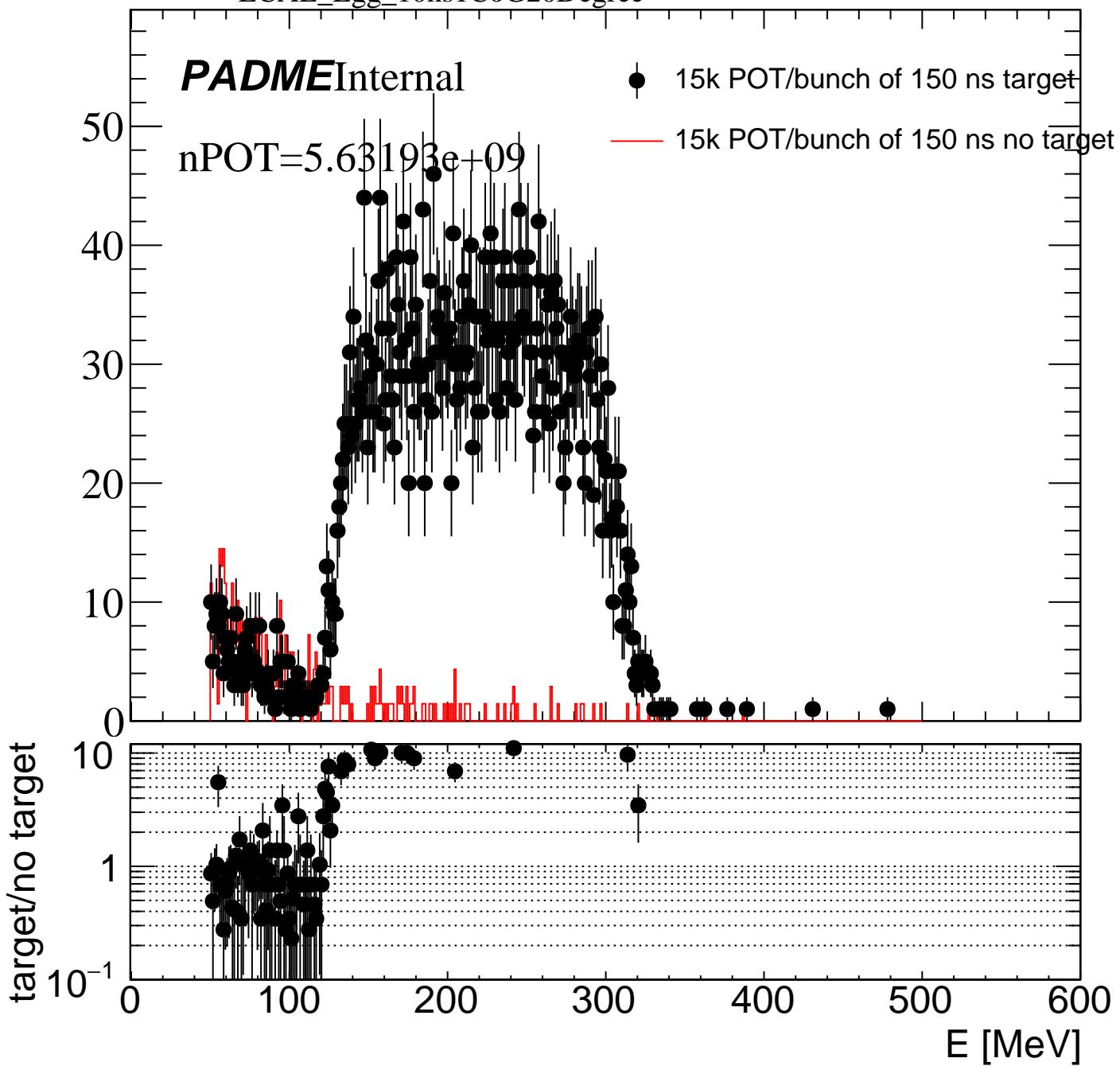
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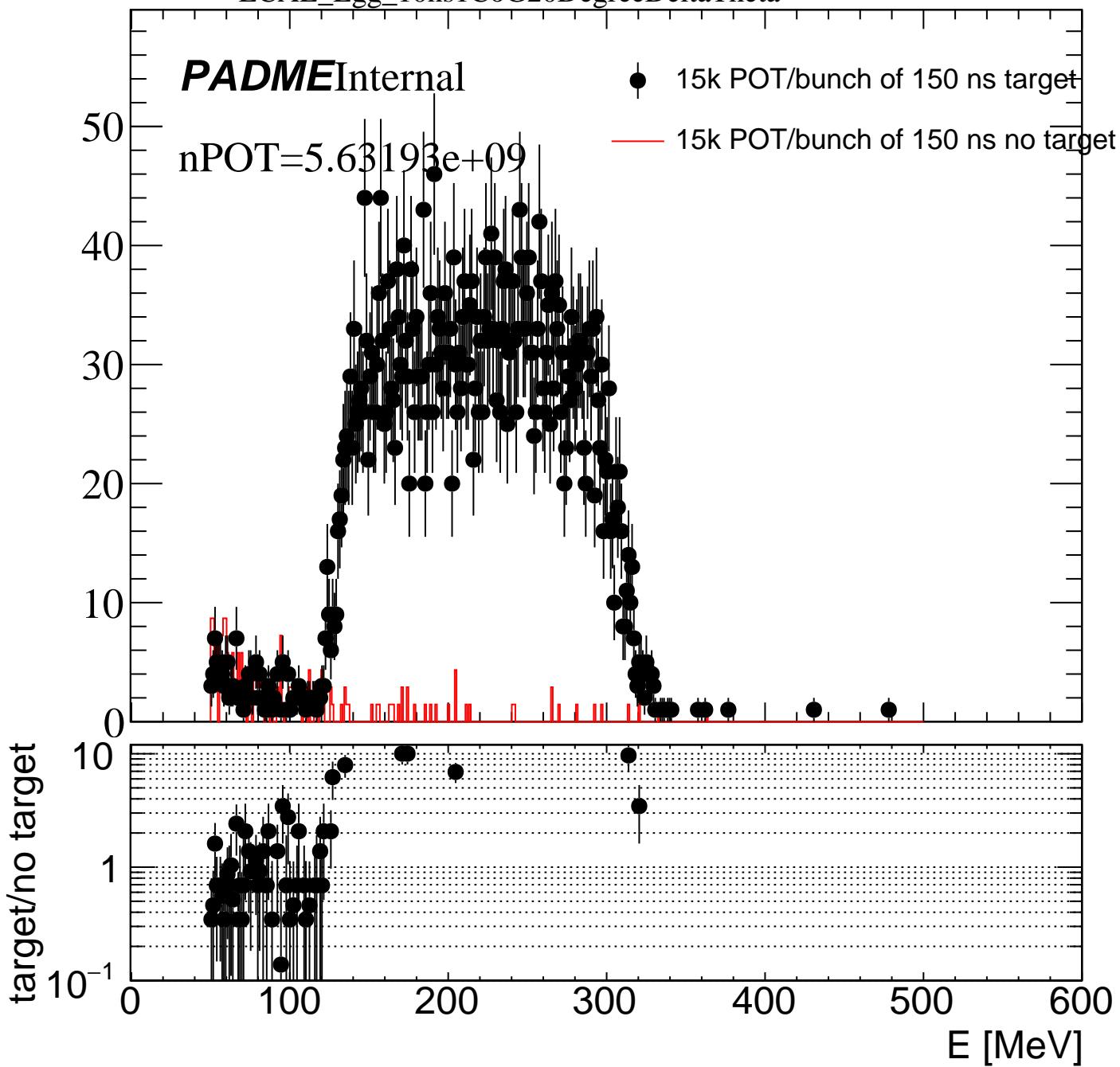
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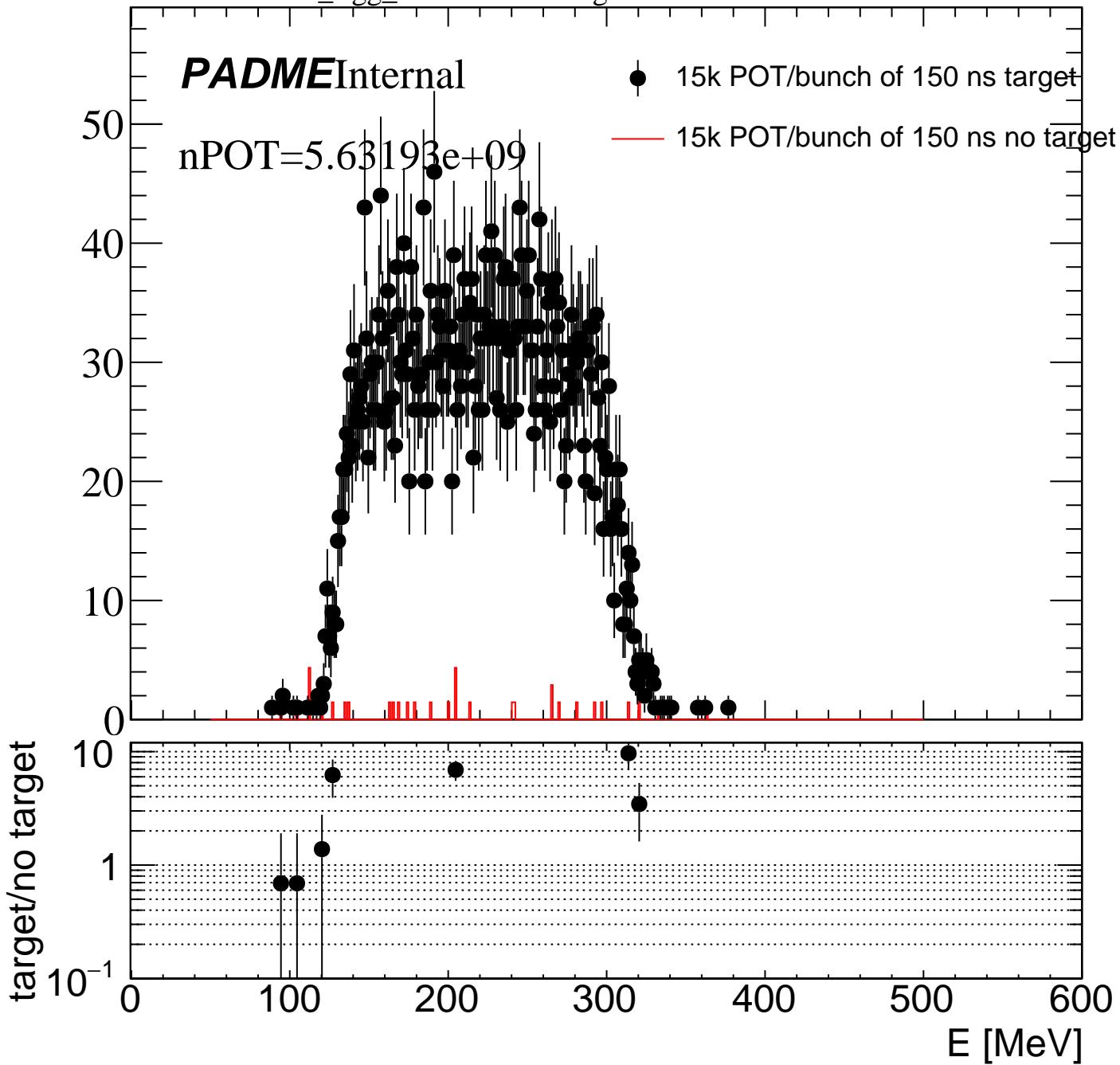
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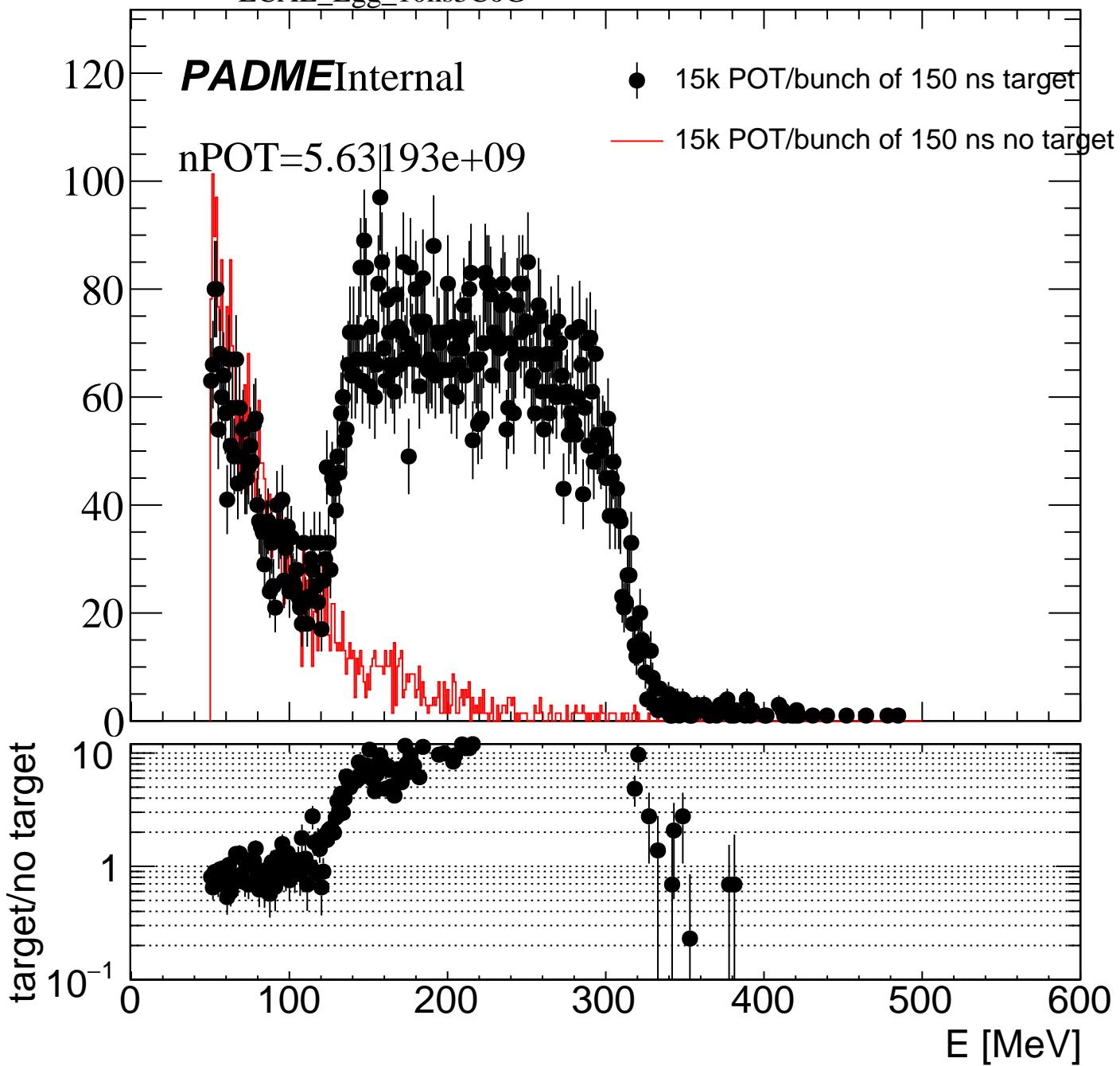
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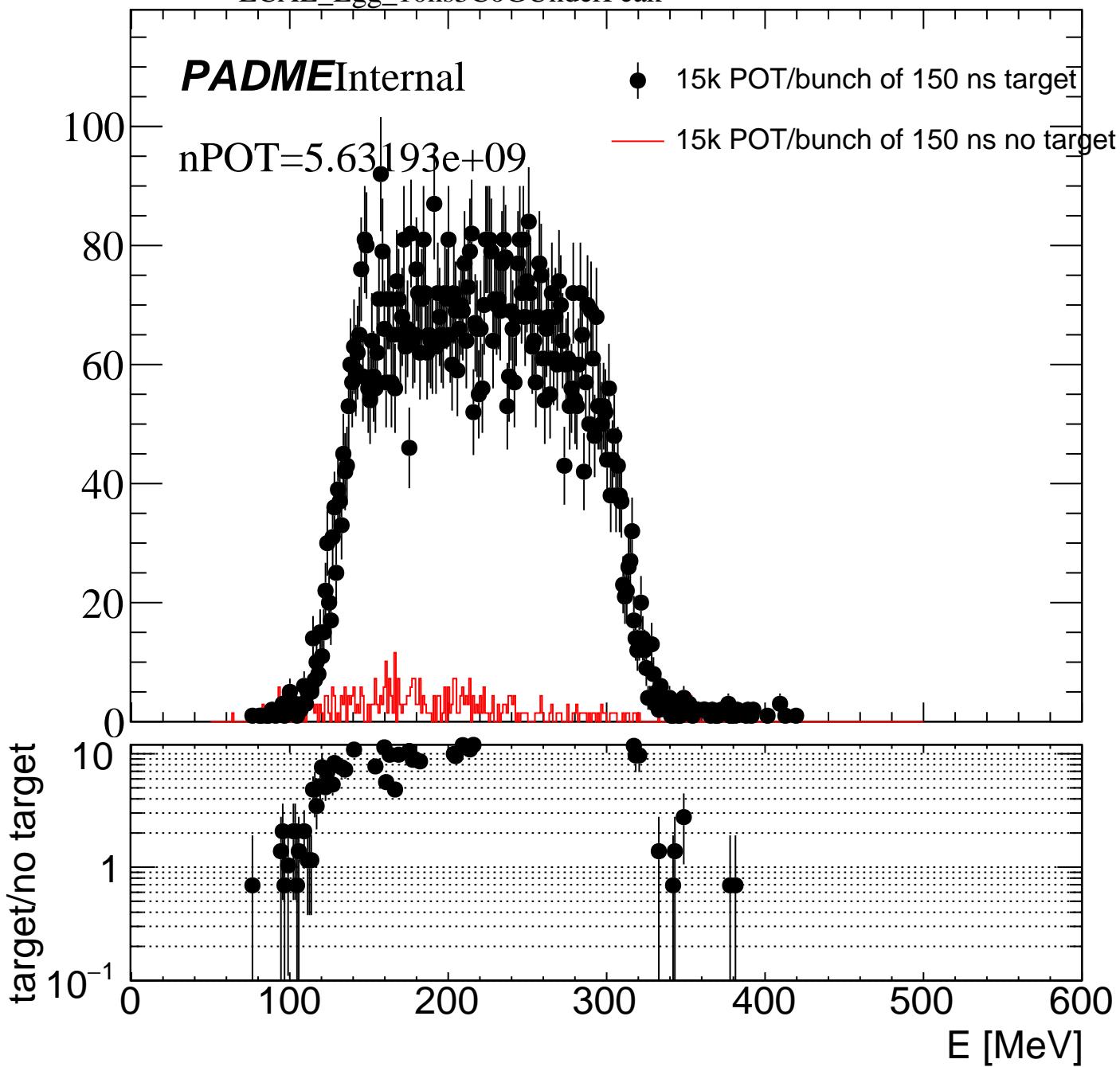
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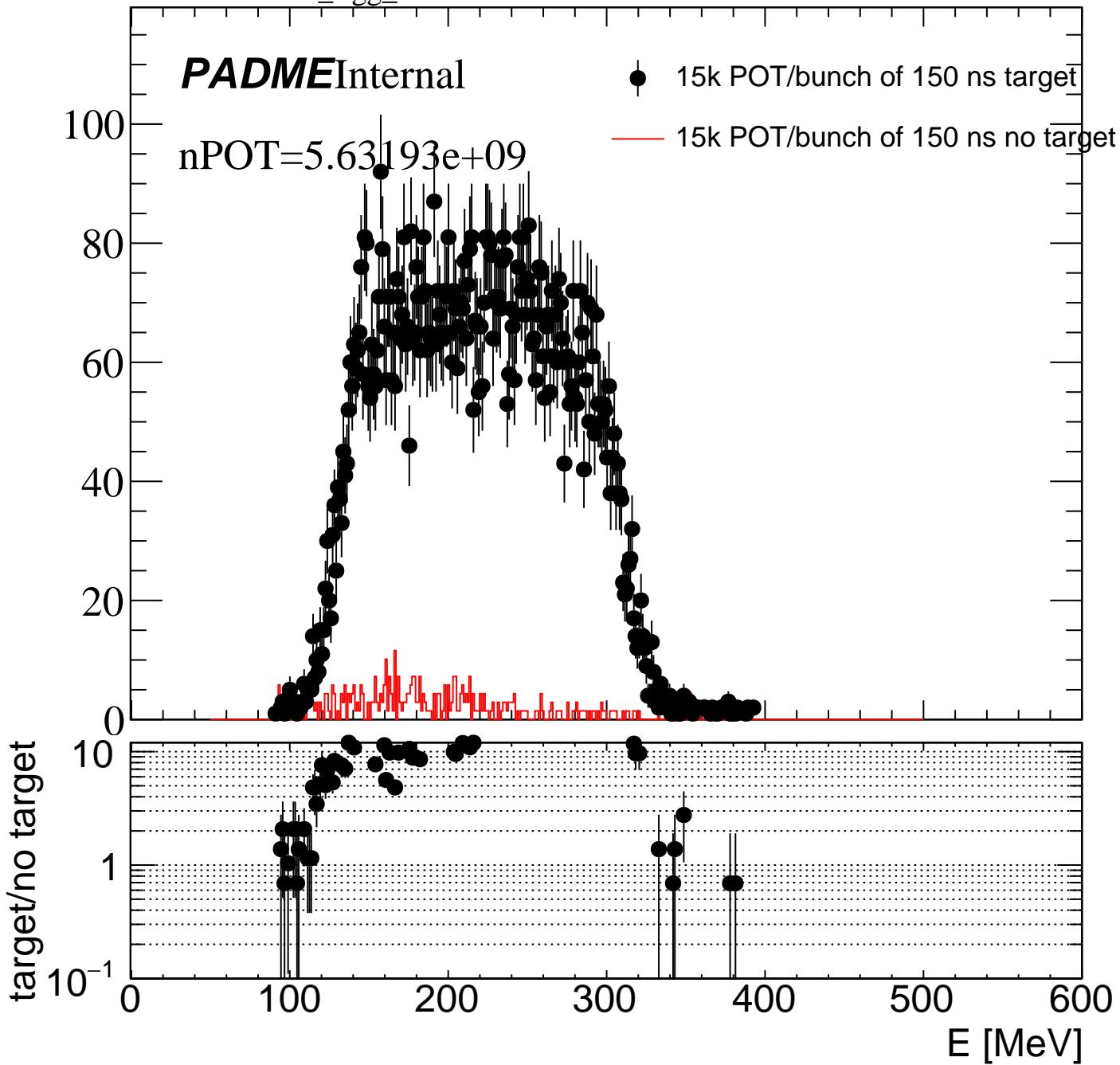
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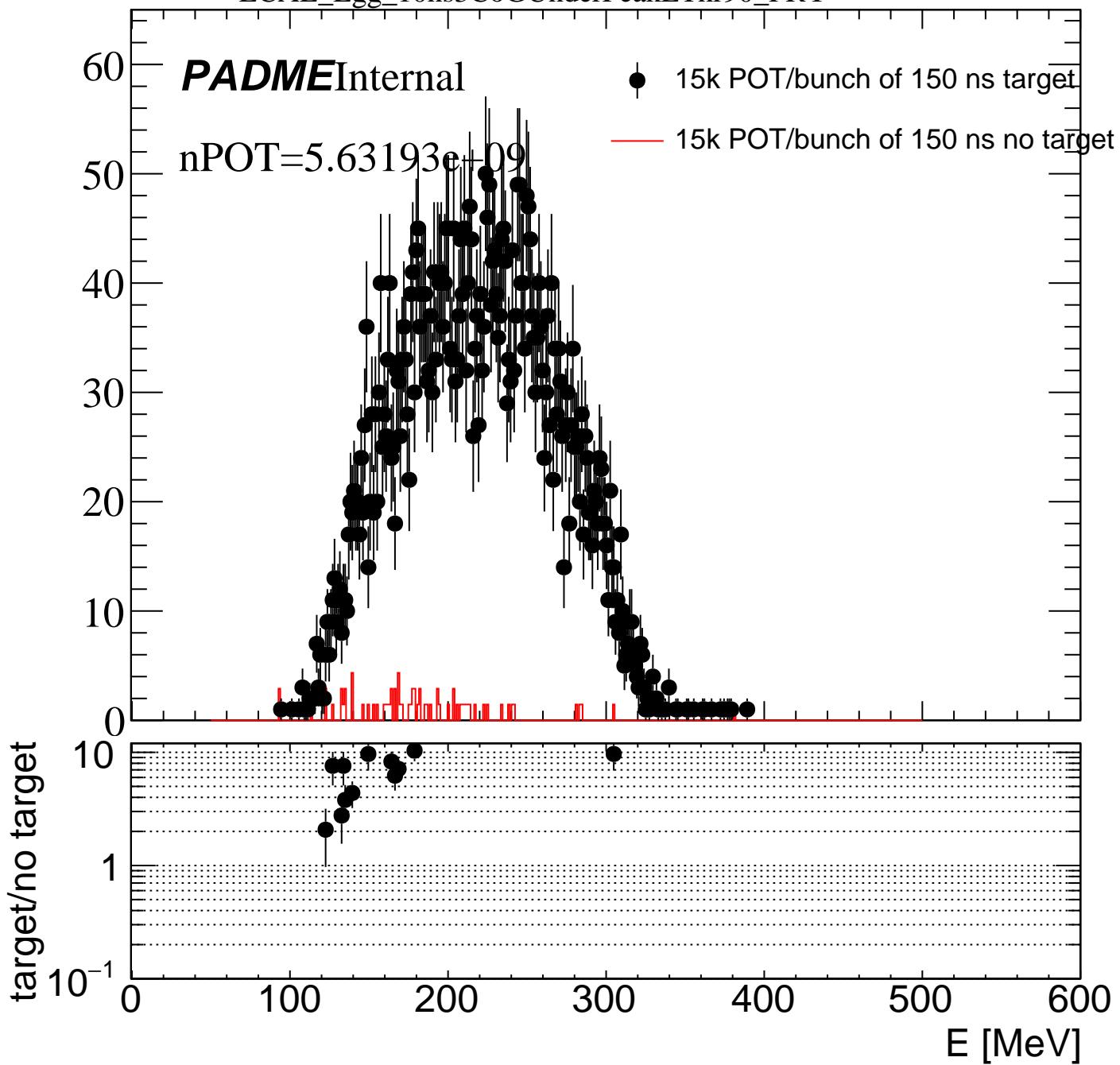
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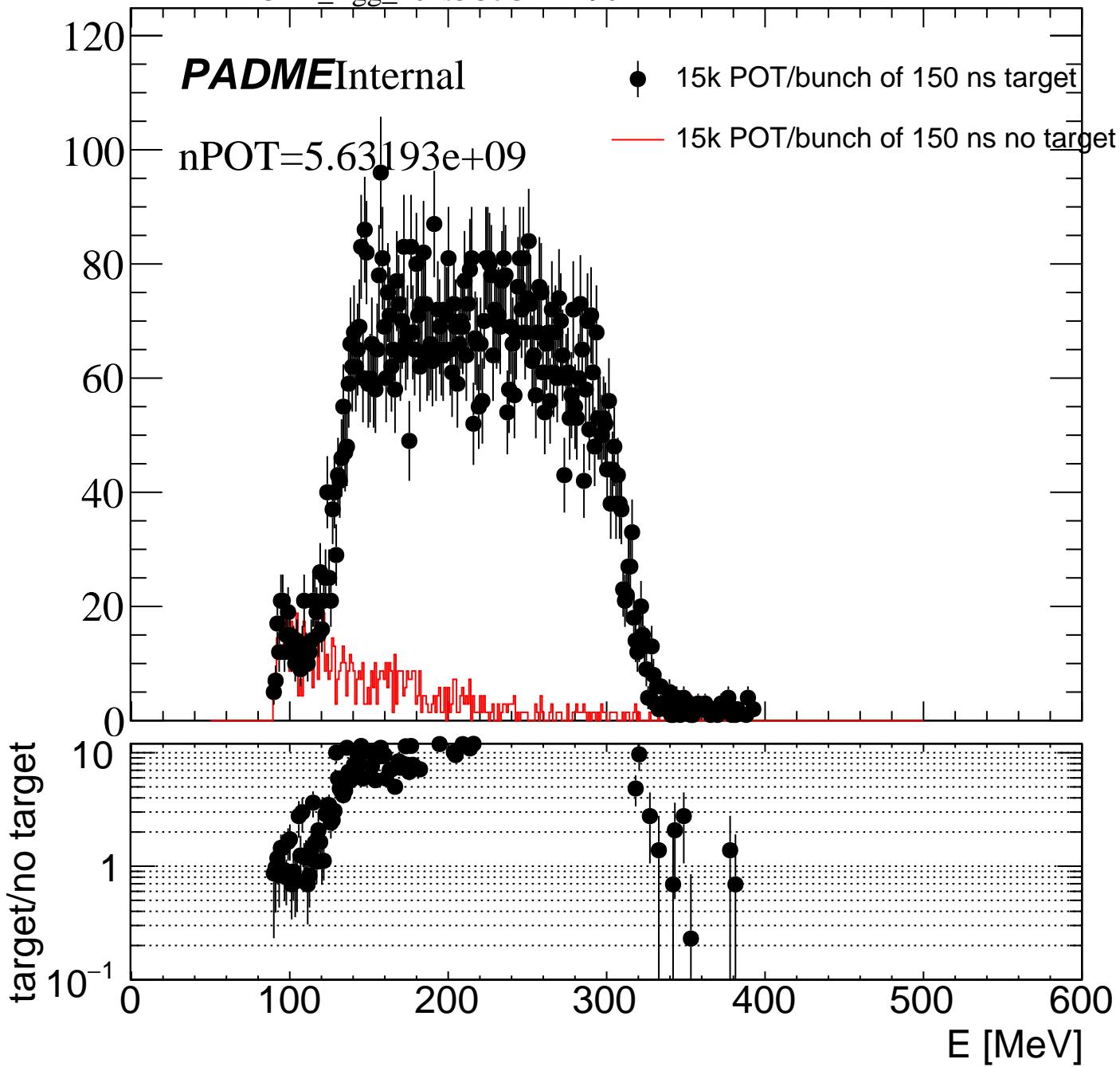
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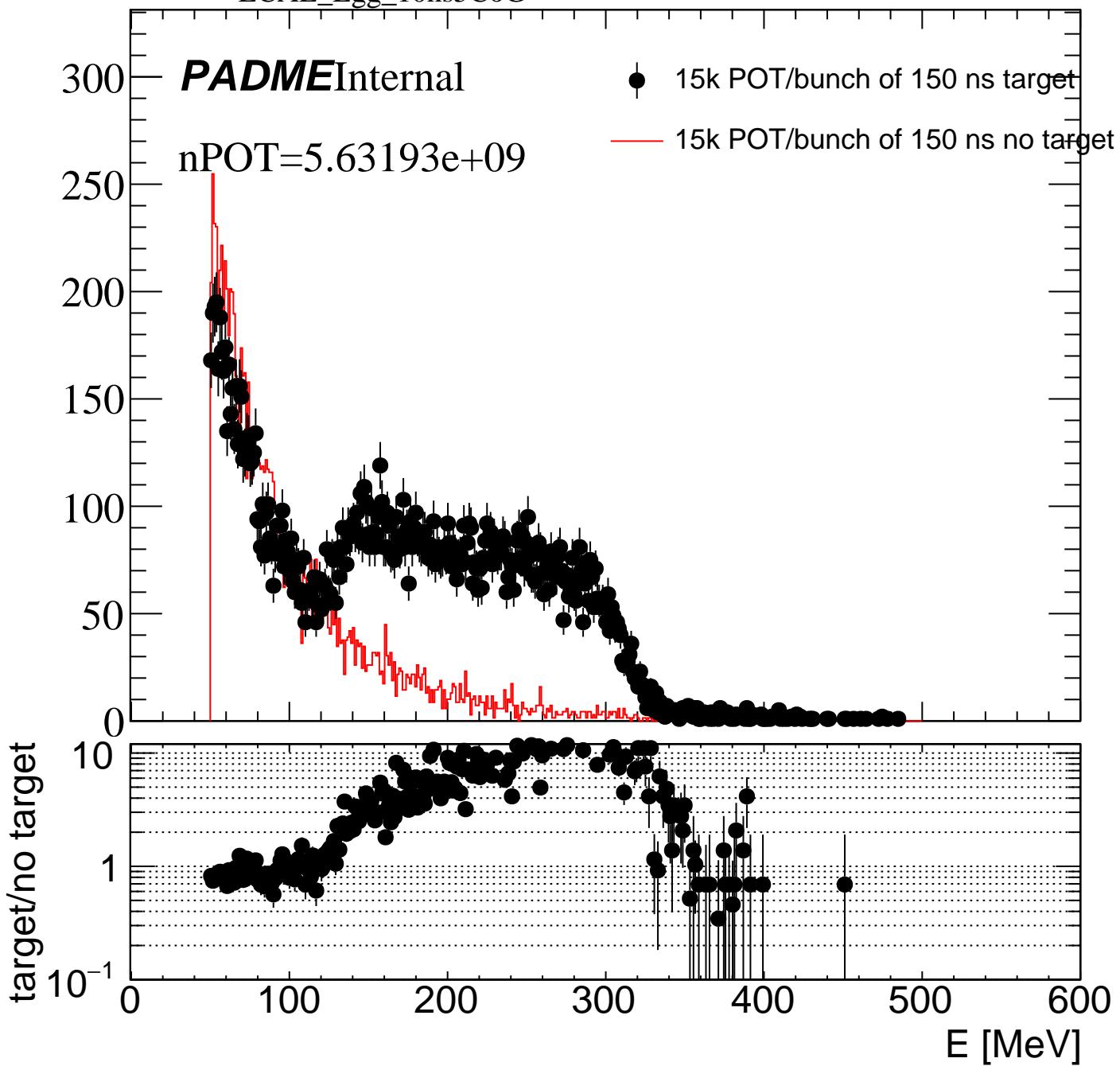
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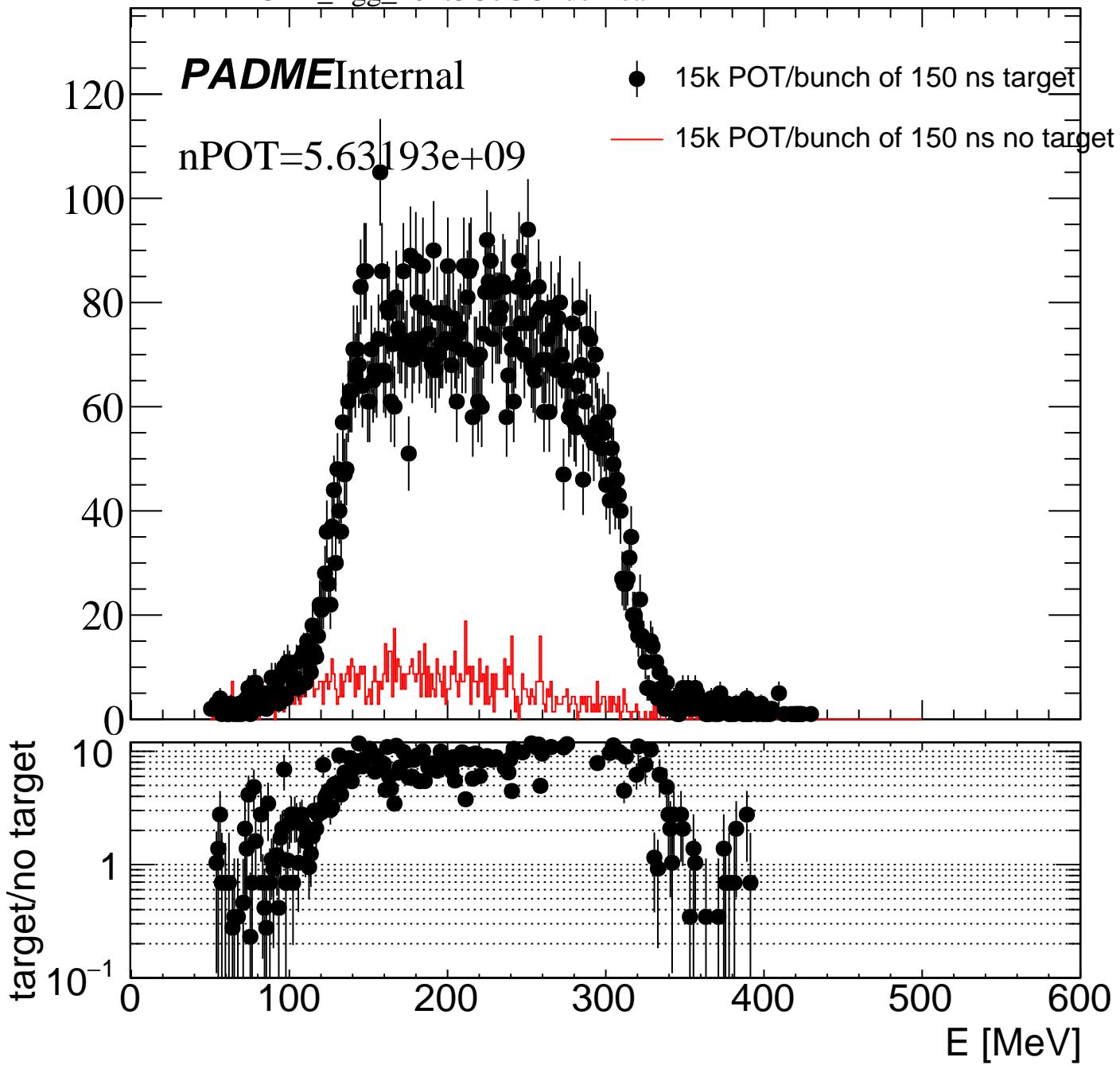
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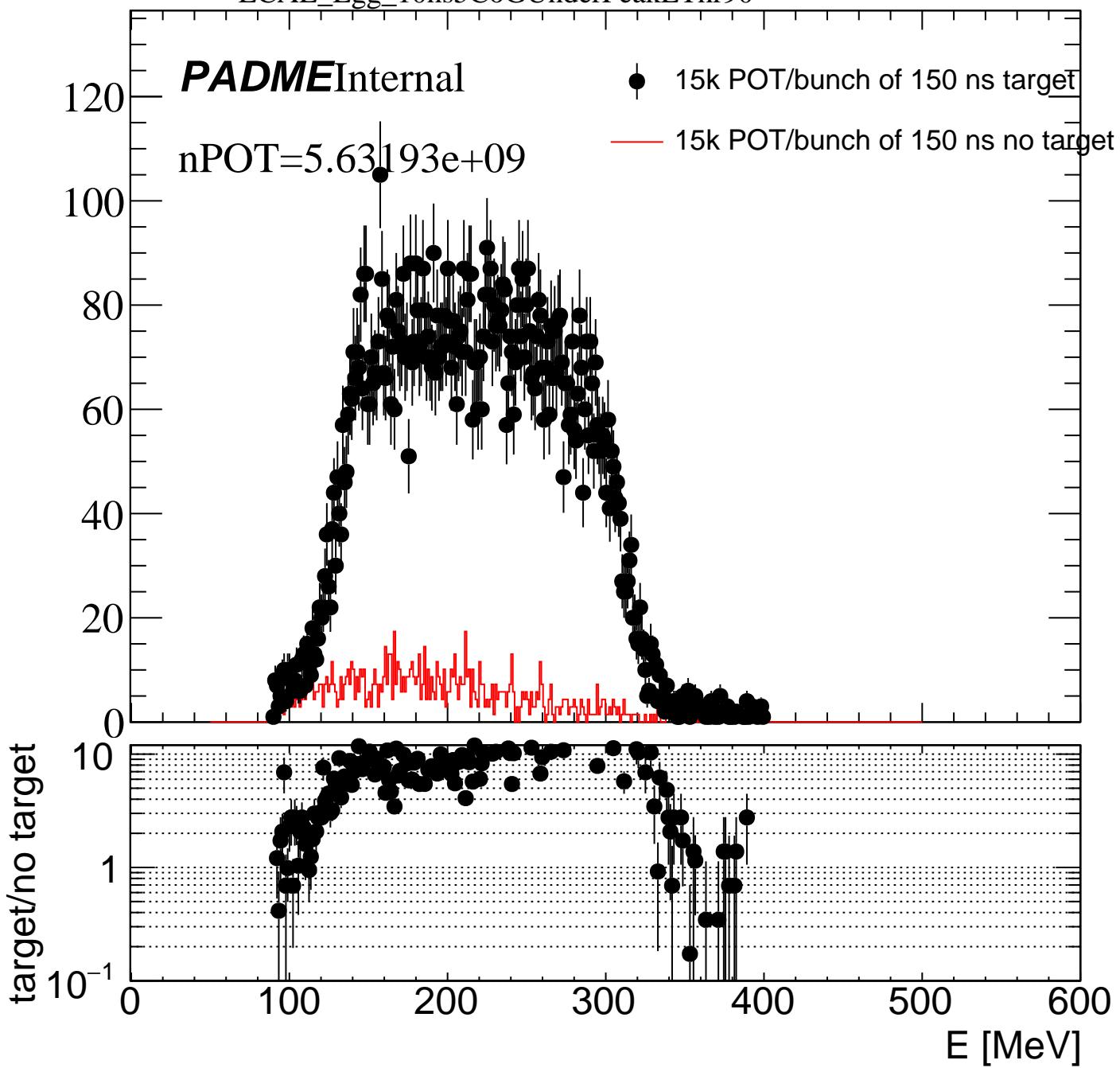
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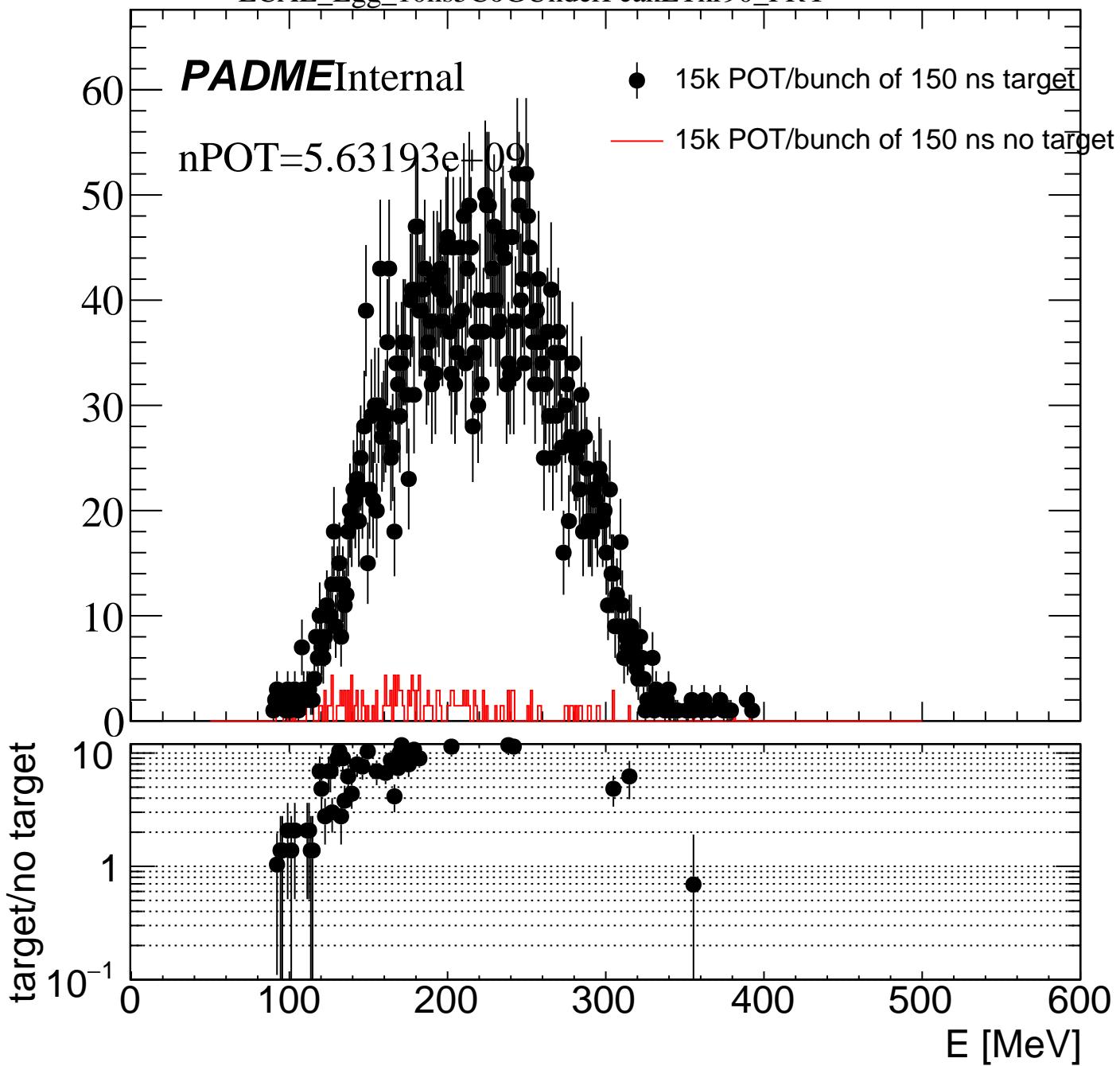
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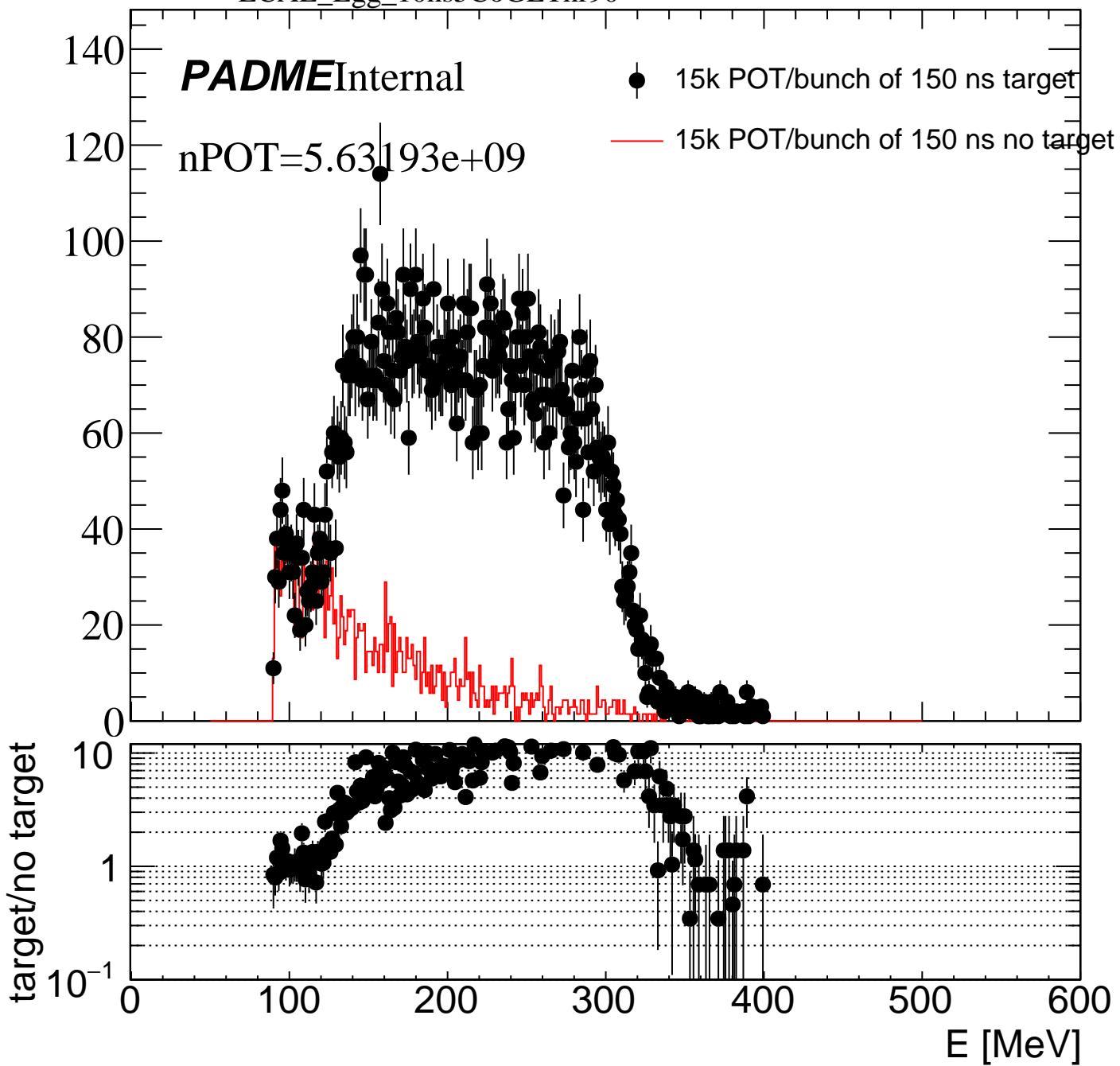
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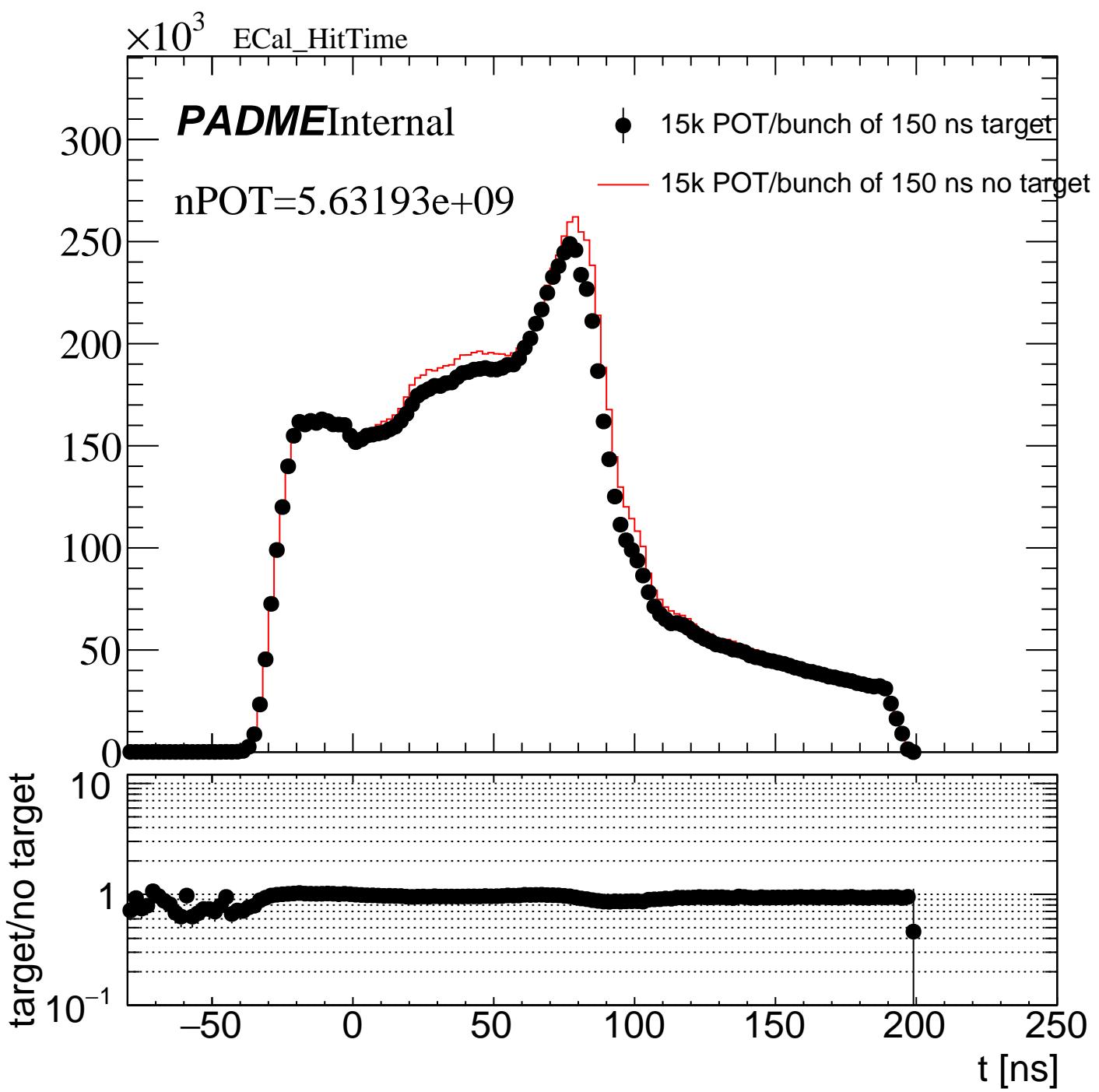


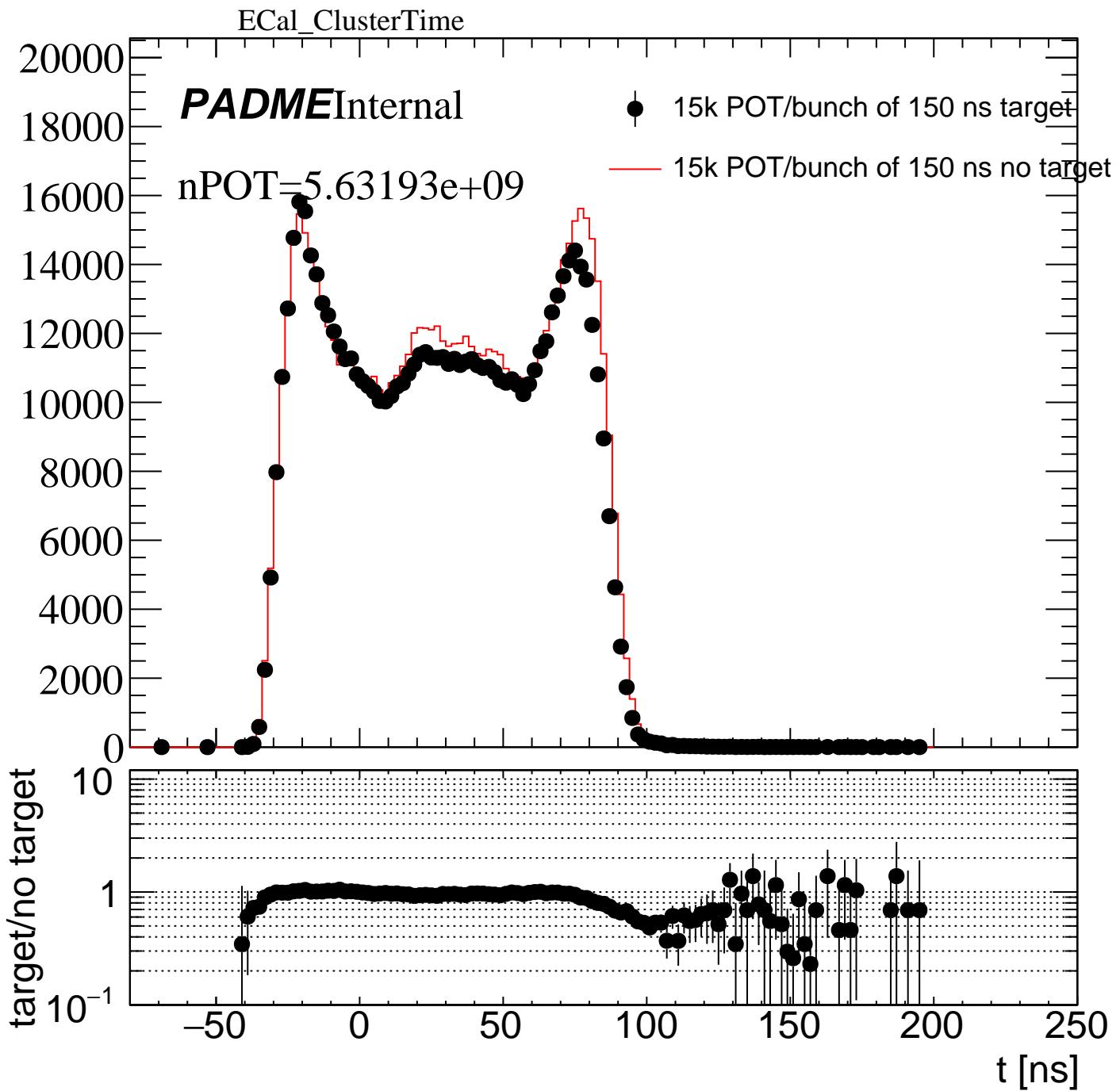
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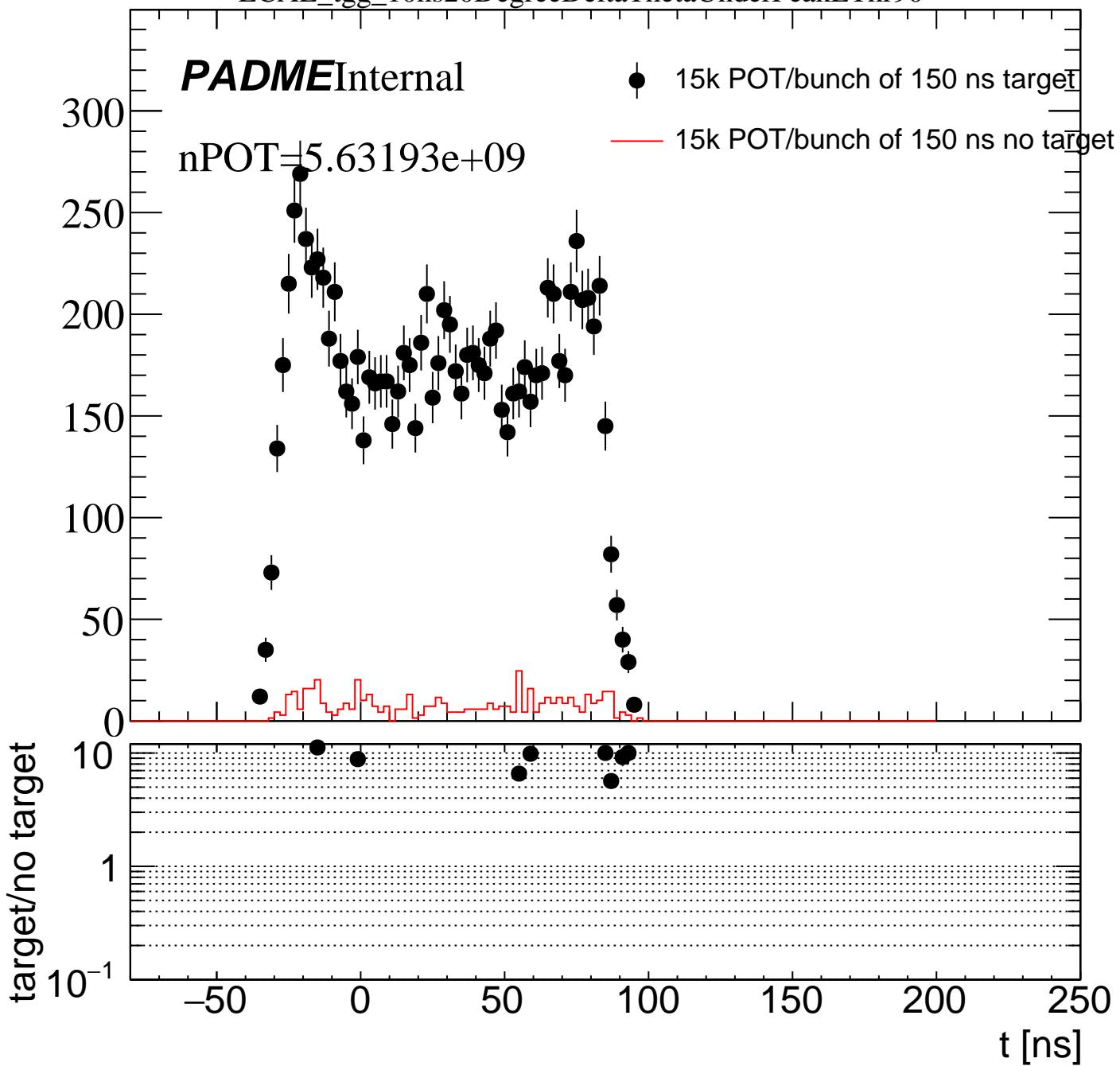
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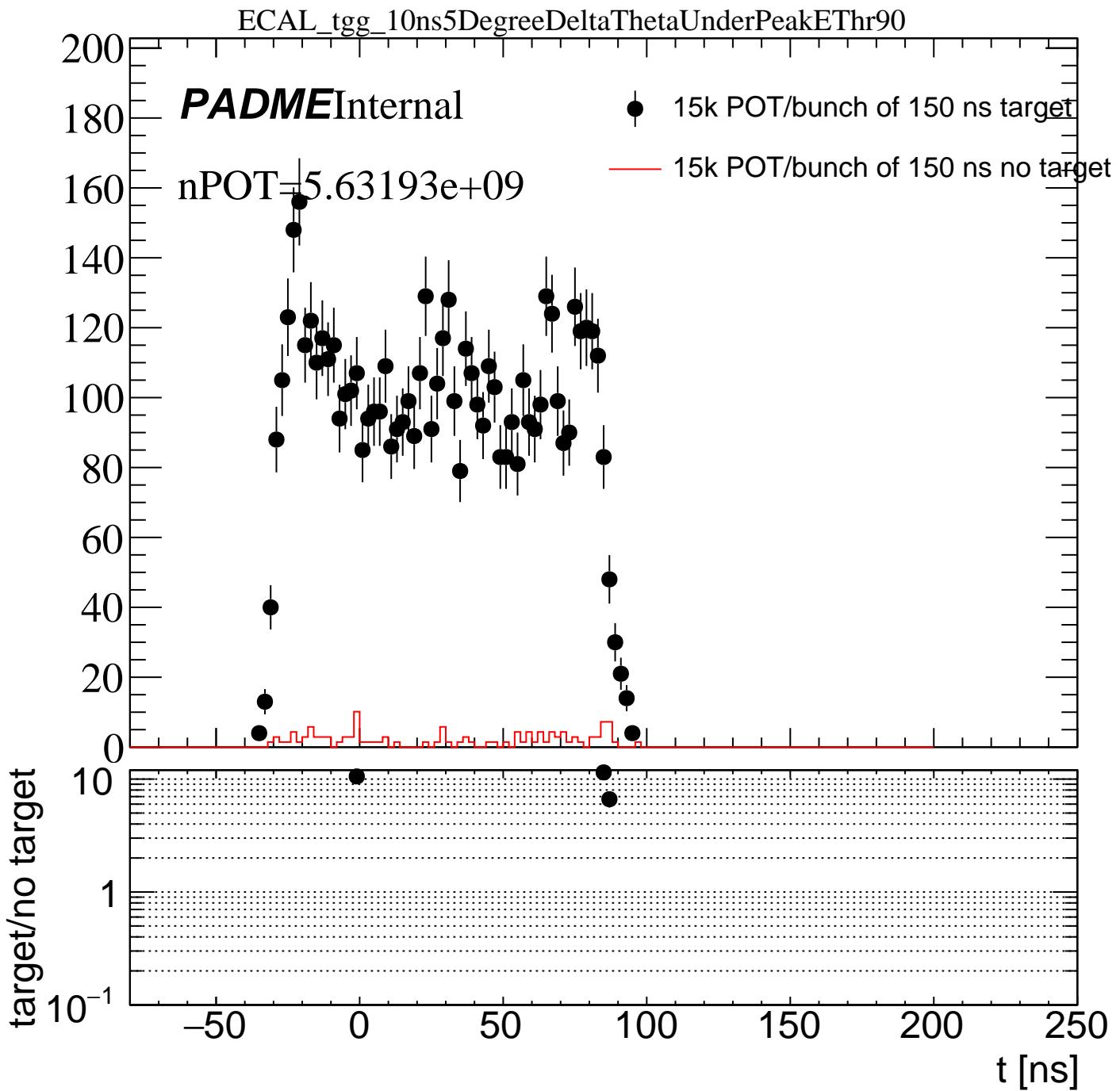




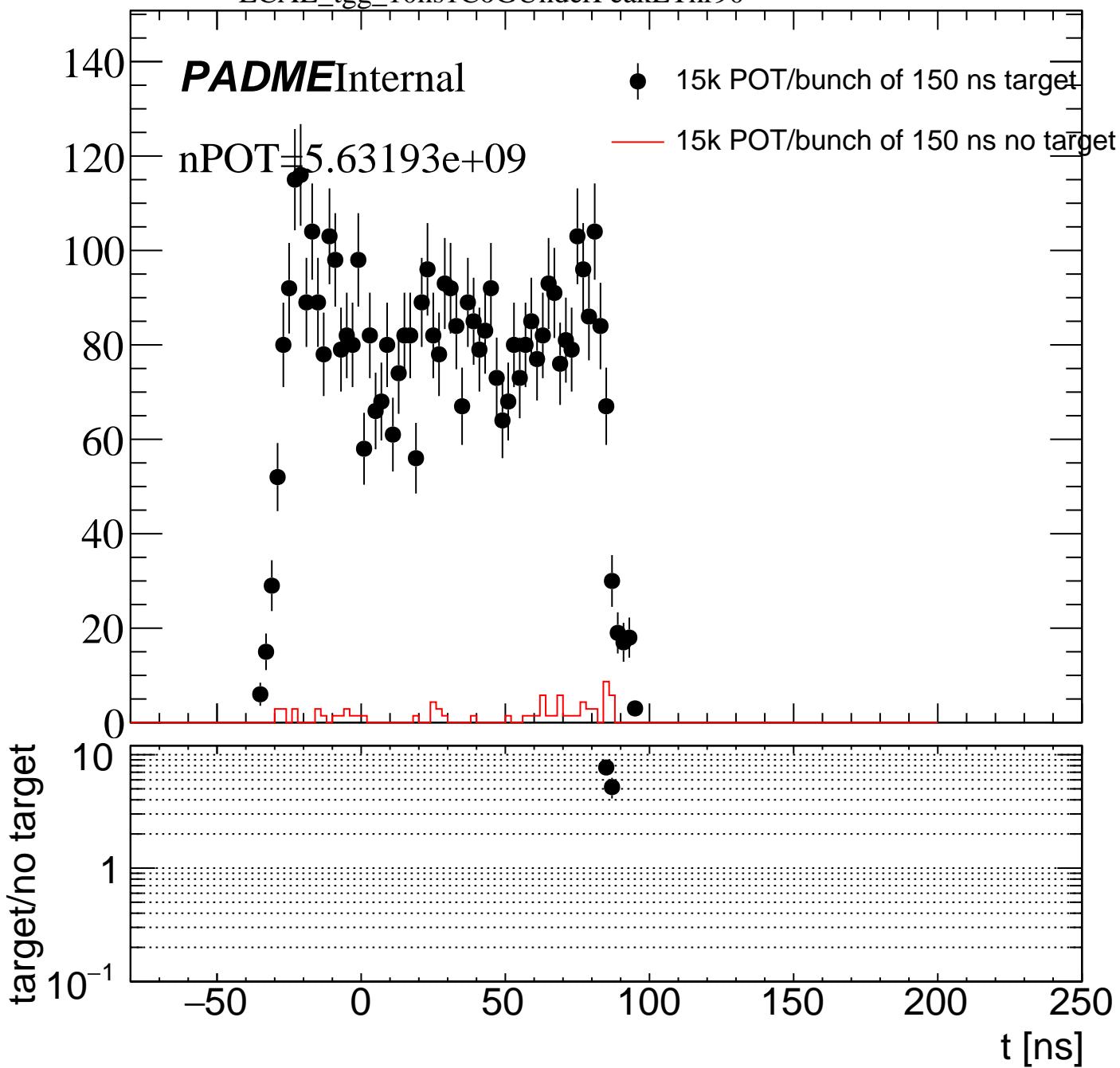


ECAL_tgg_10ns20DegreeDeltaThetaUnderPeakEThr90

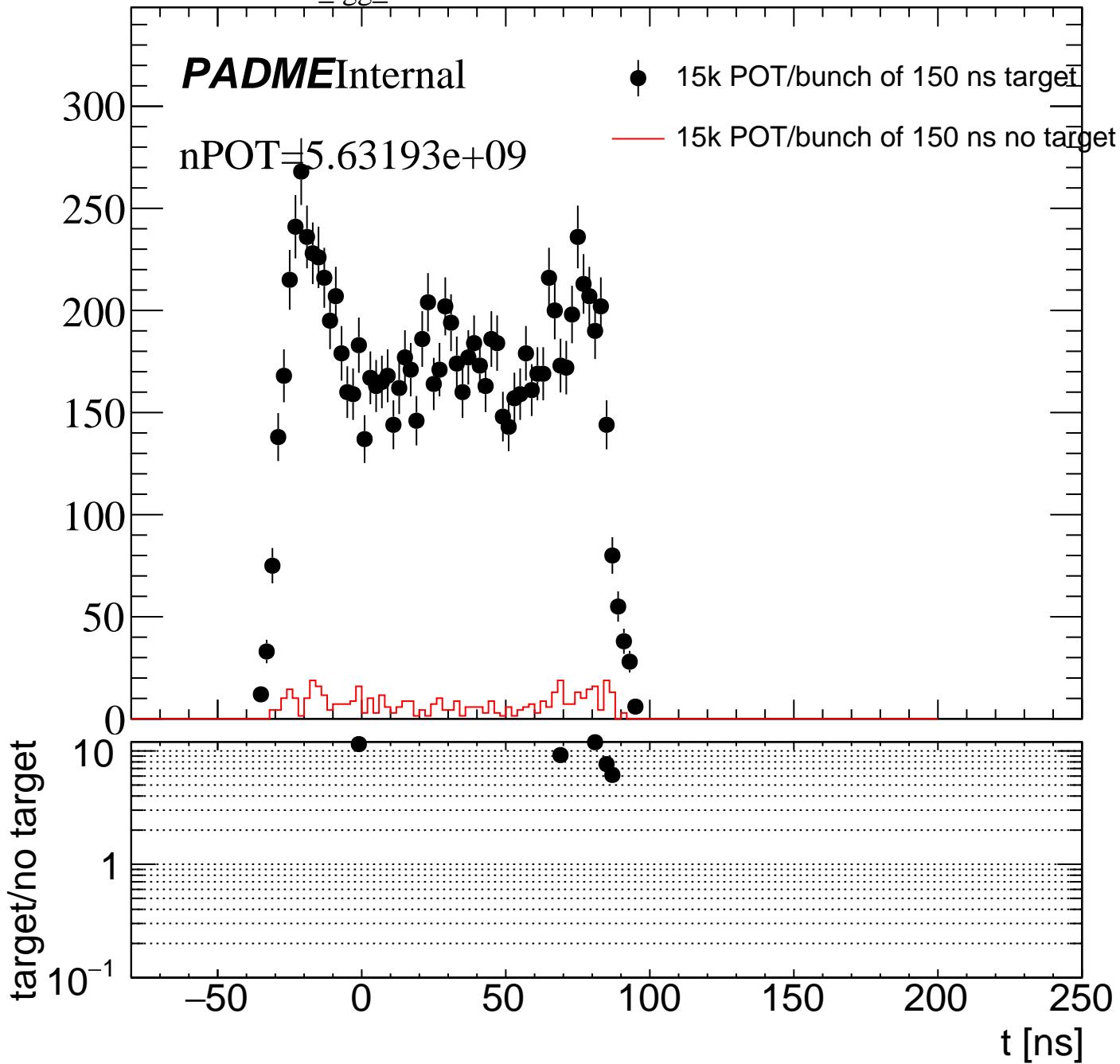




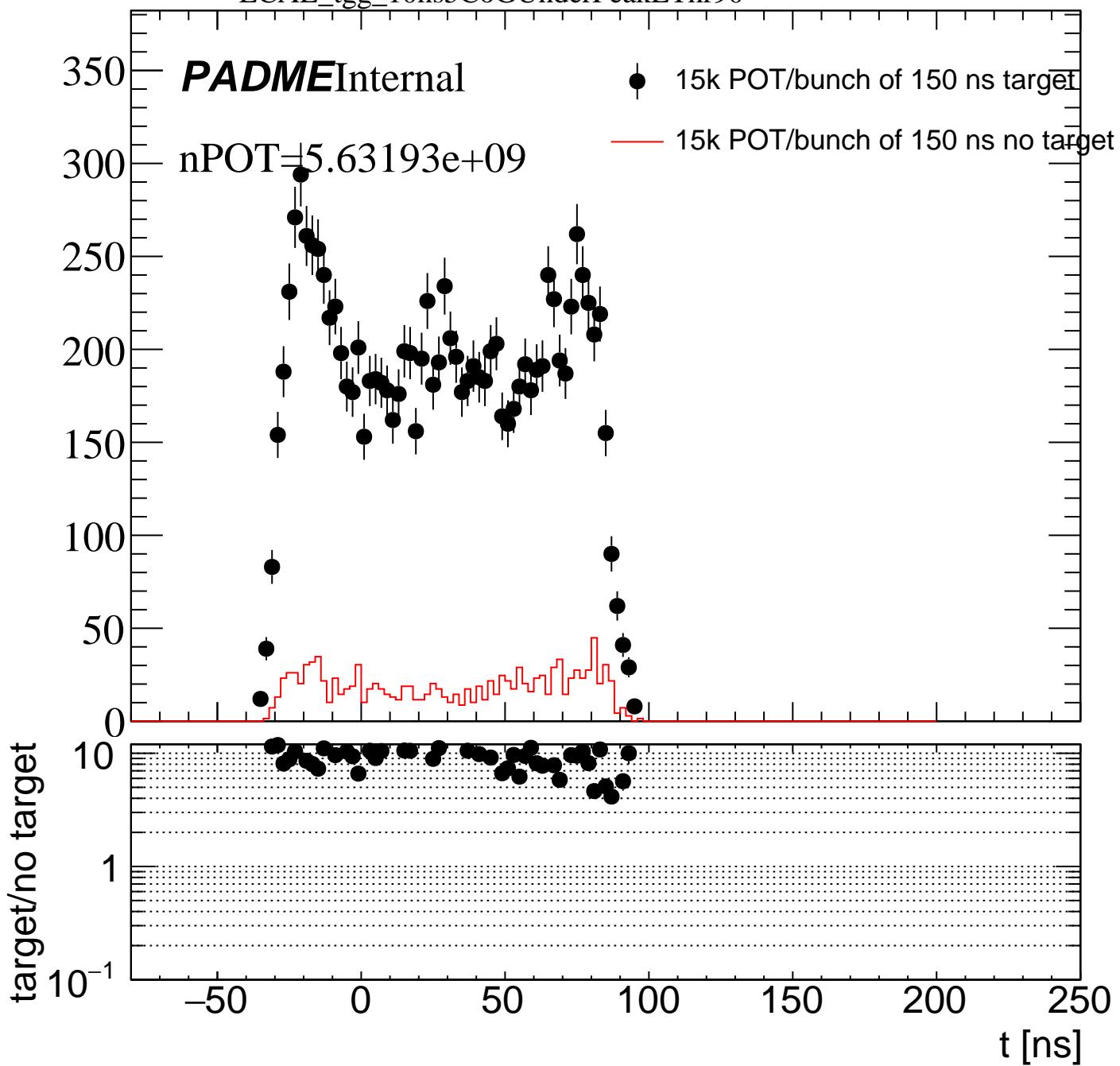
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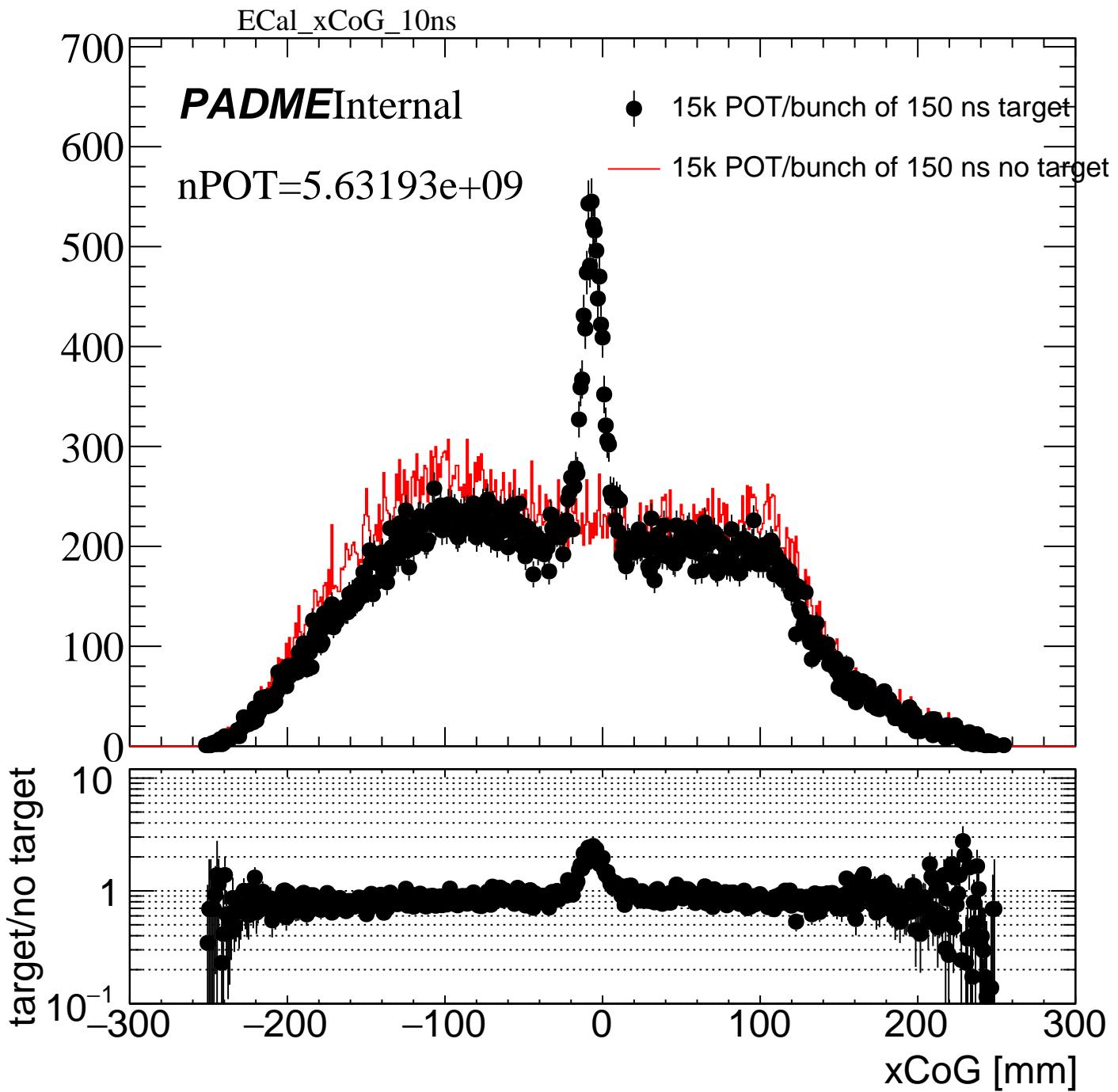


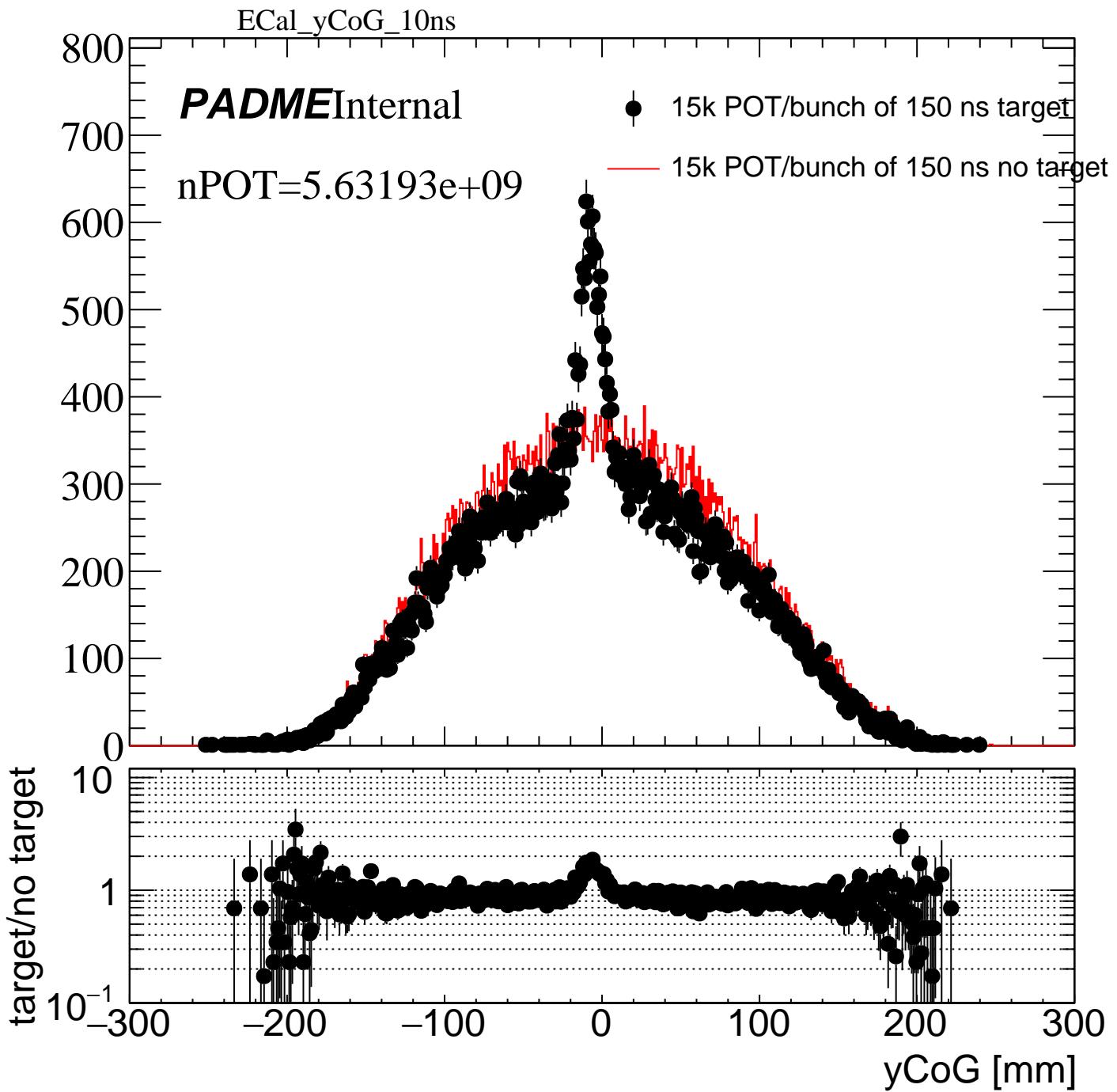
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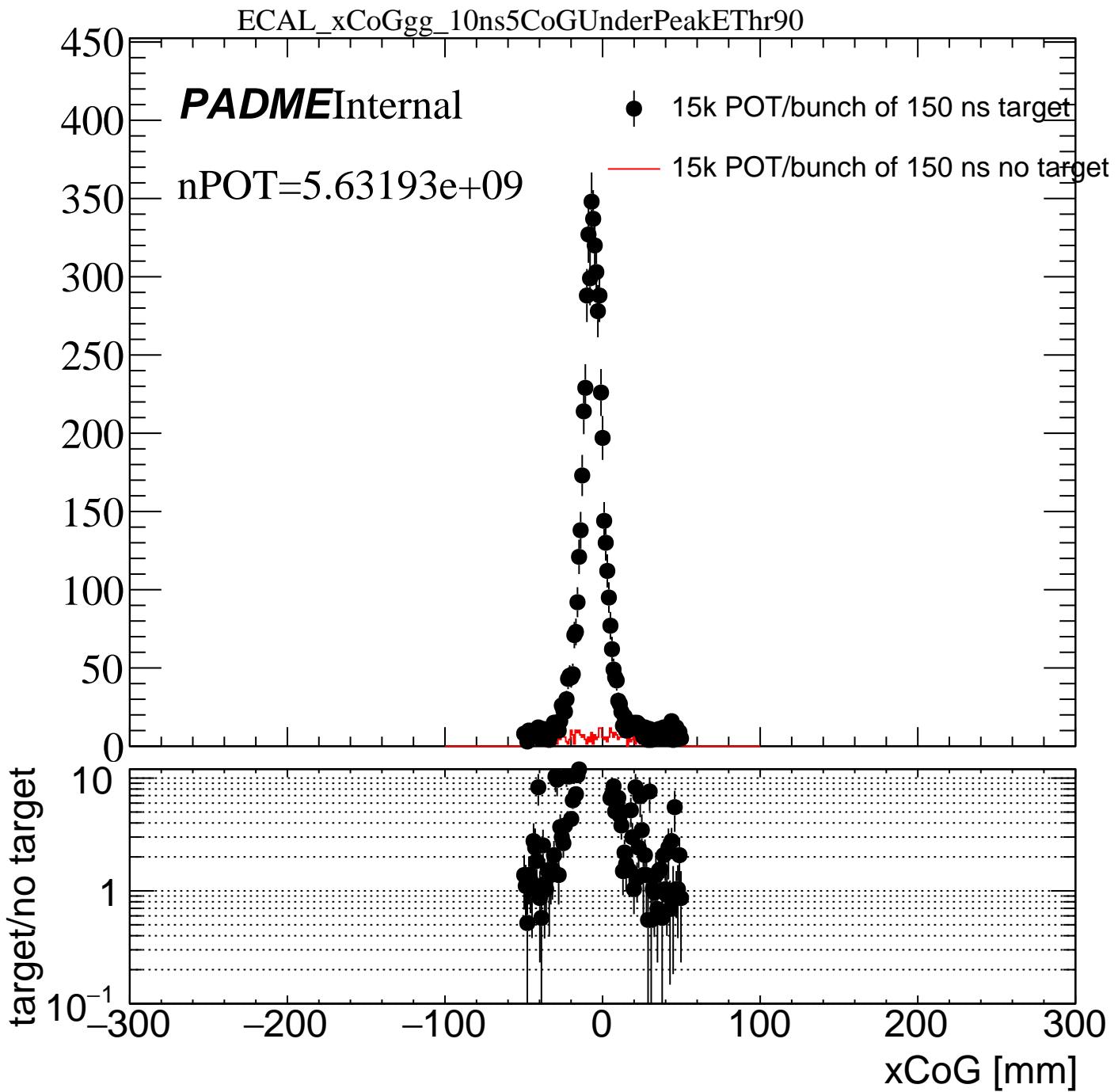


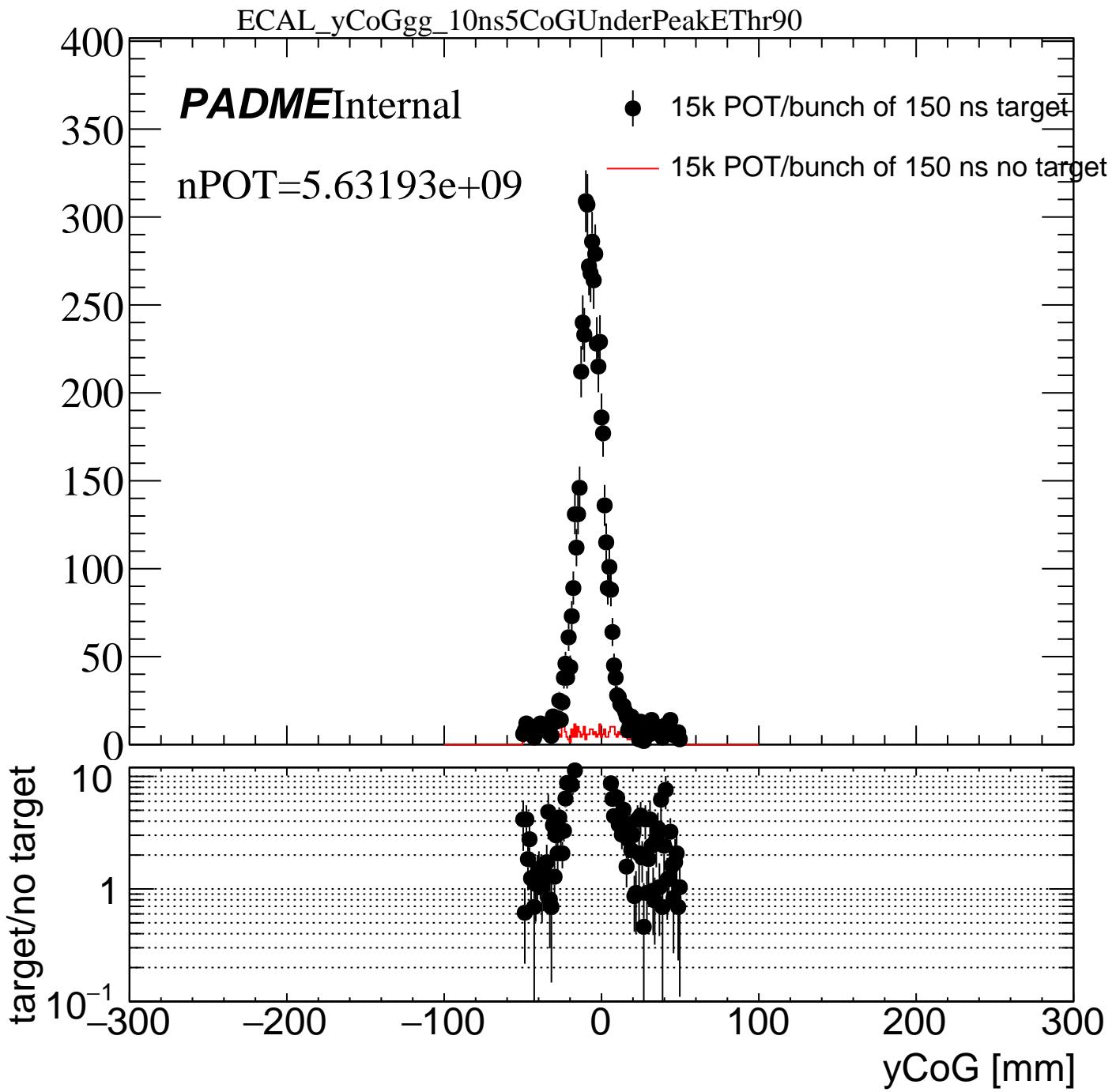
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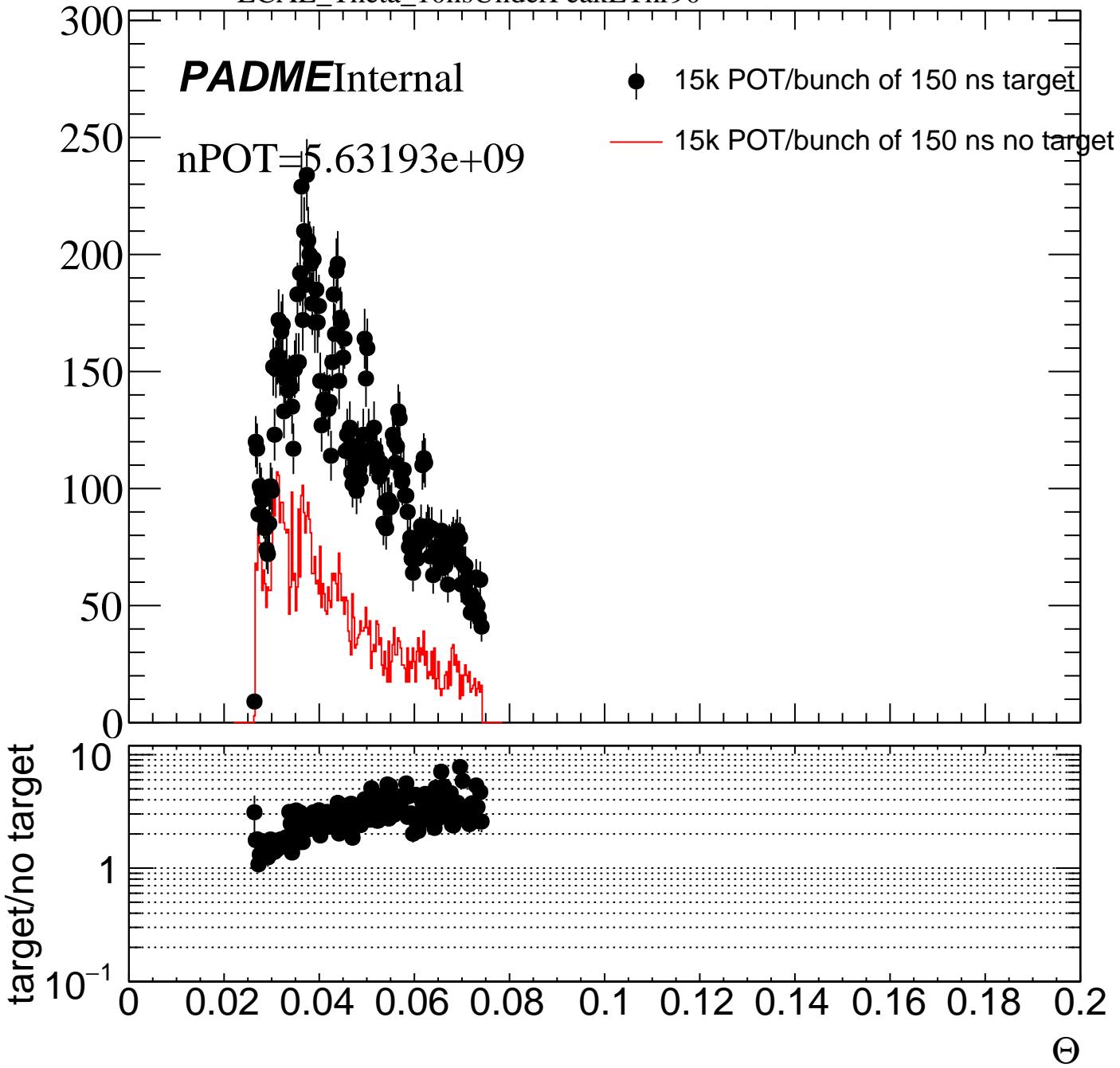


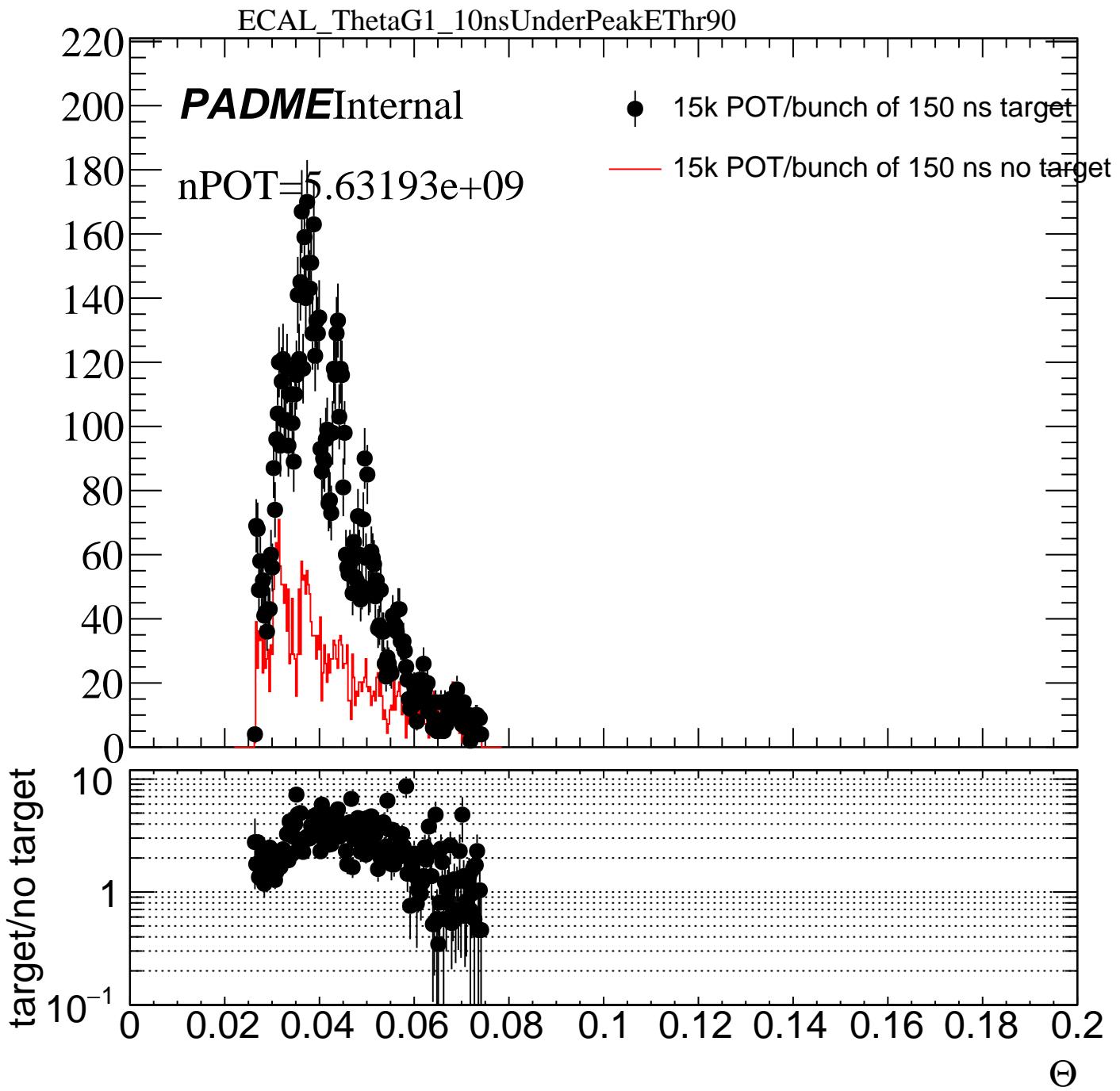


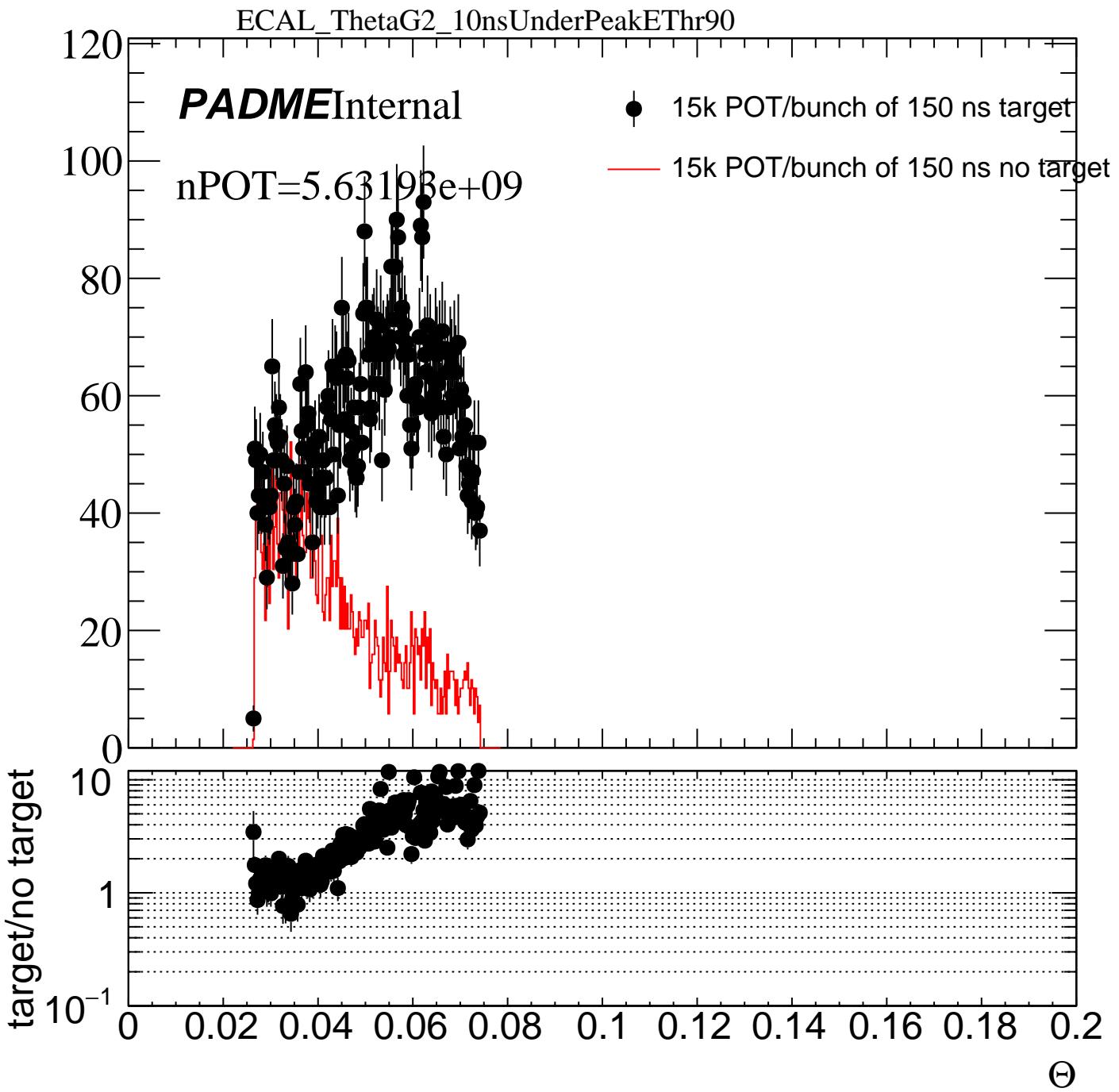


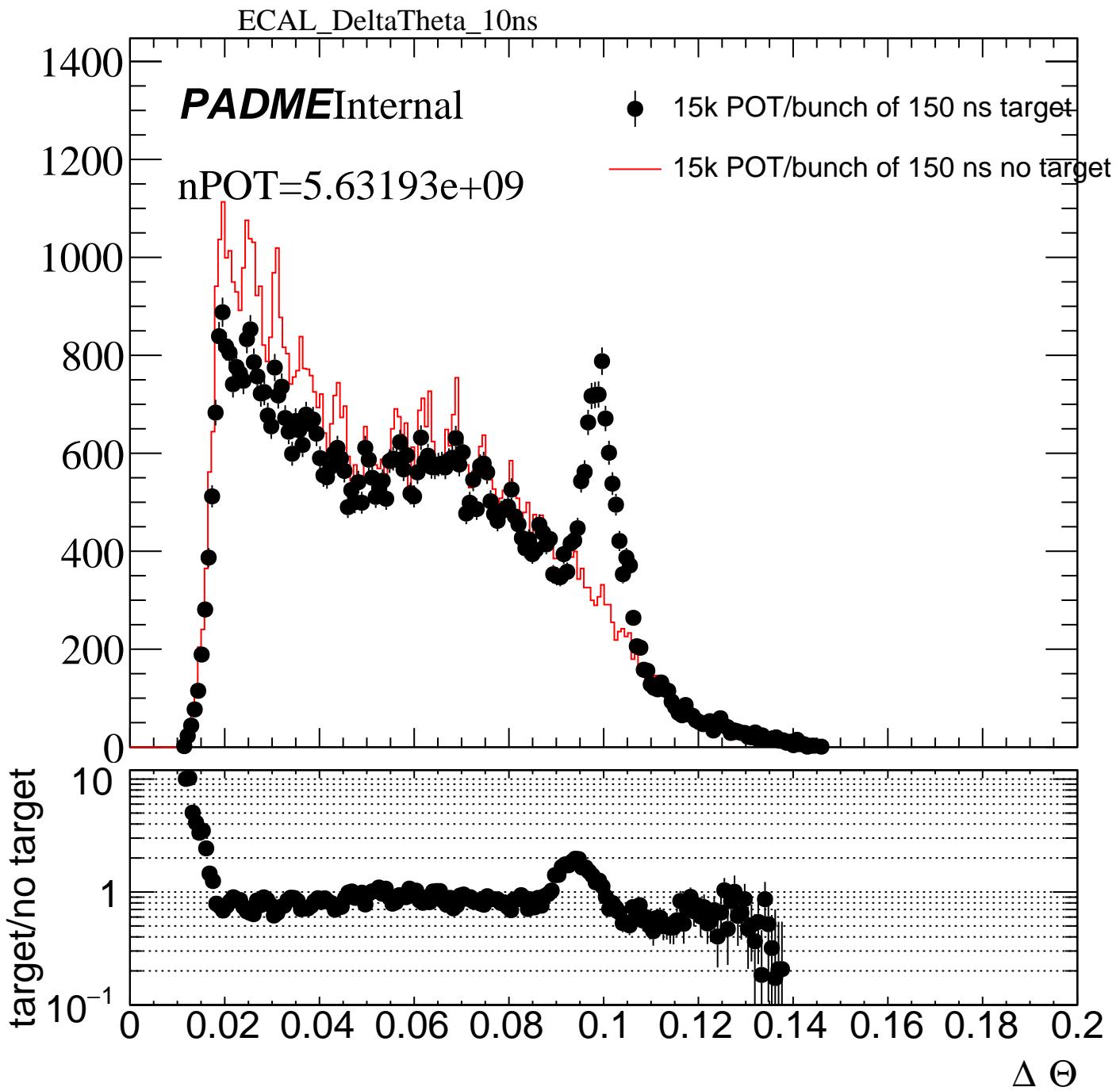


ECAL_Theta_10nsUnderPeakEThr90

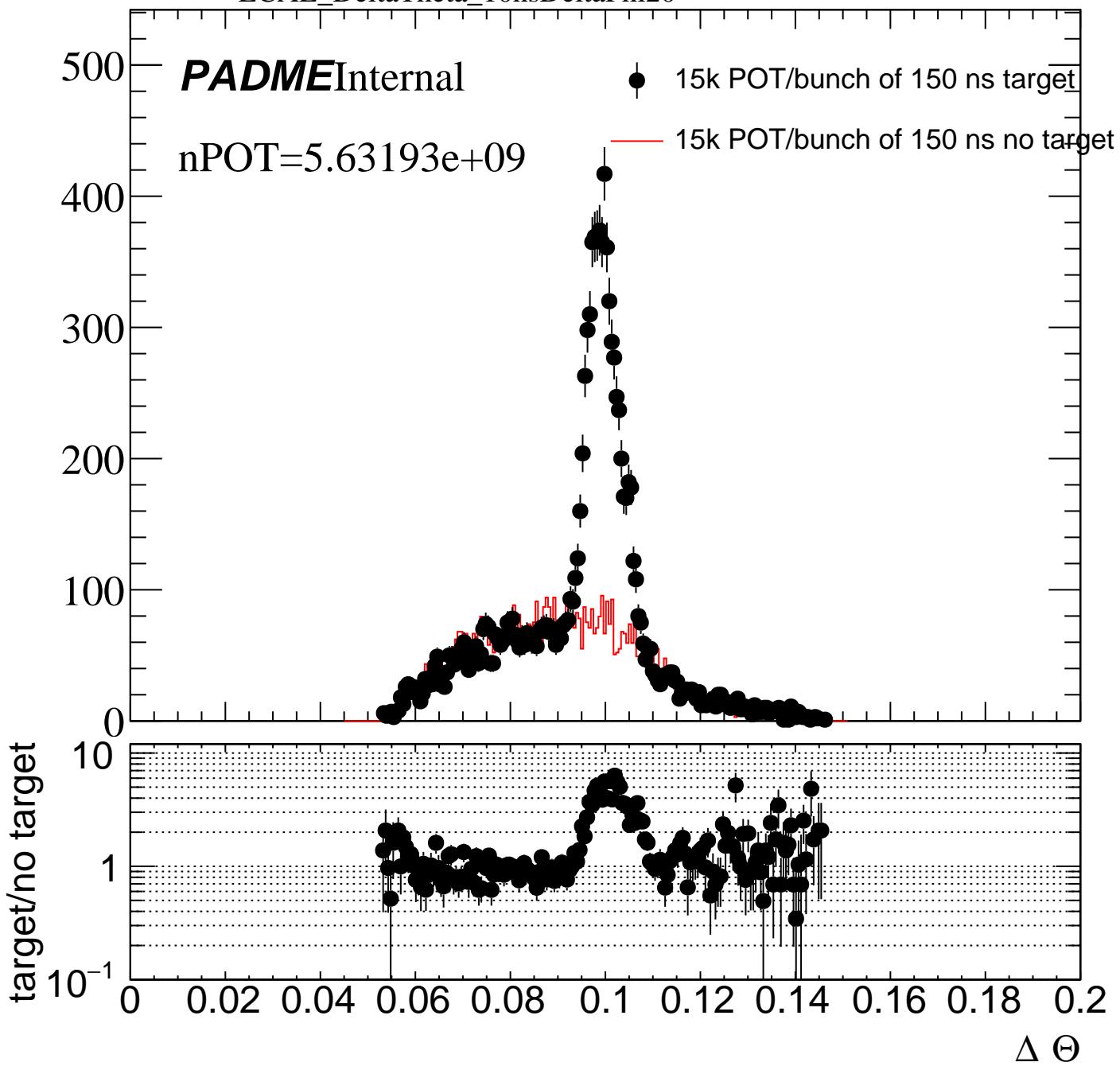




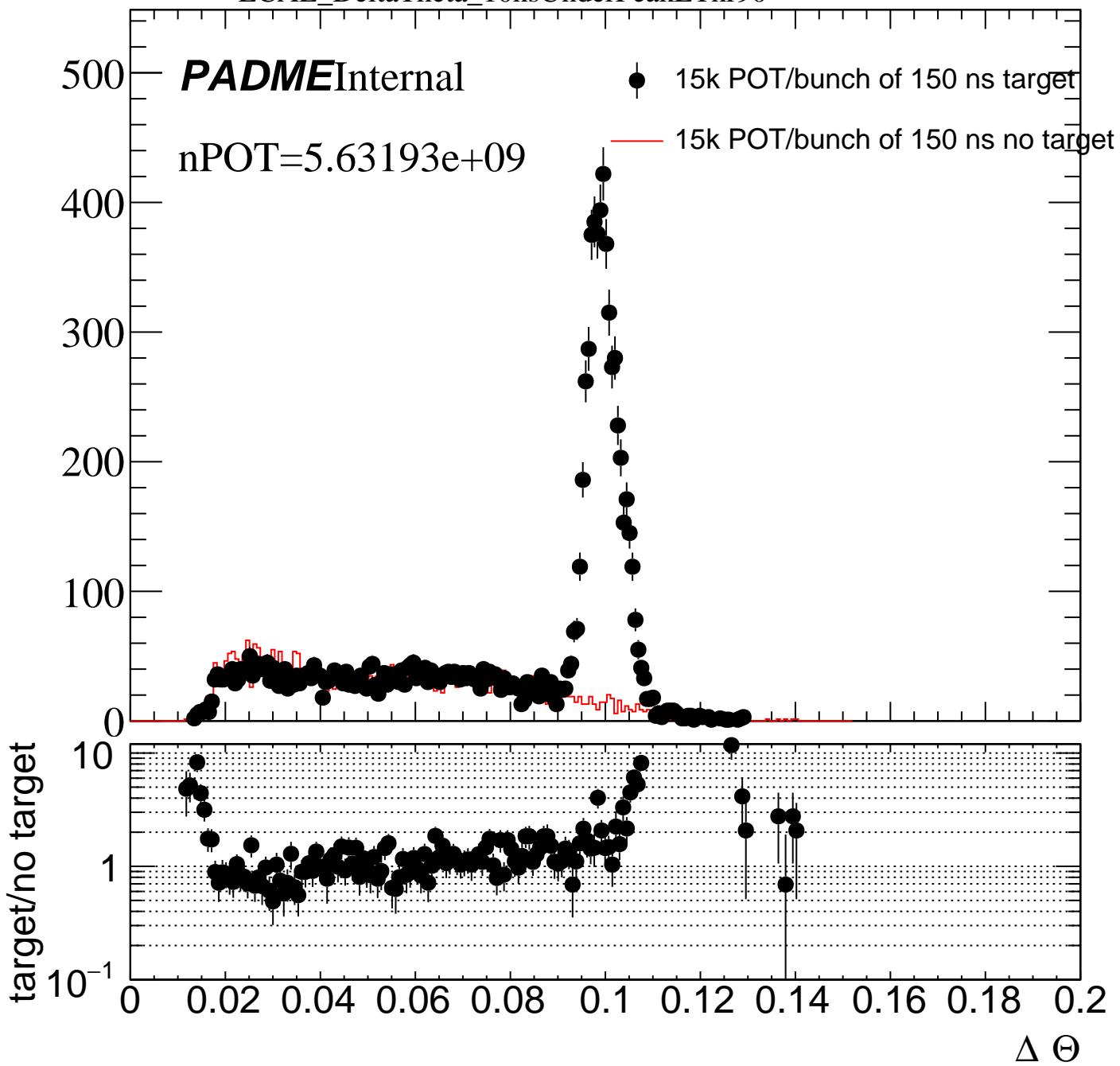


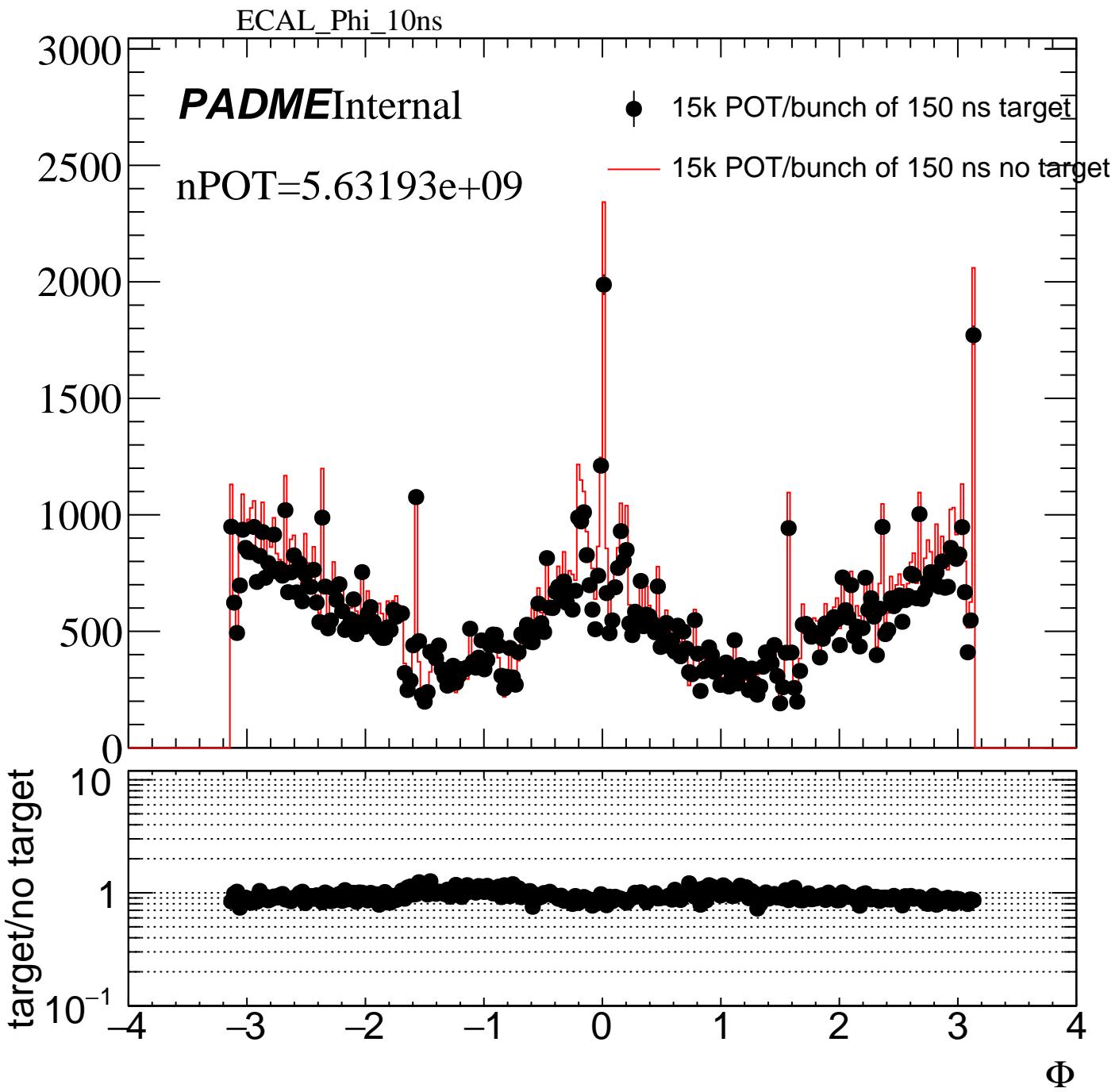


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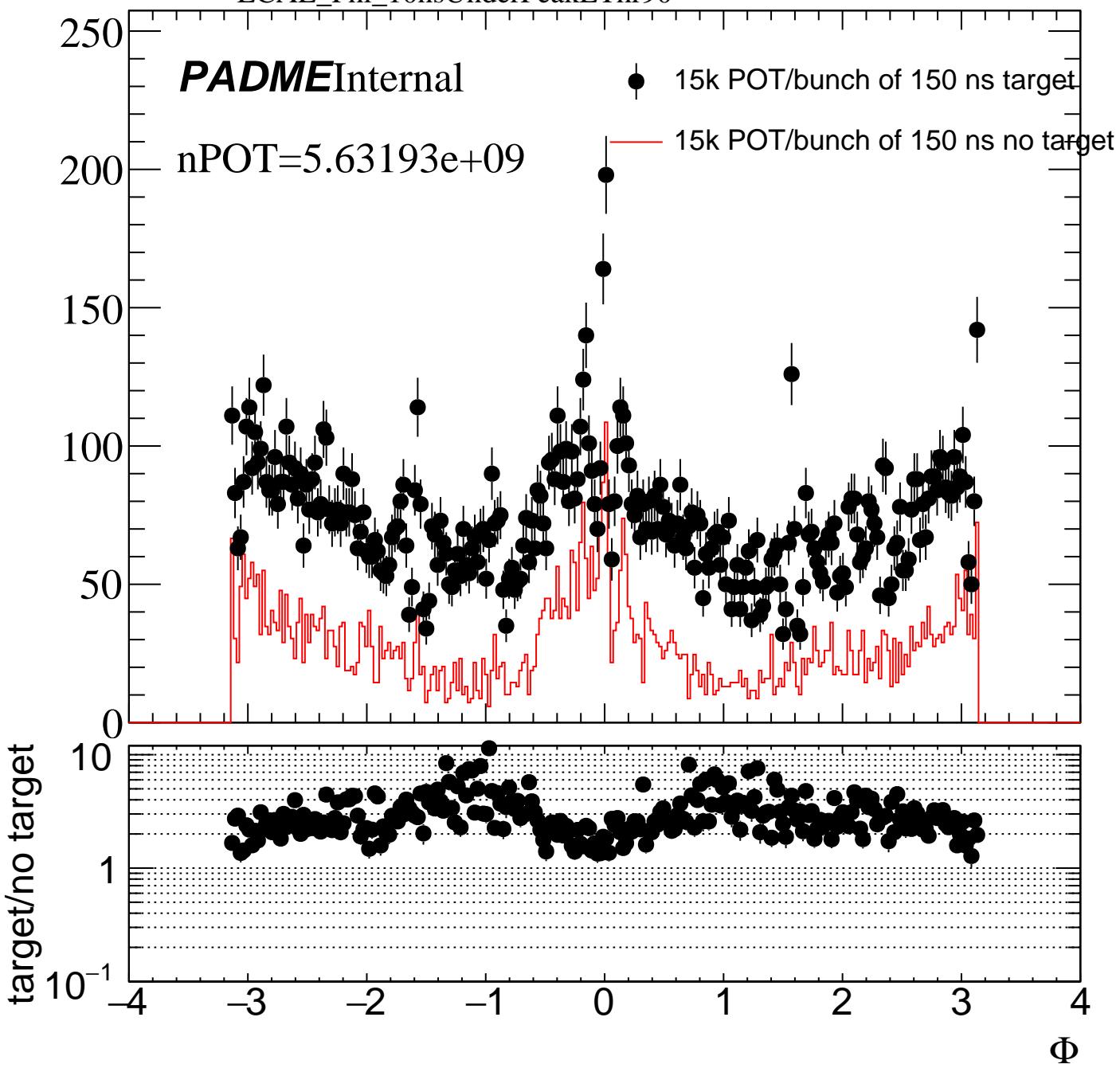


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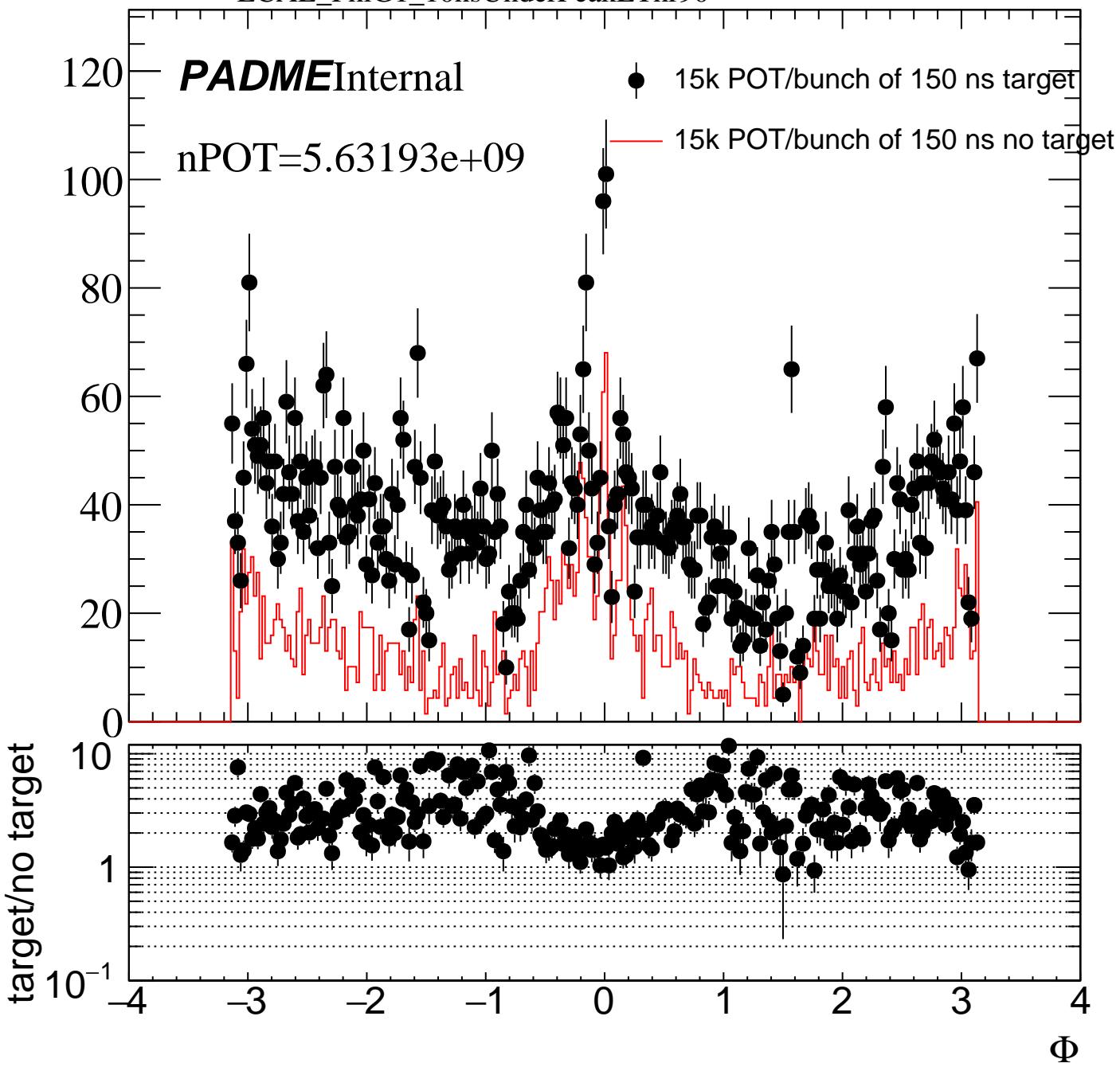




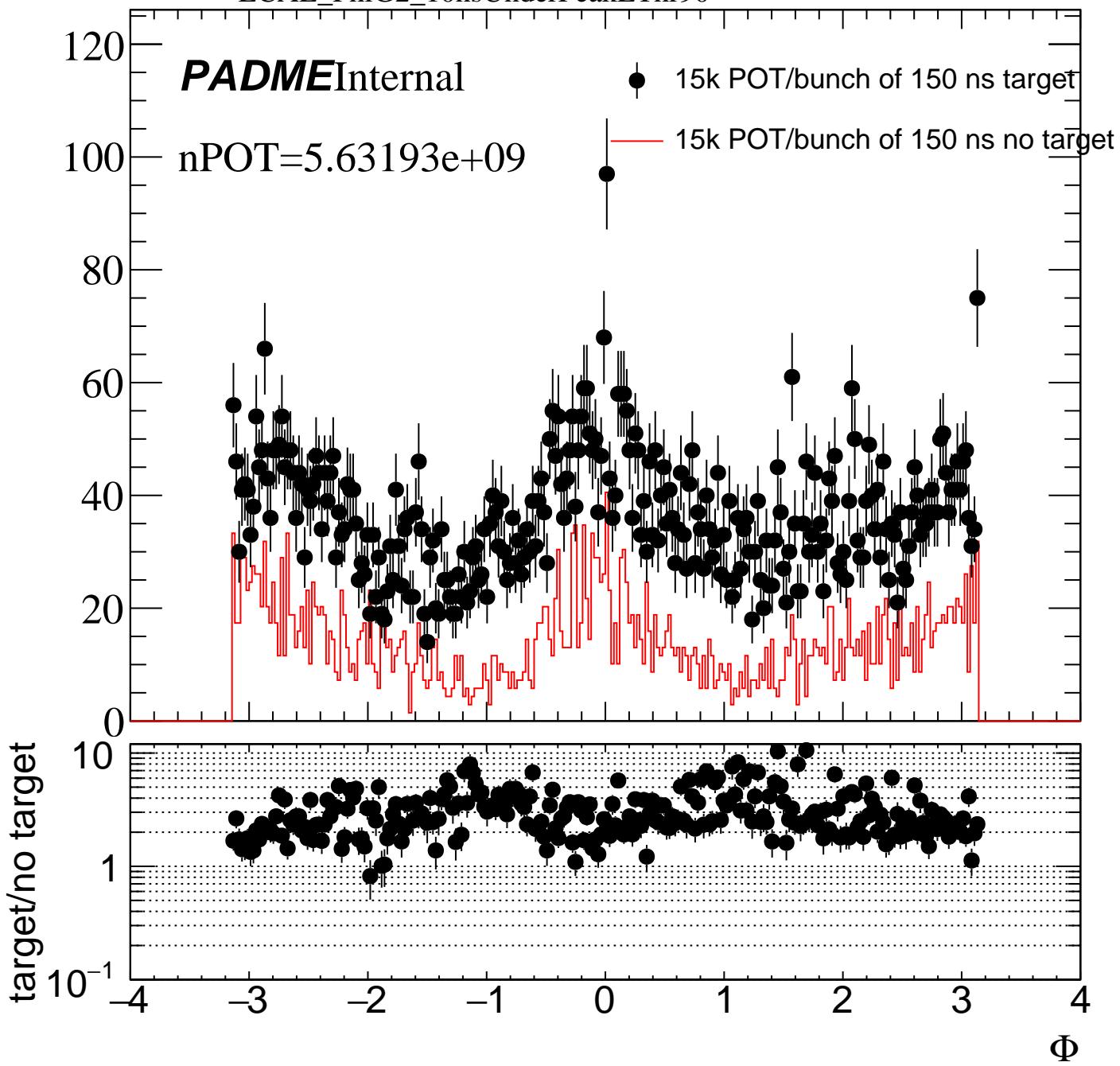
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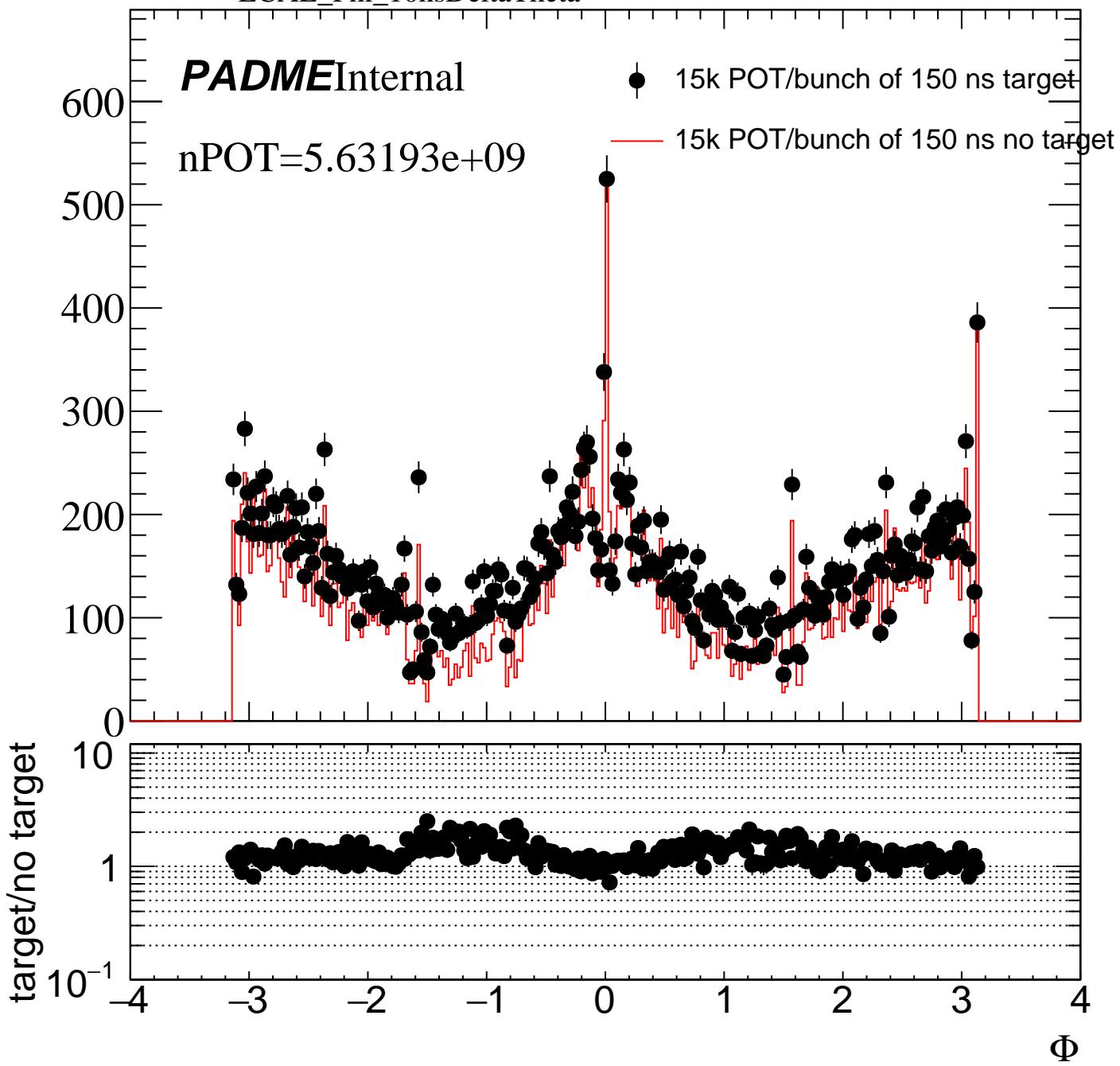
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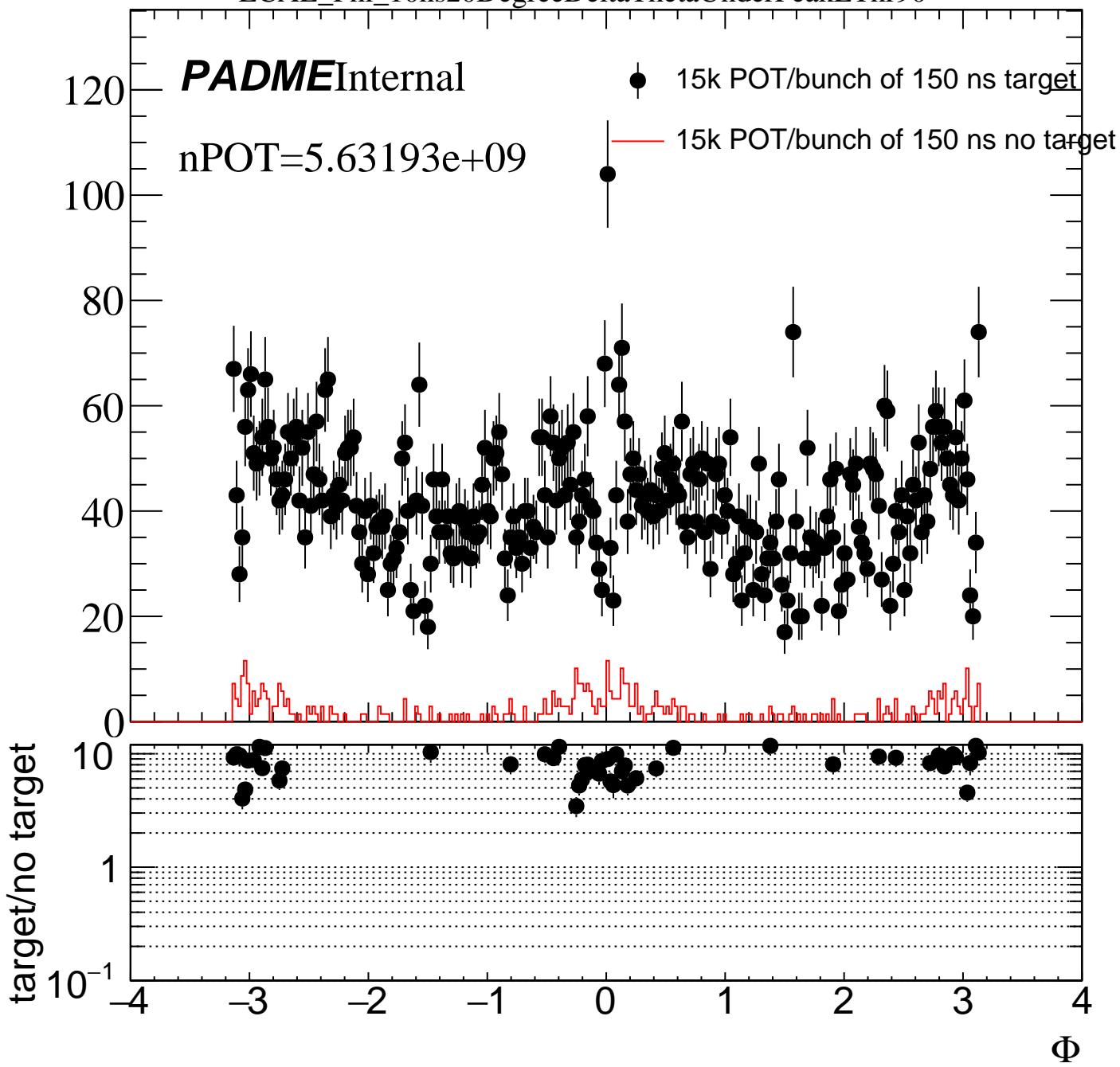
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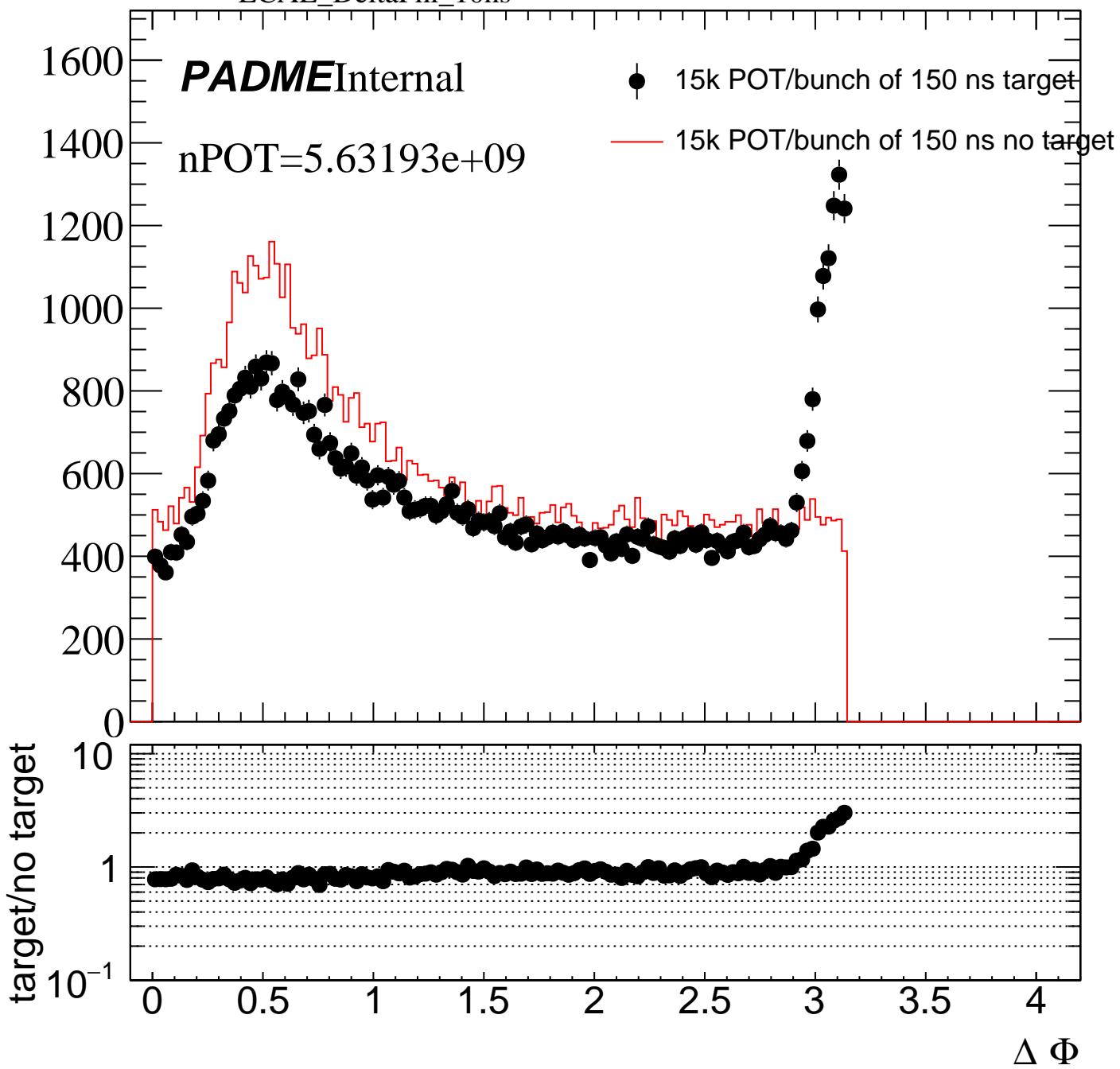
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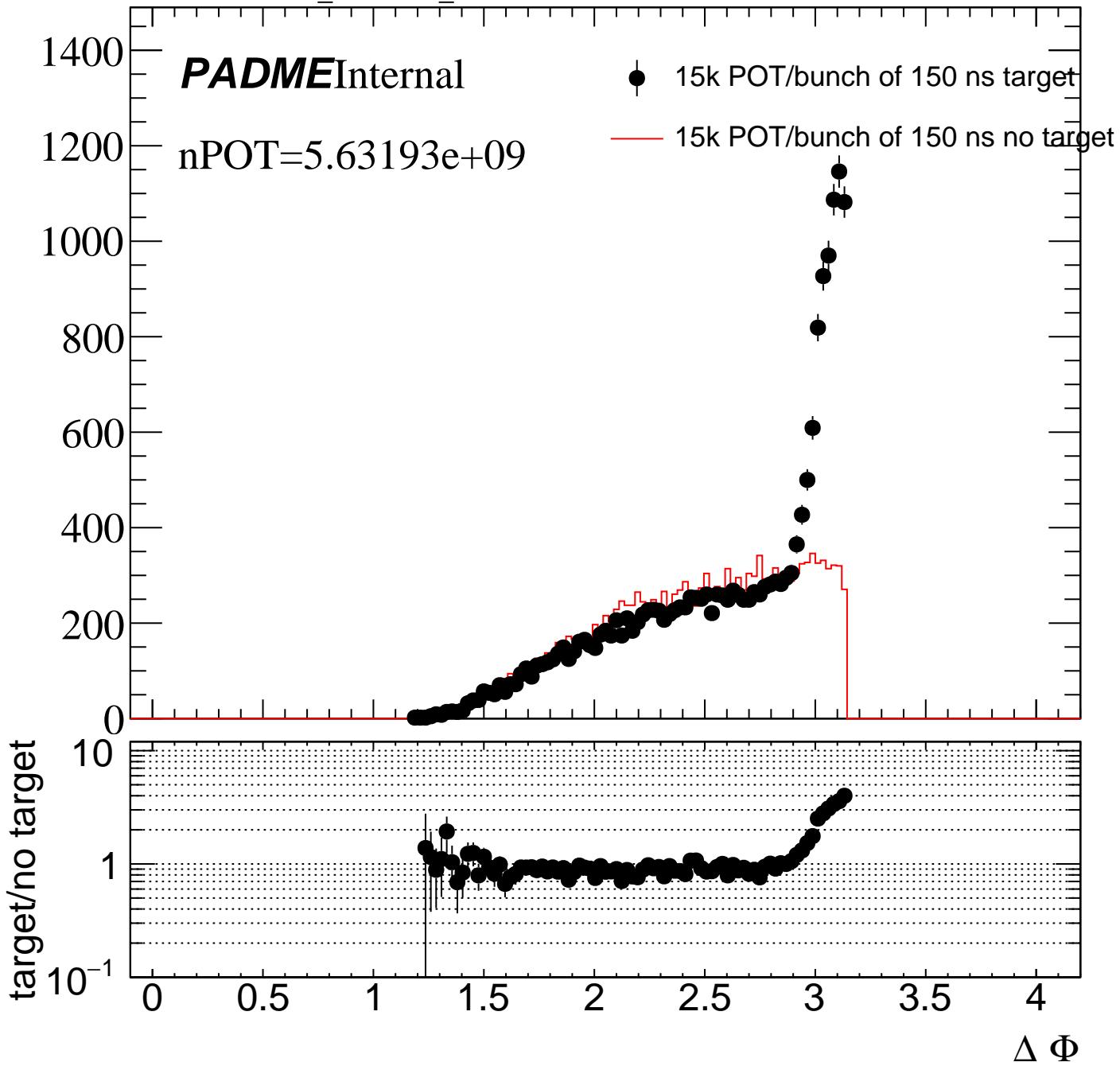
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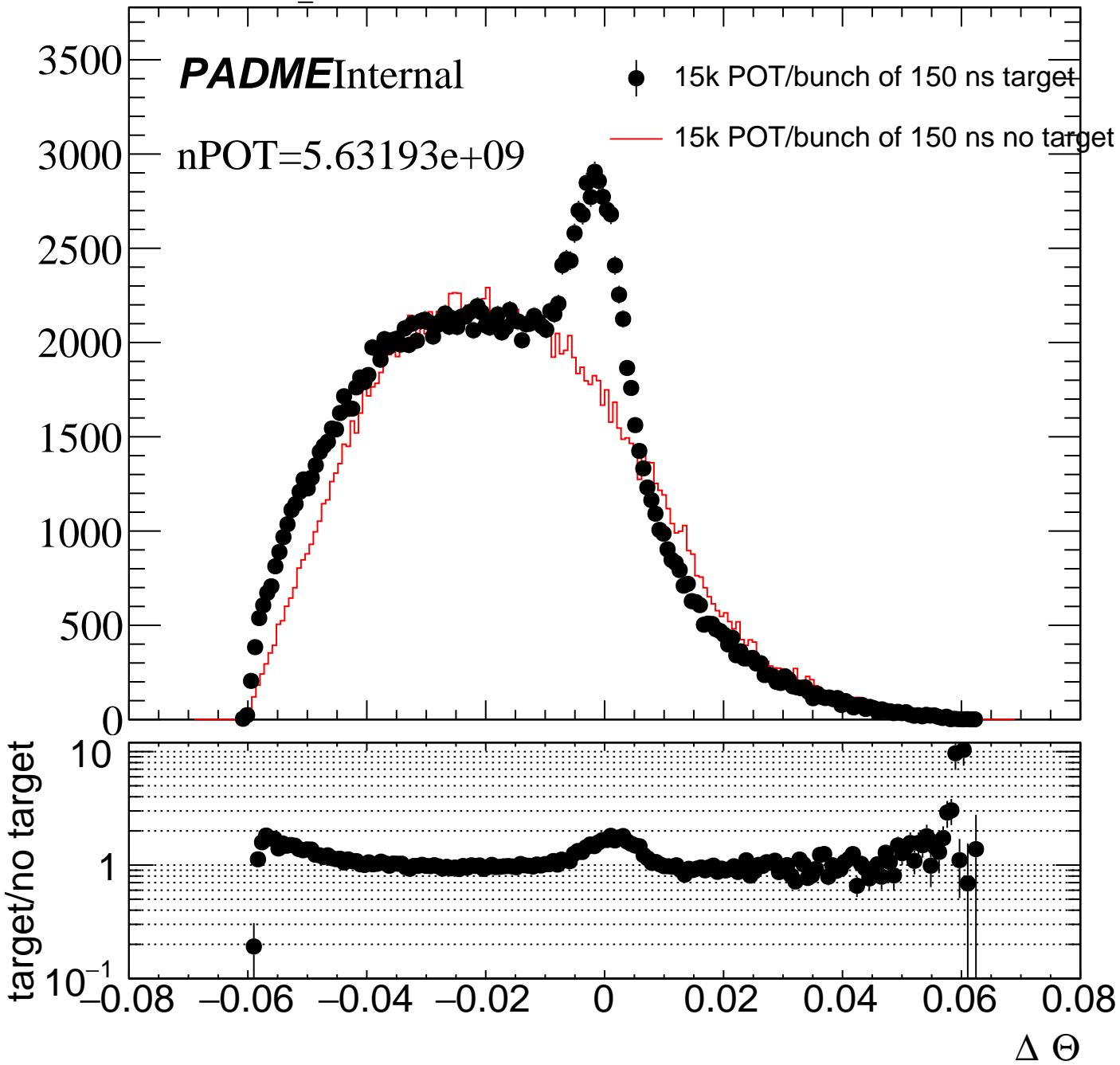
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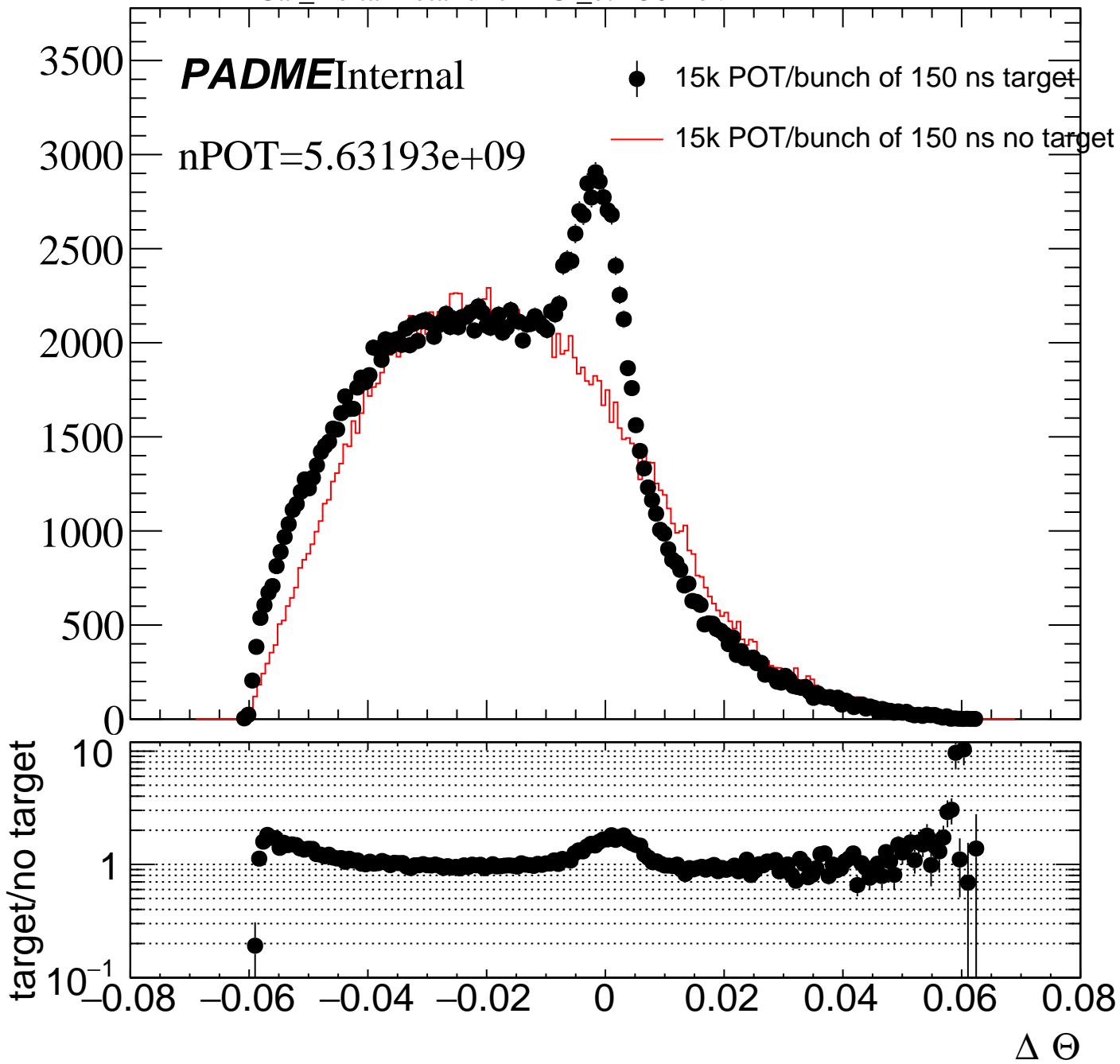
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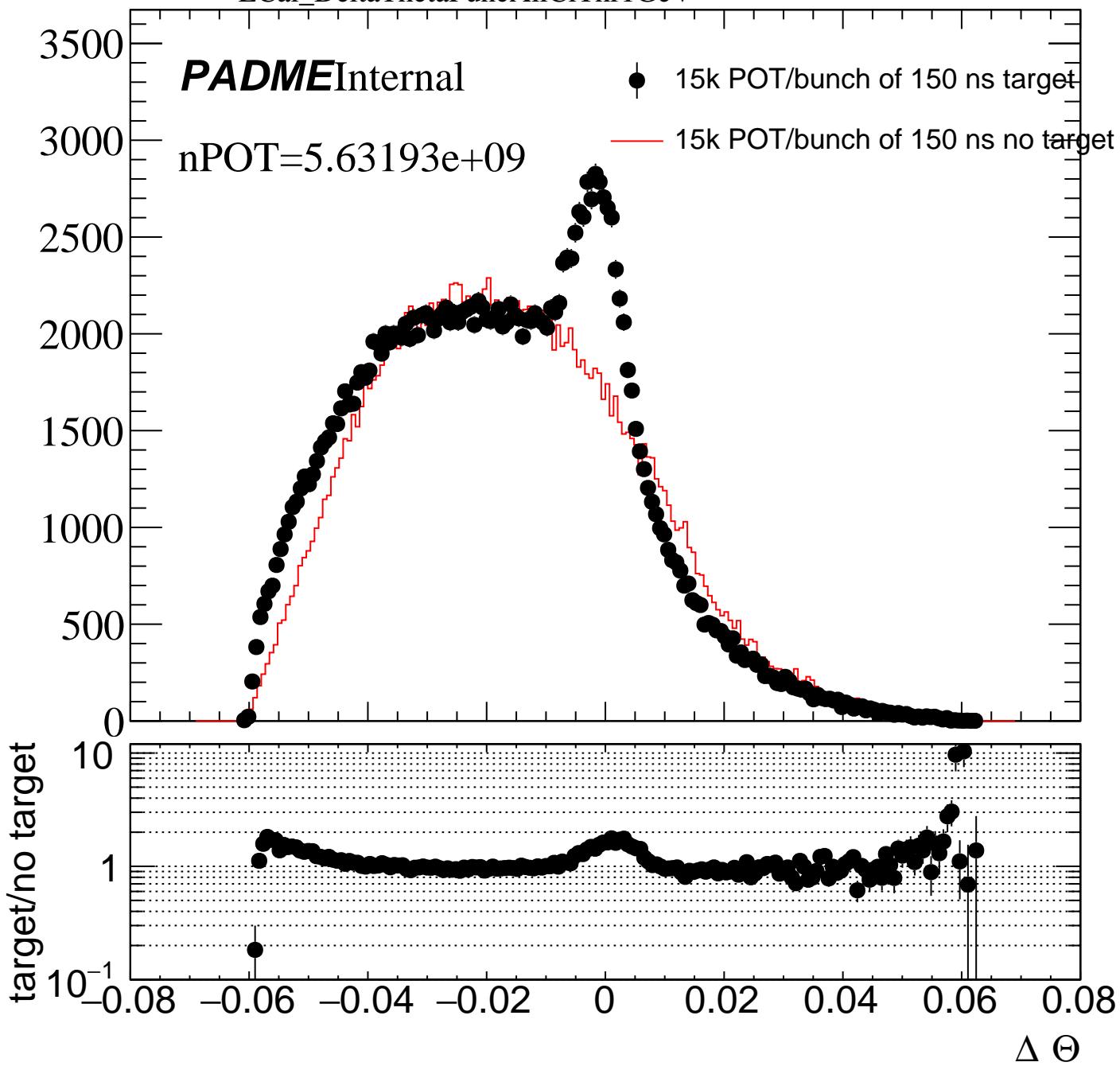
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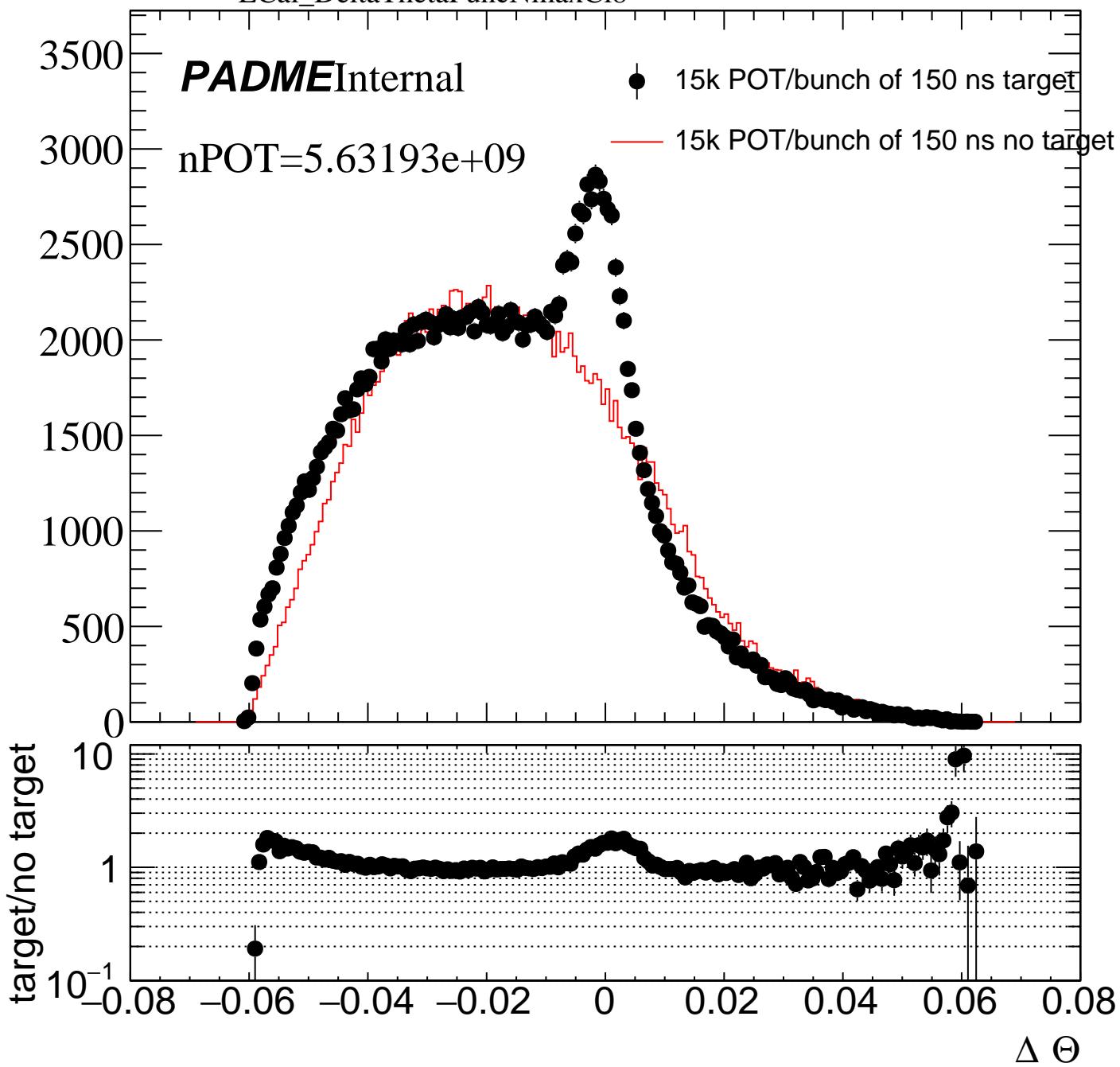
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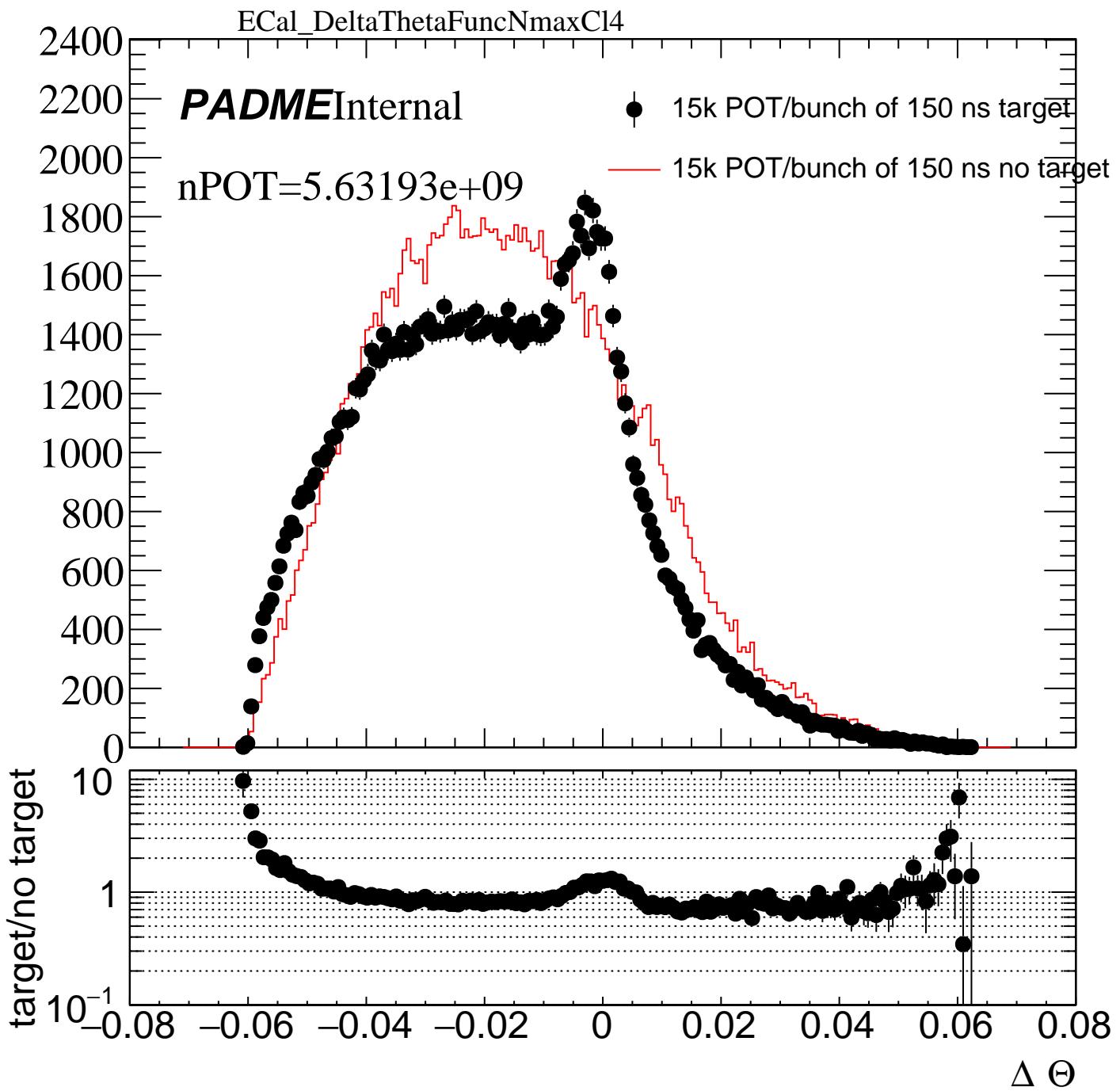


ECal_DeltaThetaFuncAllClThr1GeV

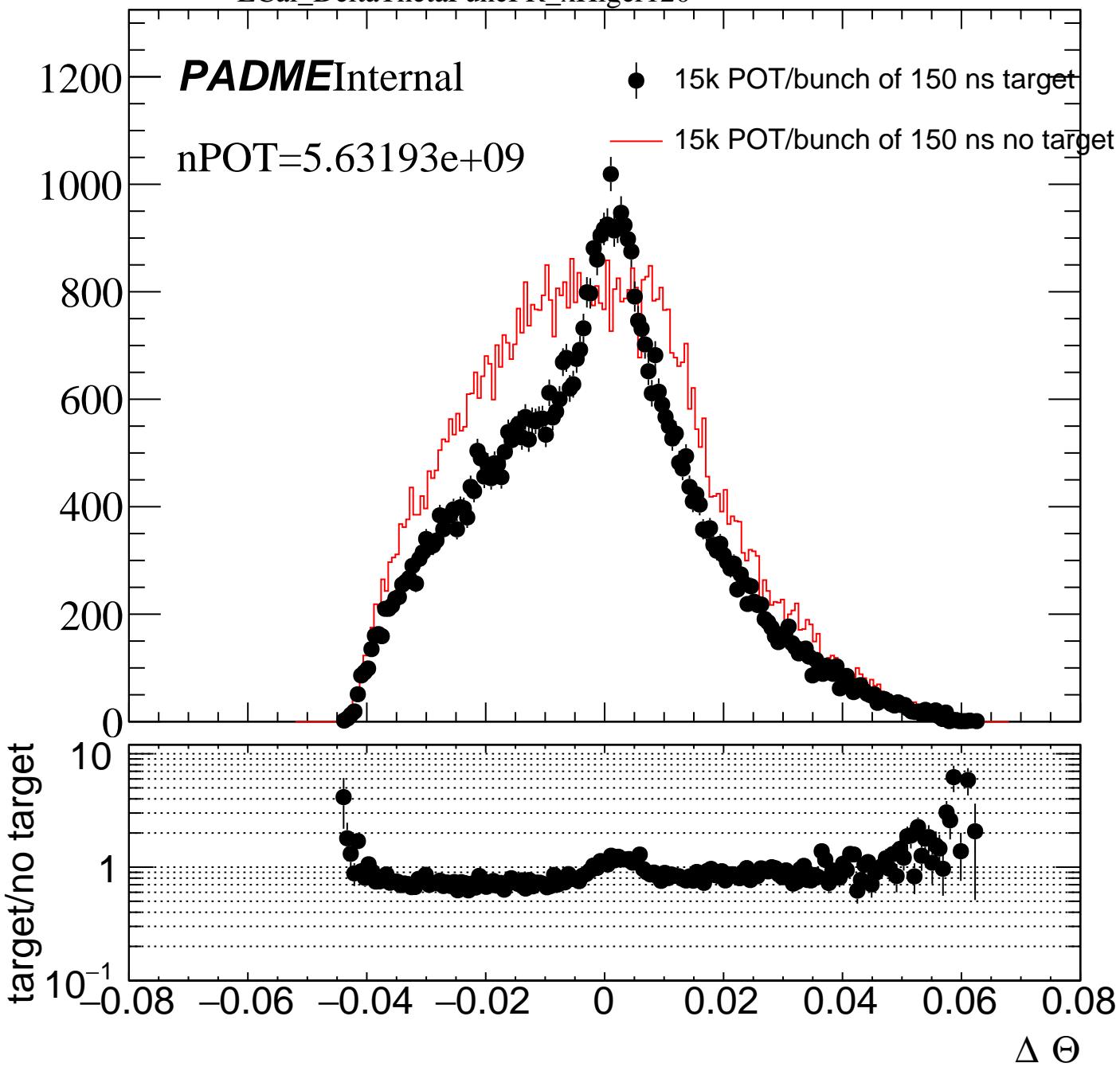


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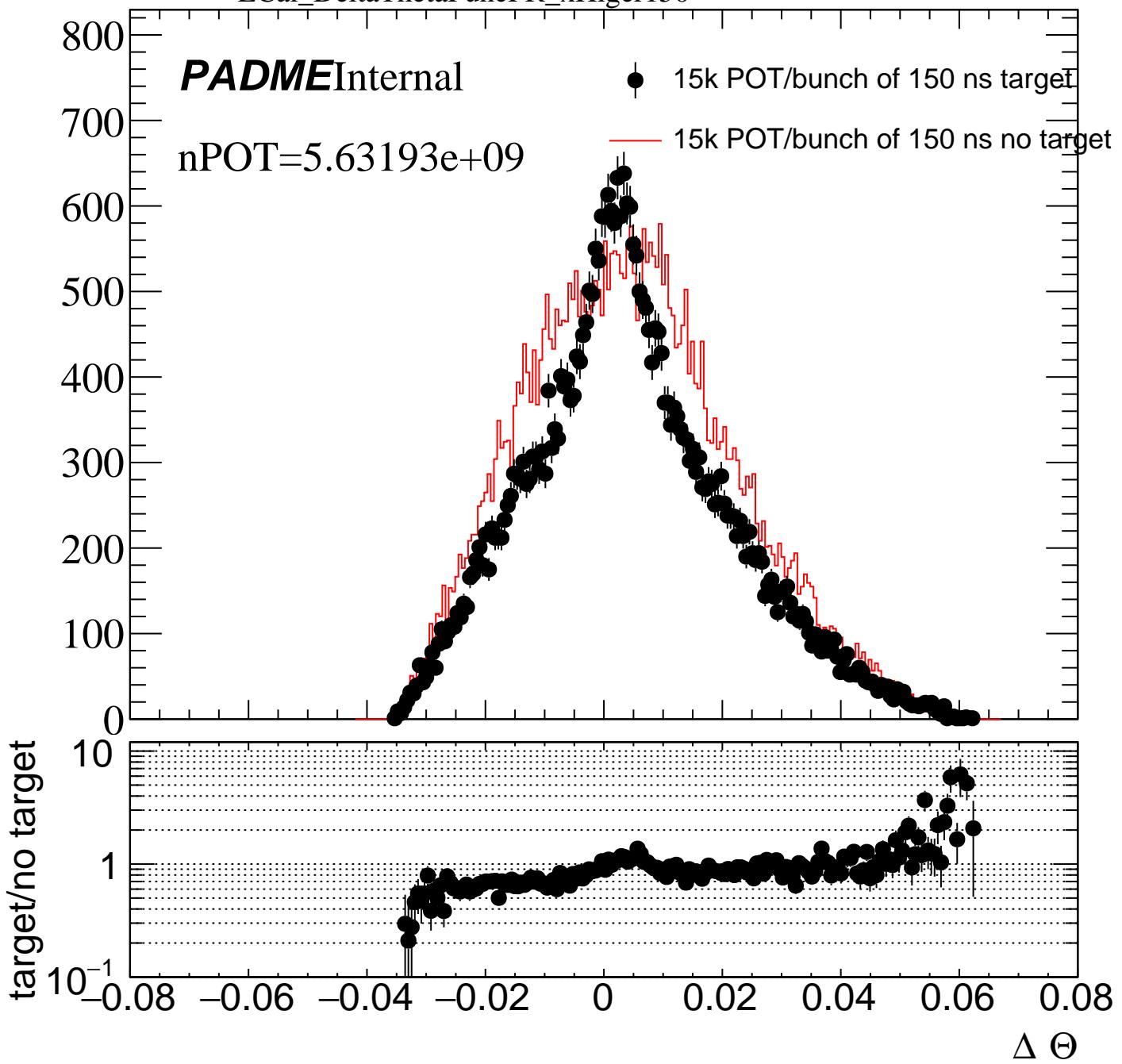


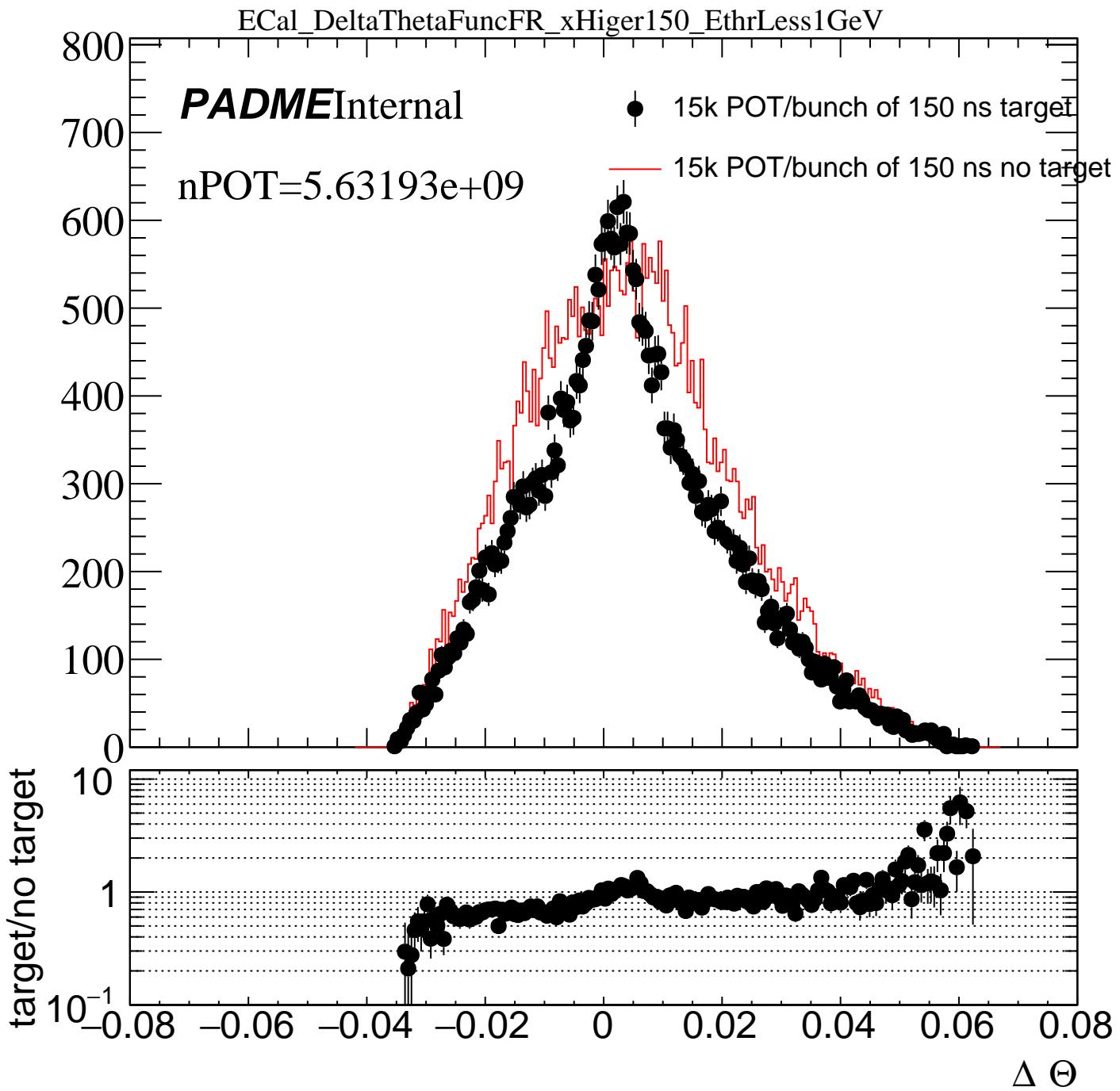


ECal_DeltaThetaFuncFR_xHiger120

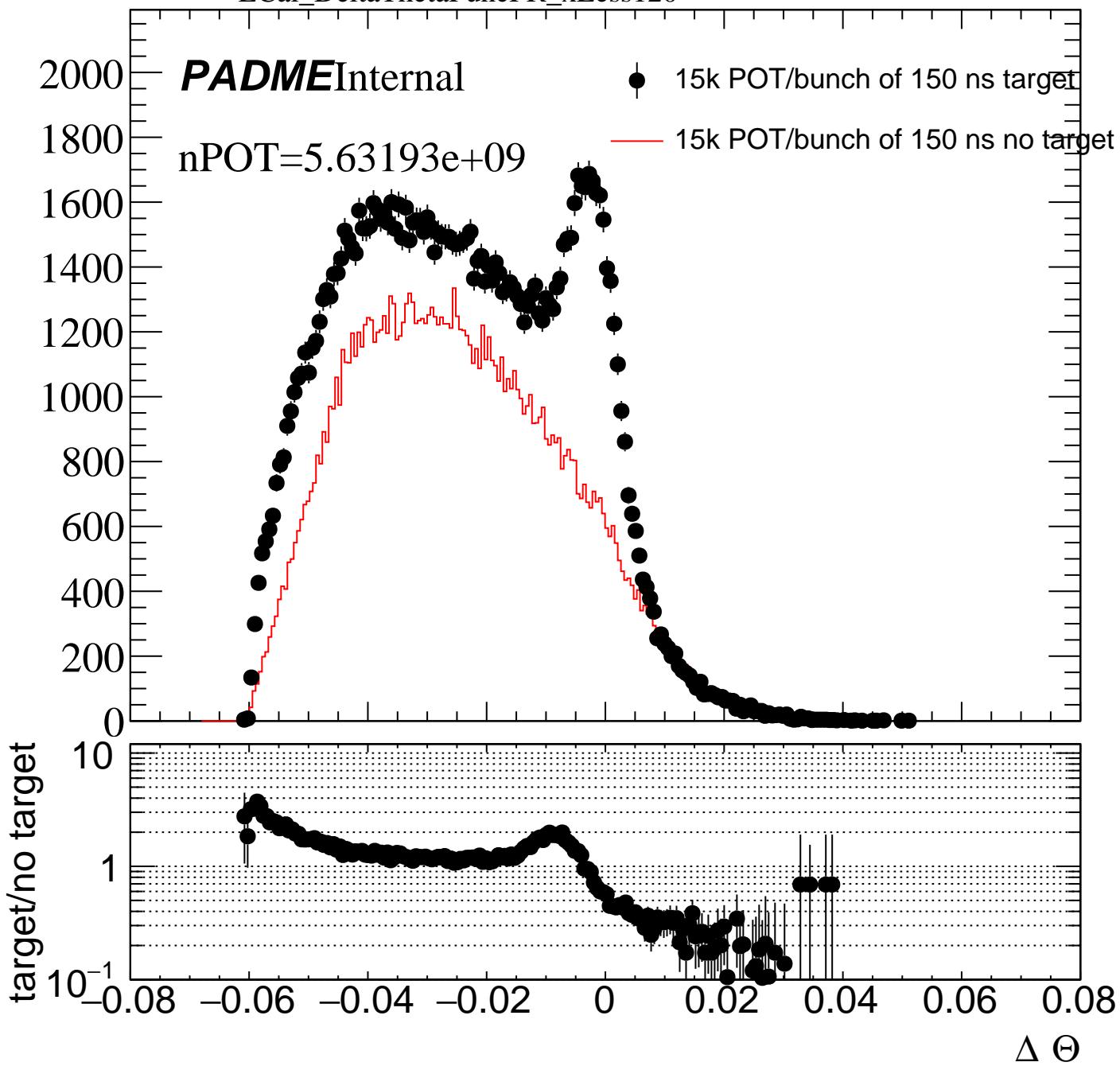


ECal_DeltaThetaFuncFR_xHiger150

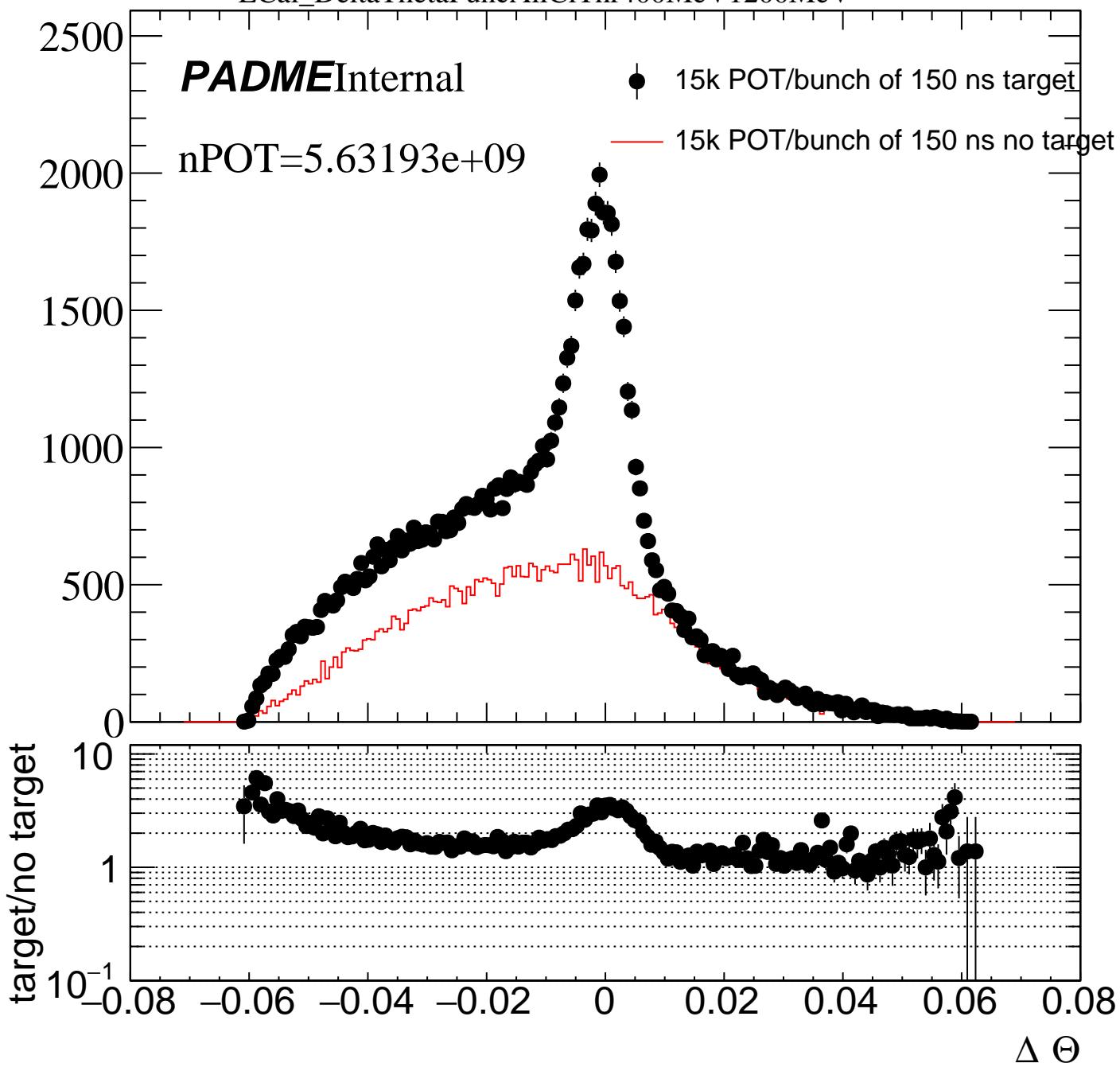




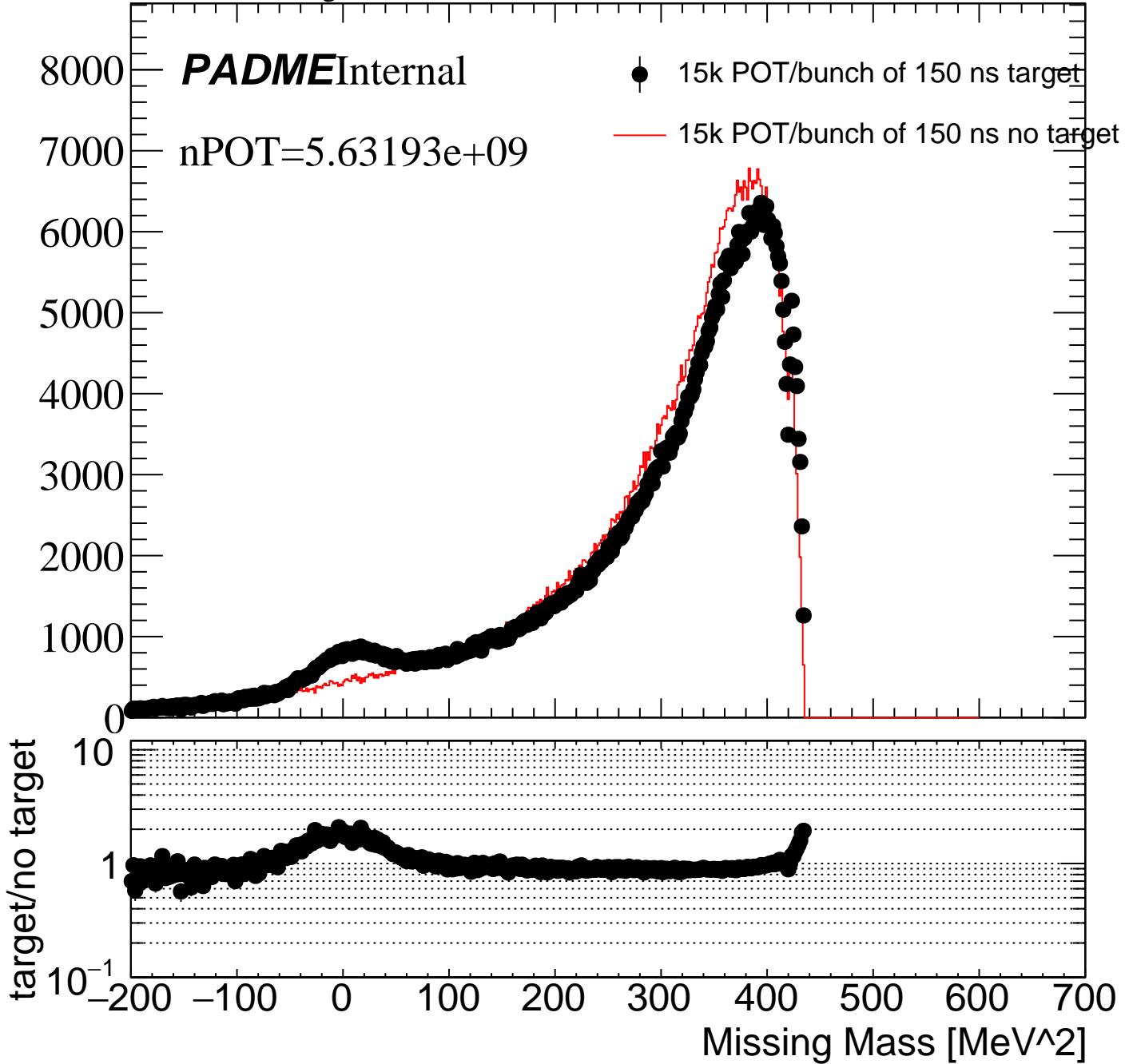
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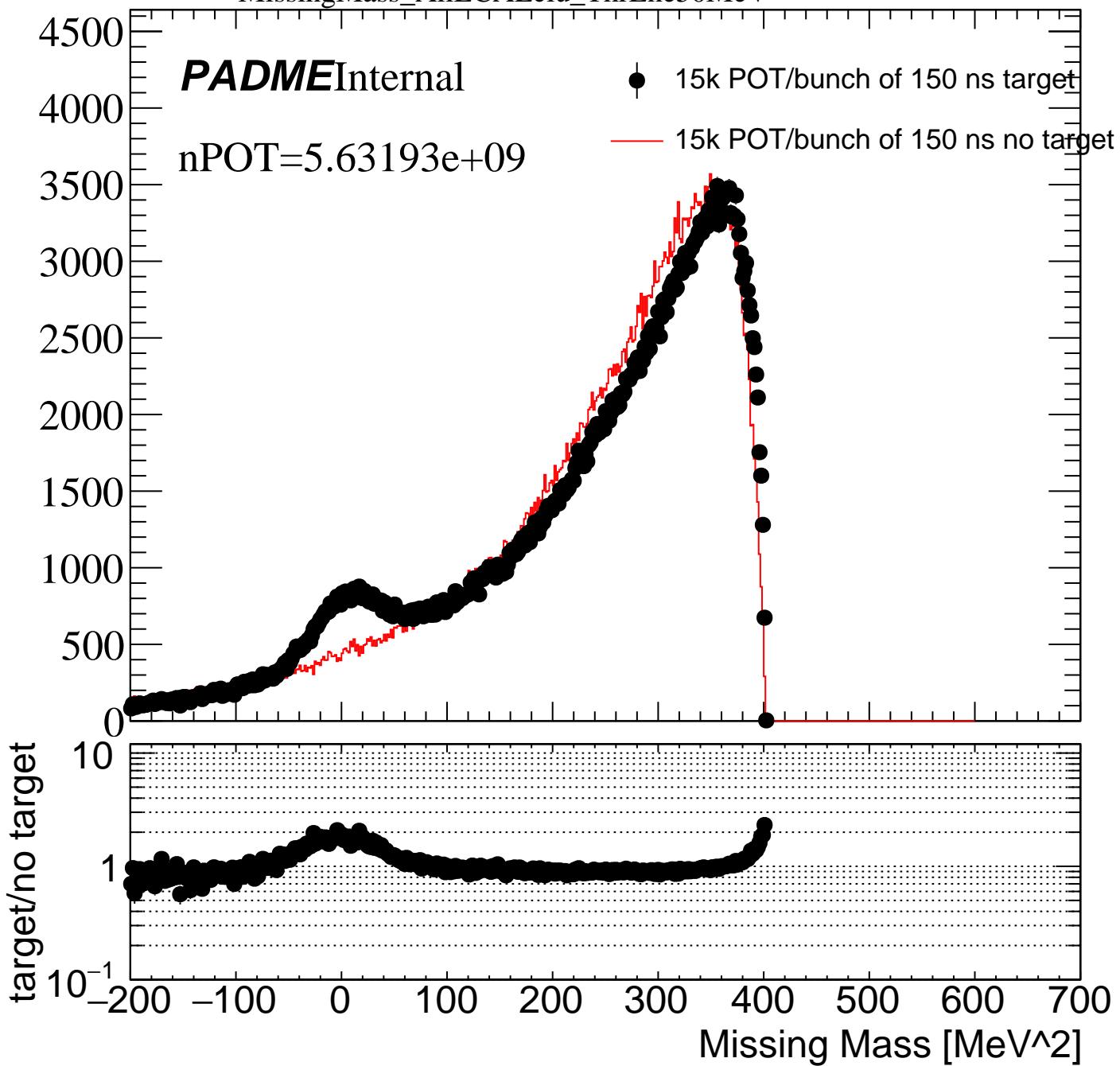
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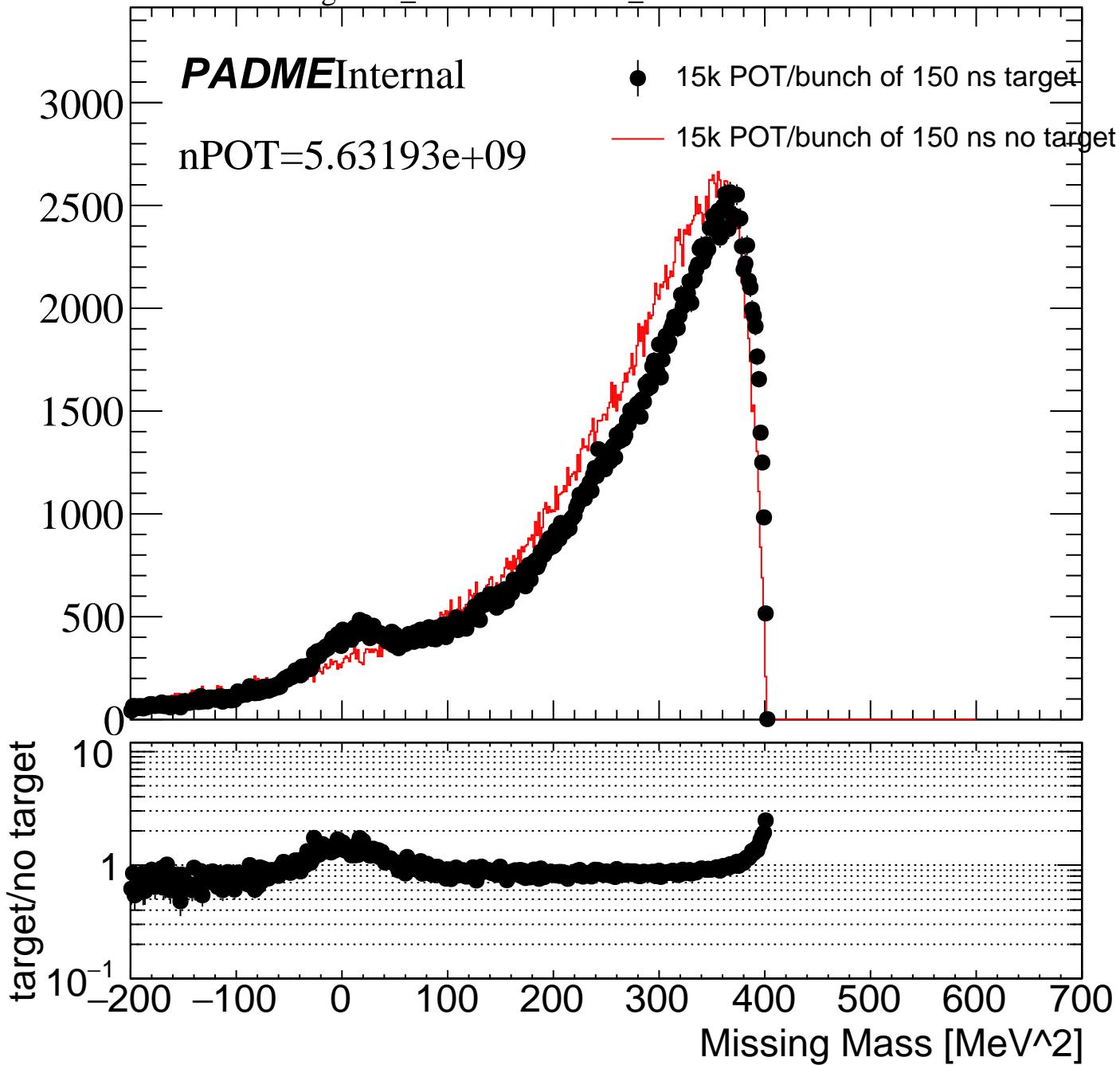
MissingMass_AllECALclu



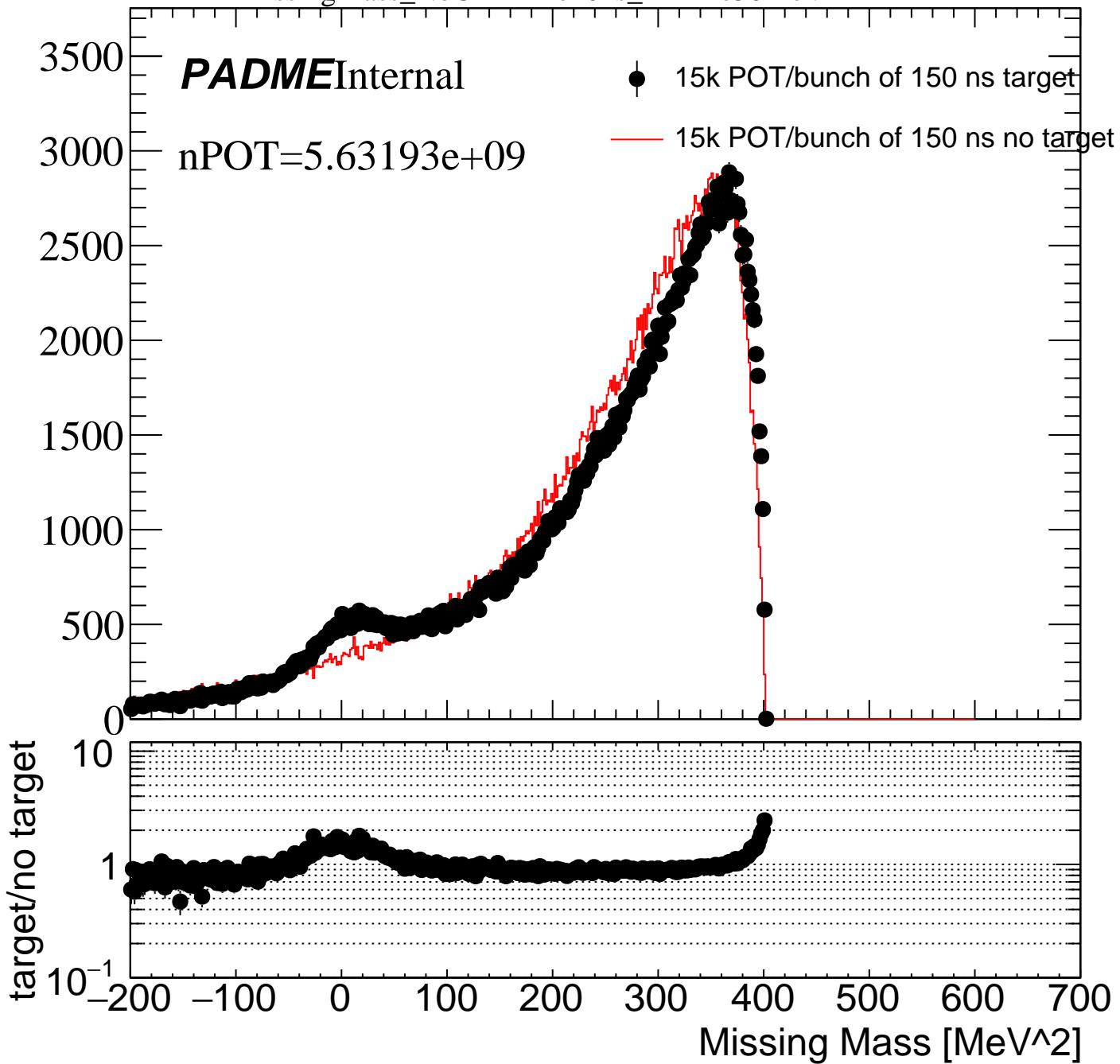
MissingMass_AllECALclu_ThrEne50MeV



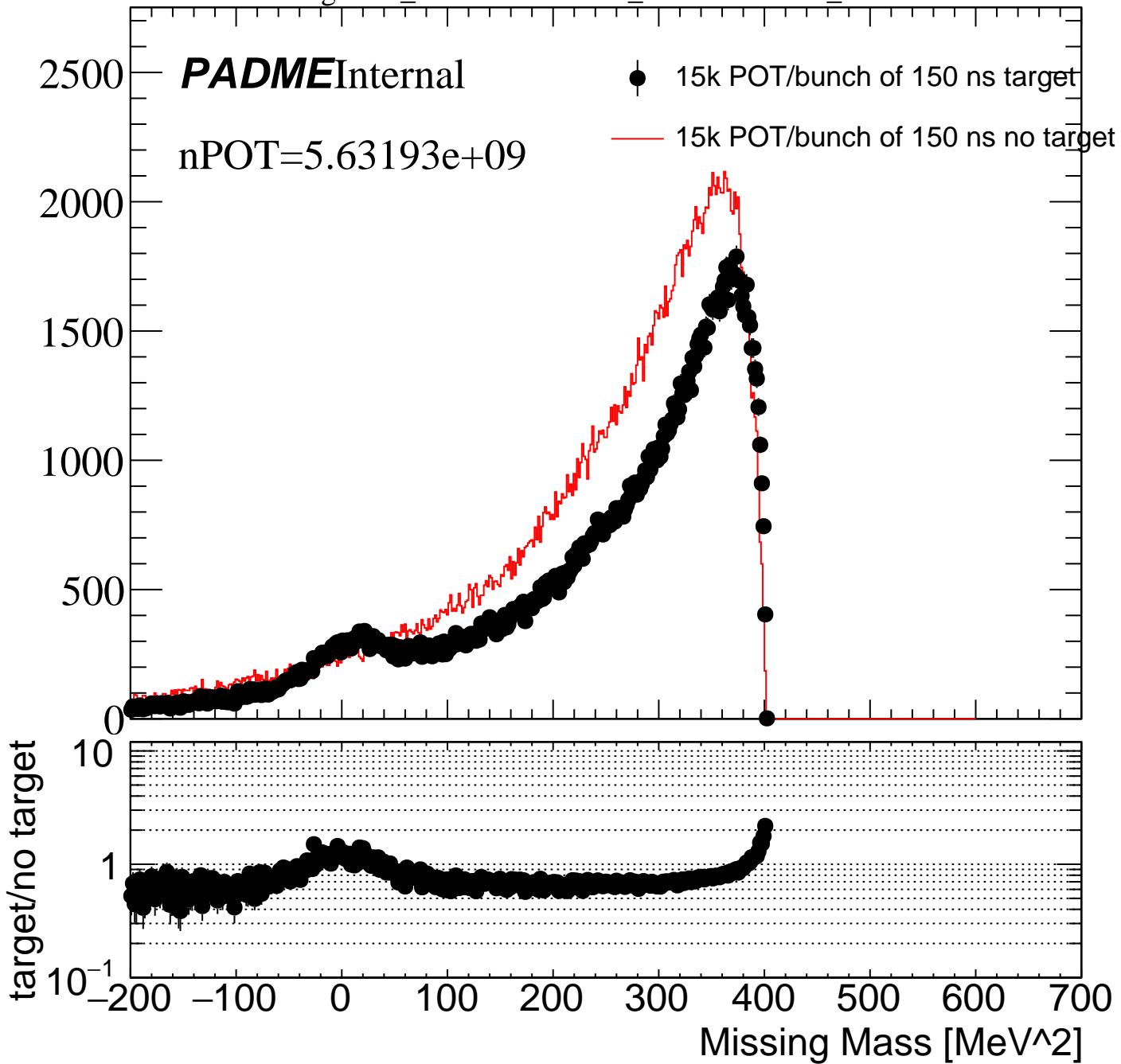
MissingMass_NoClInTime20ns_ThrEne50MeV

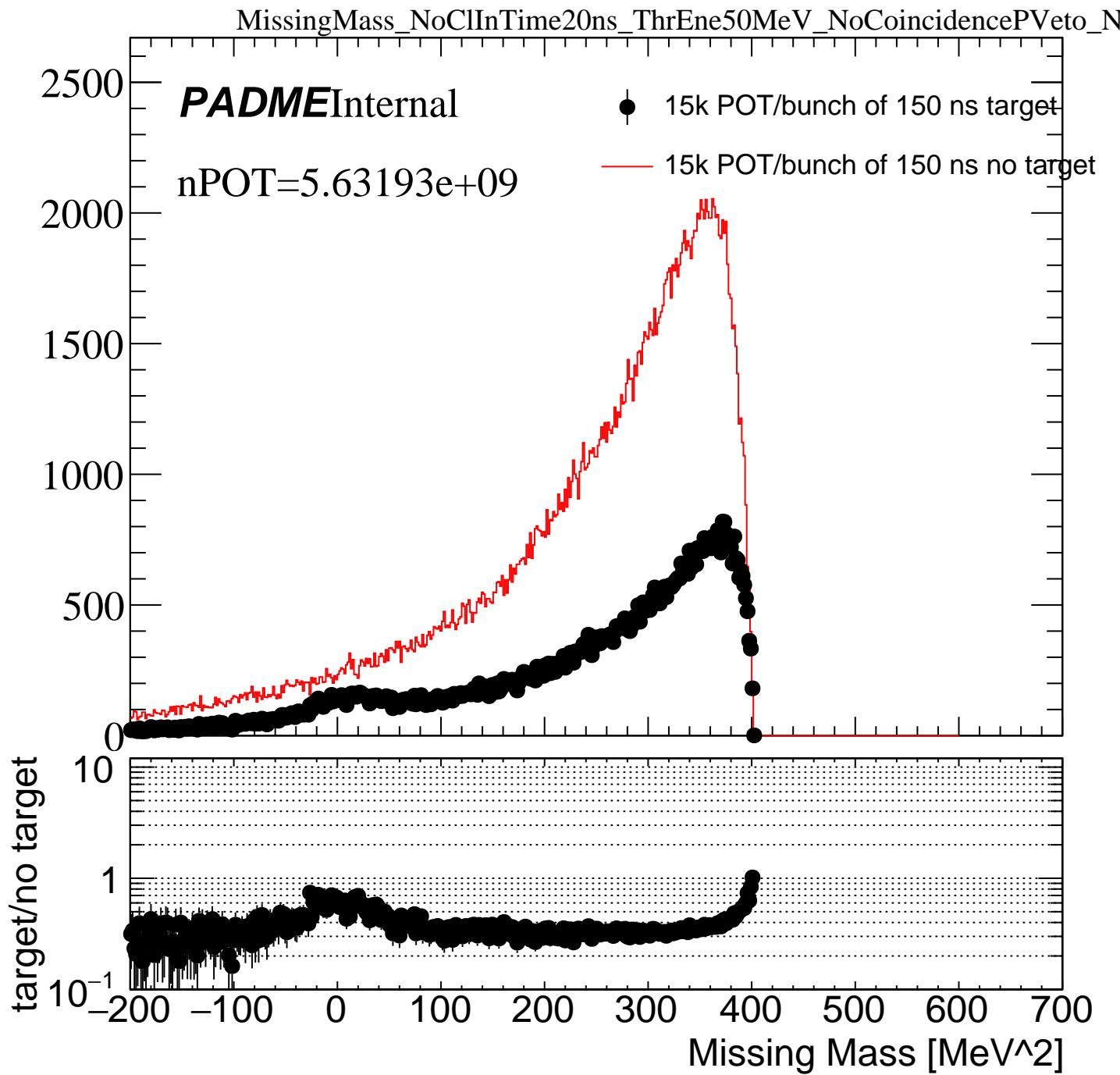


MissingMass_NoClInTime10ns_ThrEne50MeV

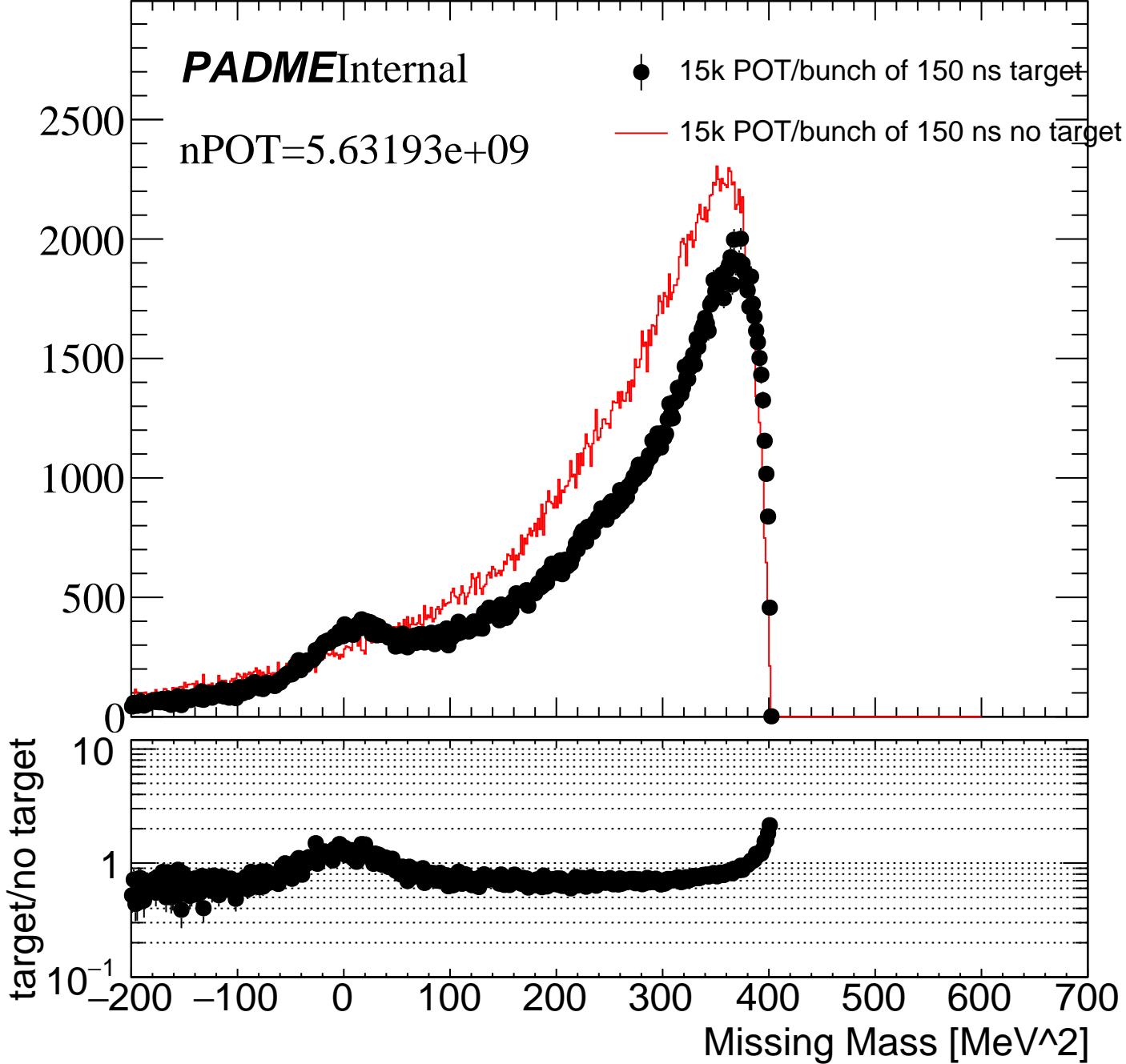


MissingMass_NoClInTime20ns_ThrEne50MeV_NoCoincidencePVeto

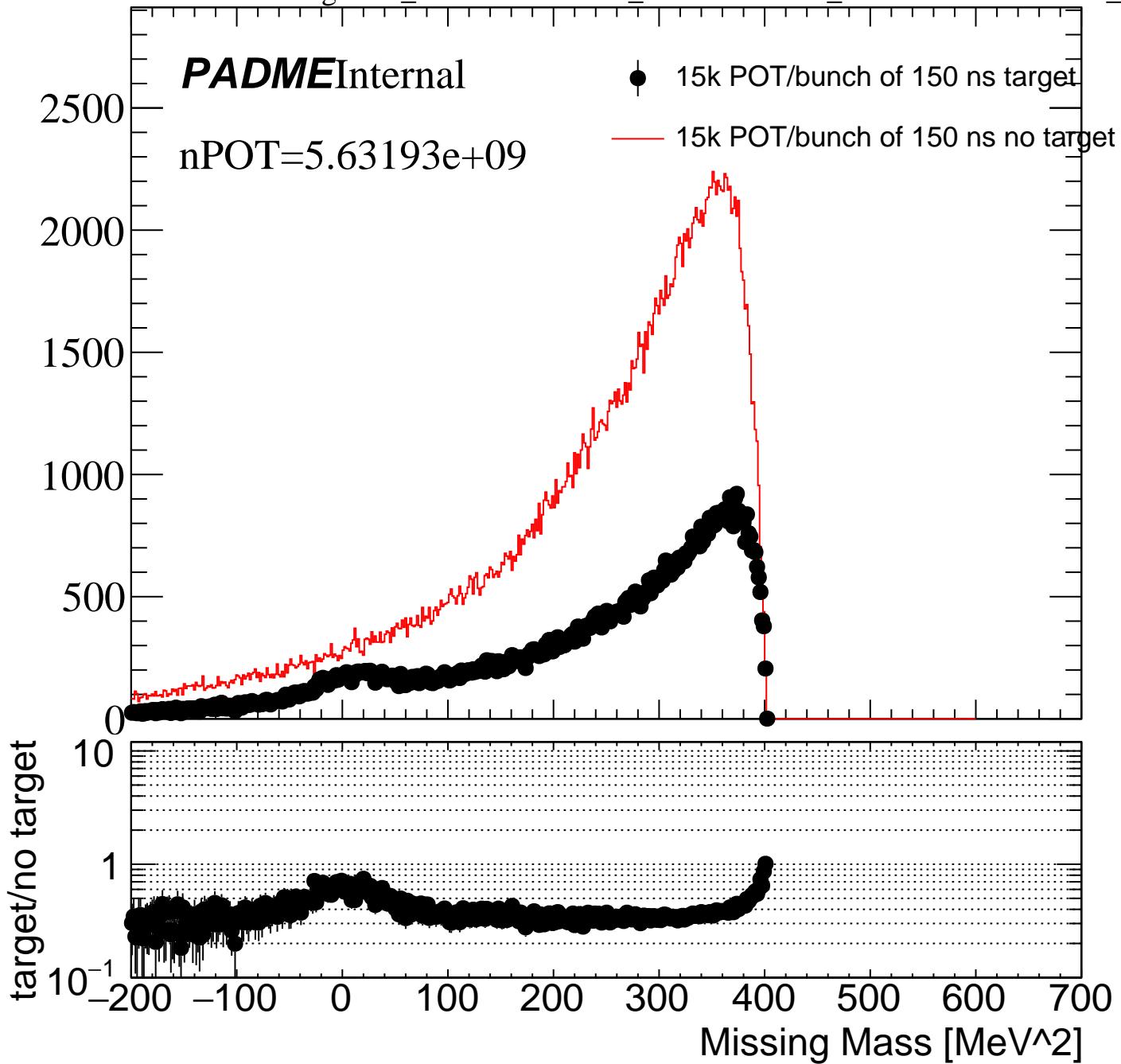




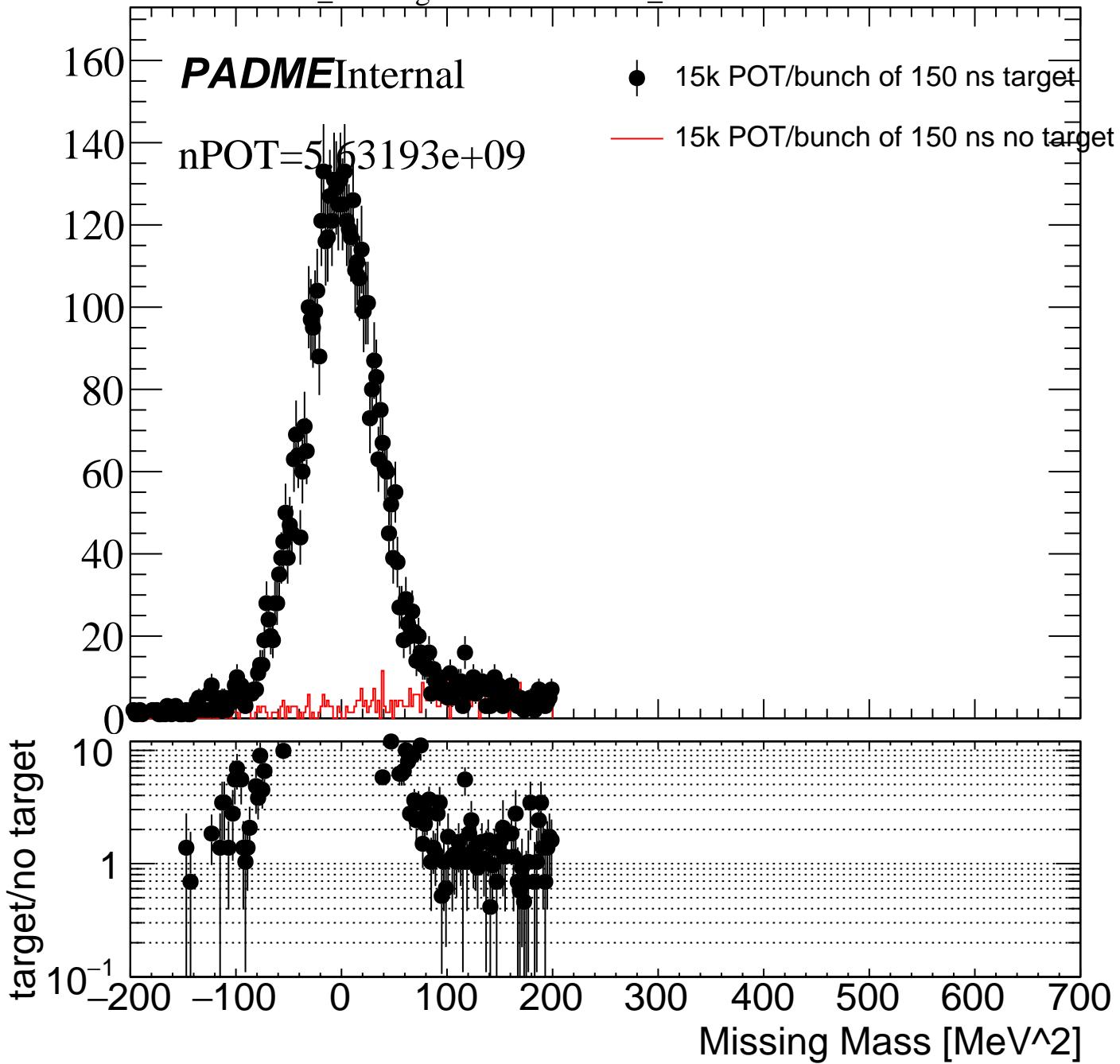
MissingMass_NoClInTime10ns_ThrEne50MeV_NoCoincidencePVeto



MissingMass_NoClInTime10ns_ThrEne50MeV_NoCoincidencePVeto_N



ECAL_MissingMassAnnihilation_10ns5CoGUnderPeakEThr90



ECAL_MissingMassAnnihilation_10ns5CoGUnderPeakEThr90

