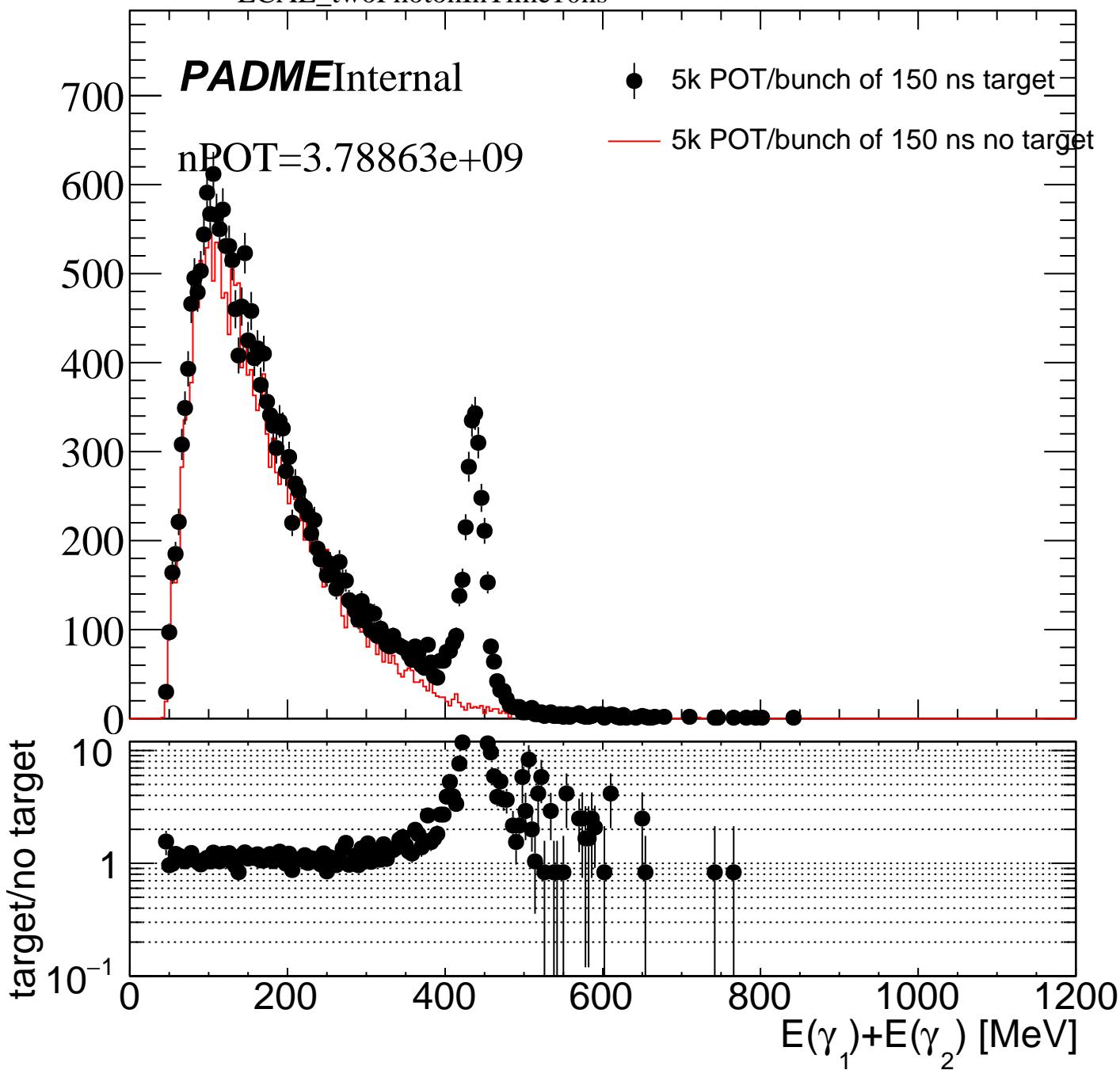
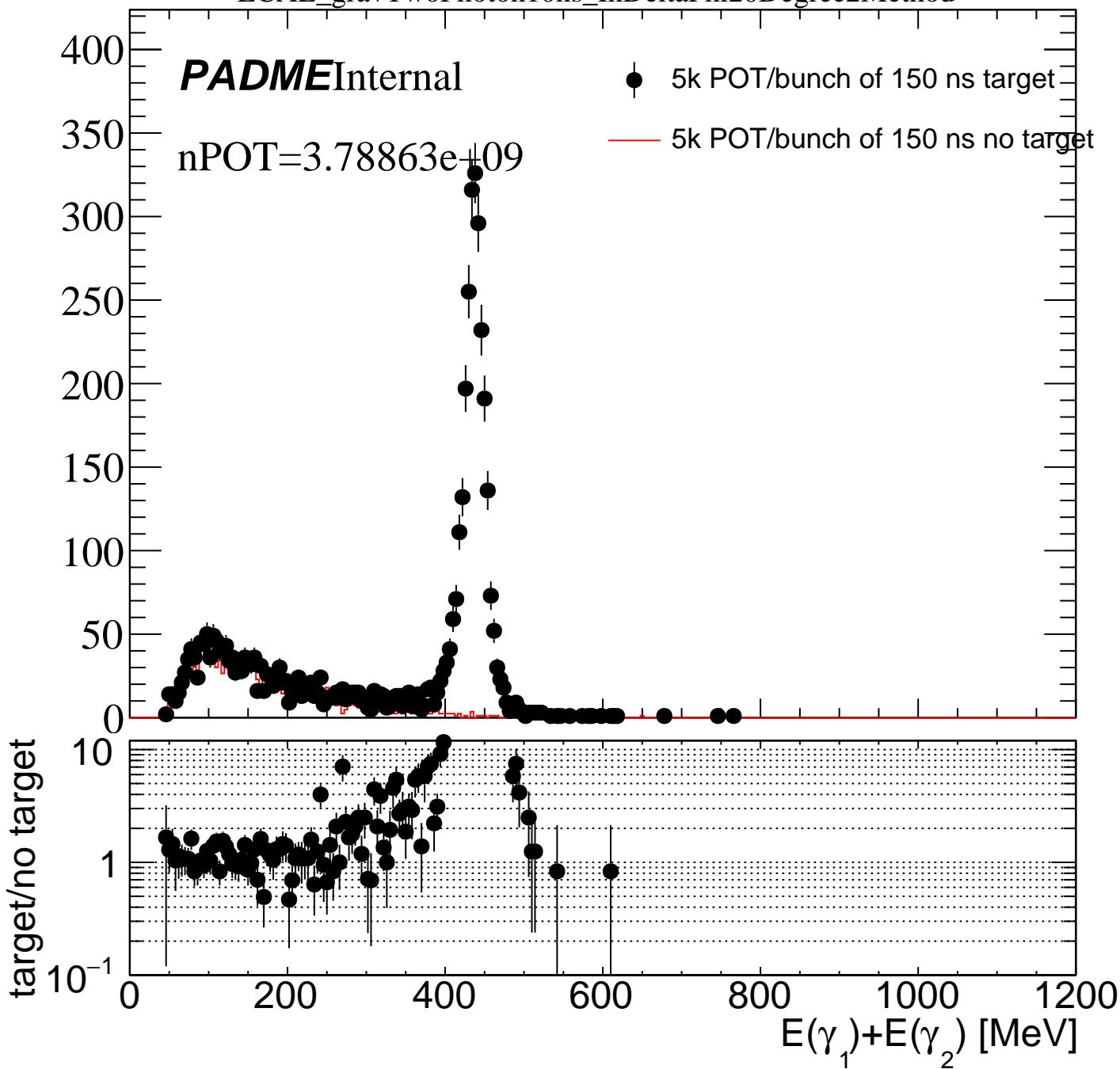
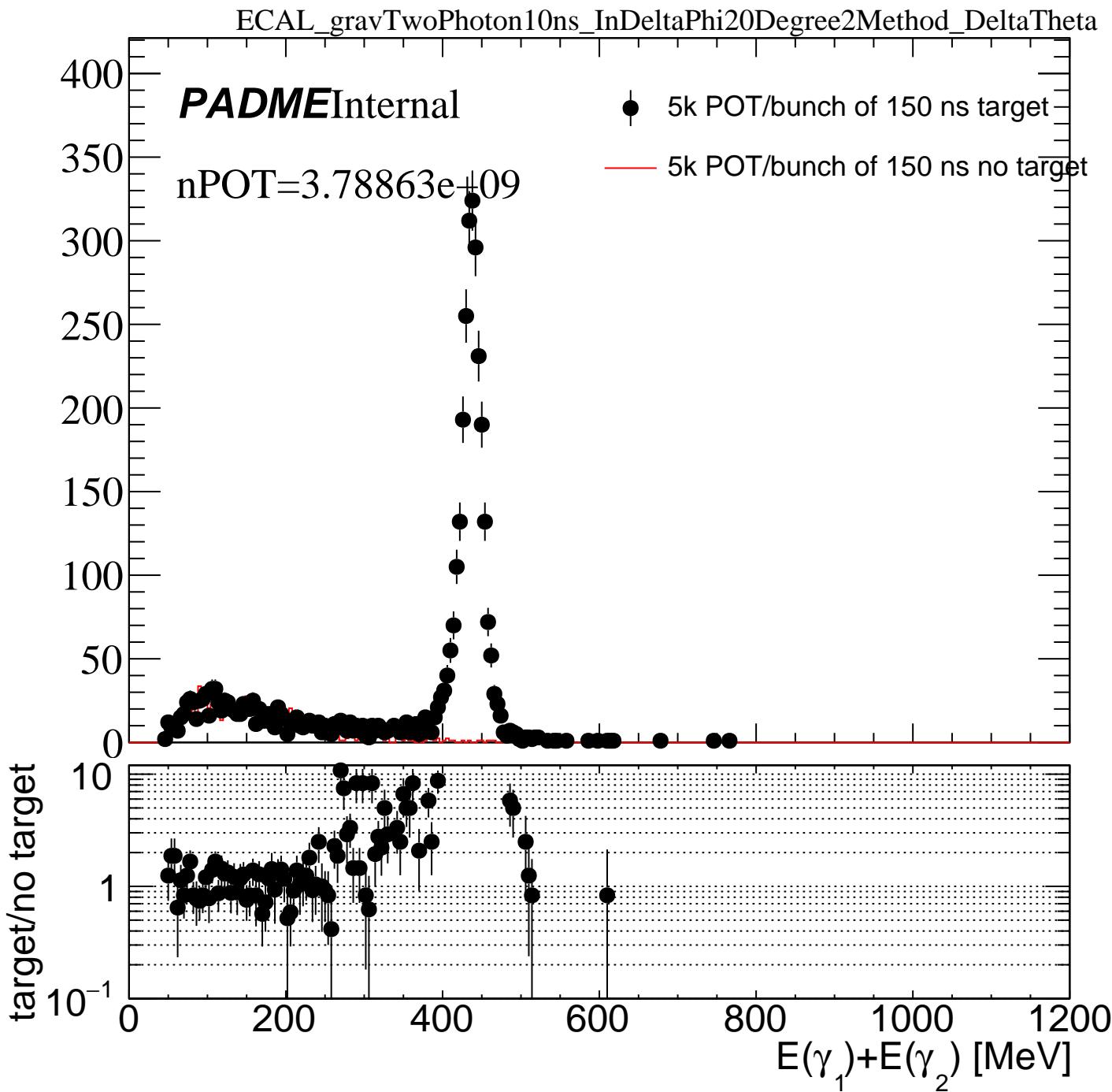


ECAL\_twoPhotonInTime10ns

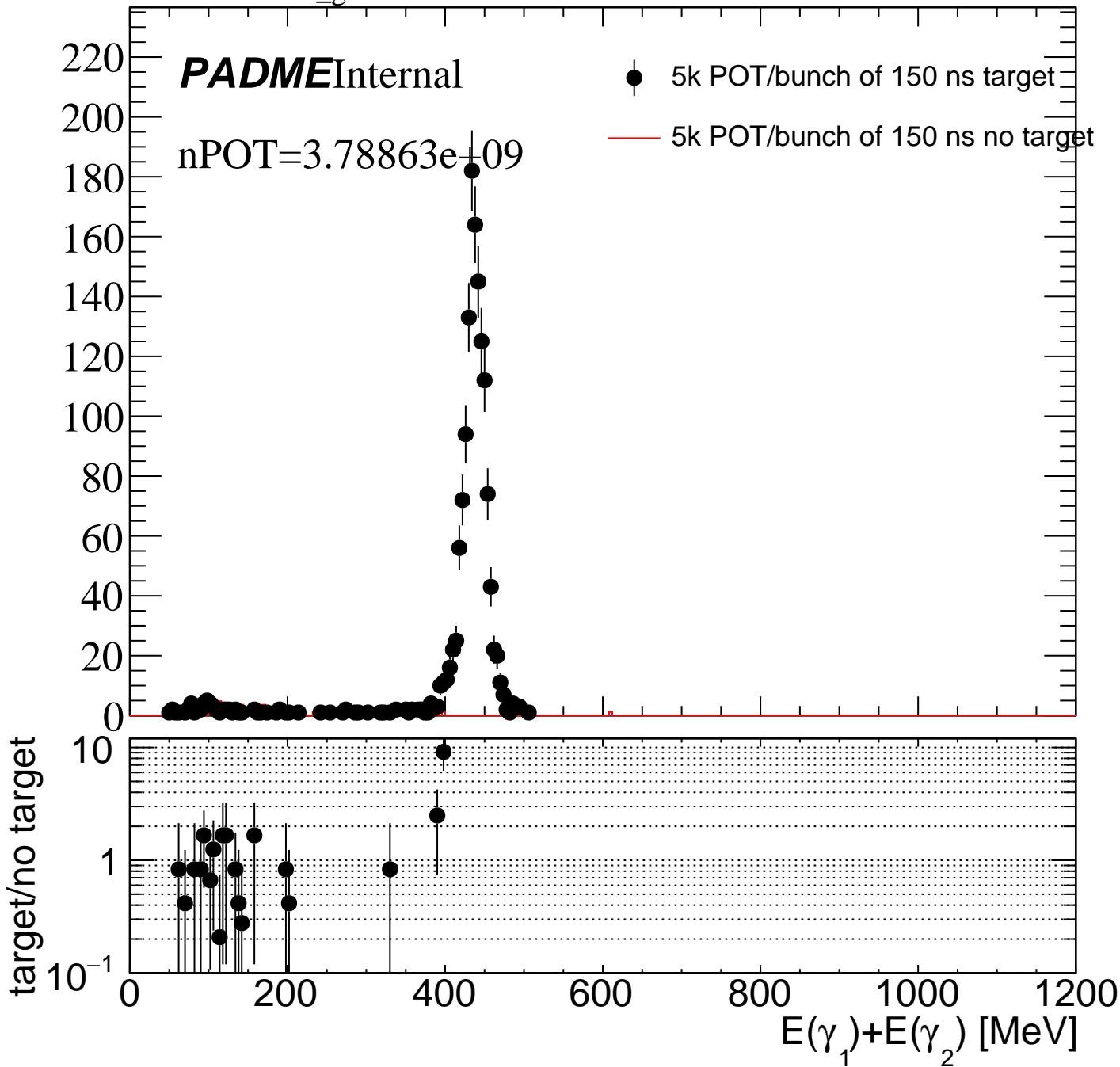


ECAL\_gravTwoPhoton10ns\_InDeltaPhi20Degree2Method

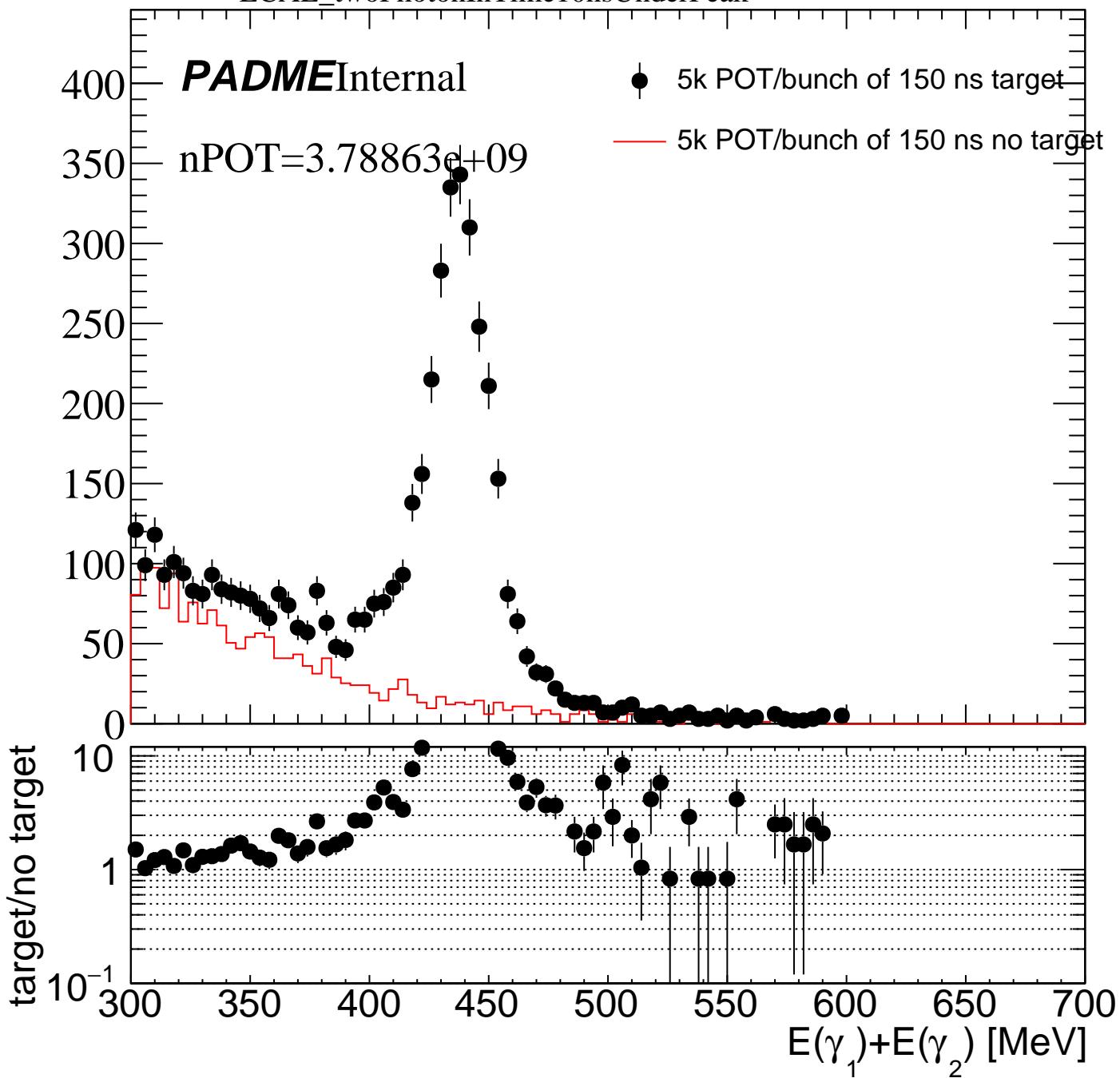




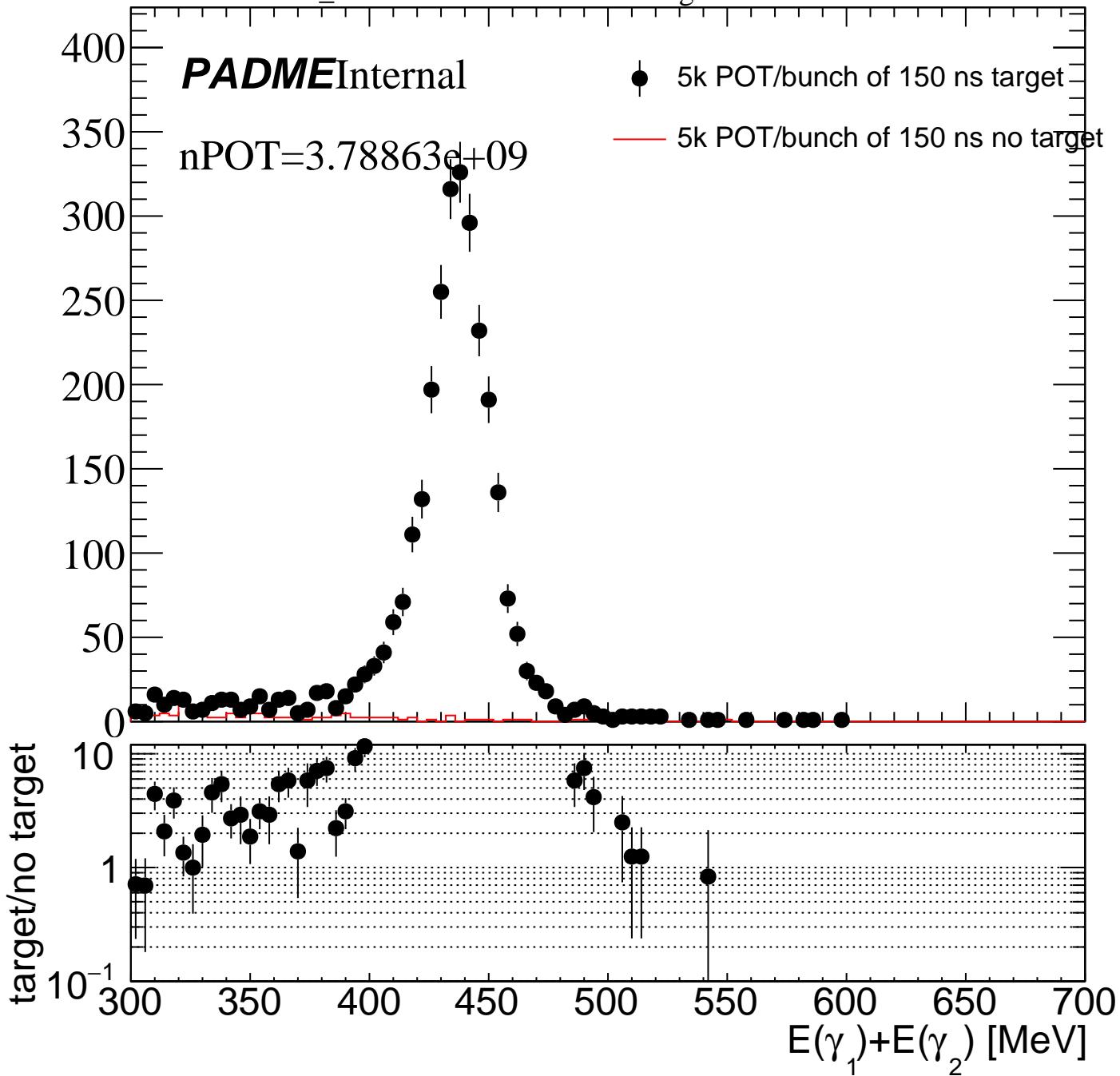
ECAL\_gravTwoPhoton10ns1cm



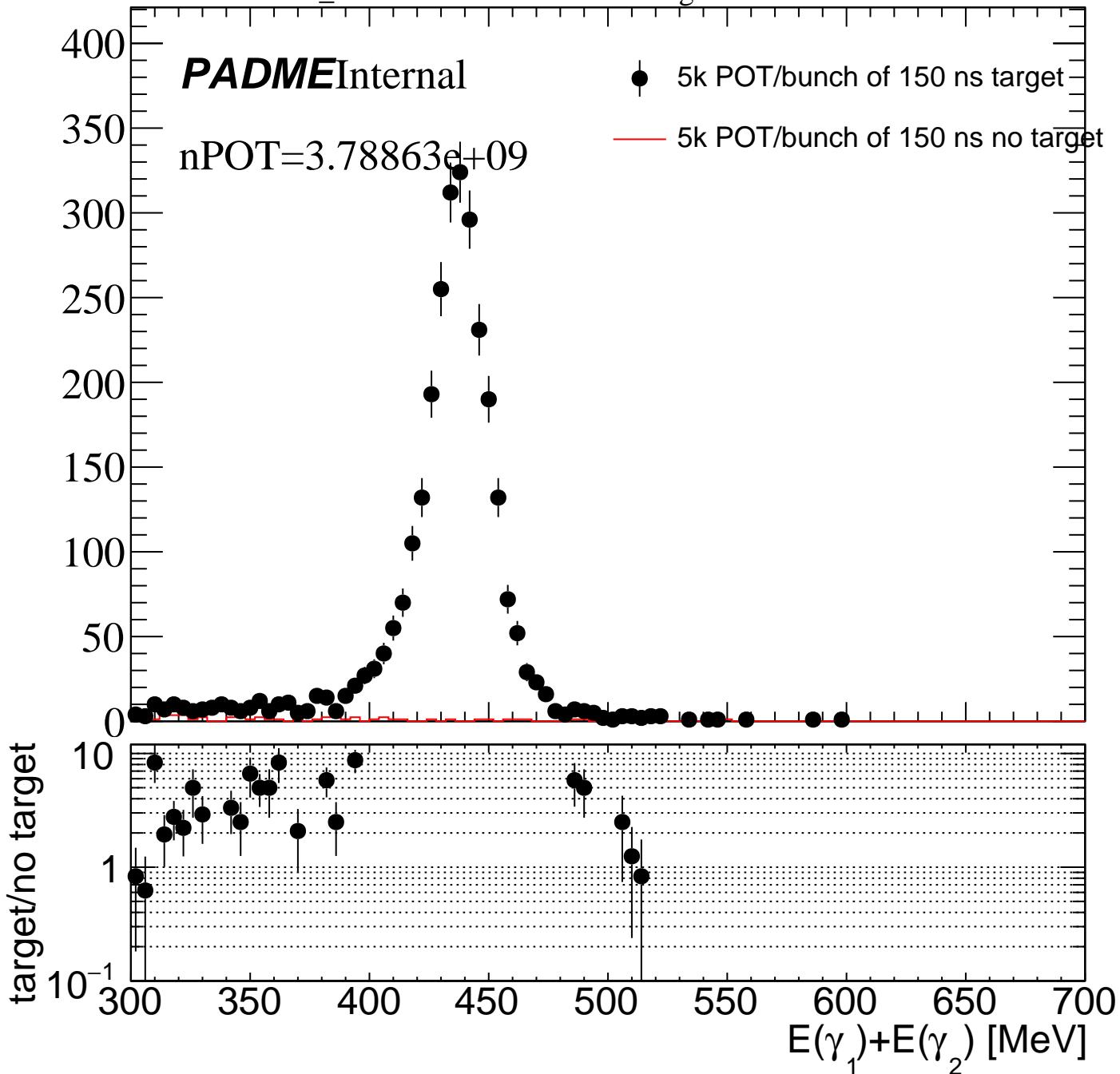
ECAL\_twoPhotonInTime10nsUnderPeak



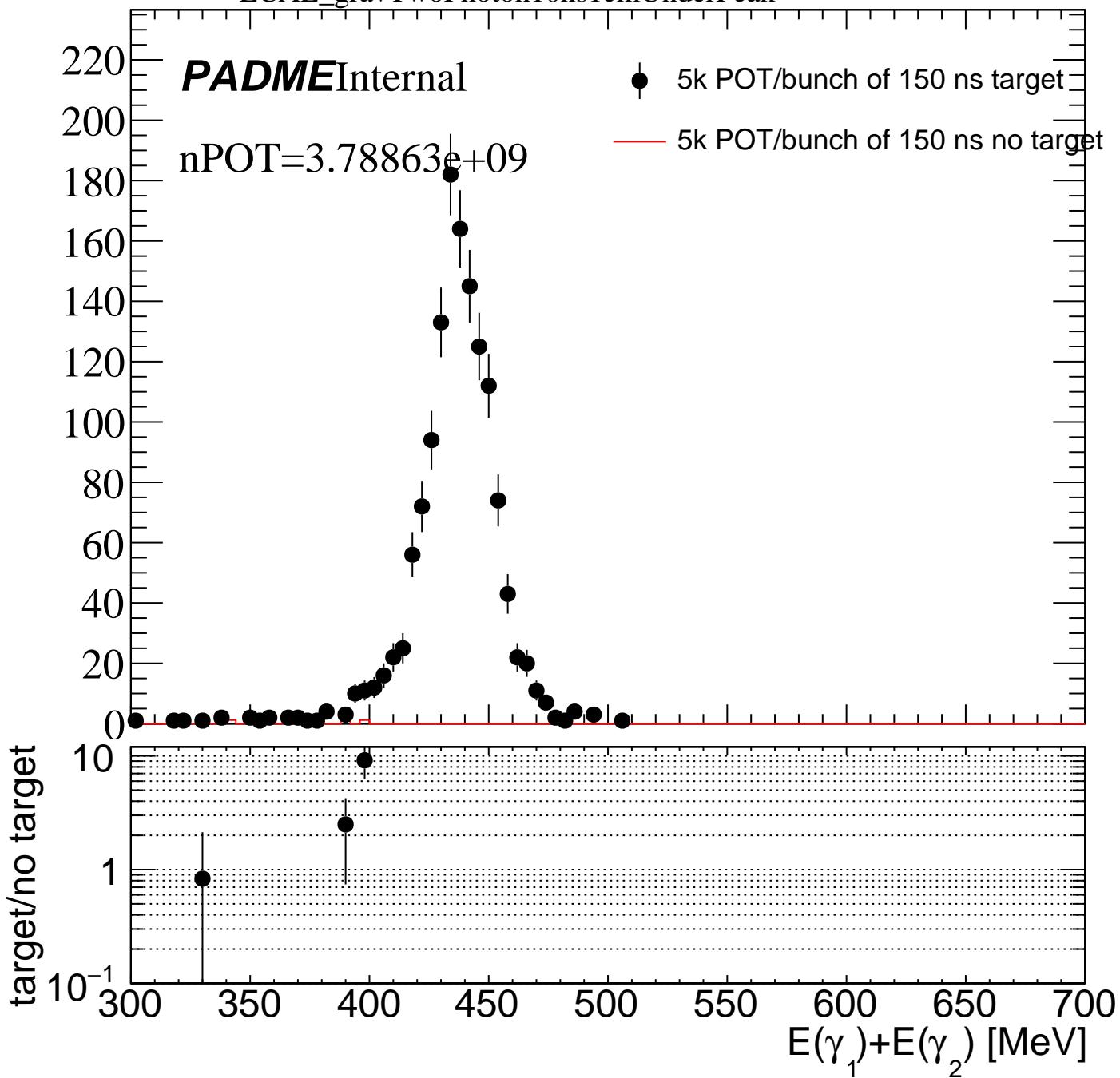
ECAL\_twoPhotonInTime10ns20DegreeUnderPeak



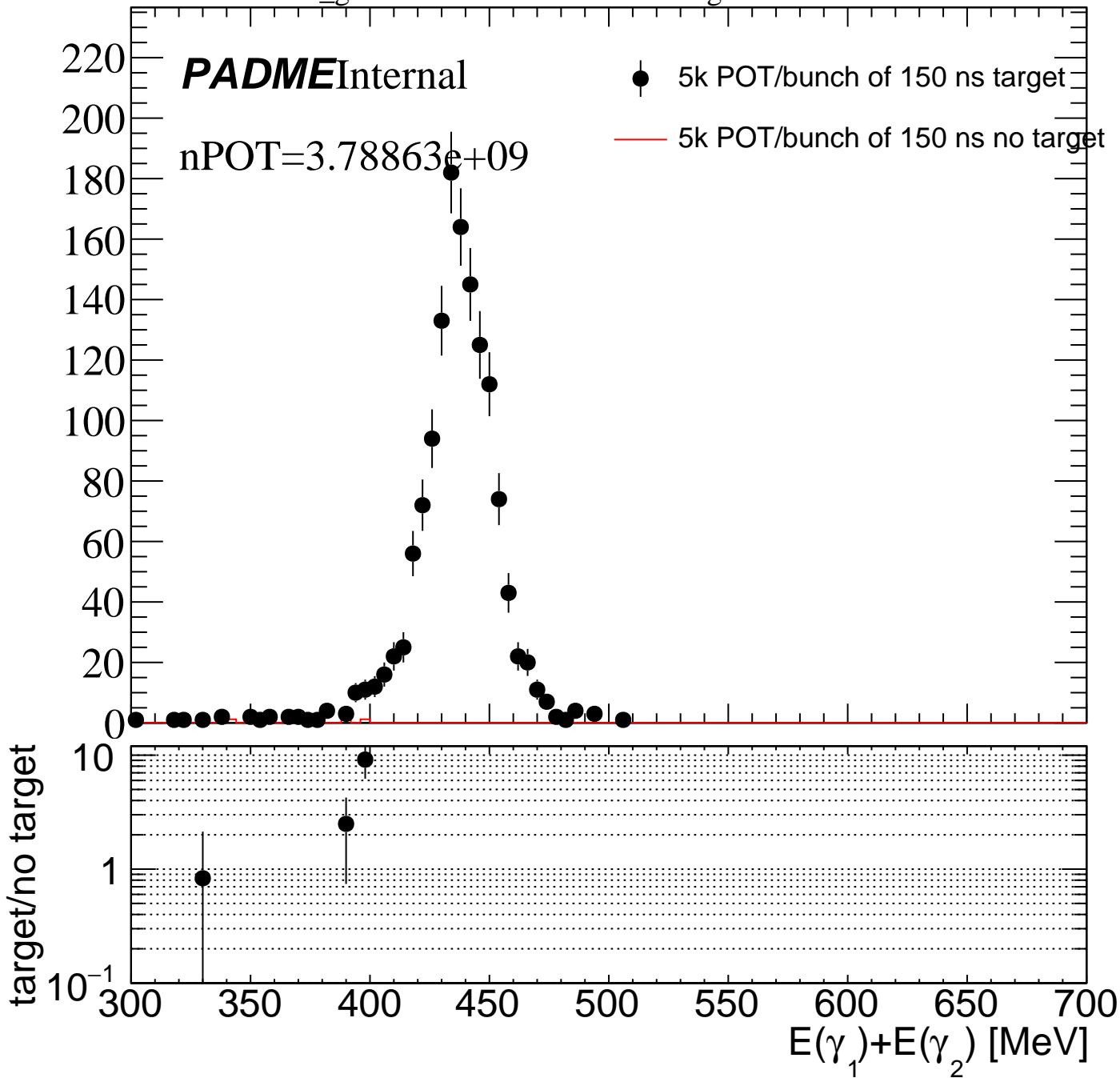
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaUnderPeak



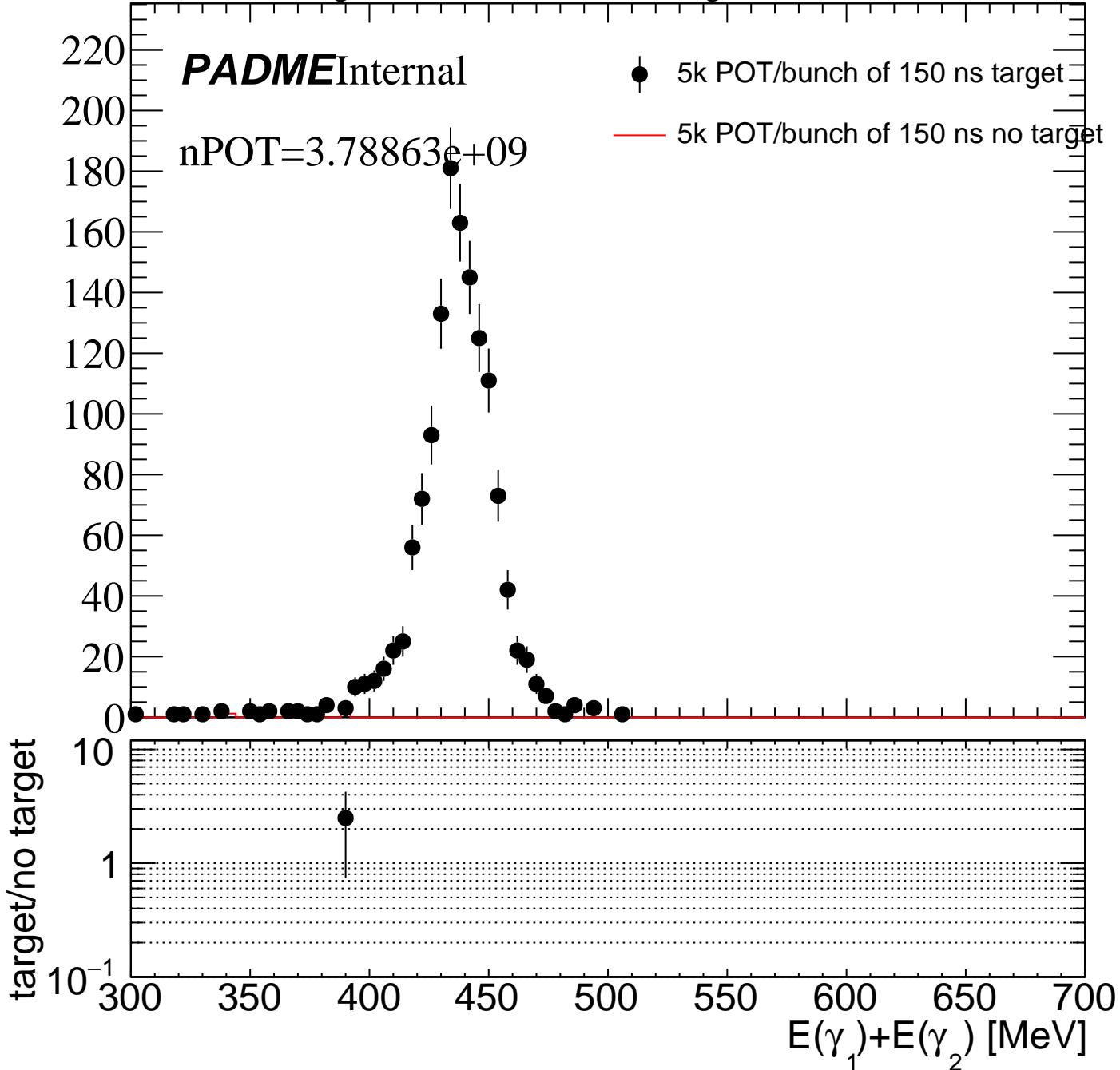
ECAL\_gravTwoPhoton10ns1cmUnderPeak



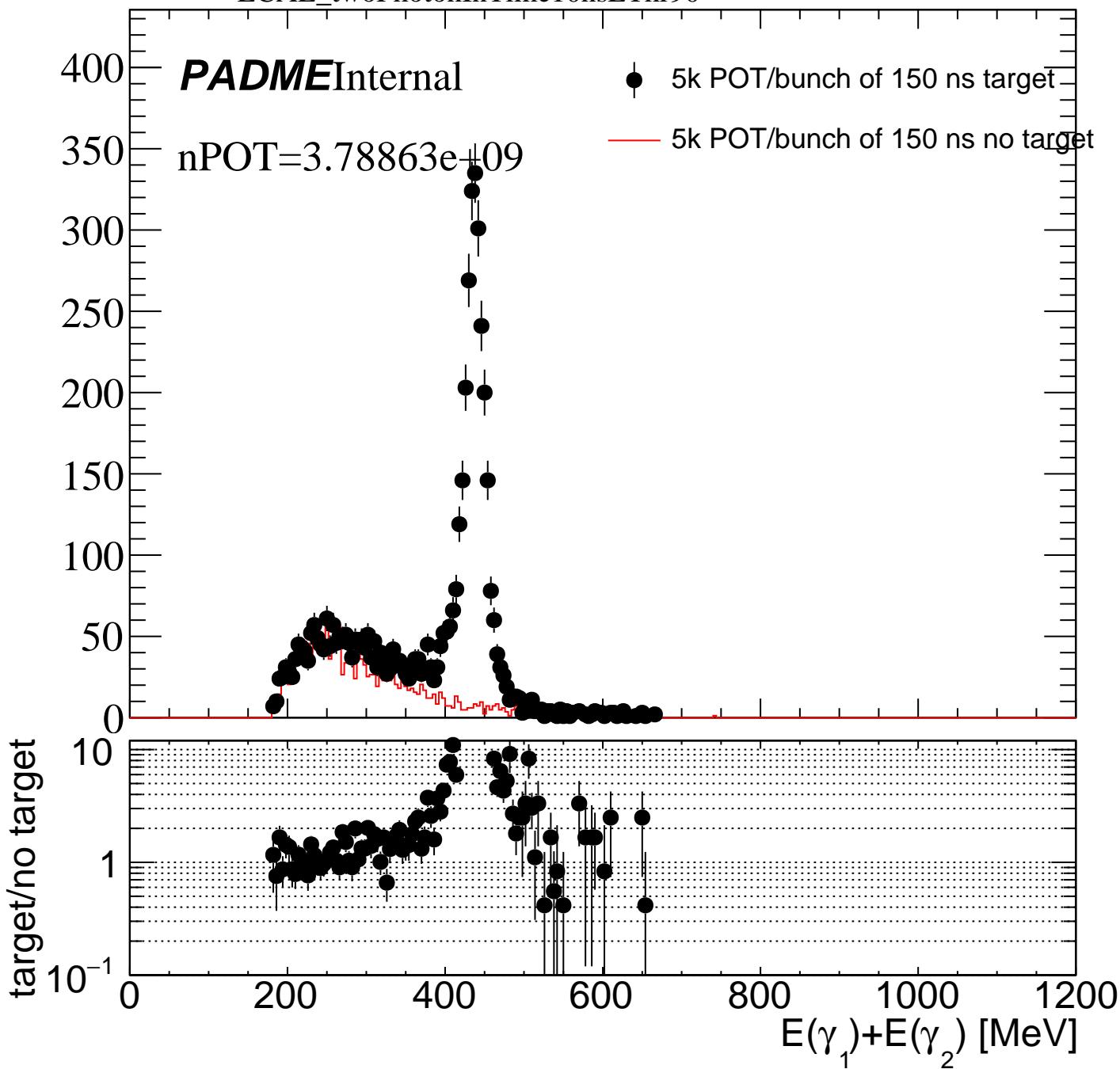
ECAL\_gravTwoPhoton10ns1cm20DegreeUnderPeak



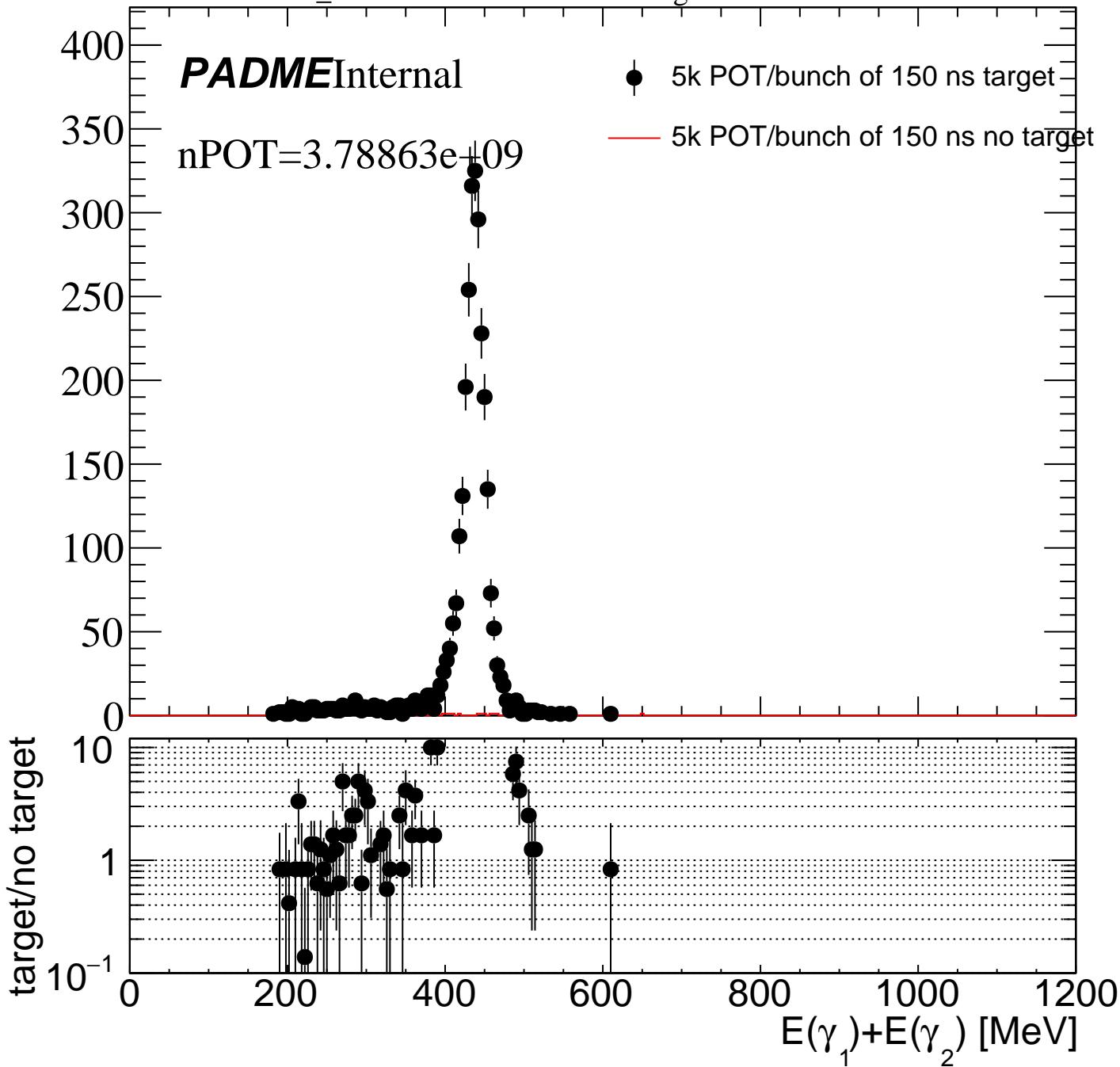
ECAL\_gravTwoPhoton10ns1cm20DegreeDeltaThetaUnderPeak



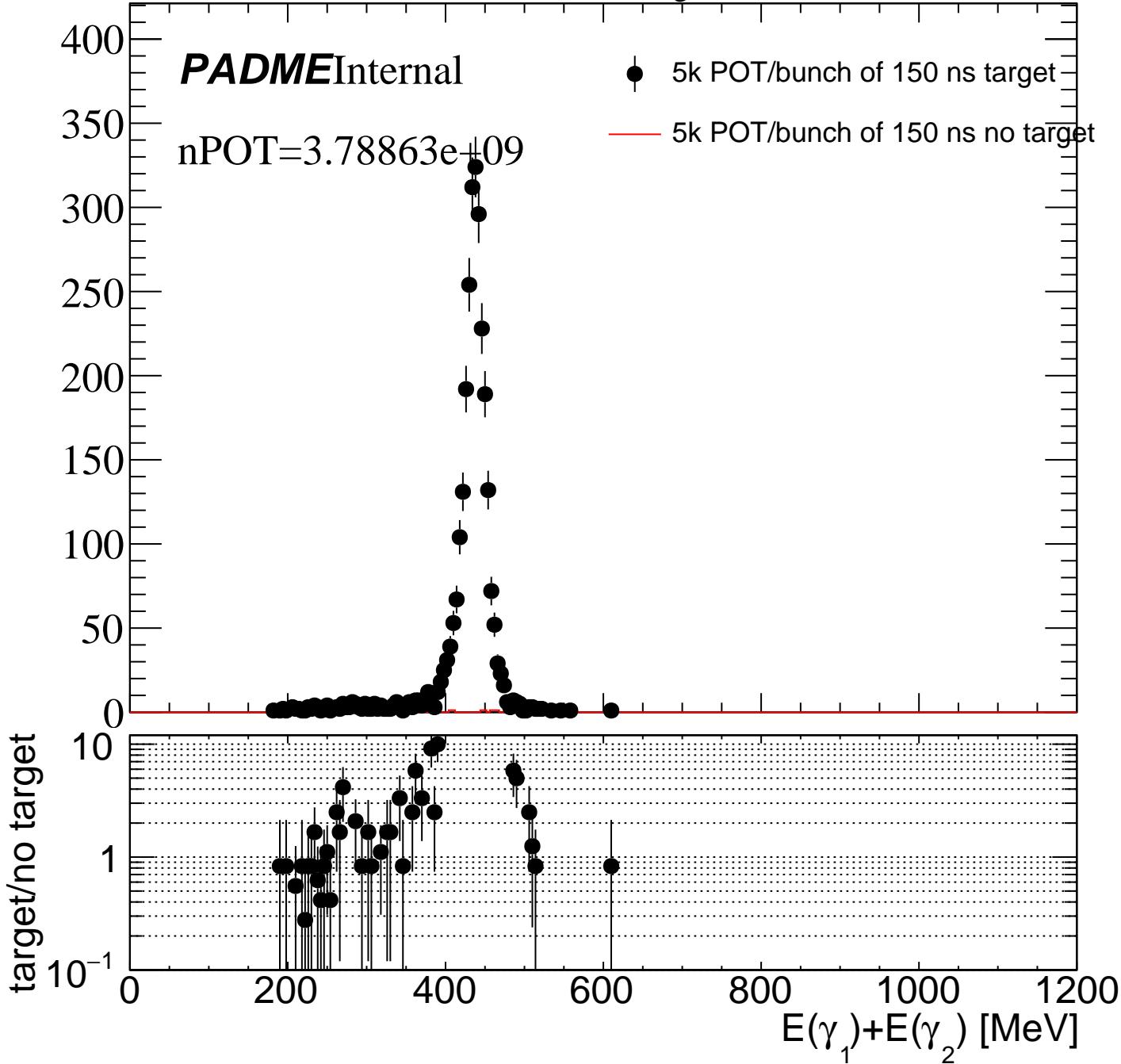
ECAL\_twoPhotonInTime10nsEThr90



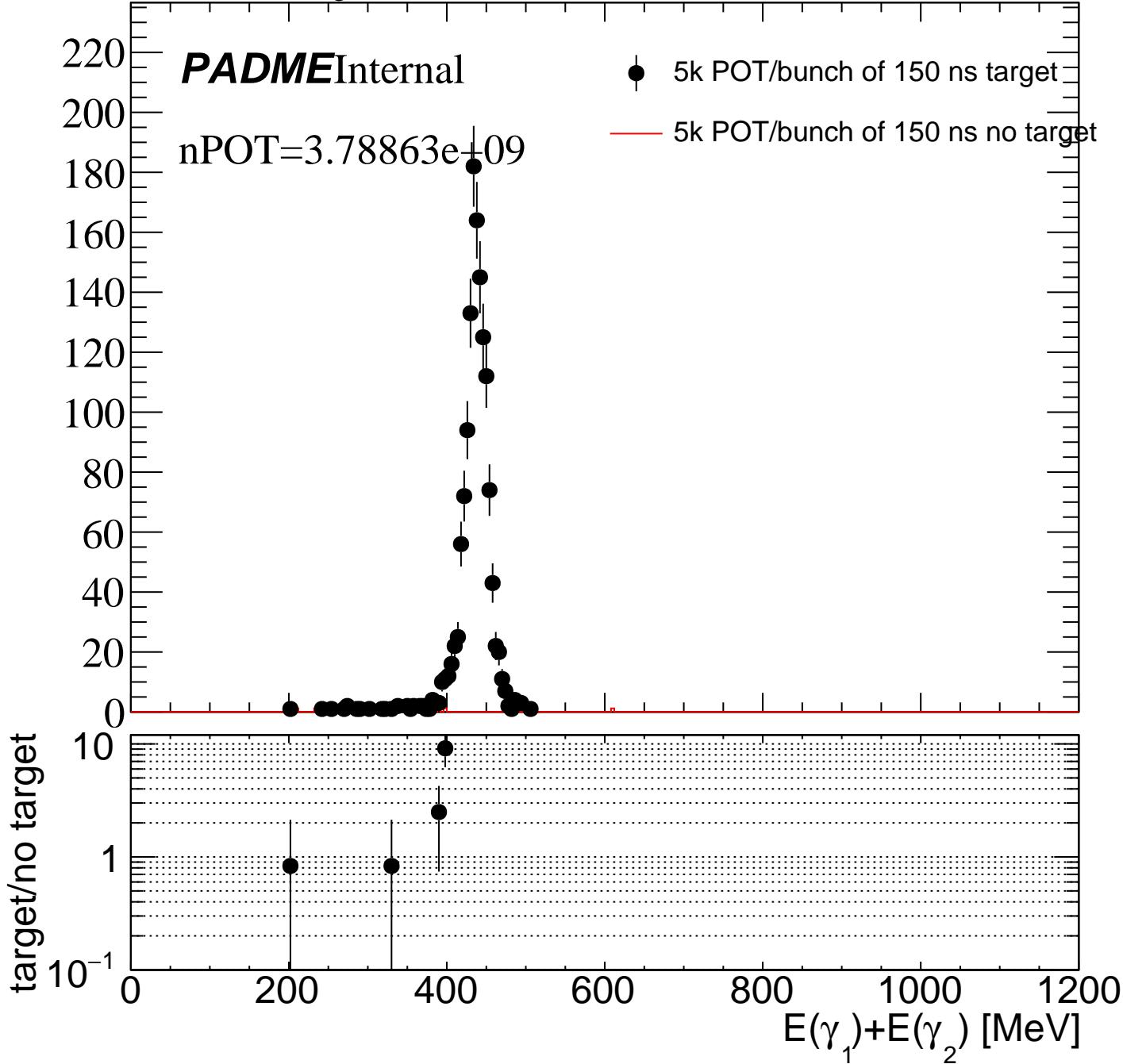
ECAL\_twoPhotonInTime10ns20DegreeEThr90



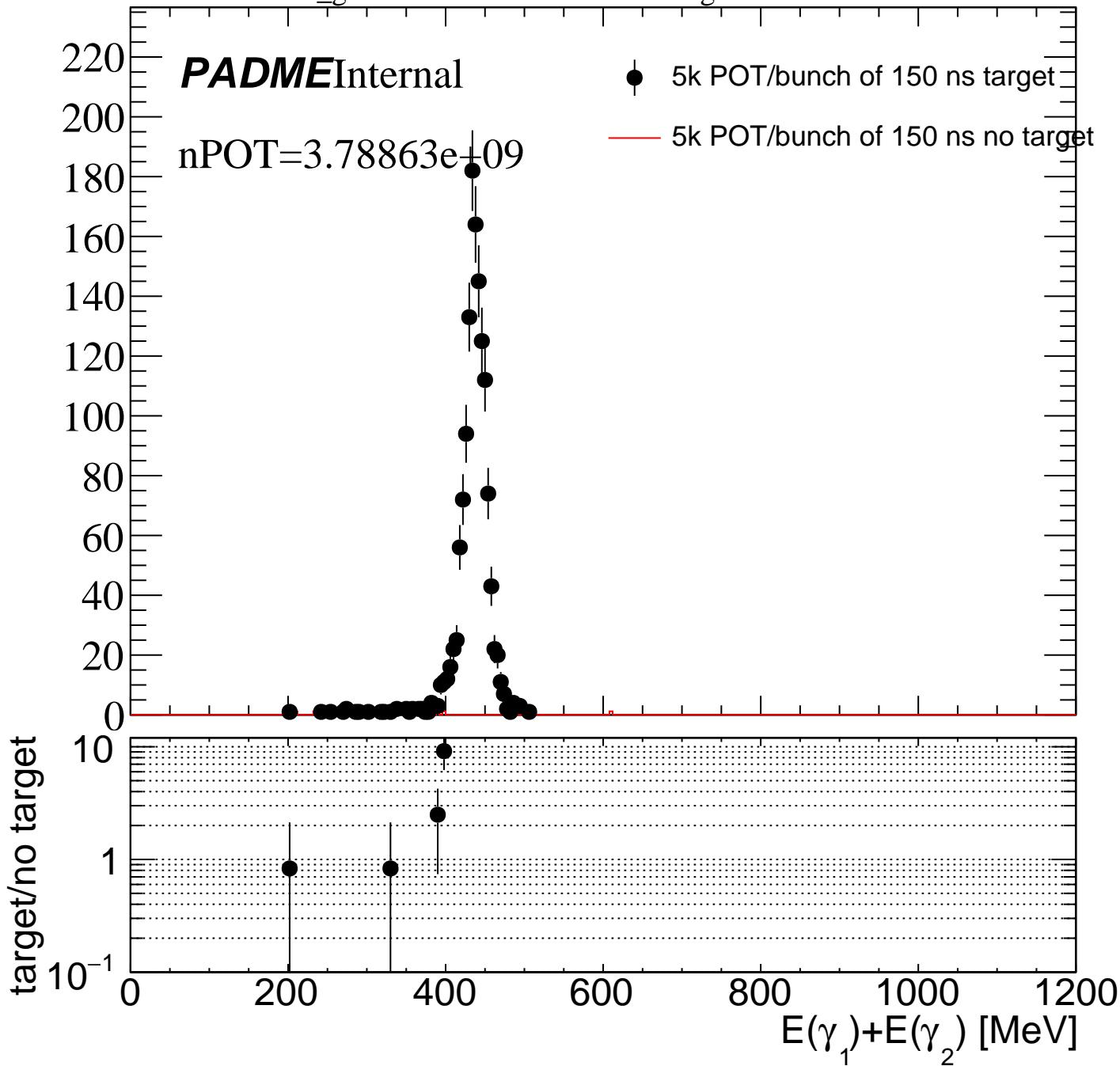
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaETHr90



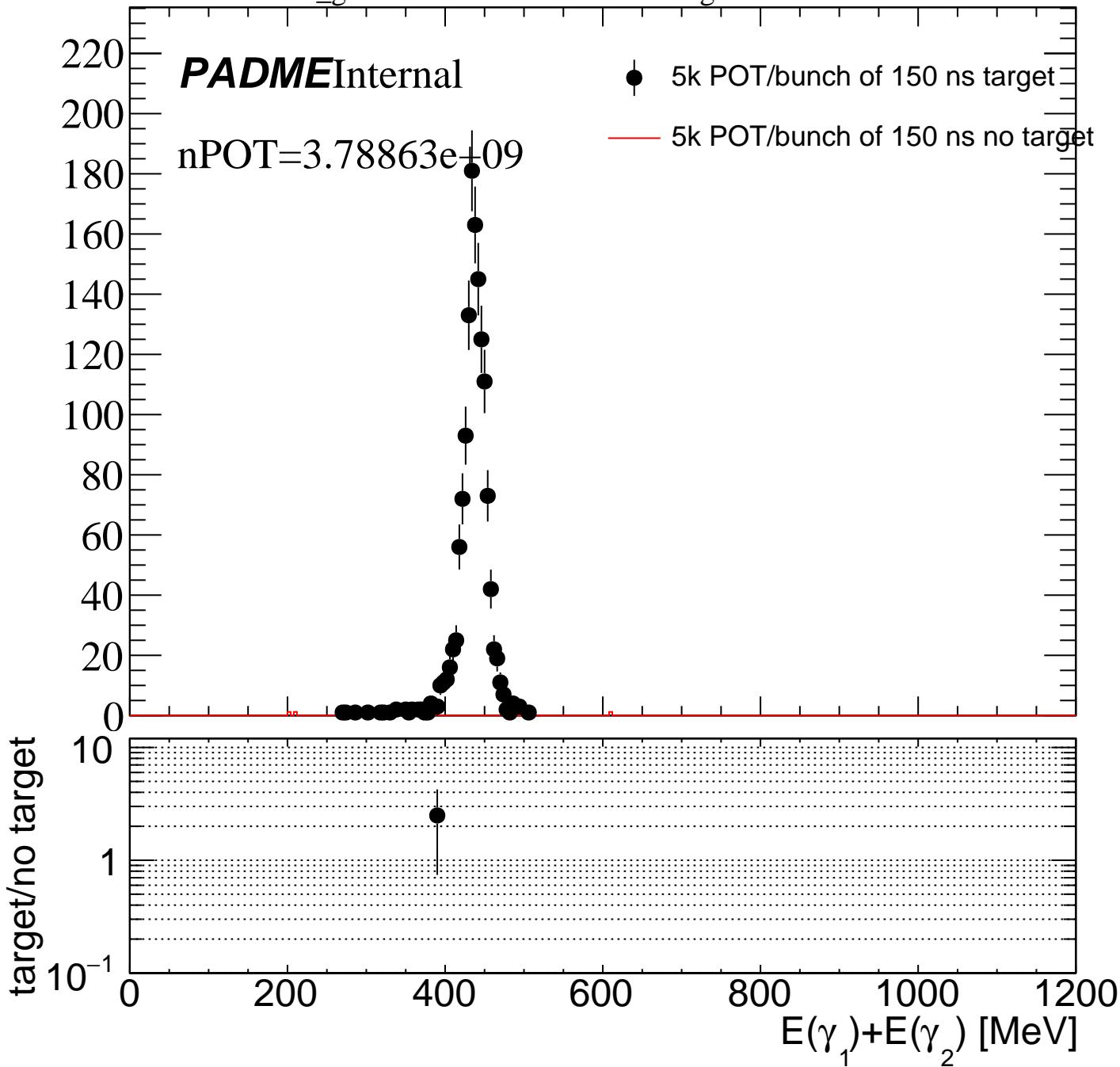
ECAL\_gravTwoPhoton10ns1cmEThr90

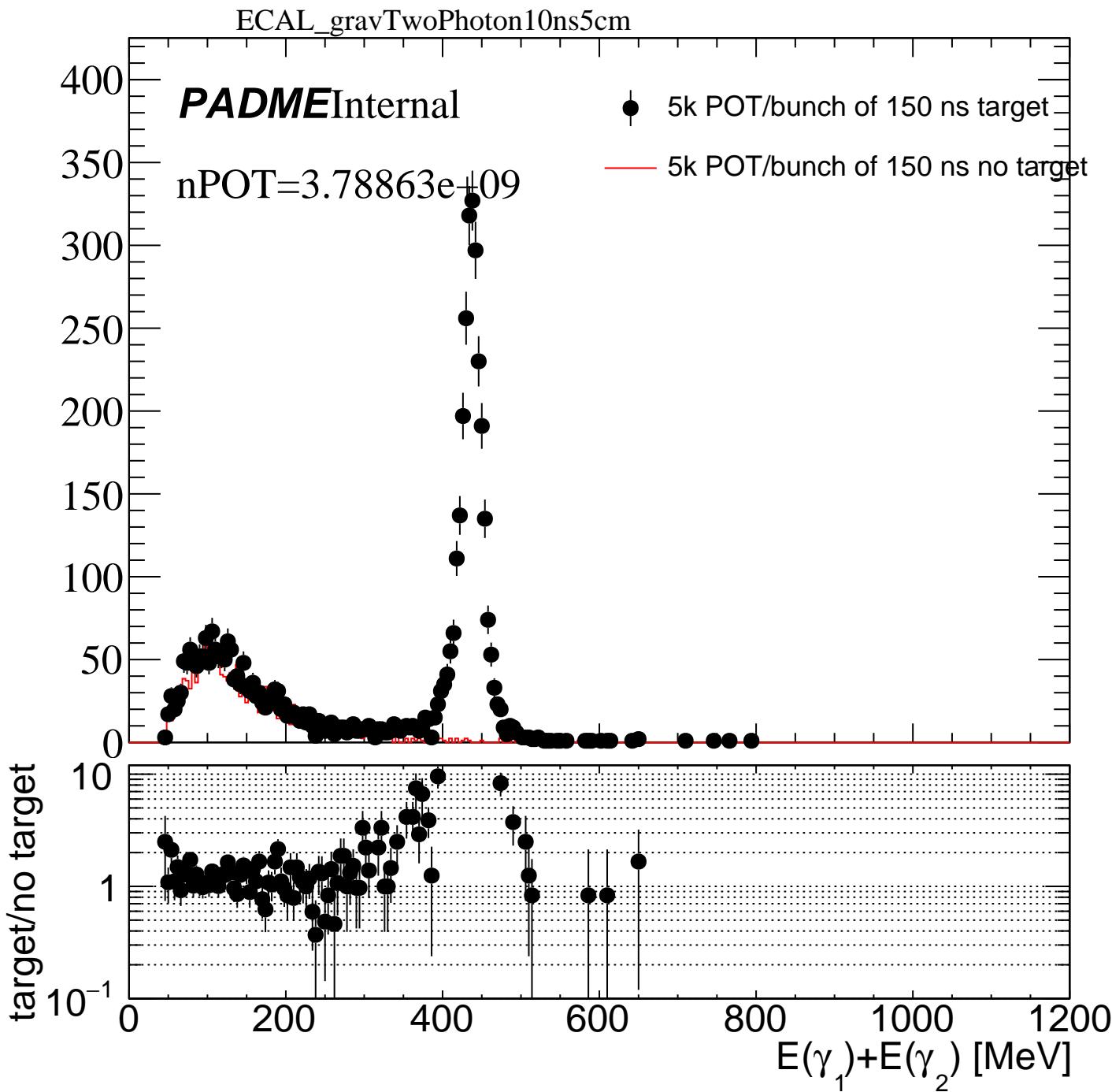


ECAL\_gravTwoPhoton10ns1cm20DegreeEThr90

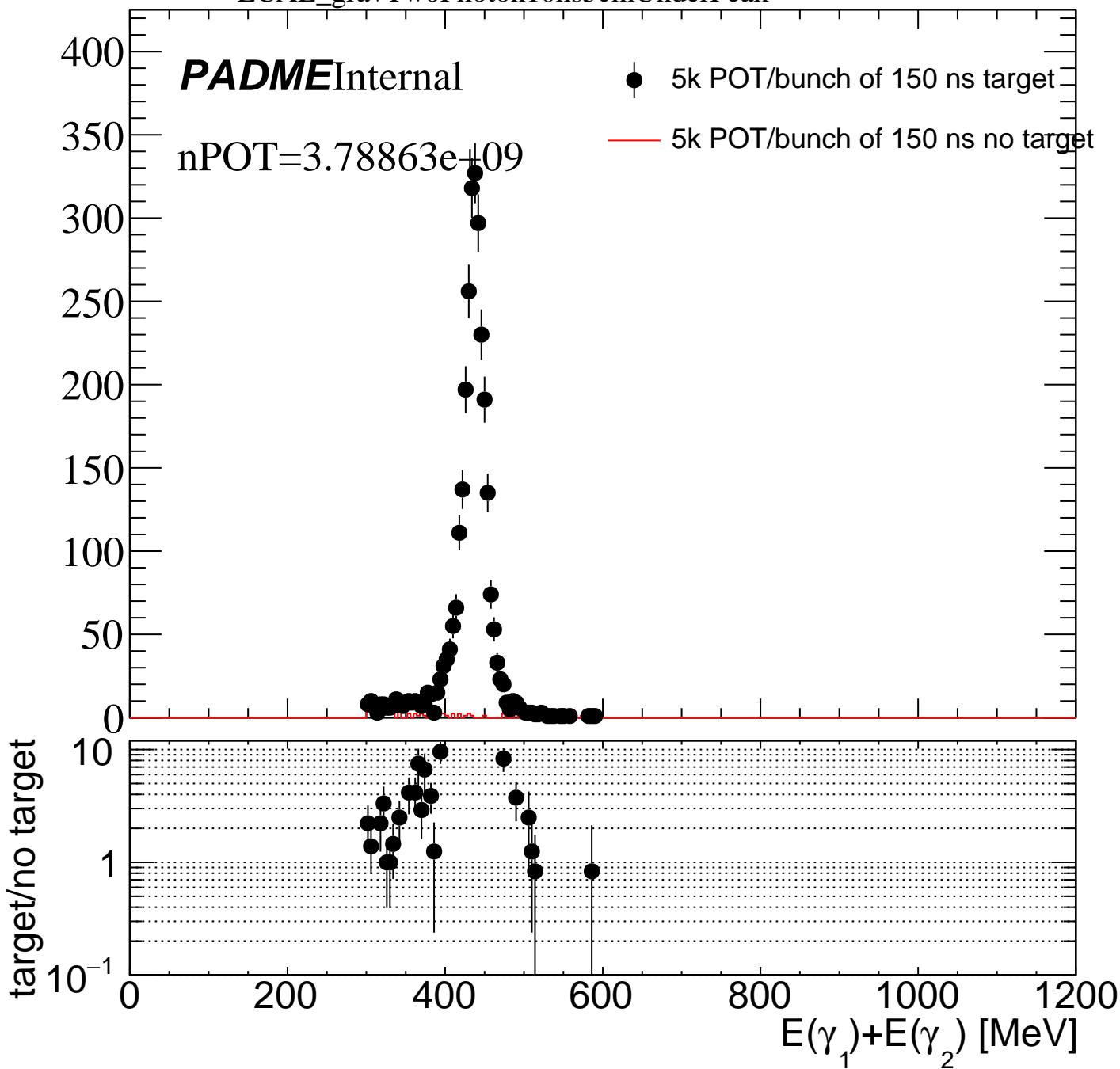


ECAL\_gravTwoPhoton10ns1cm20DegreeDeltaThetaEThr90

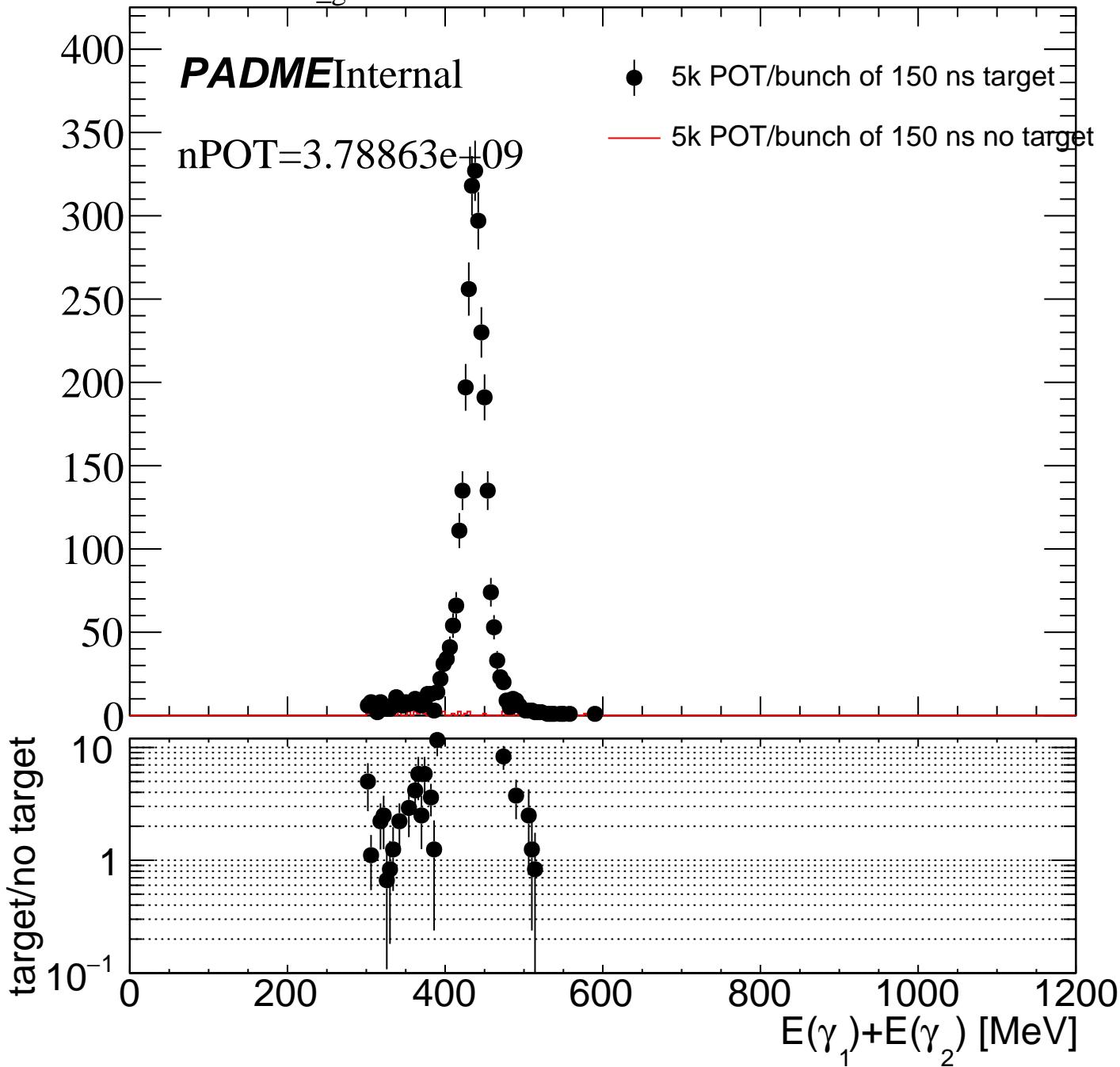




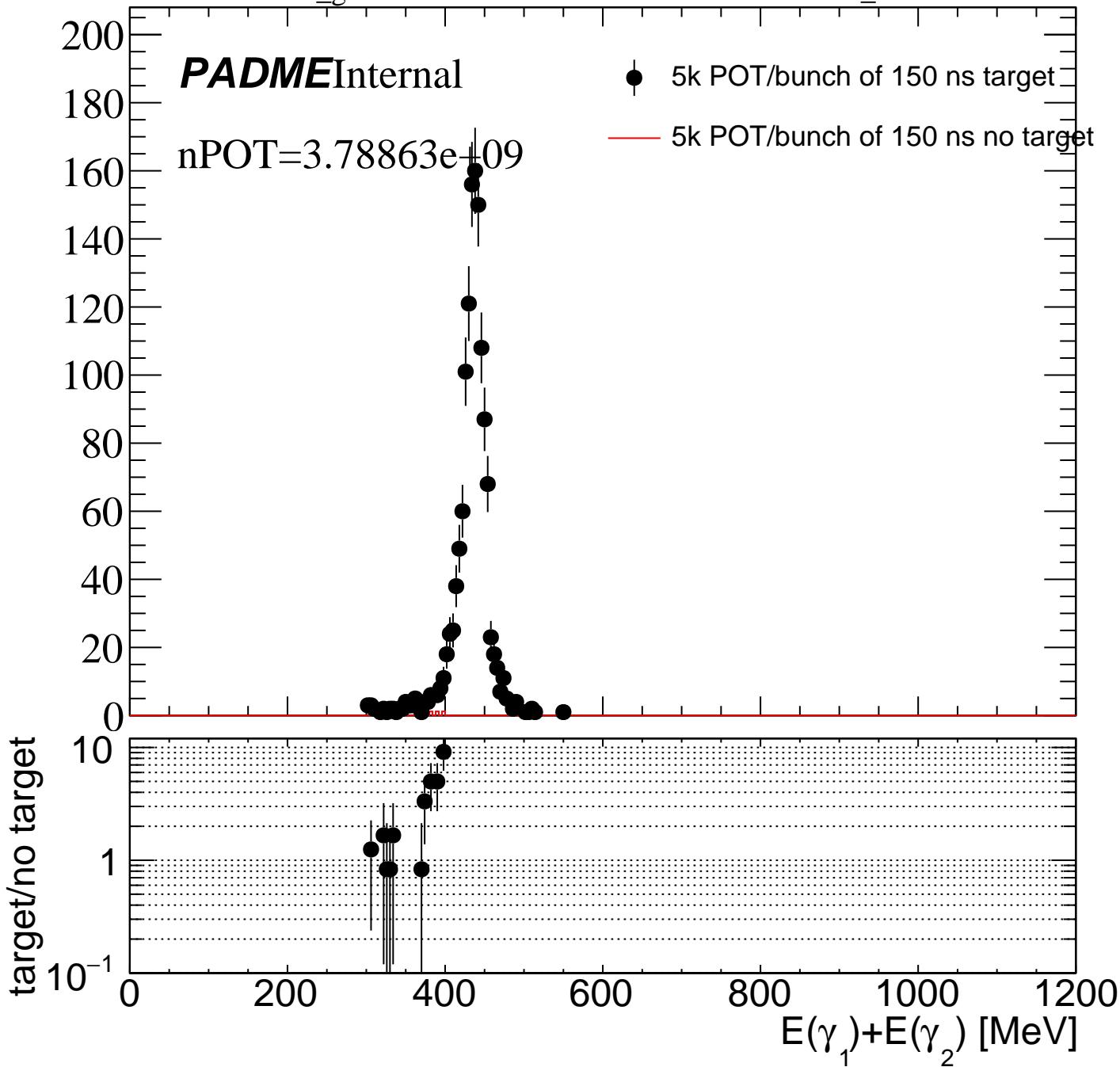
ECAL\_gravTwoPhoton10ns5cmUnderPeak



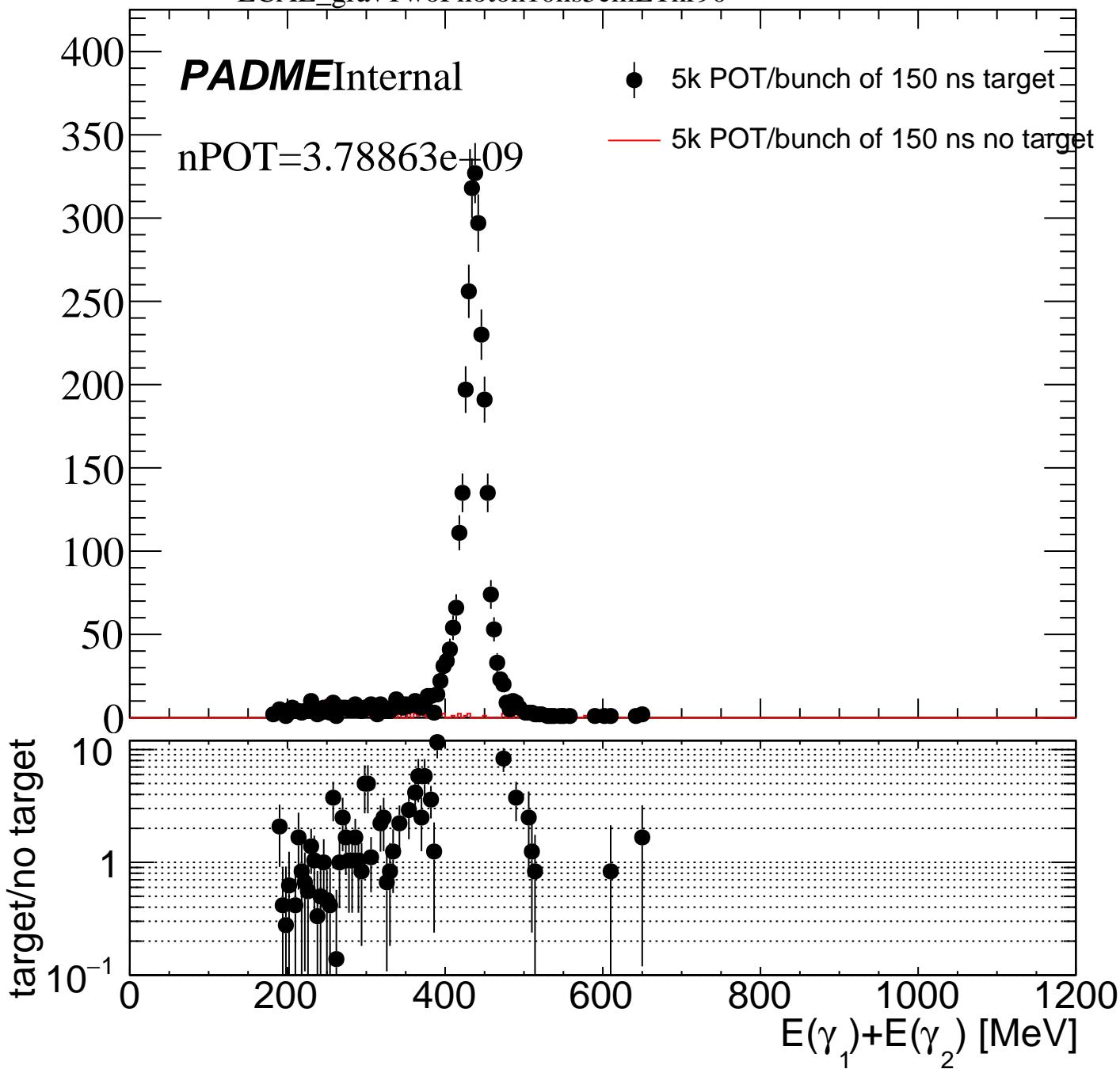
ECAL\_gravTwoPhoton10ns5cmUnderPeakEThr90

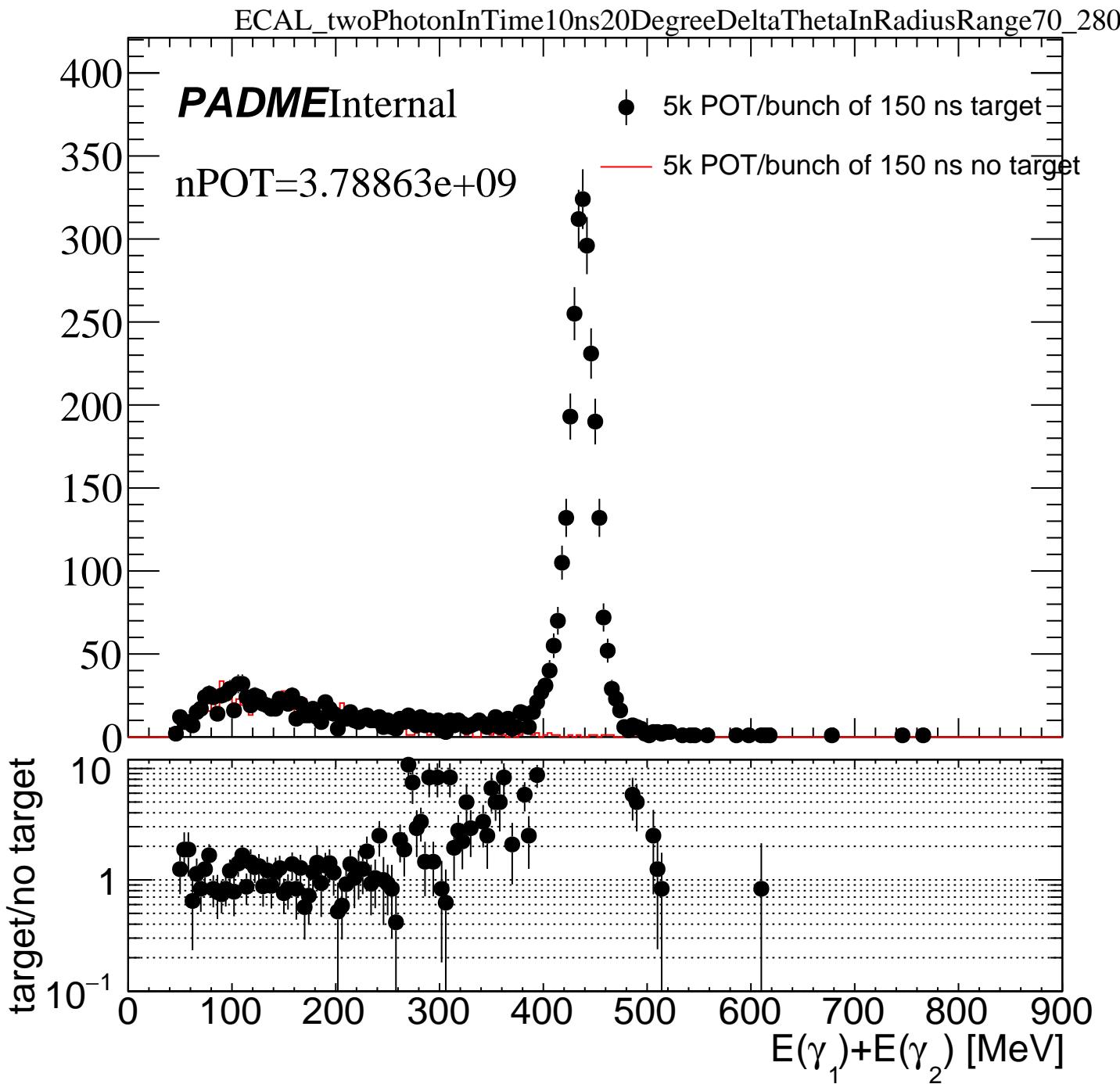


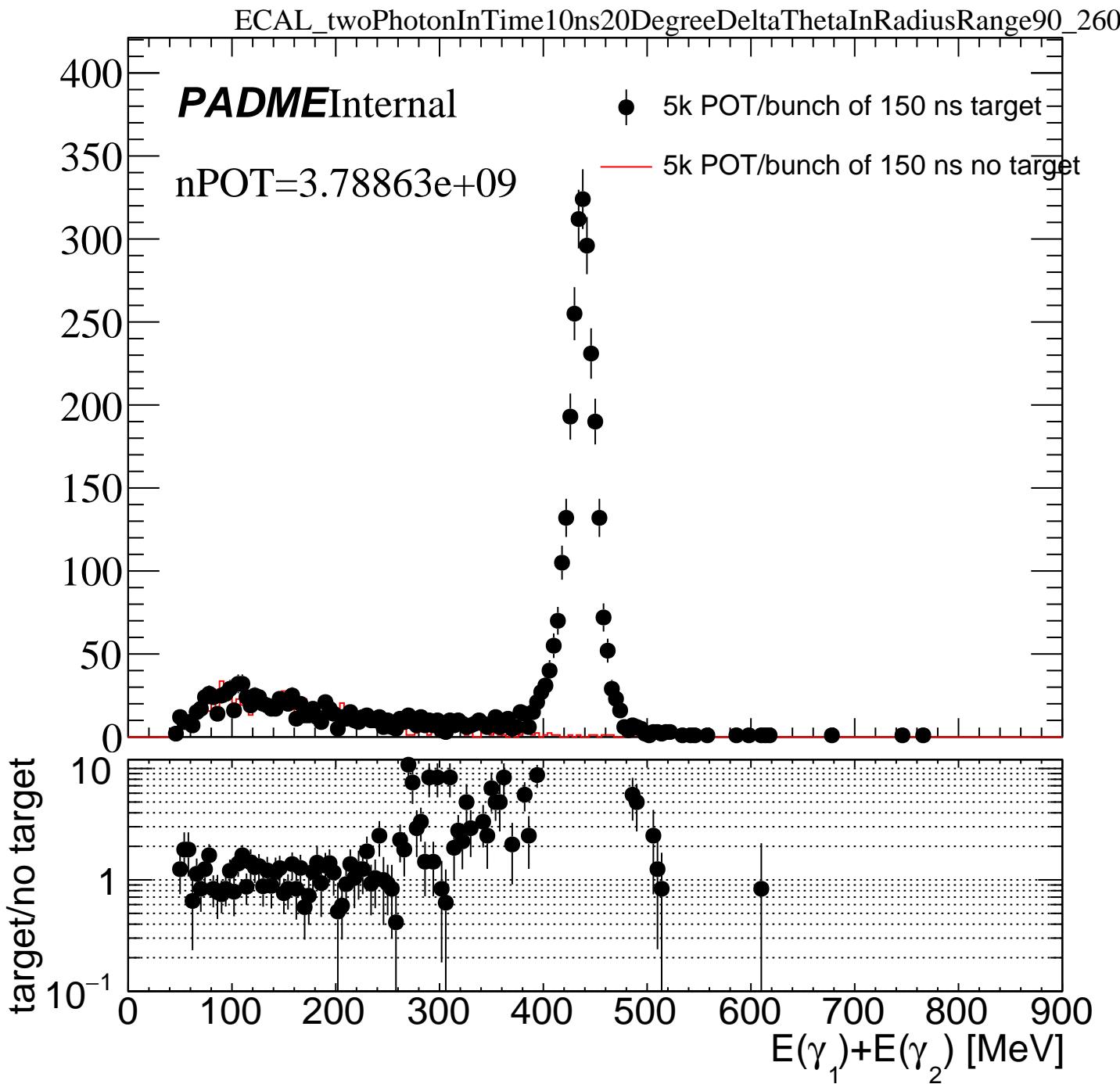
ECAL\_gravTwoPhoton10ns5cmUnderPeakEThr90\_FRY



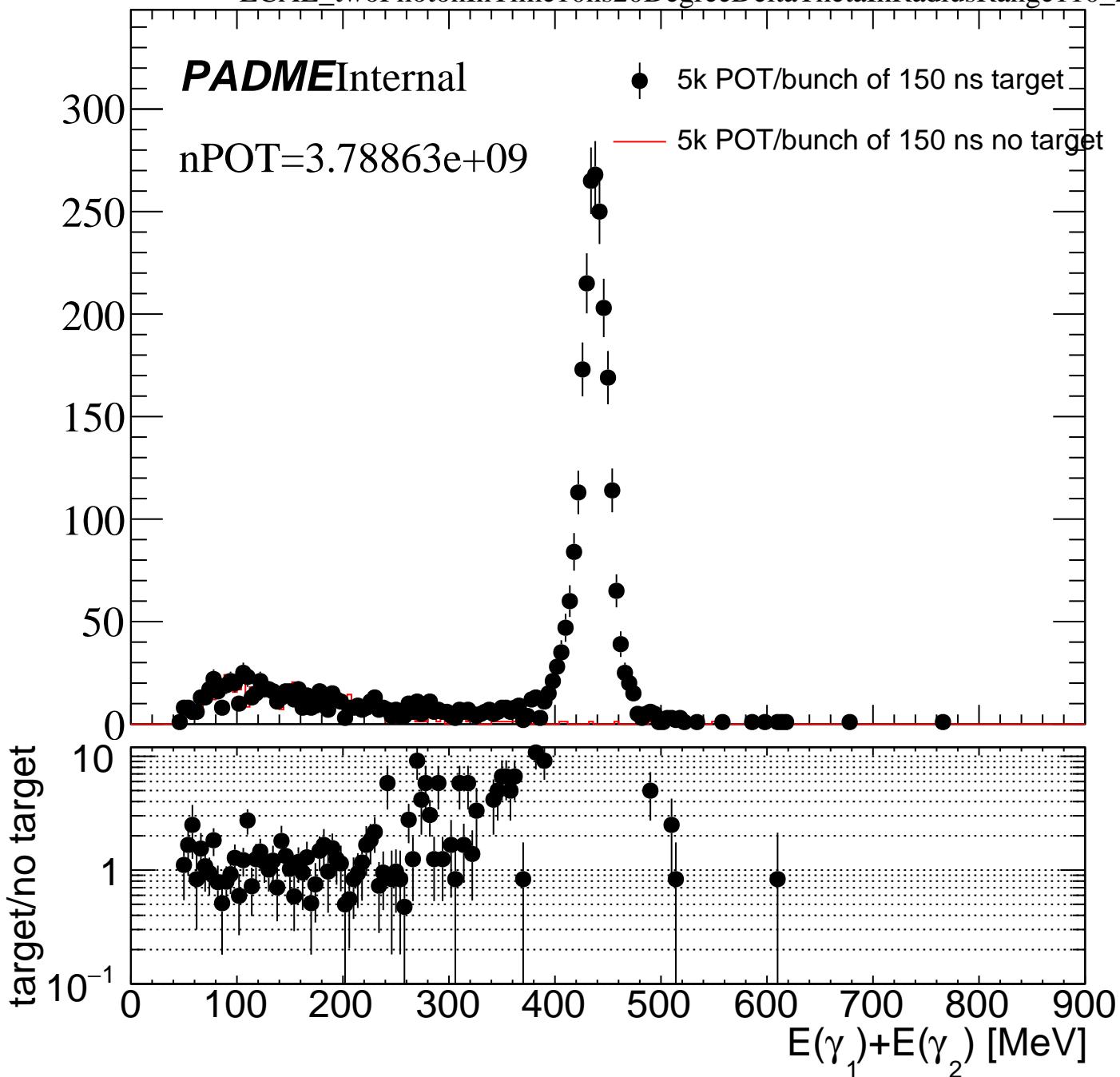
ECAL\_gravTwoPhoton10ns5cmEThr90

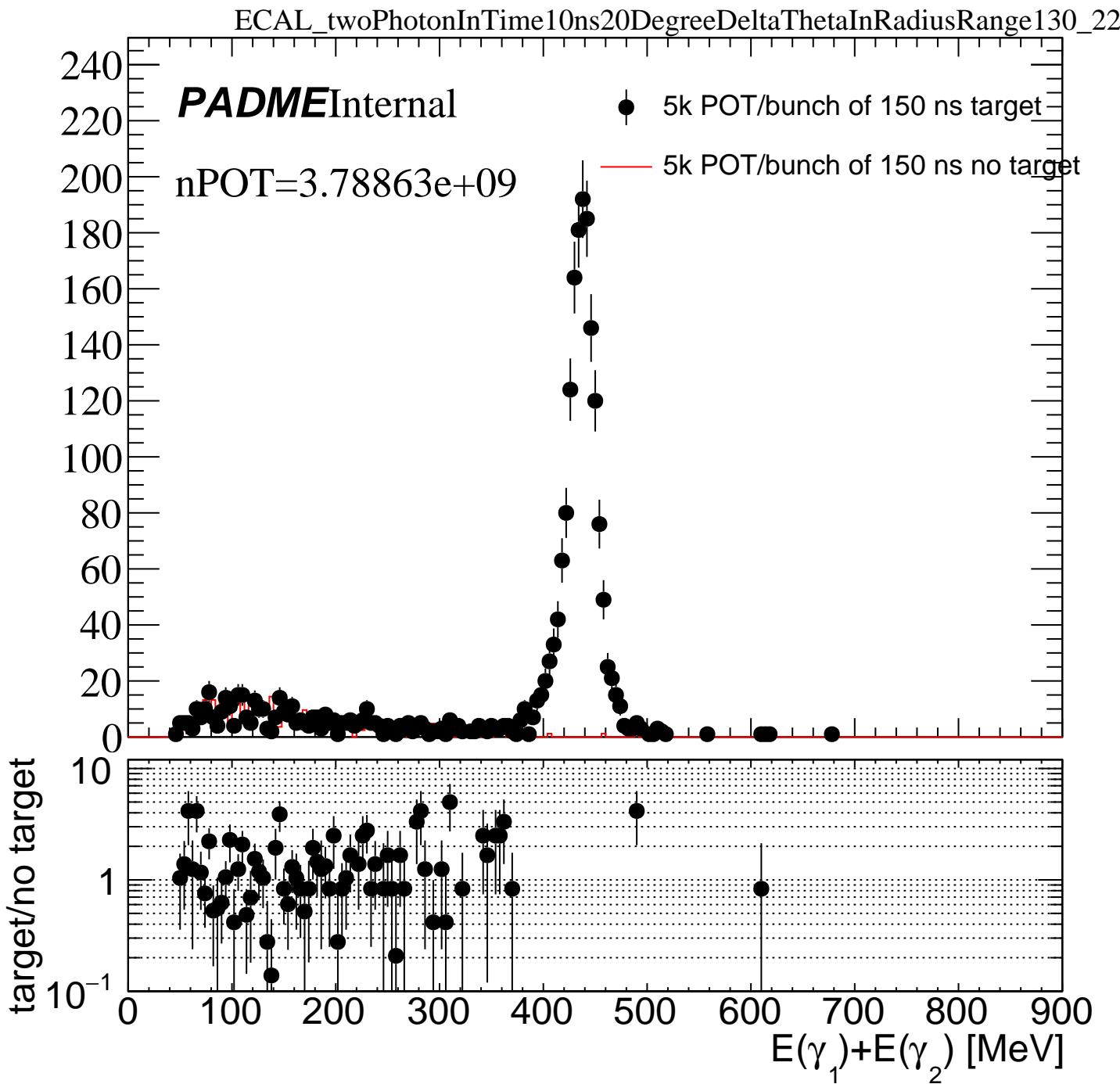




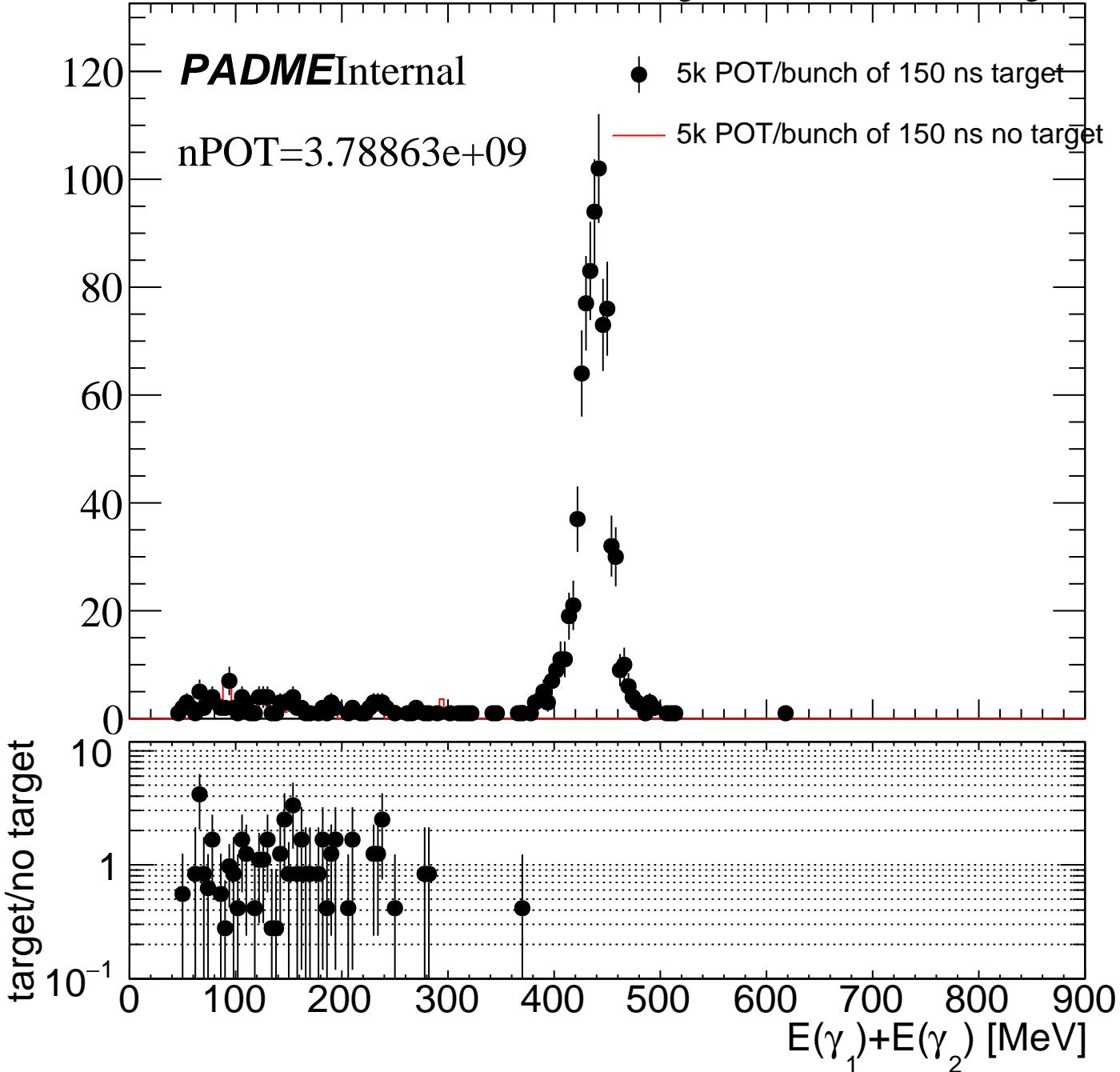


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110\_24

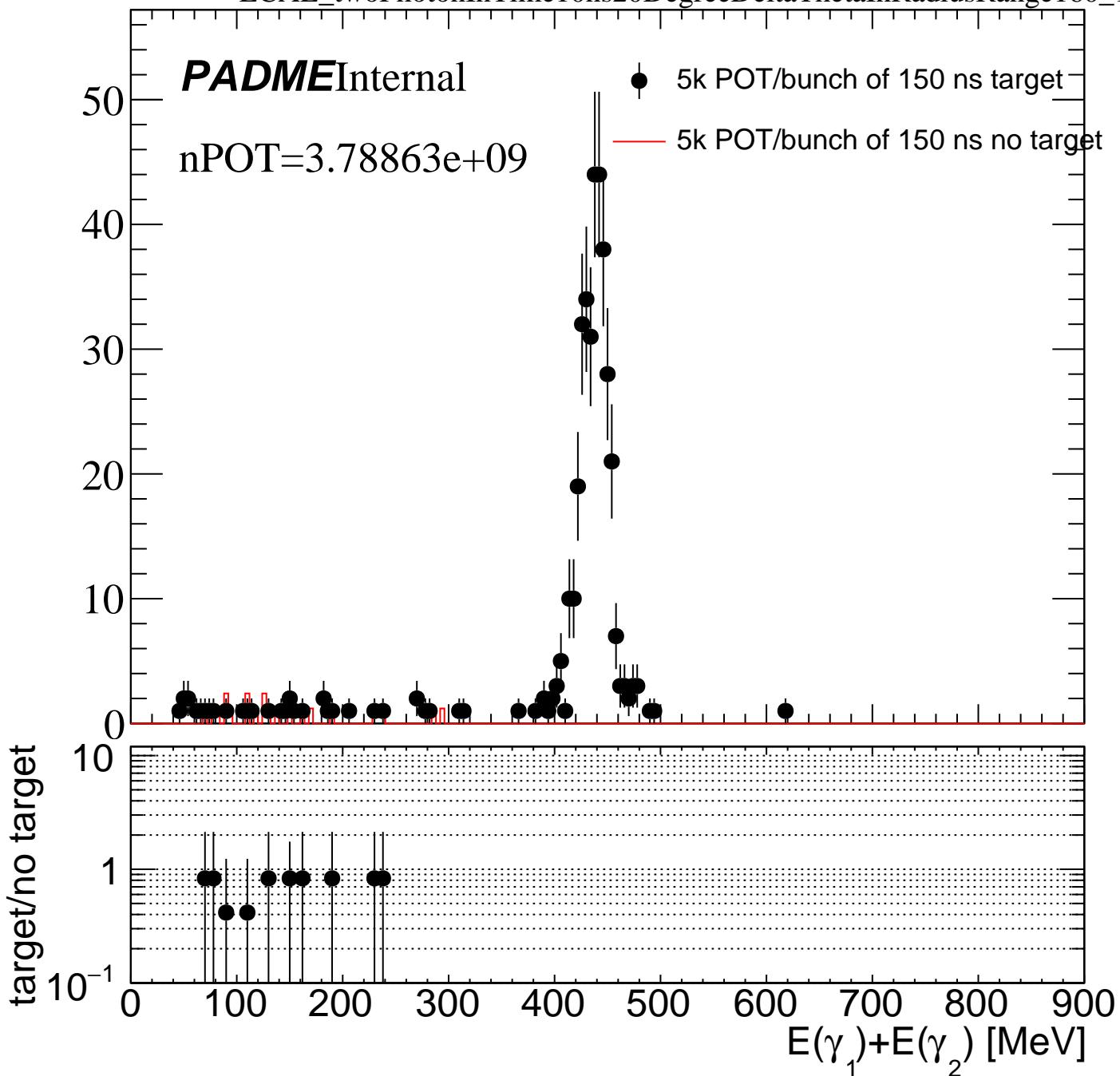


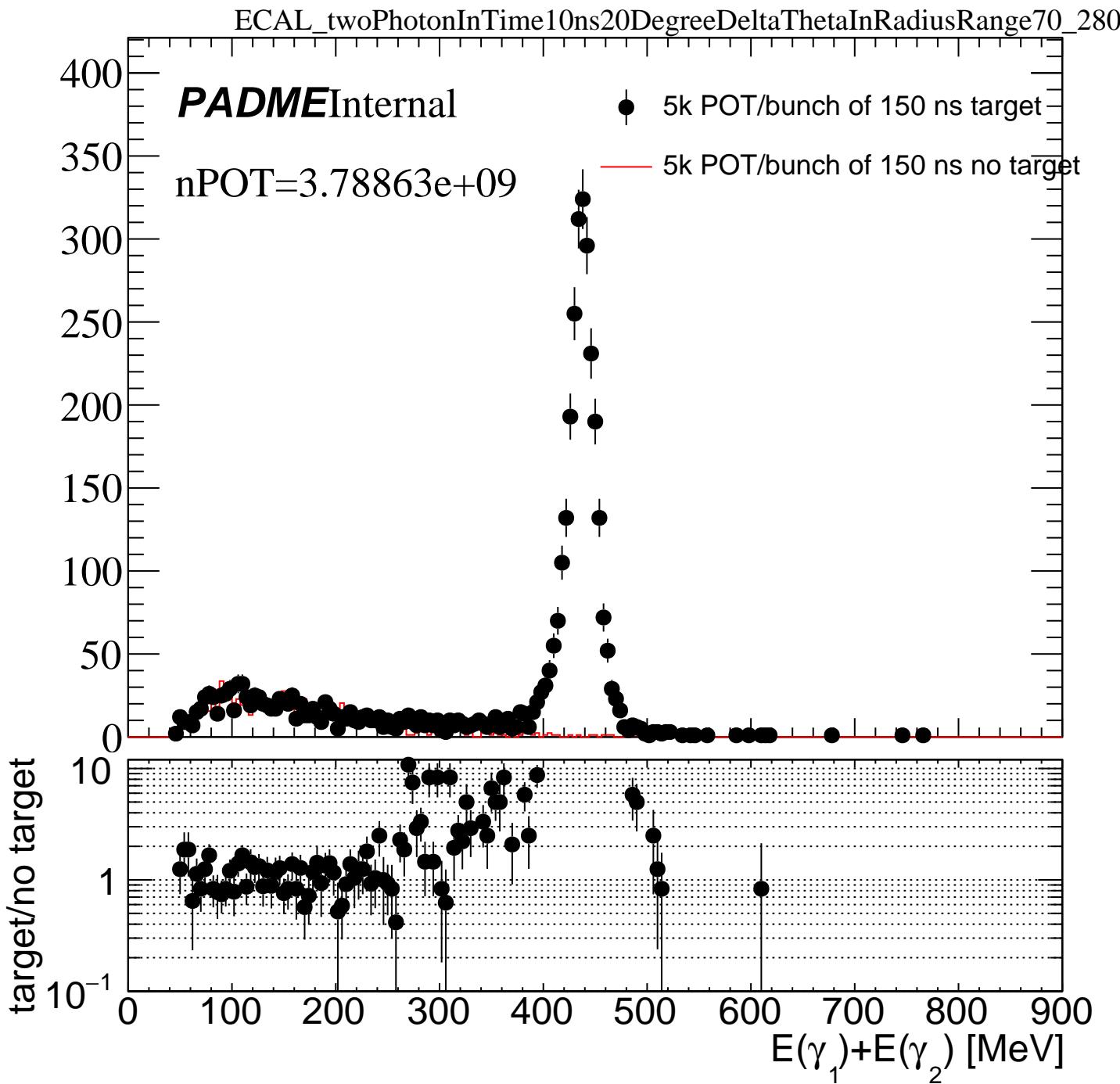


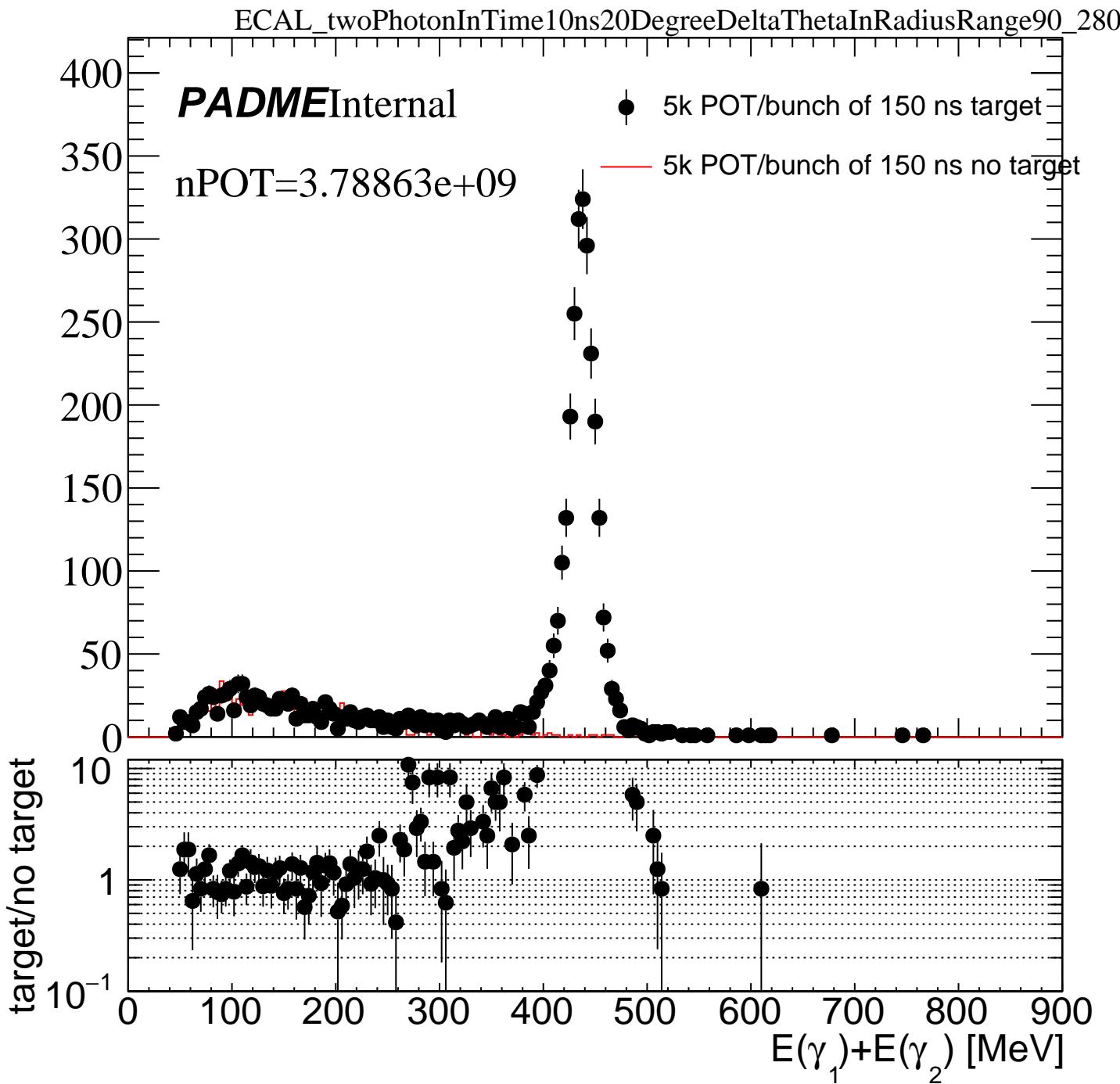
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150\_20

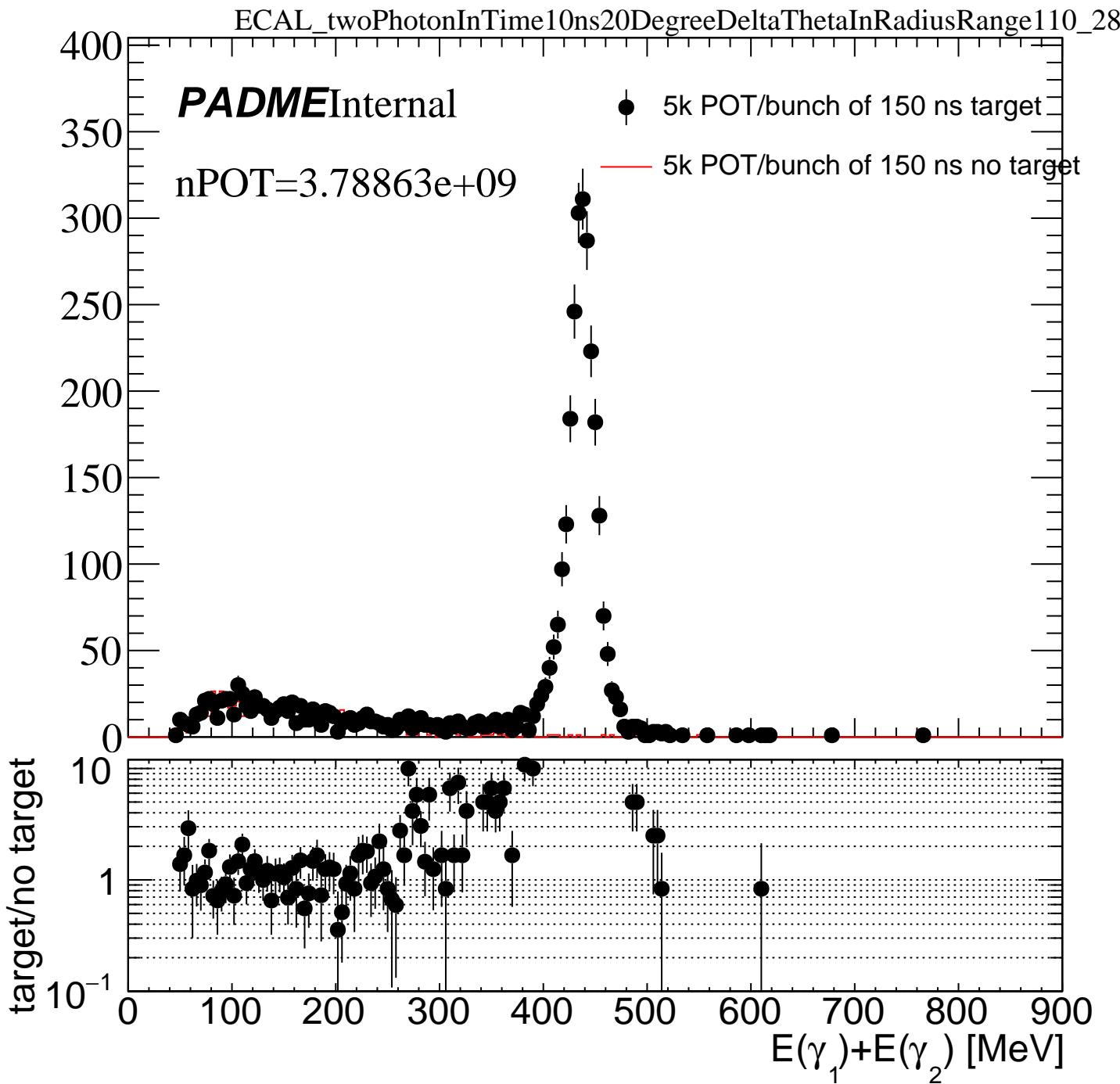


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160\_19

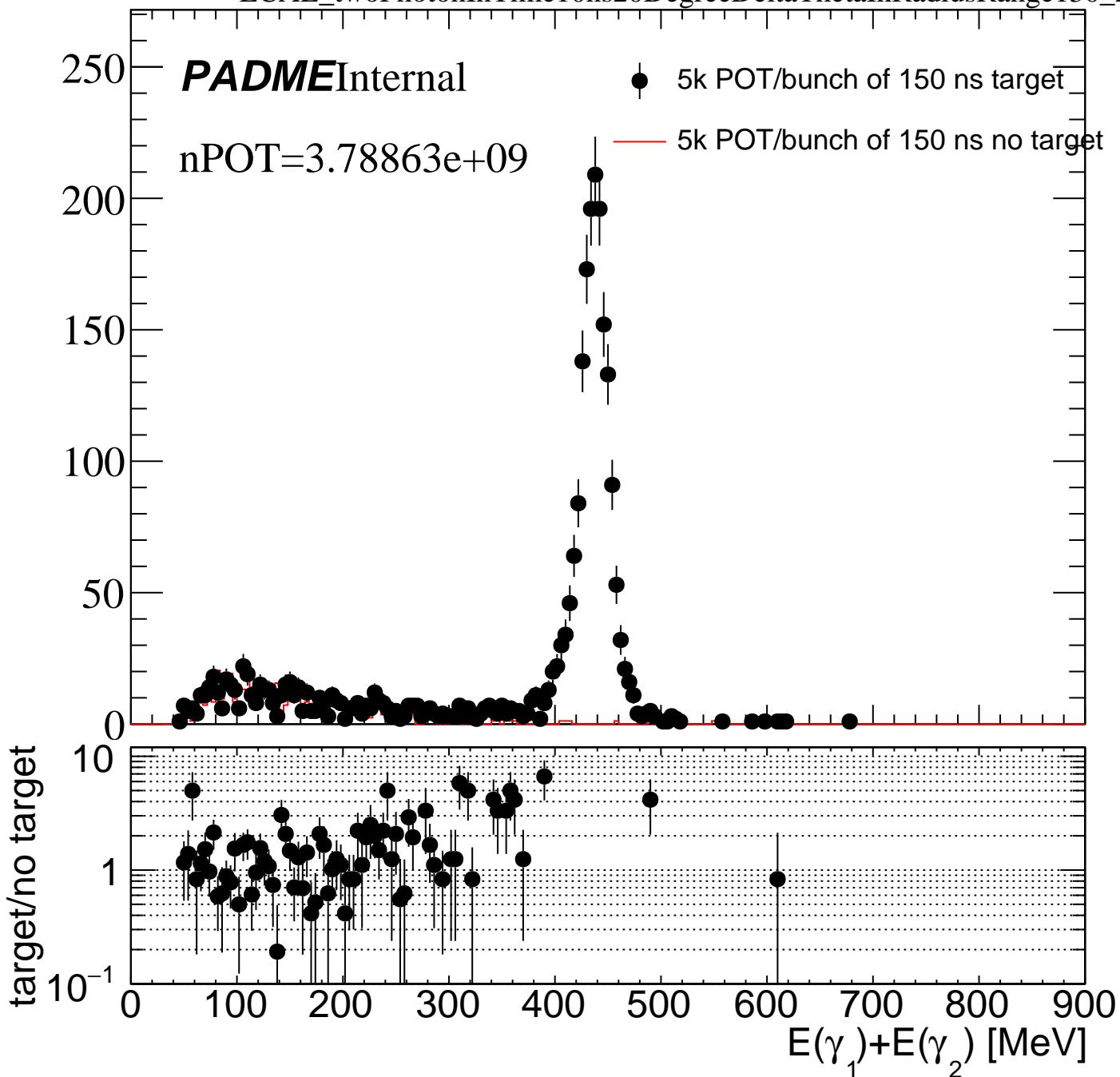


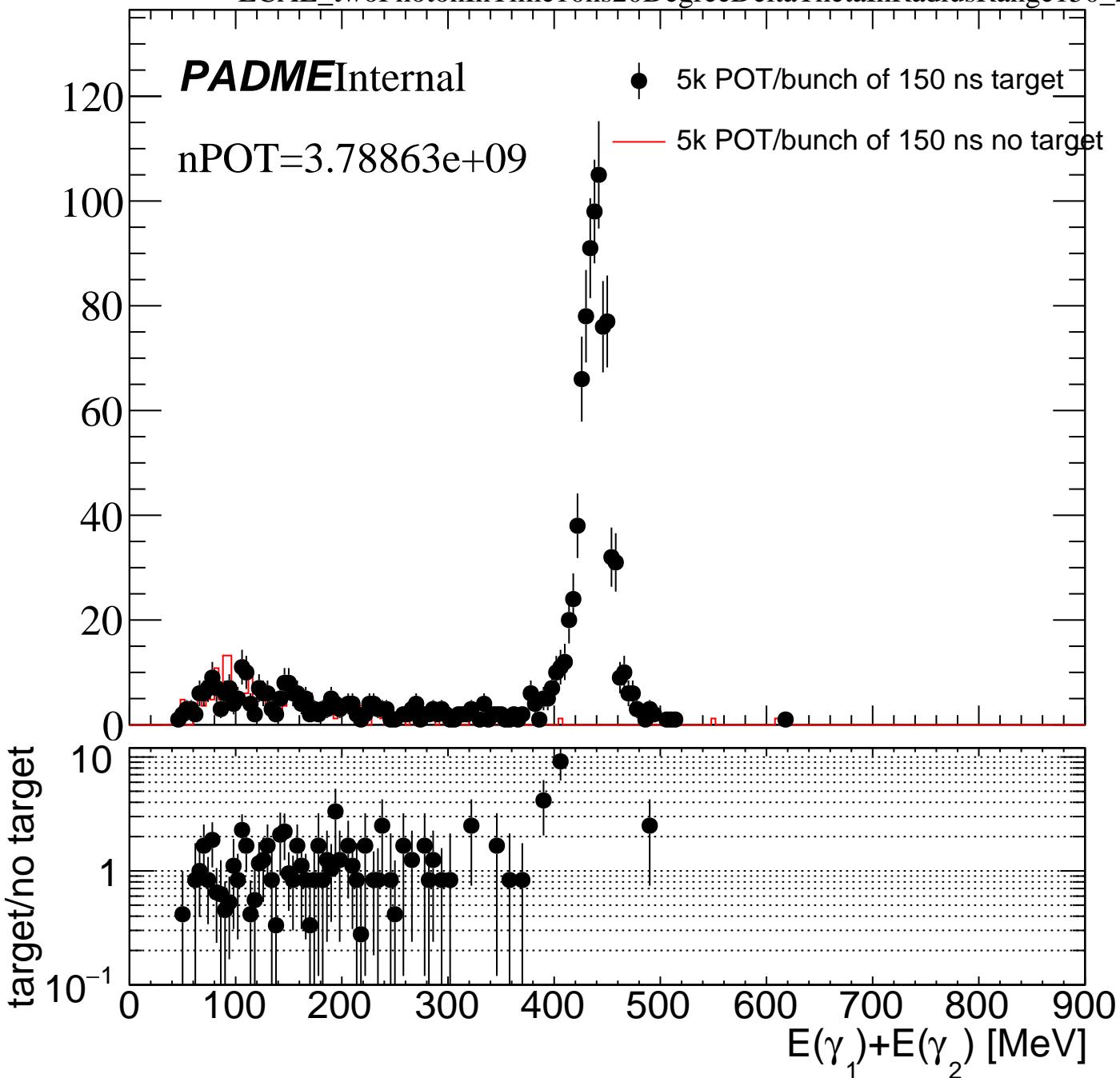




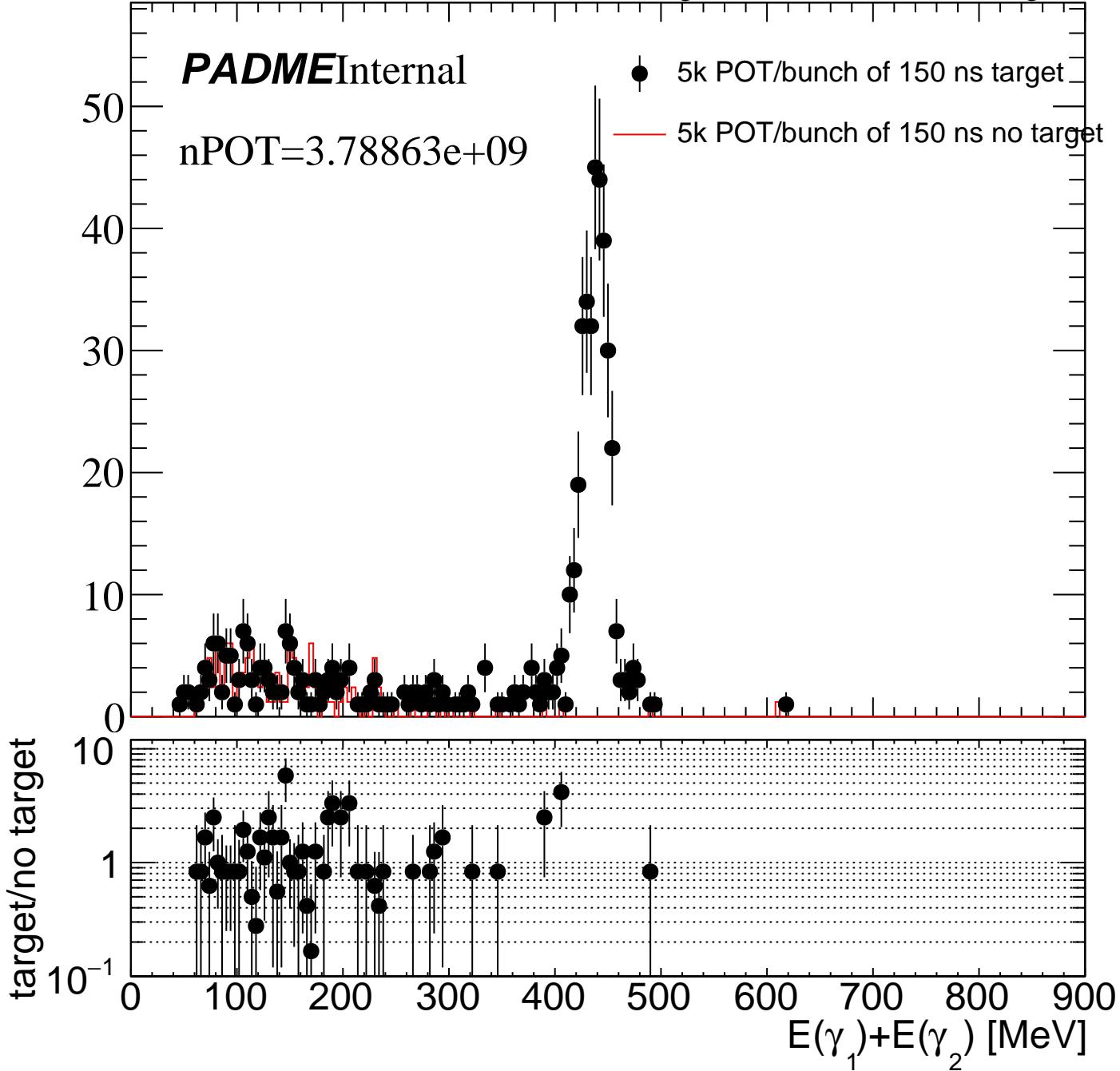


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130\_28

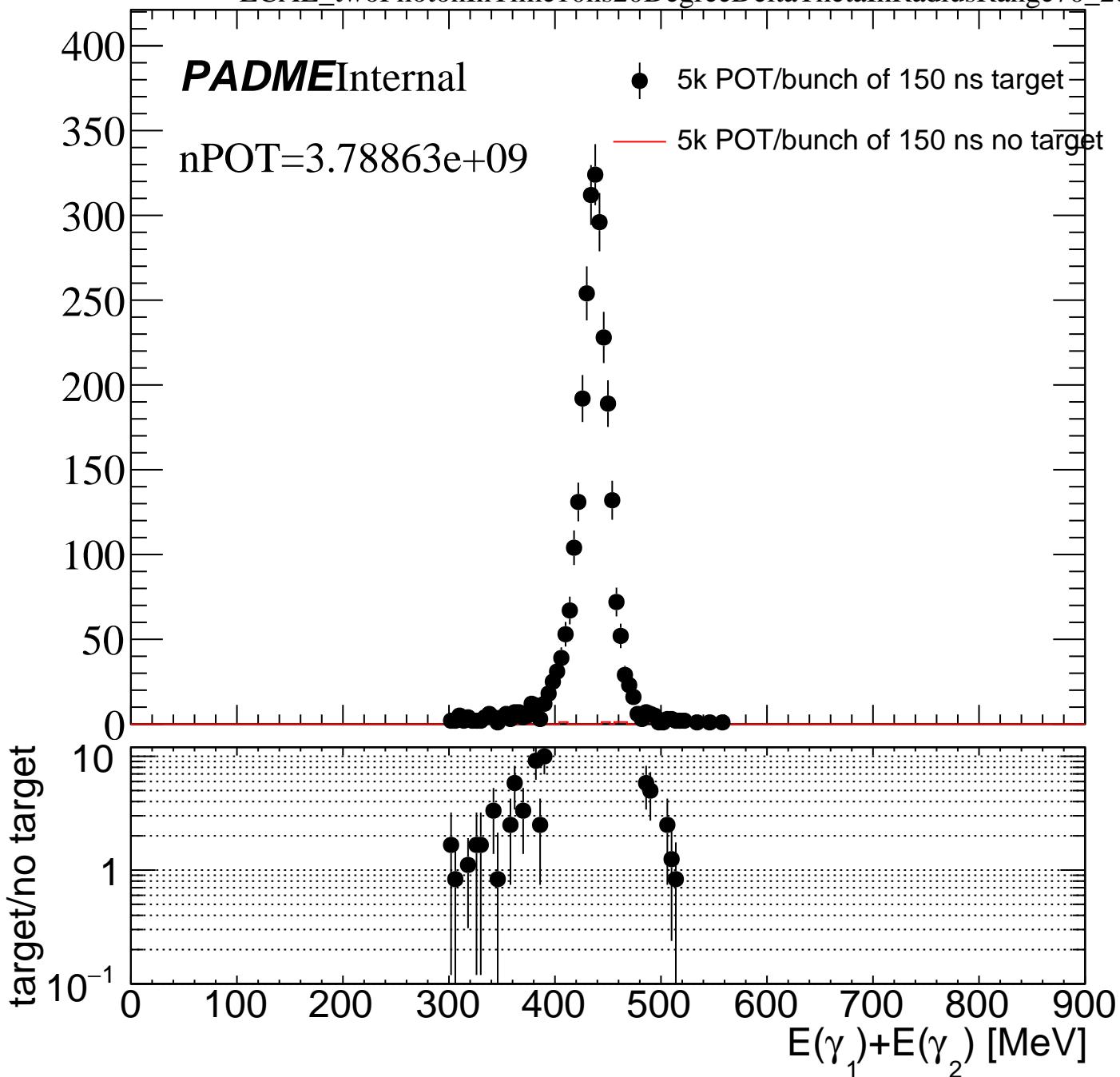


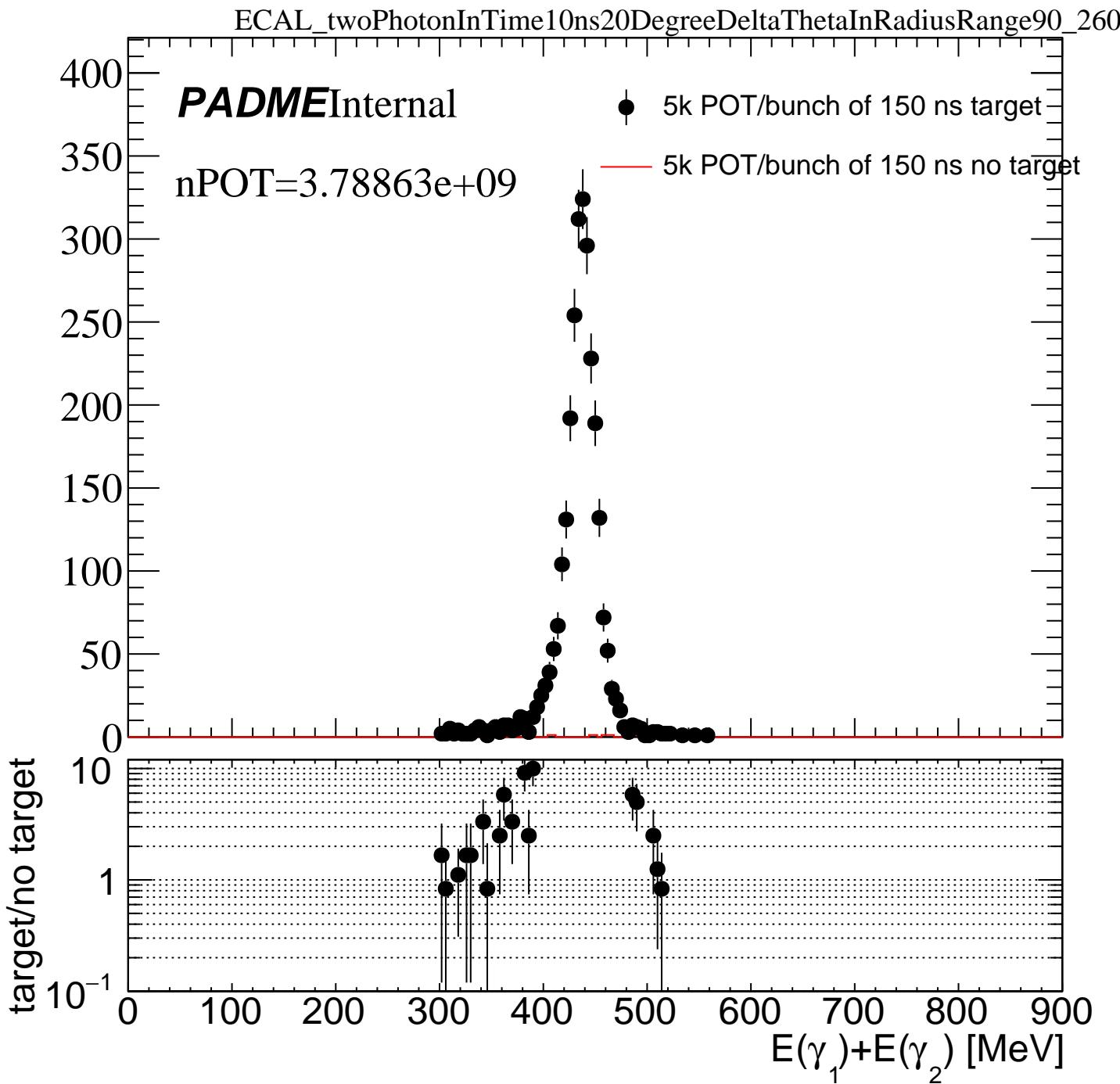


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160\_28

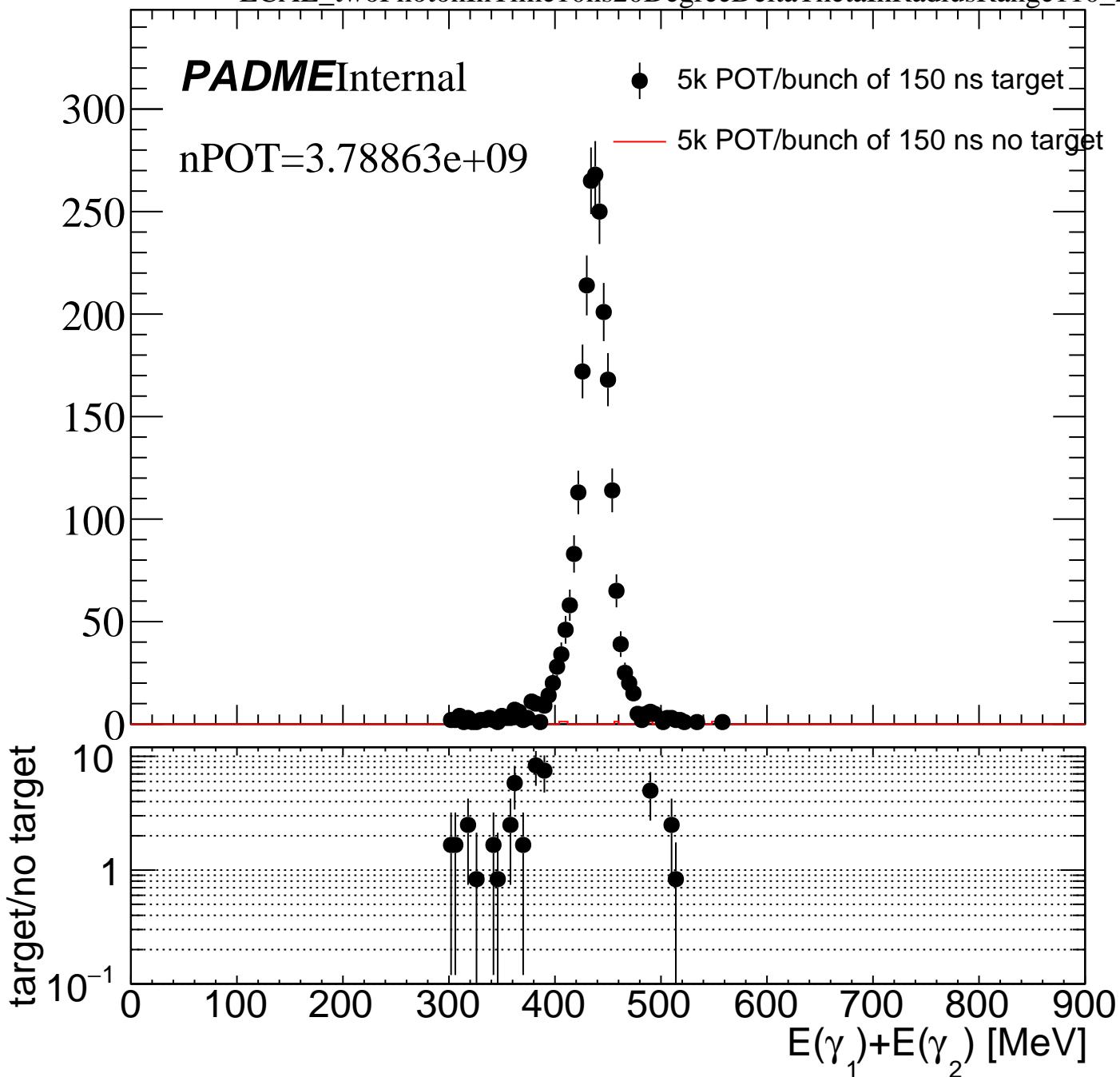


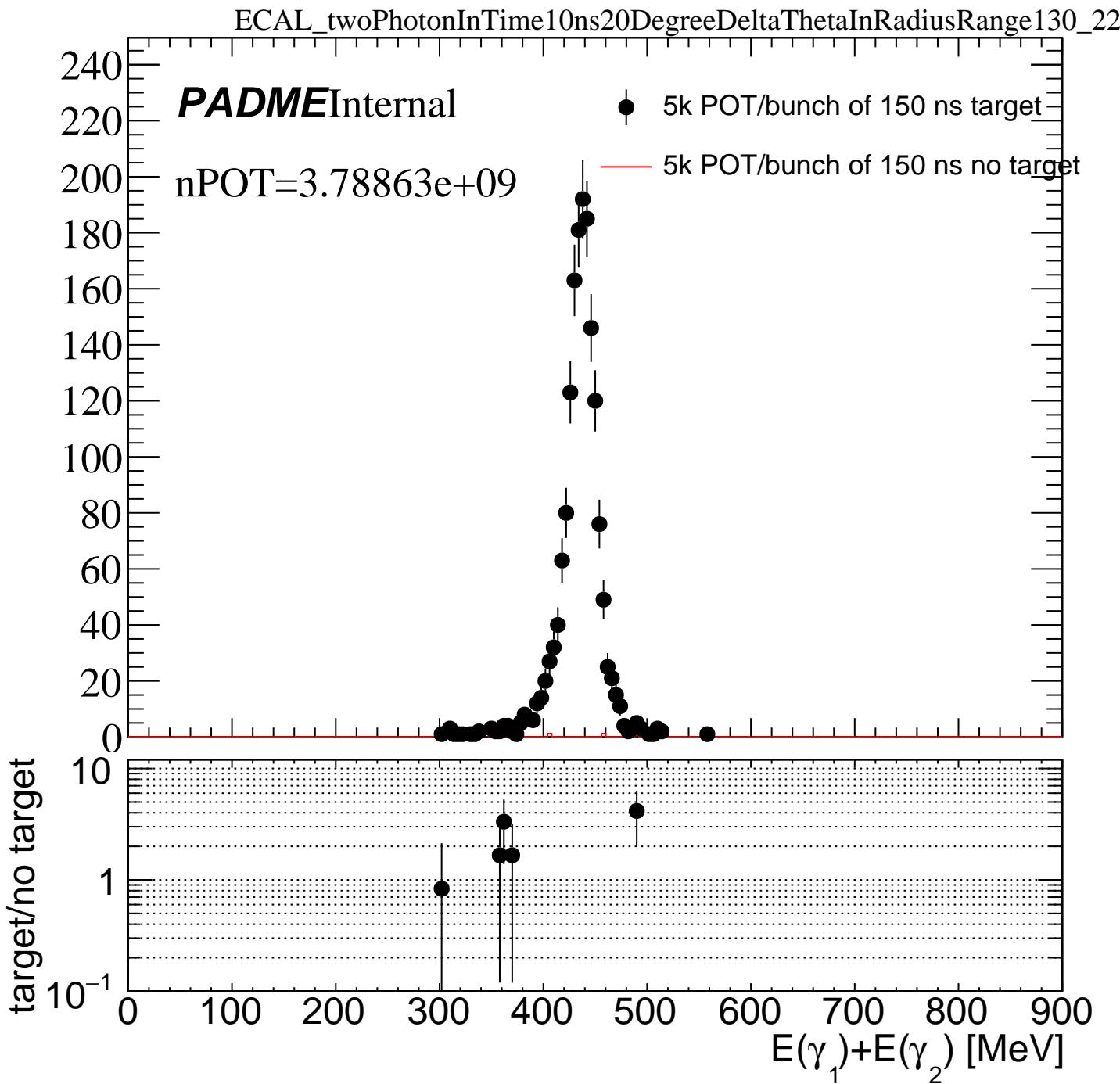
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70\_280



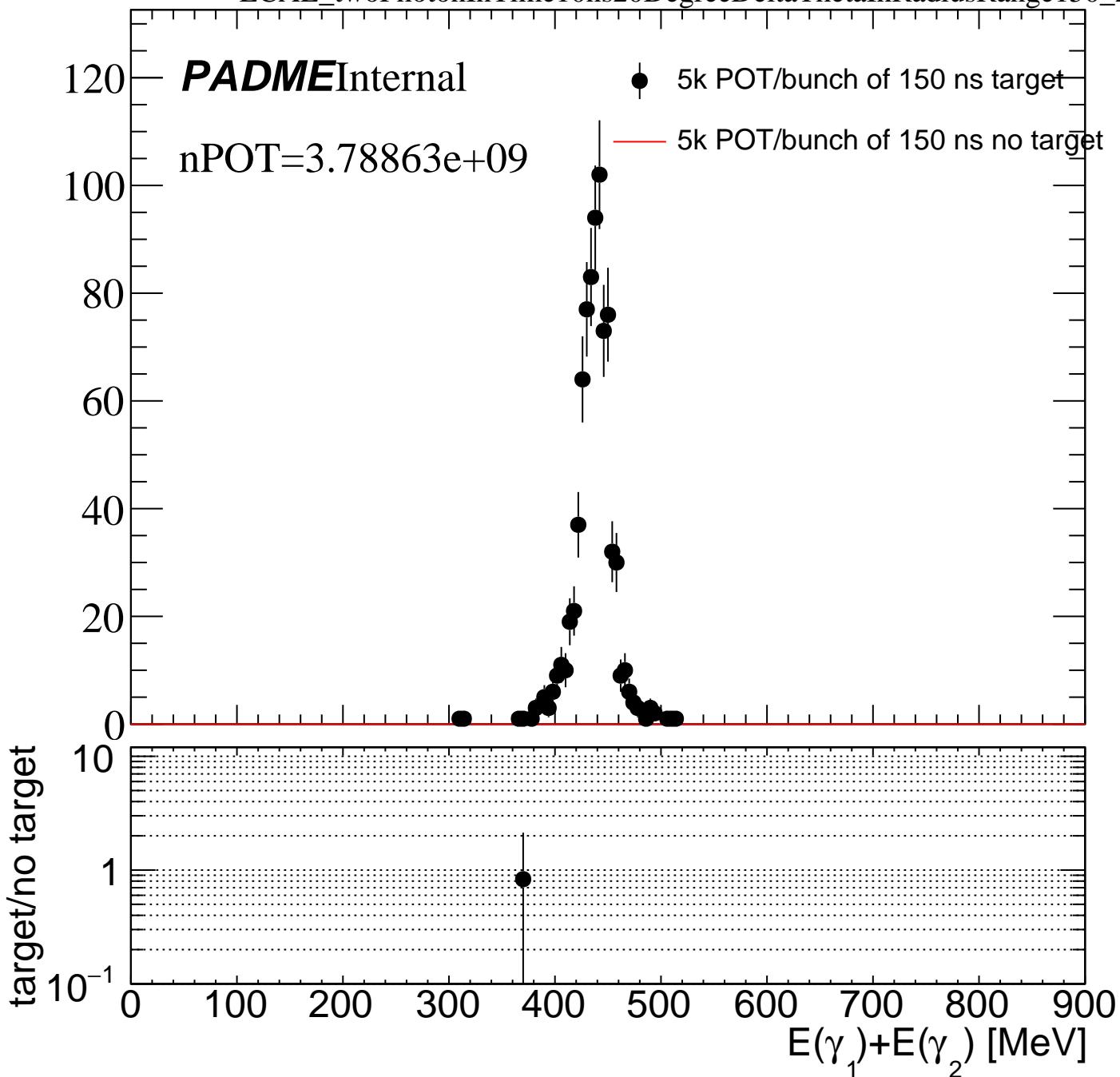


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110\_24

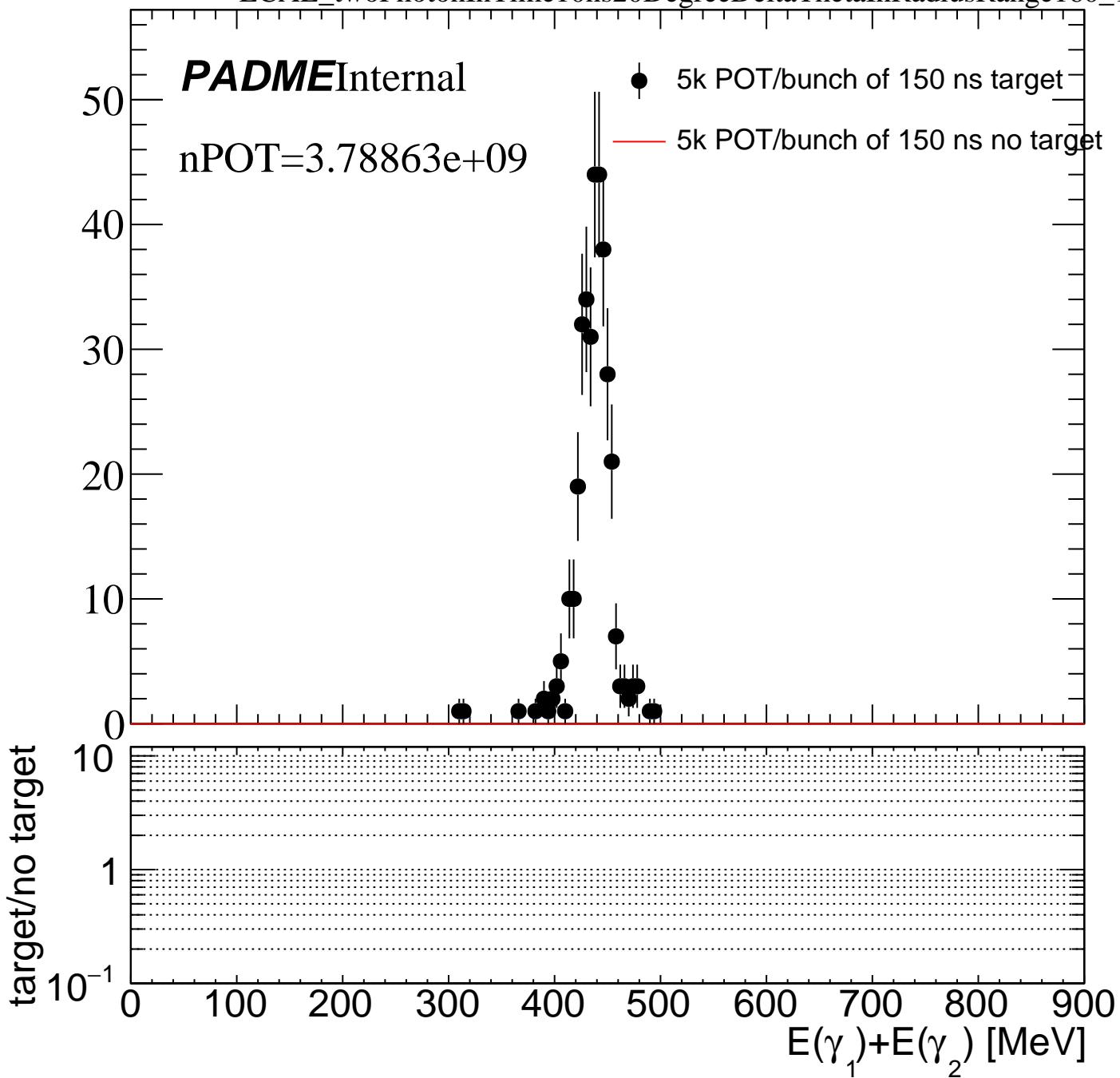


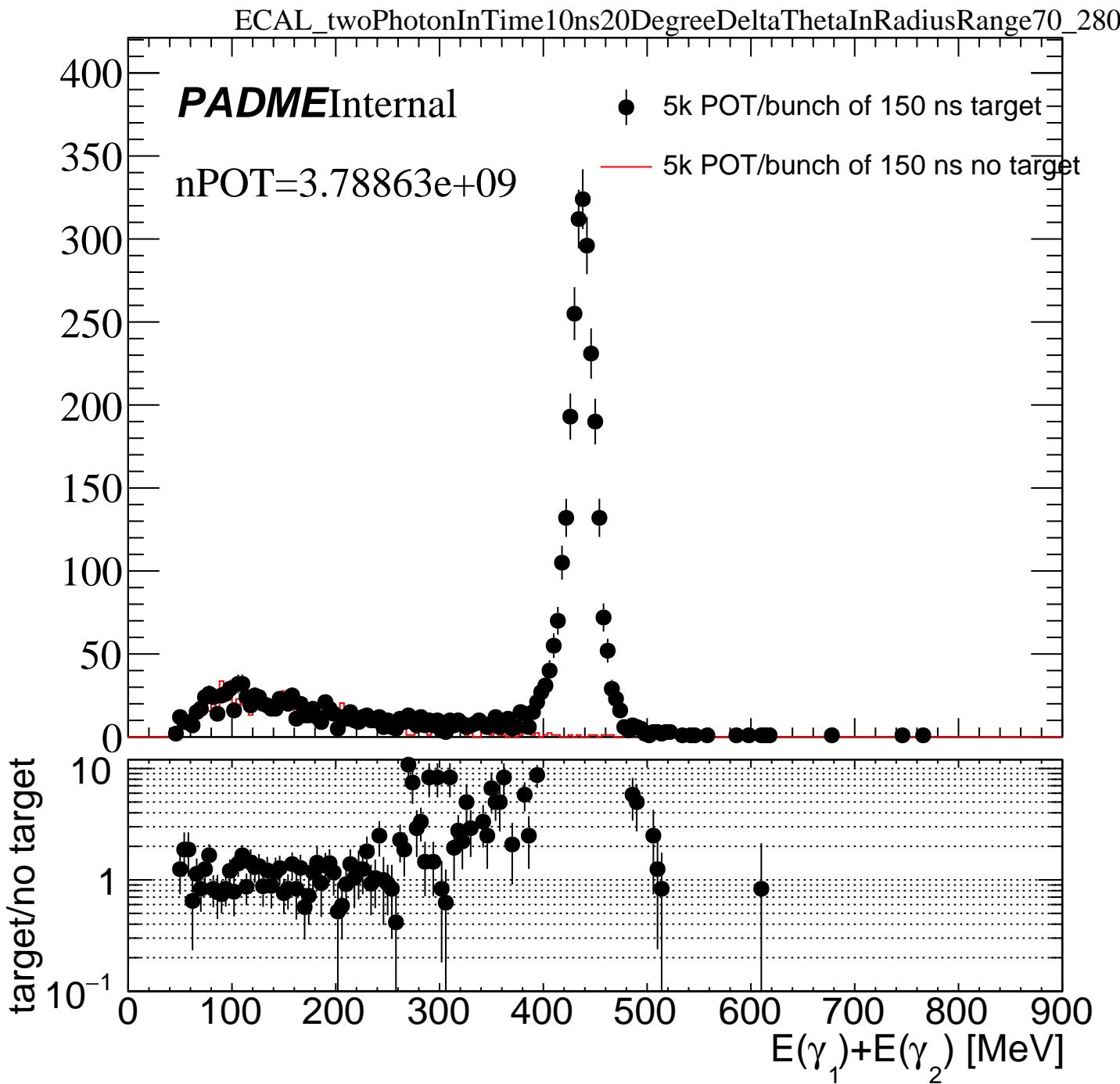


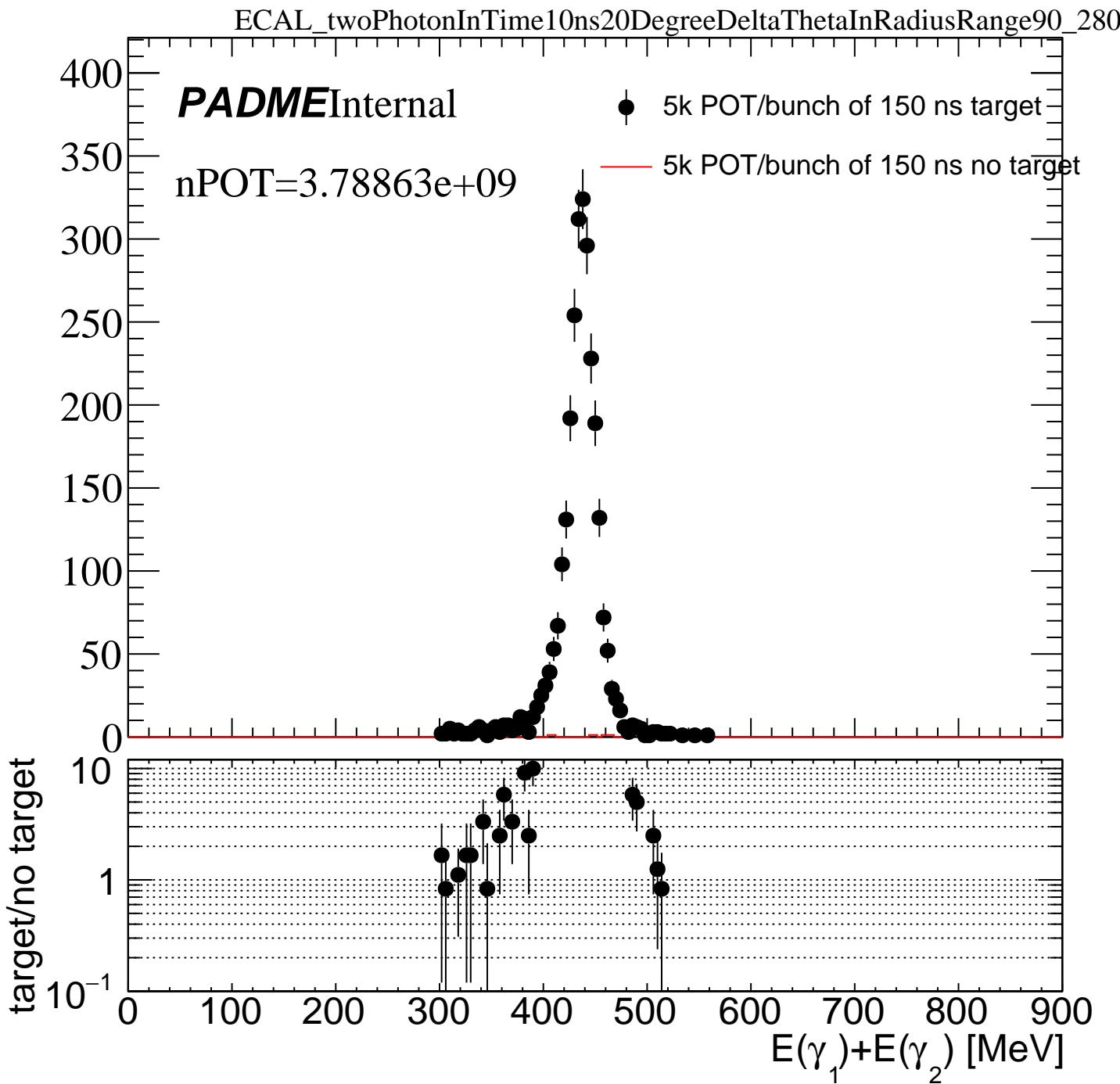
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150\_20

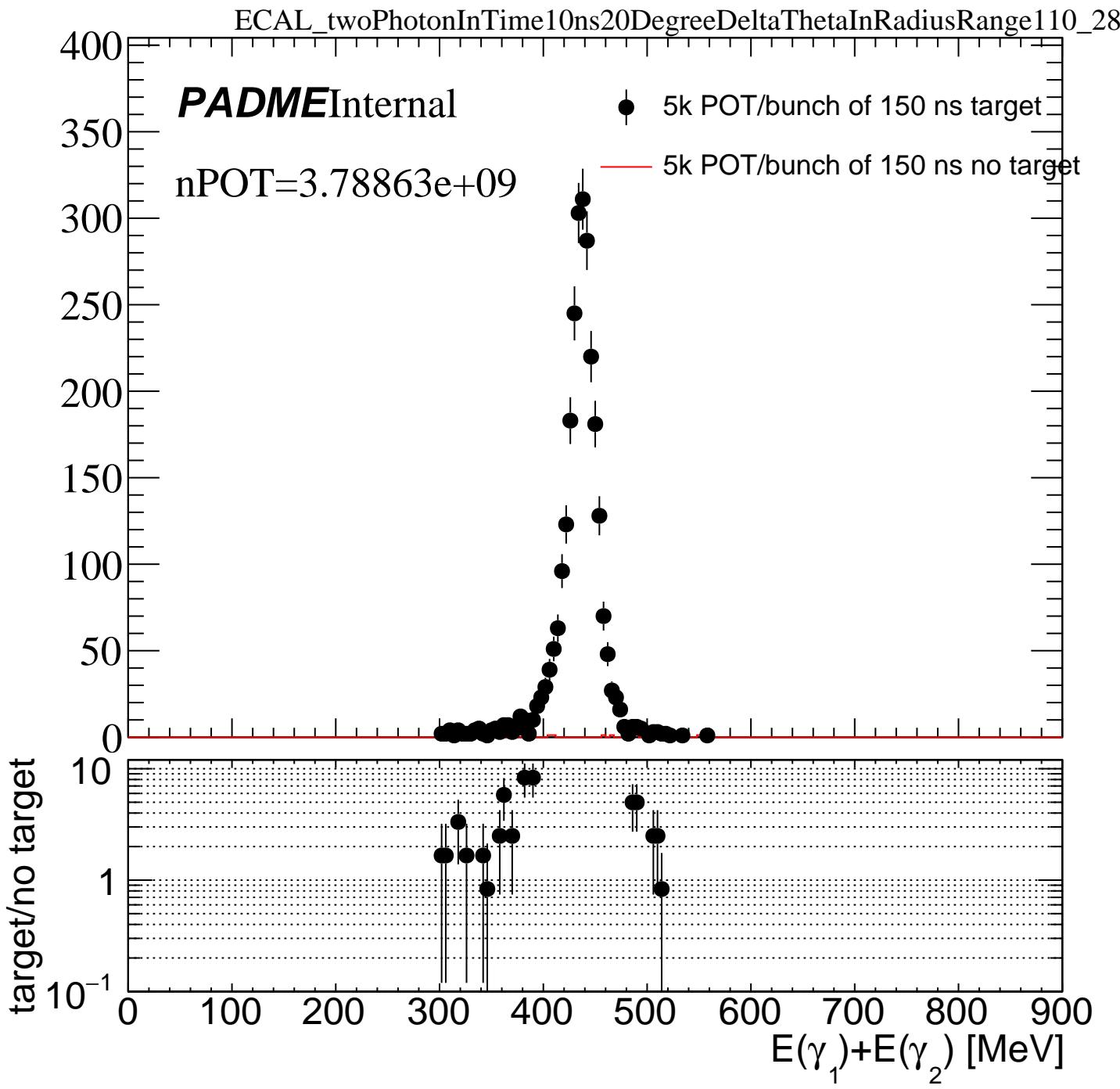


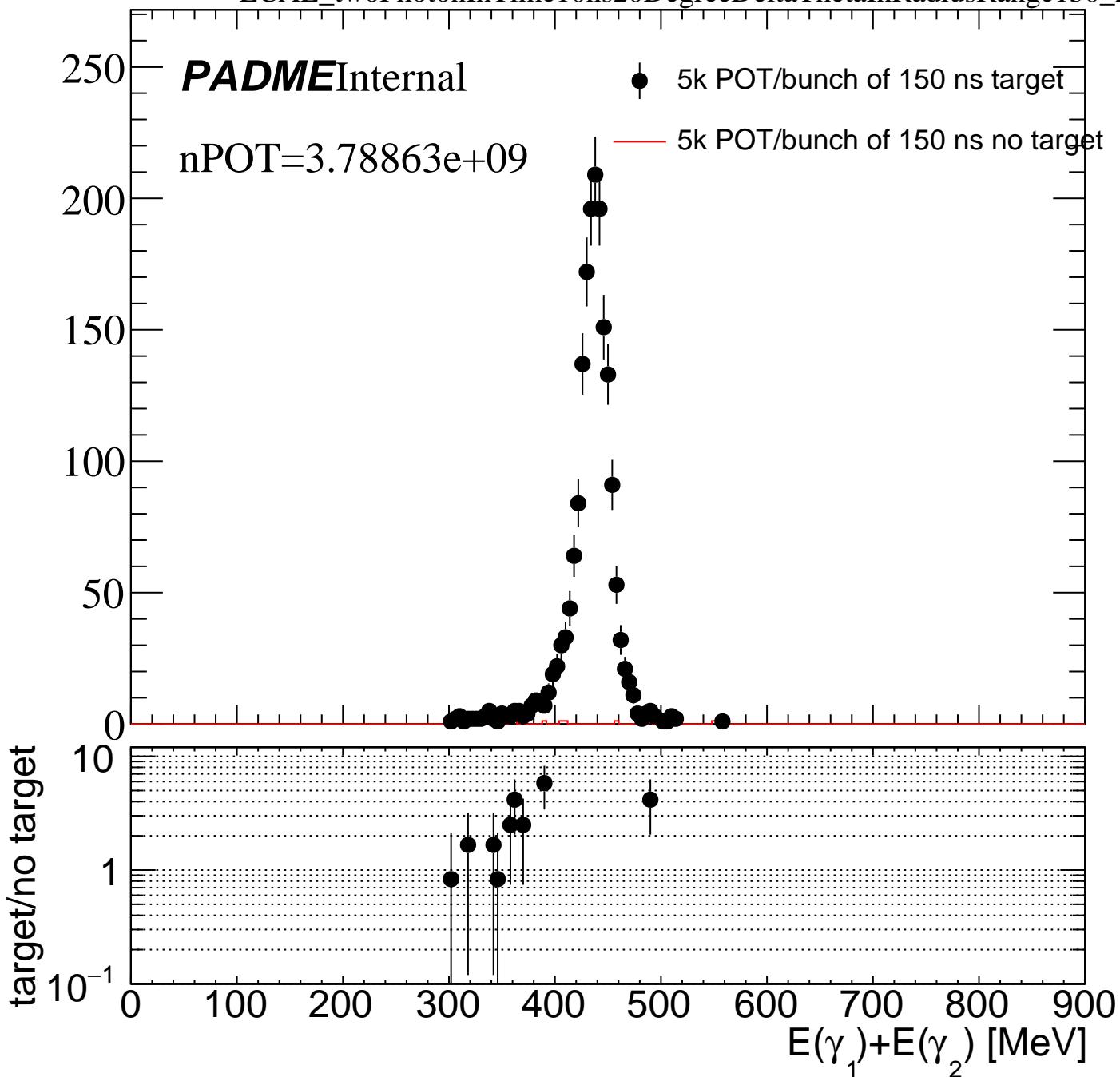
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160\_19

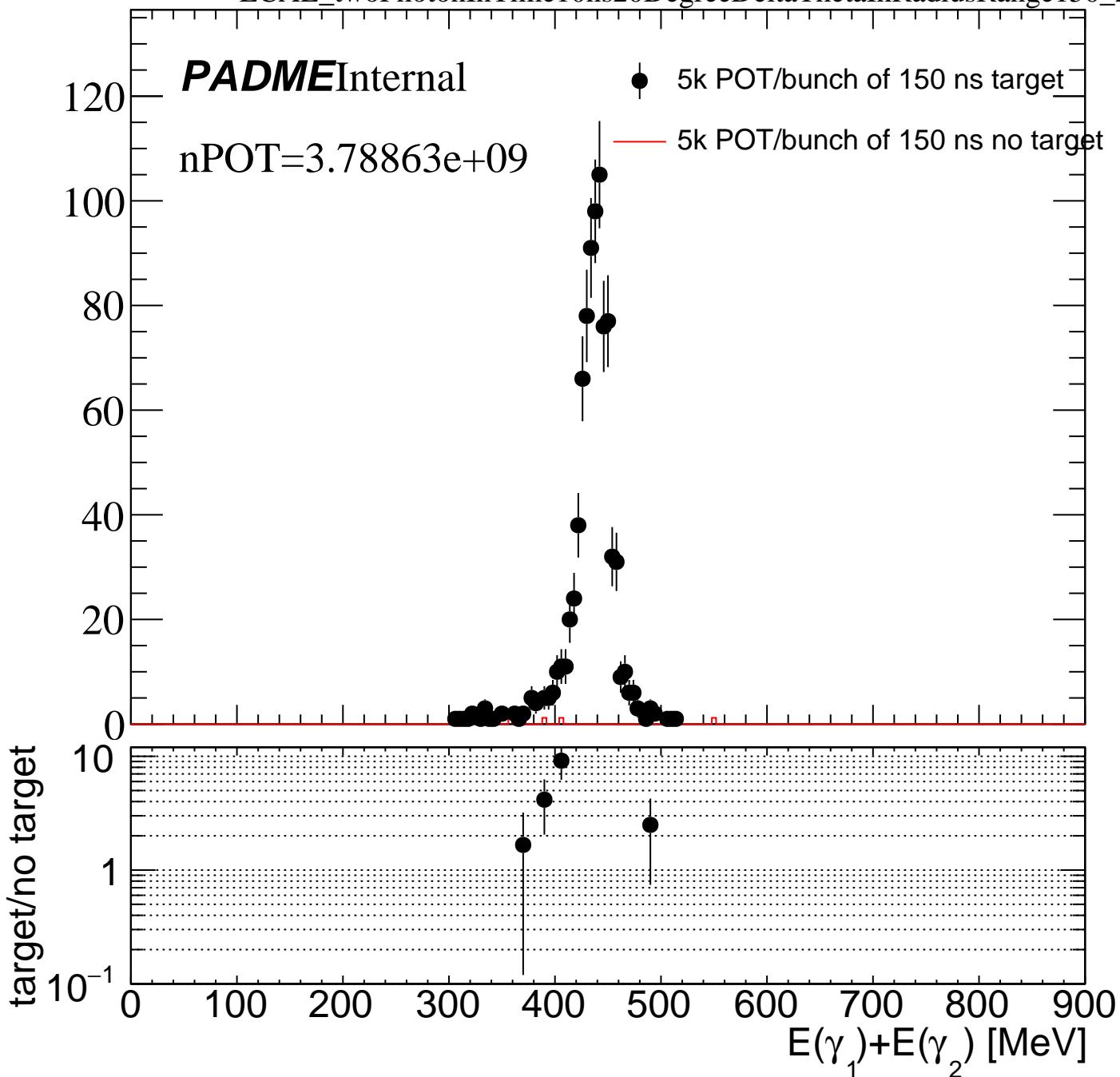




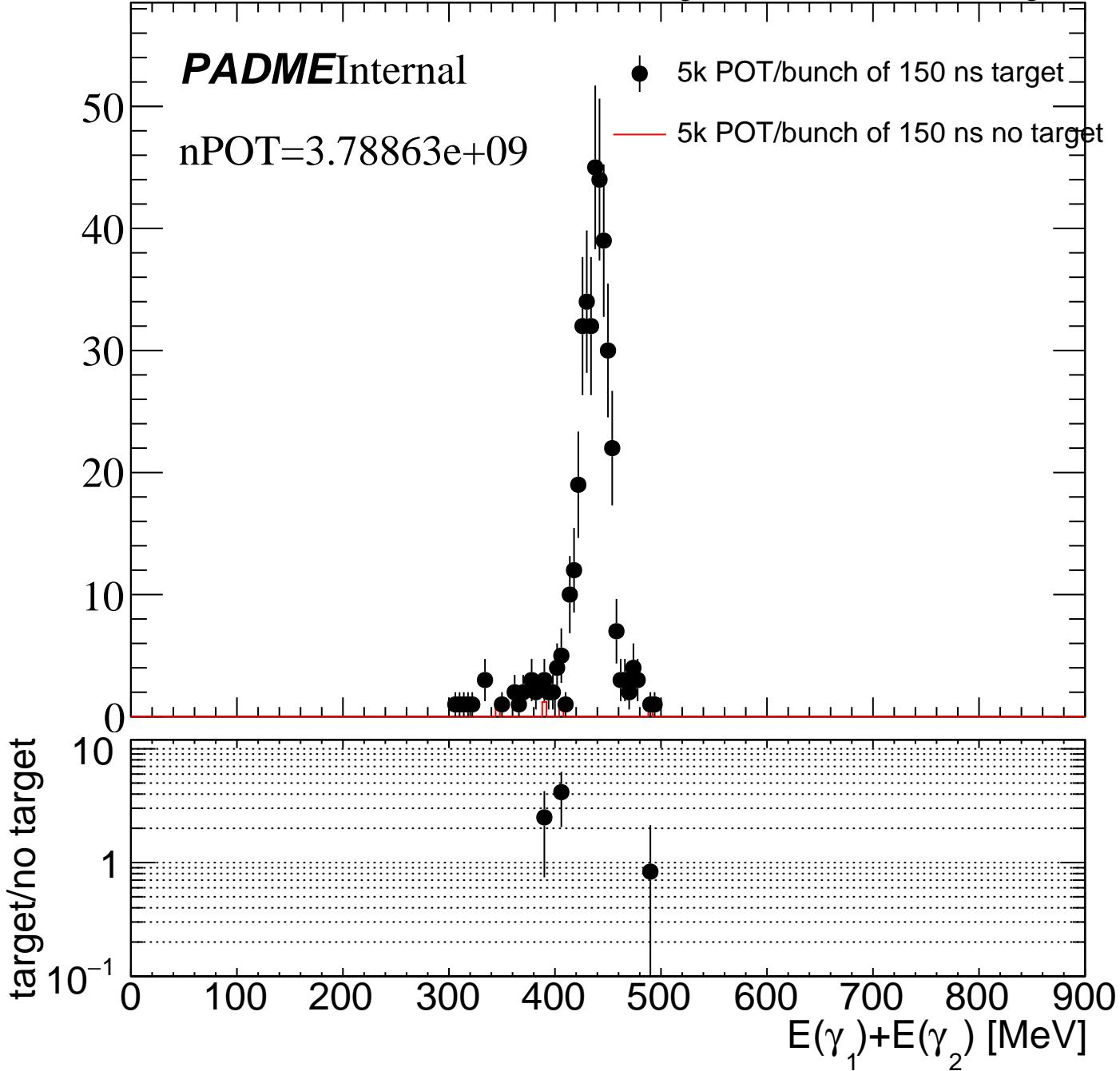


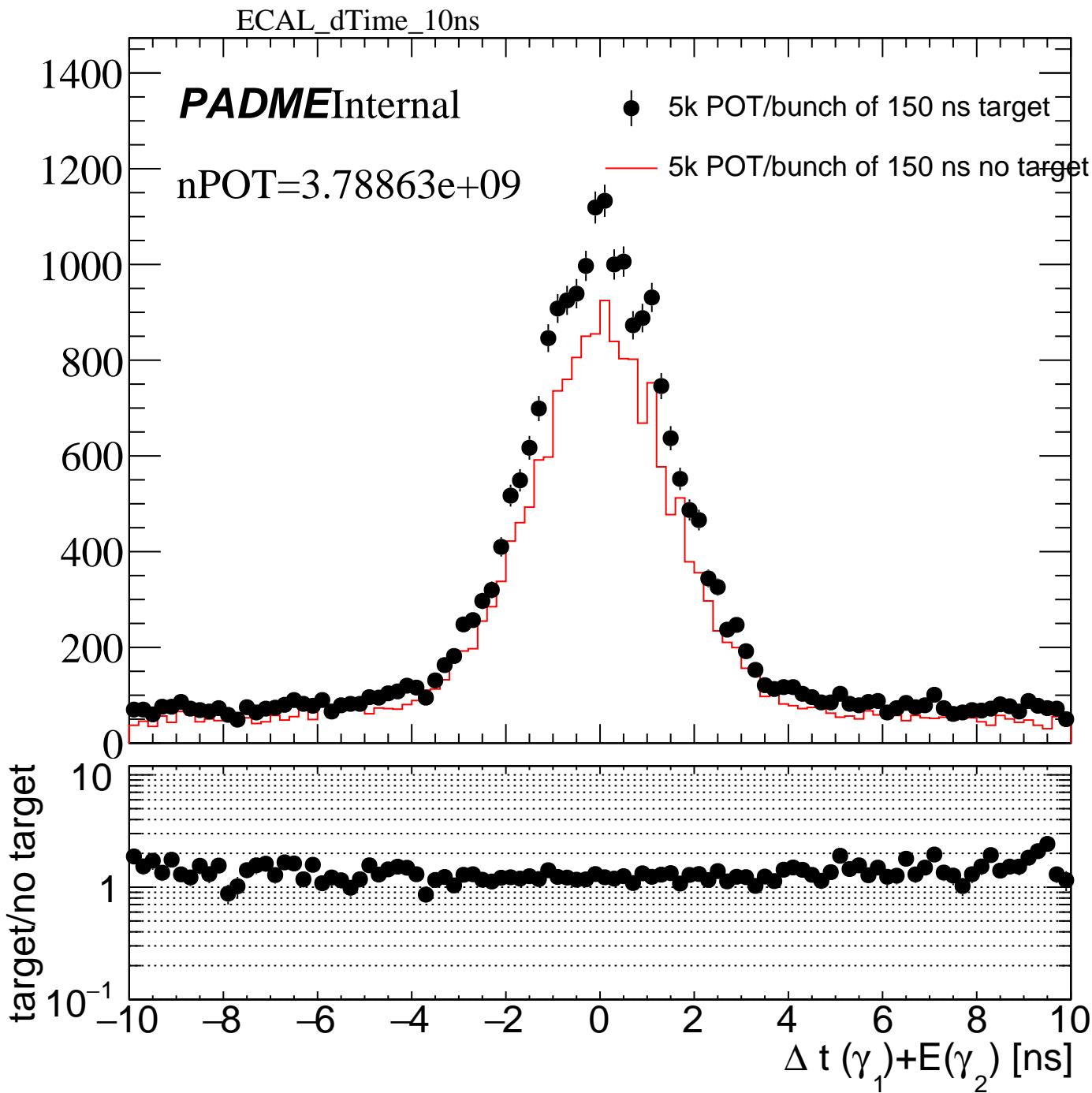


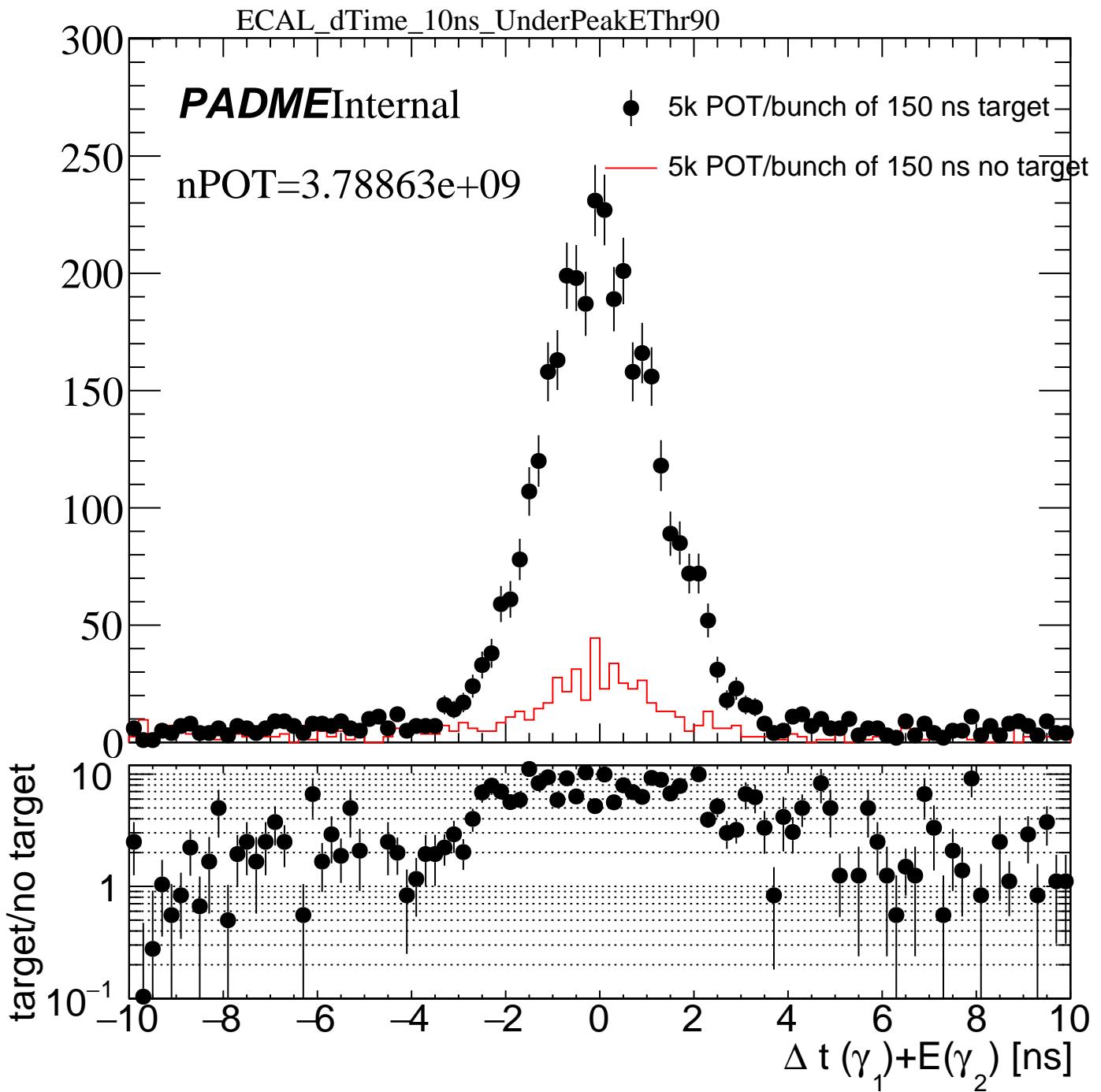




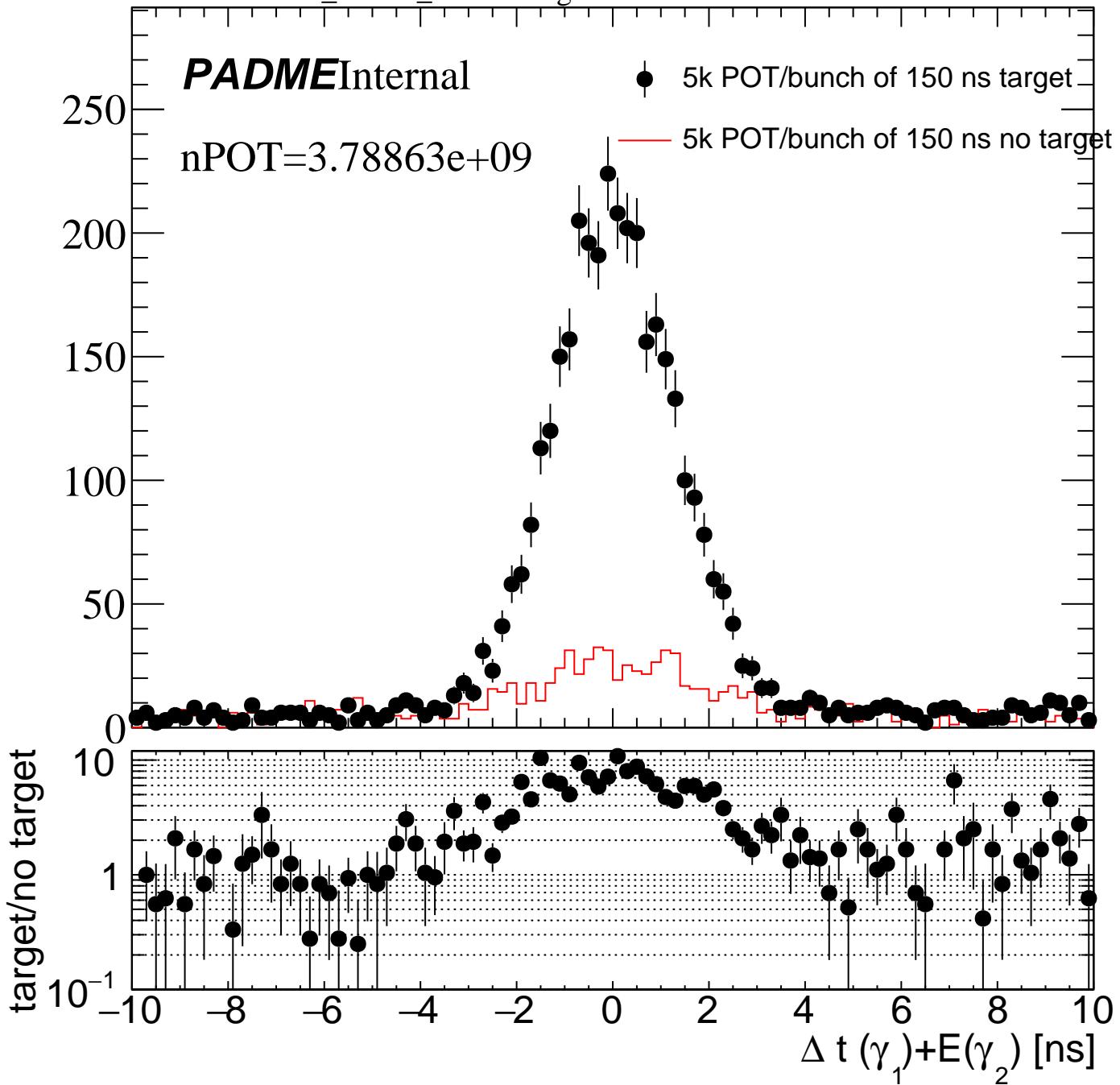
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160\_28



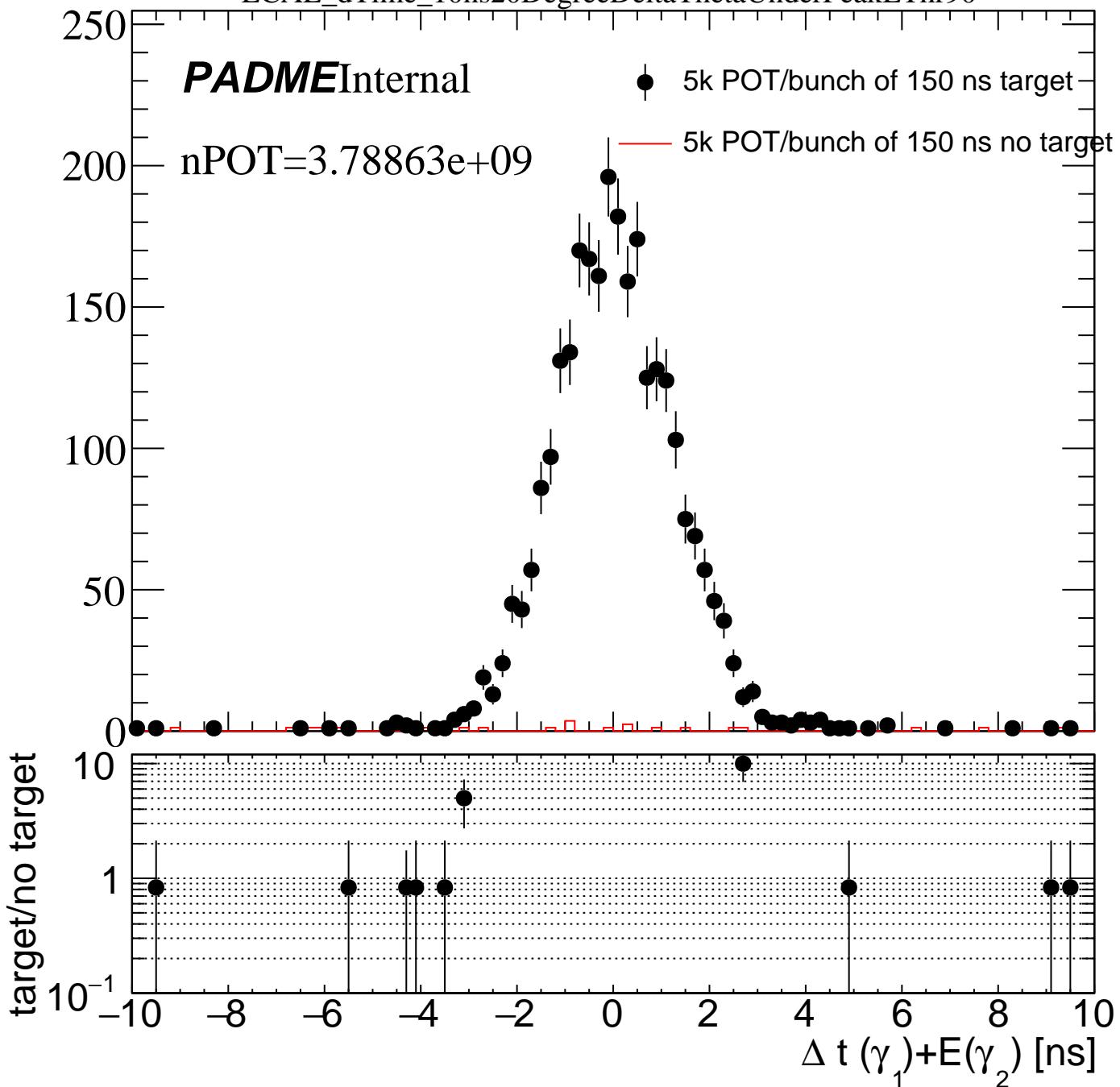


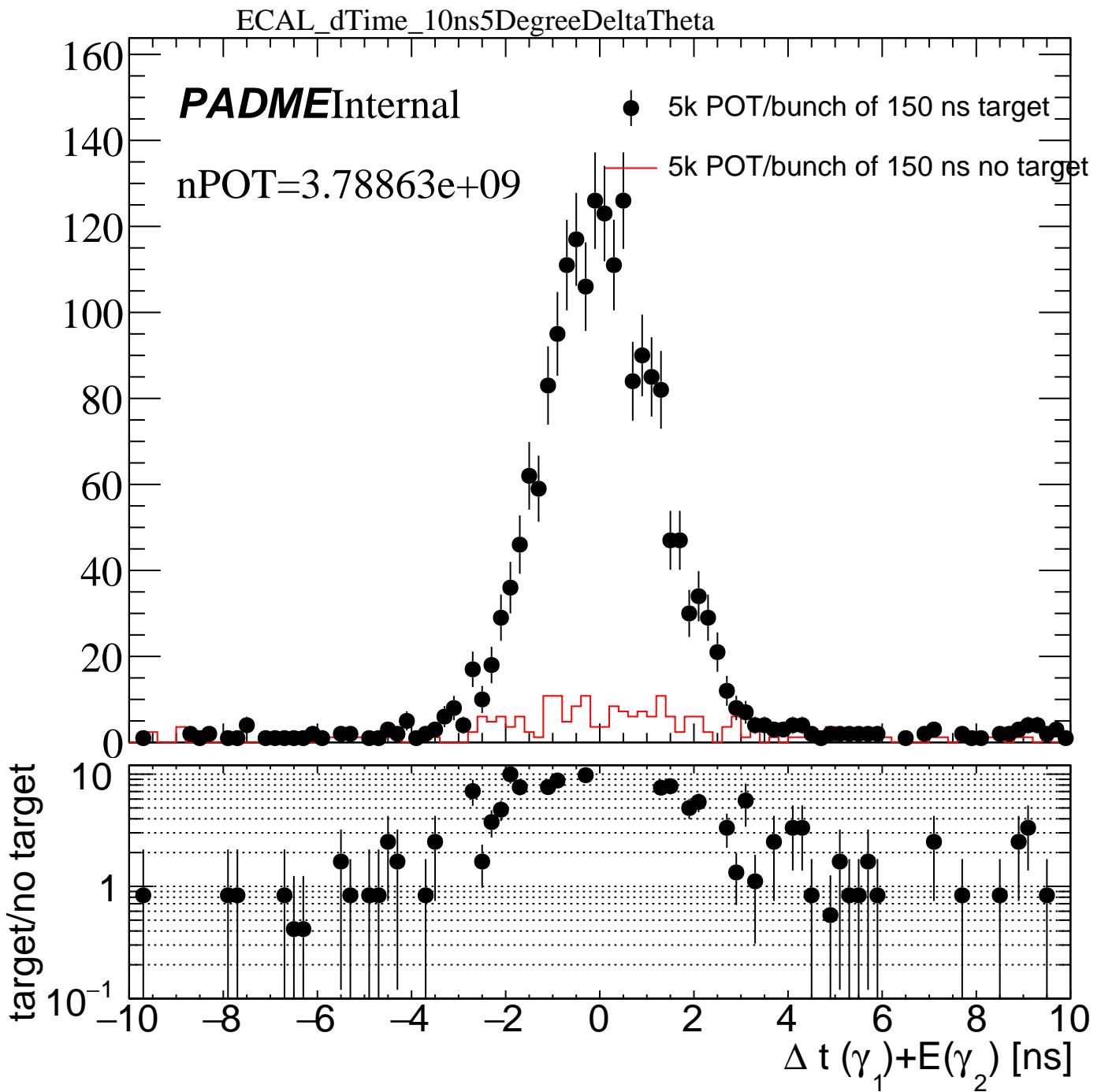


ECAL\_dTime\_10ns20DegreeDeltaTheta

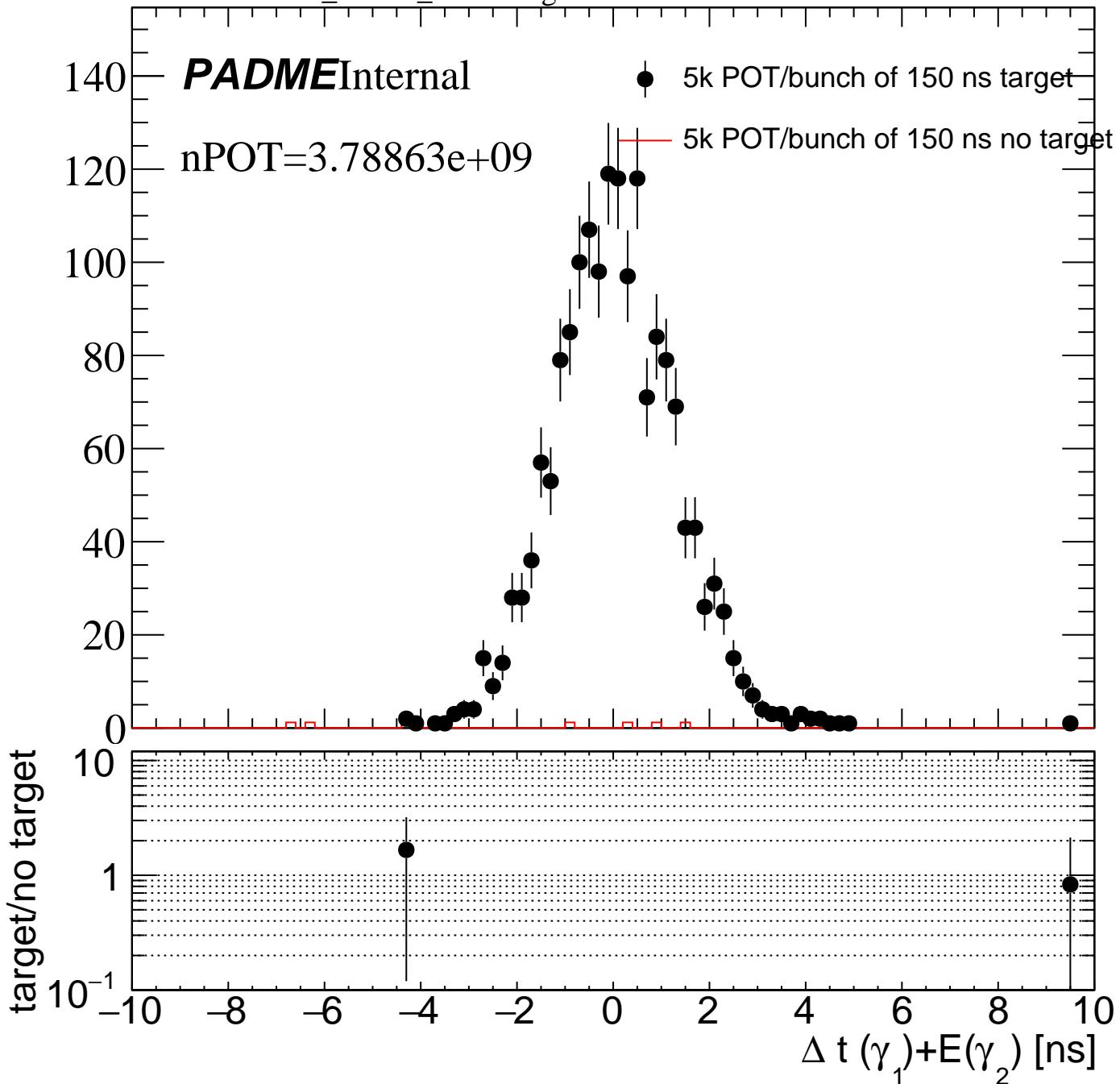


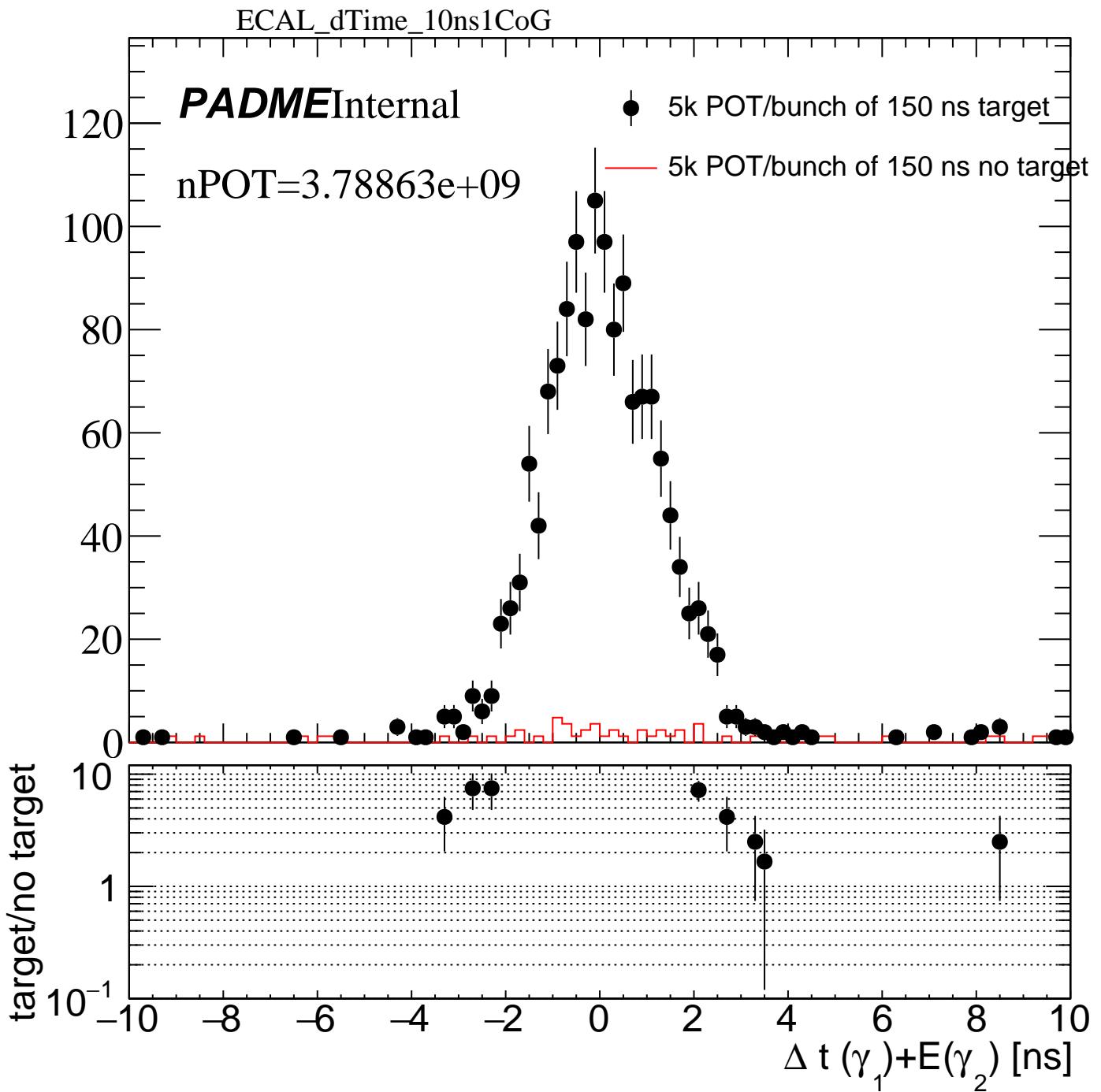
ECAL\_dTime\_10ns20DegreeDeltaThetaUnderPeakEThr90



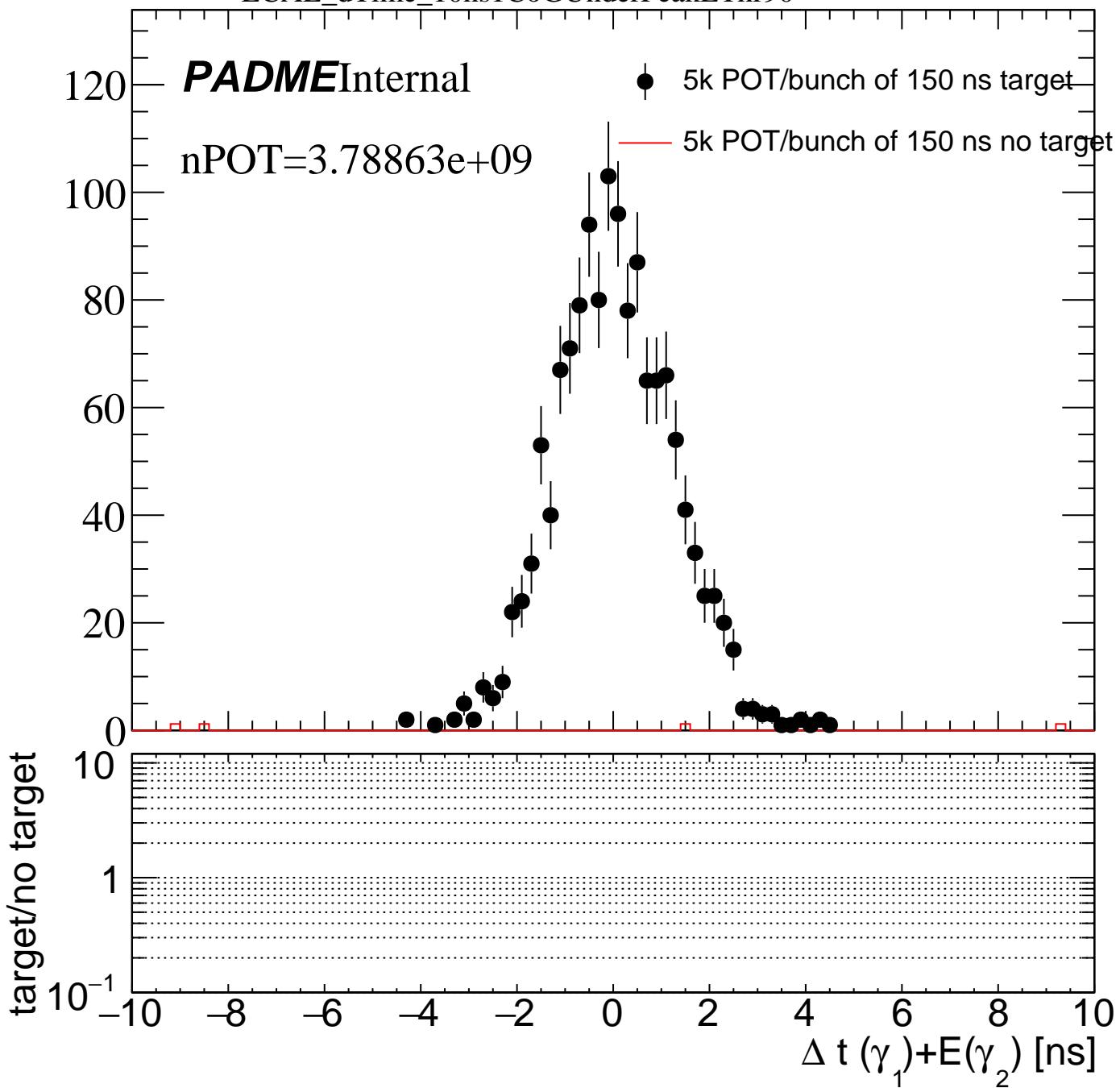


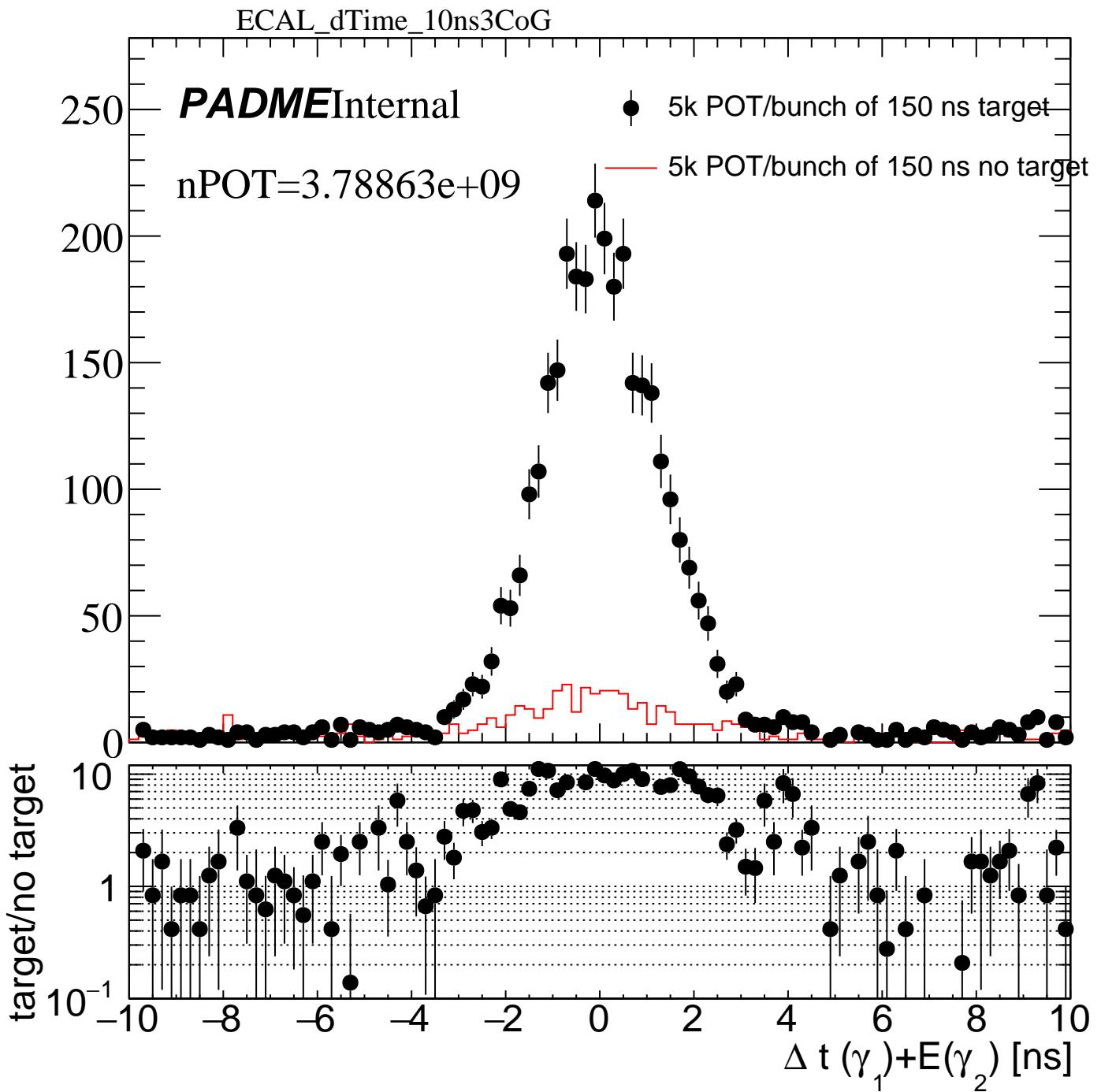
ECAL\_dTime\_10ns5DegreeDeltaThetaUnderPeakEThr90

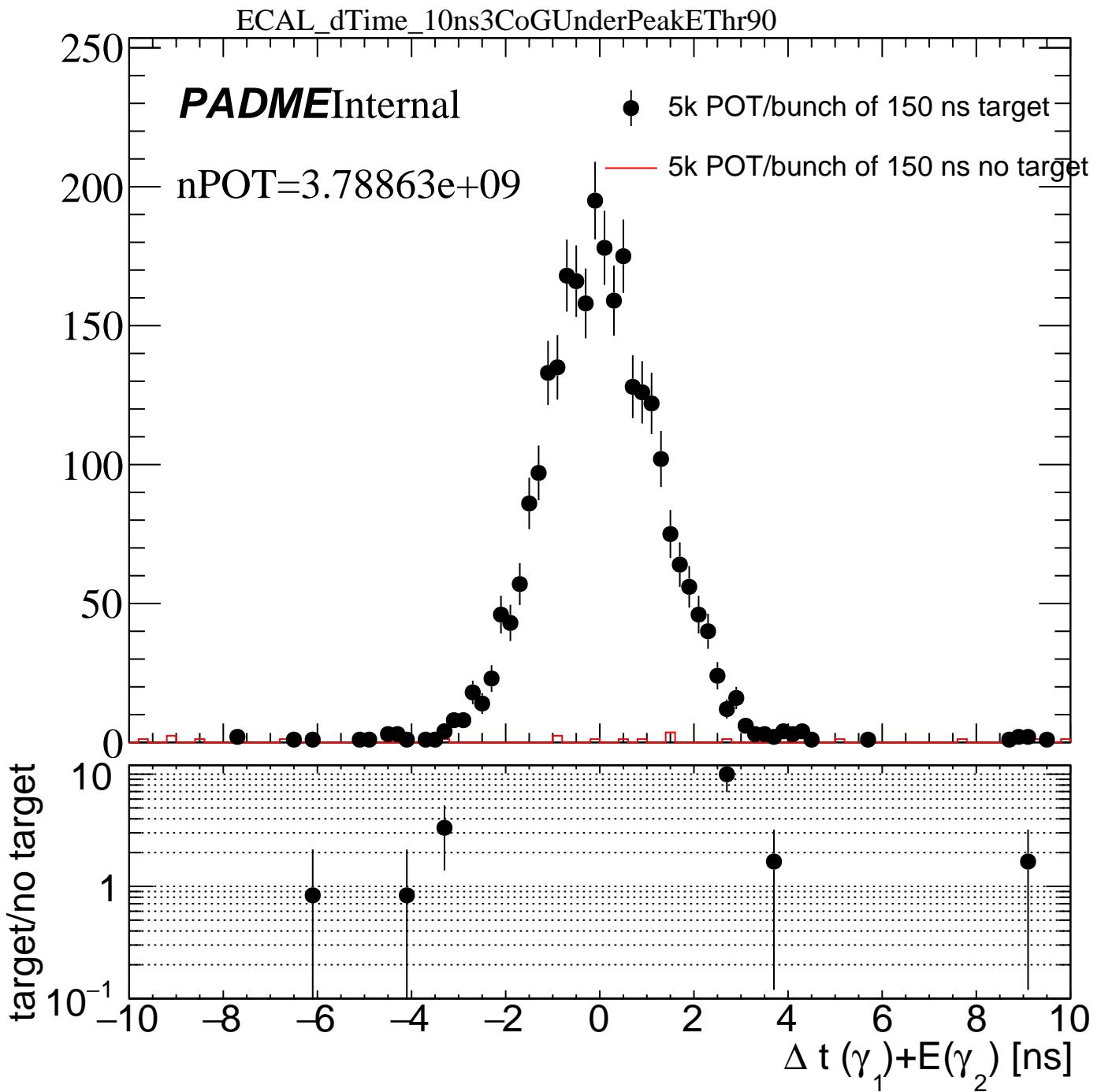




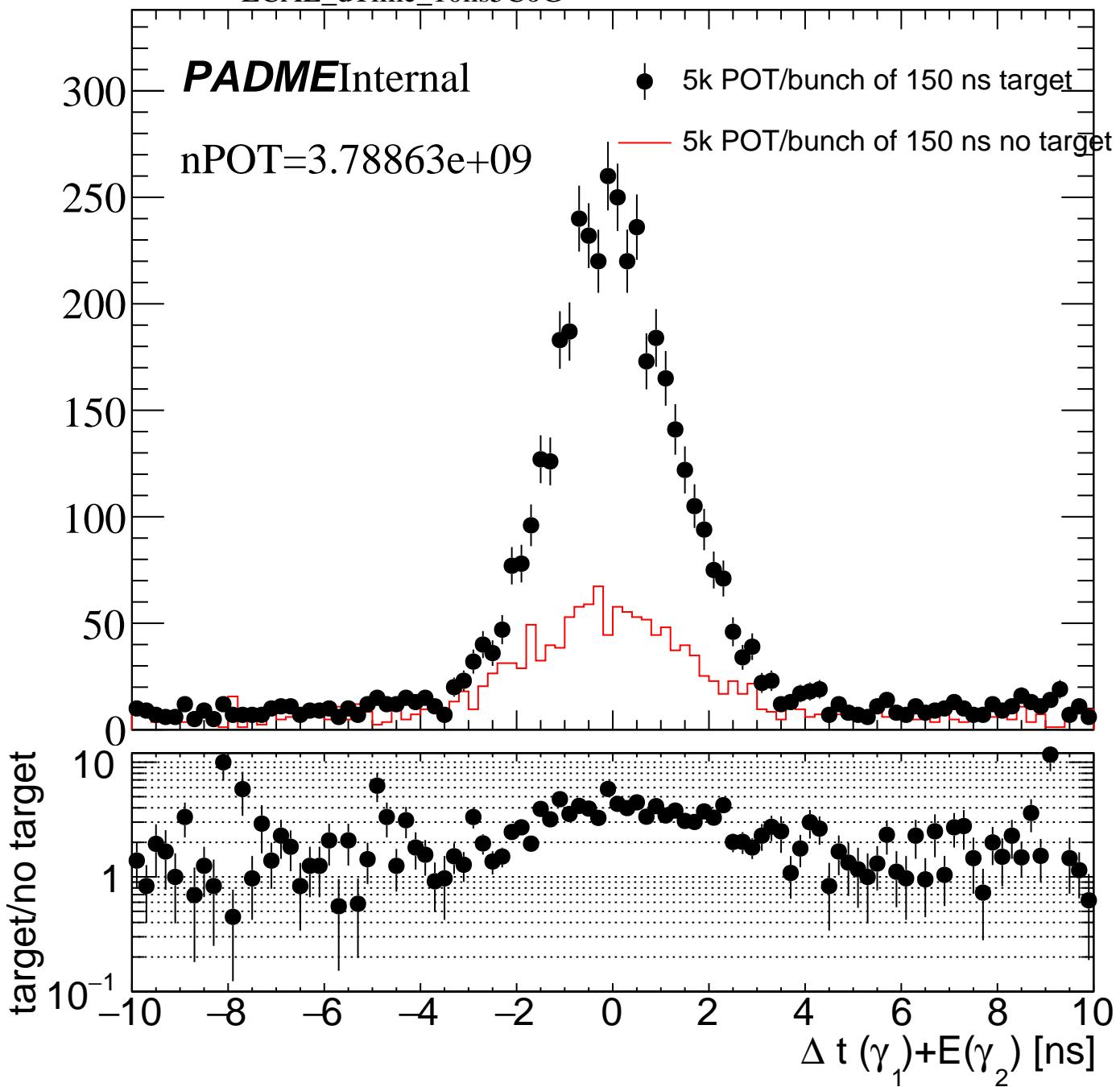
ECAL\_dTime\_10ns1CoGUnderPeakEThr90



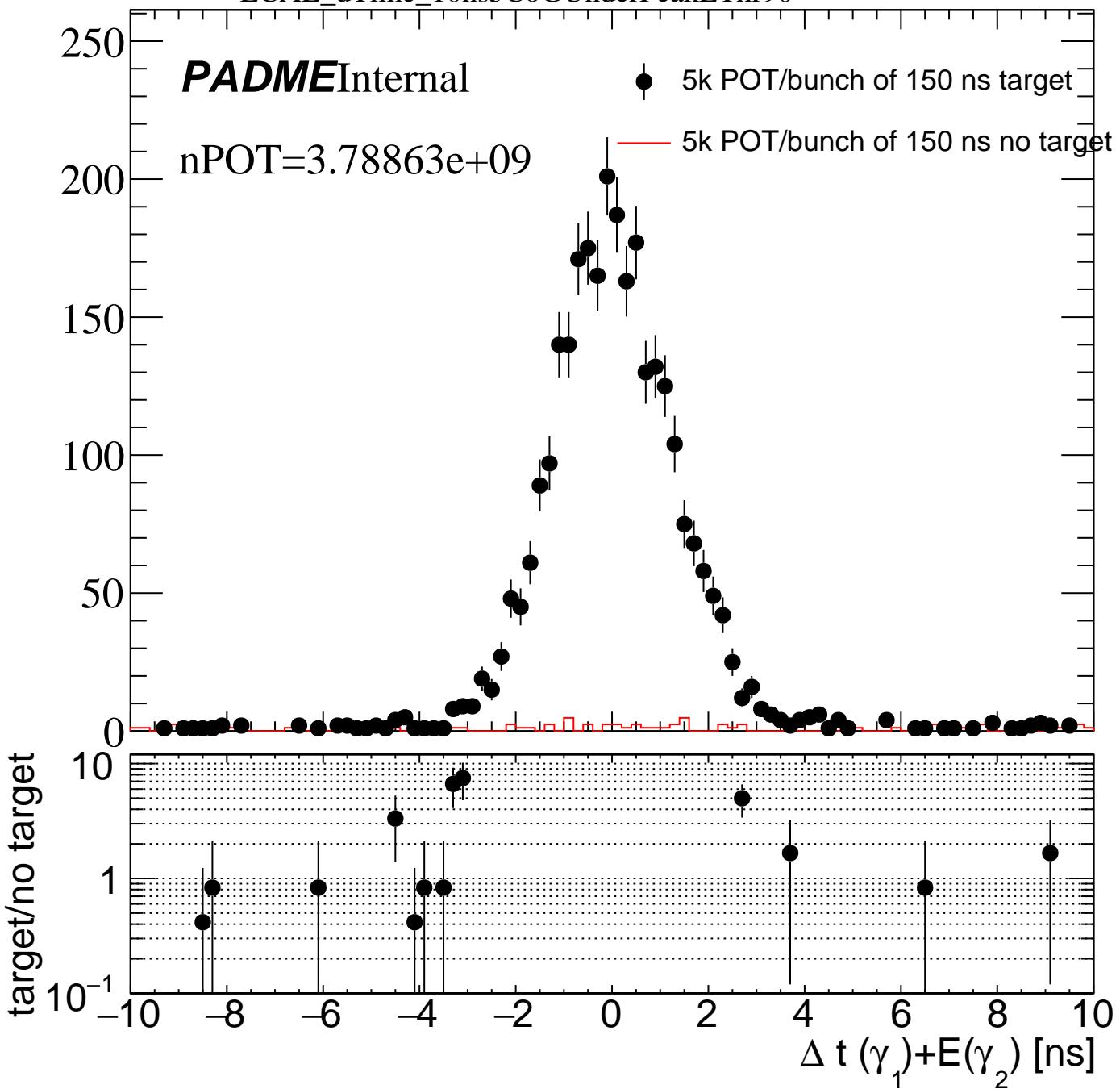




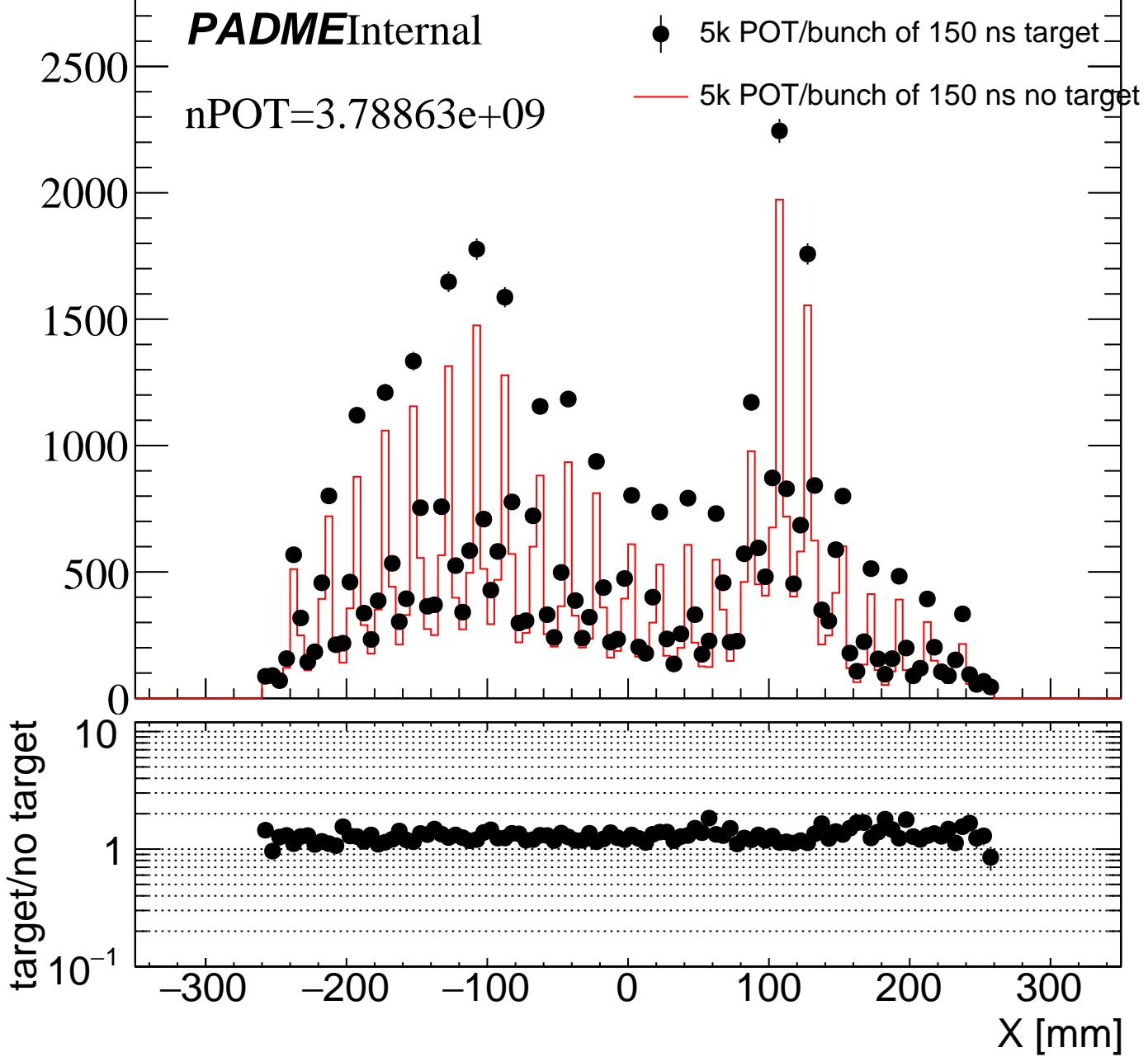
ECAL\_dTime\_10ns5CoG



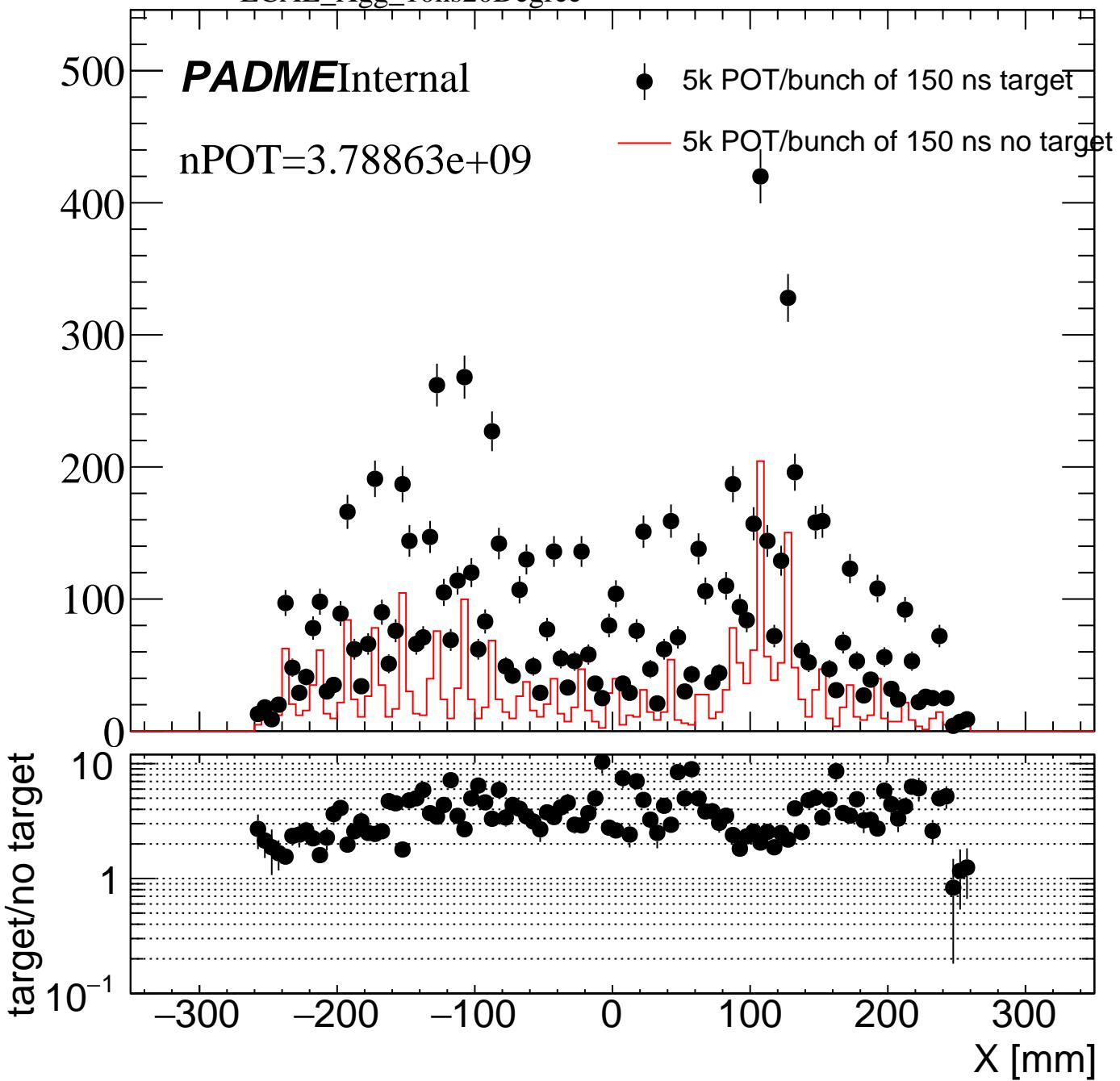
ECAL\_dTime\_10ns5CoGUnderPeakEThr90



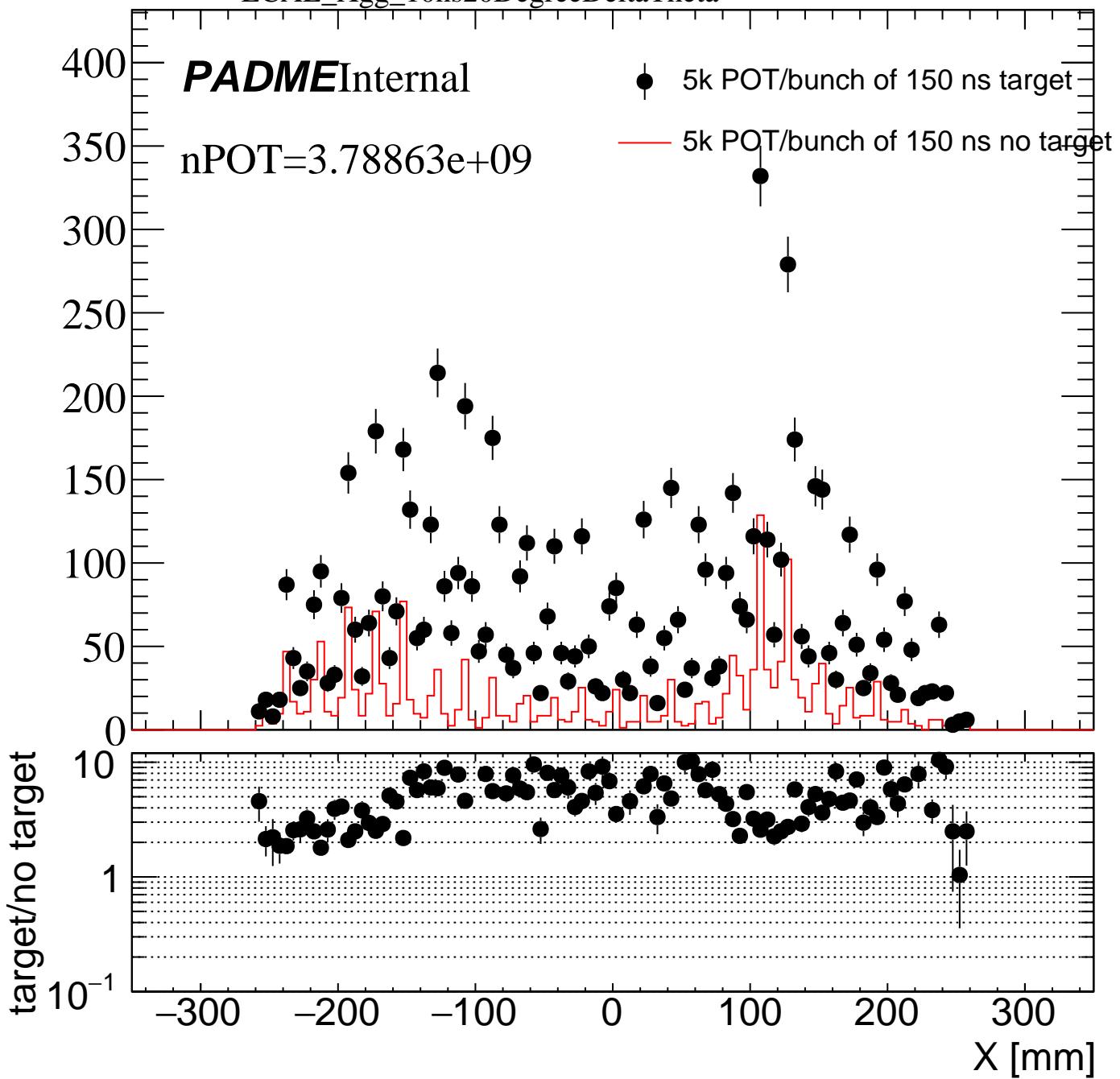
ECAL\_Xgg\_10ns

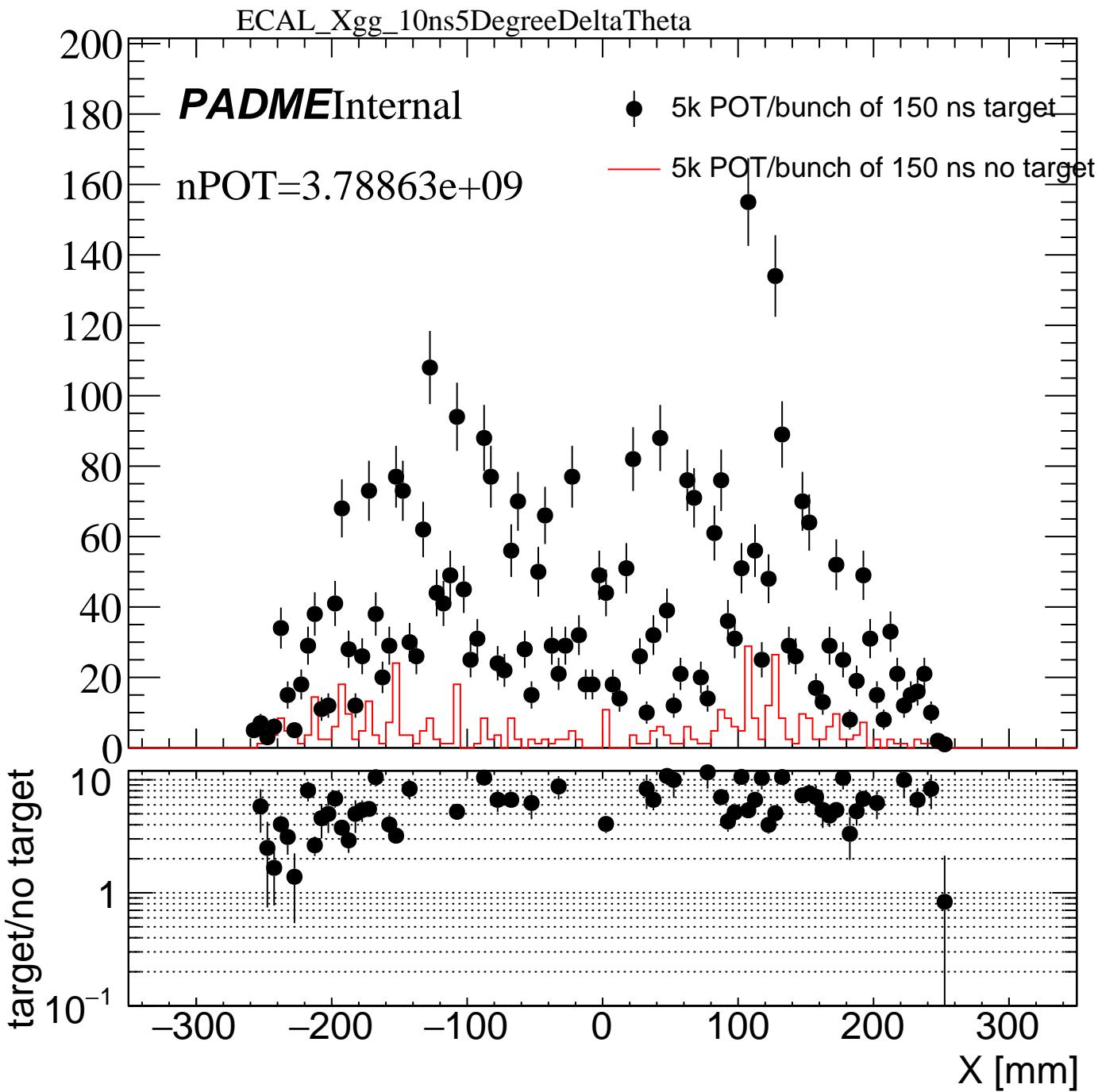


ECAL\_Xgg\_10ns20Degree

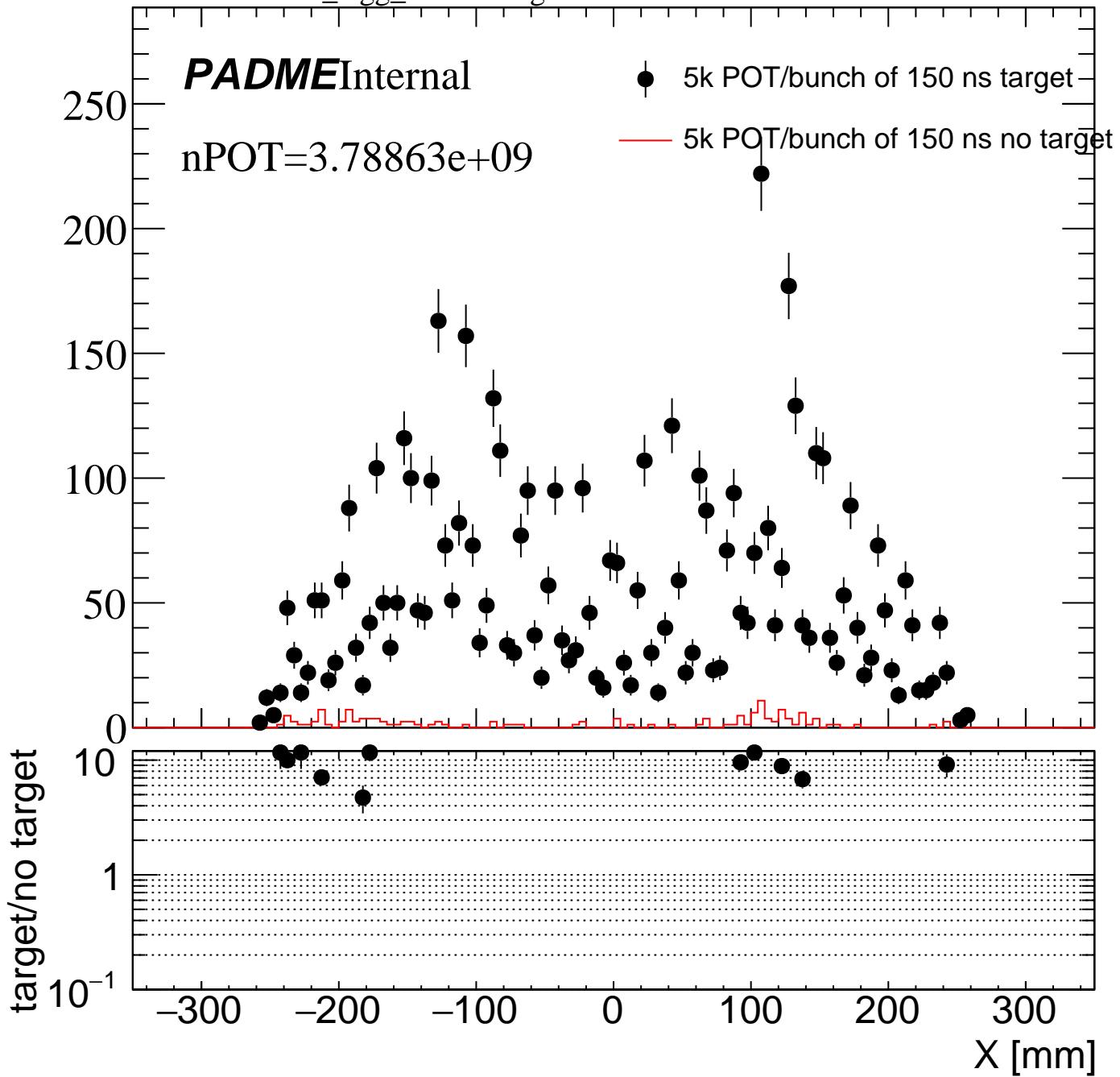


ECAL\_Xgg\_10ns20DegreeDeltaTheta

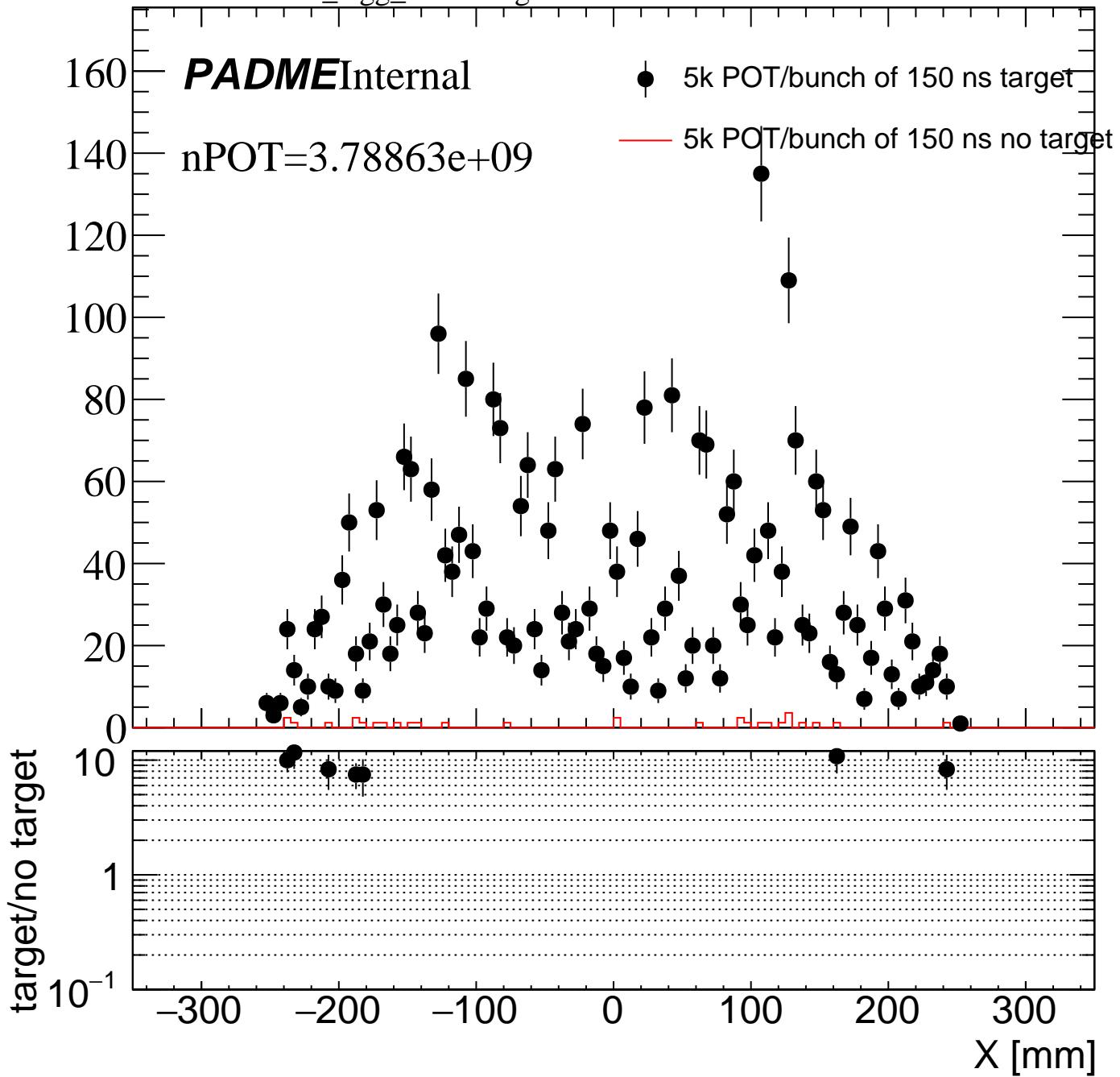




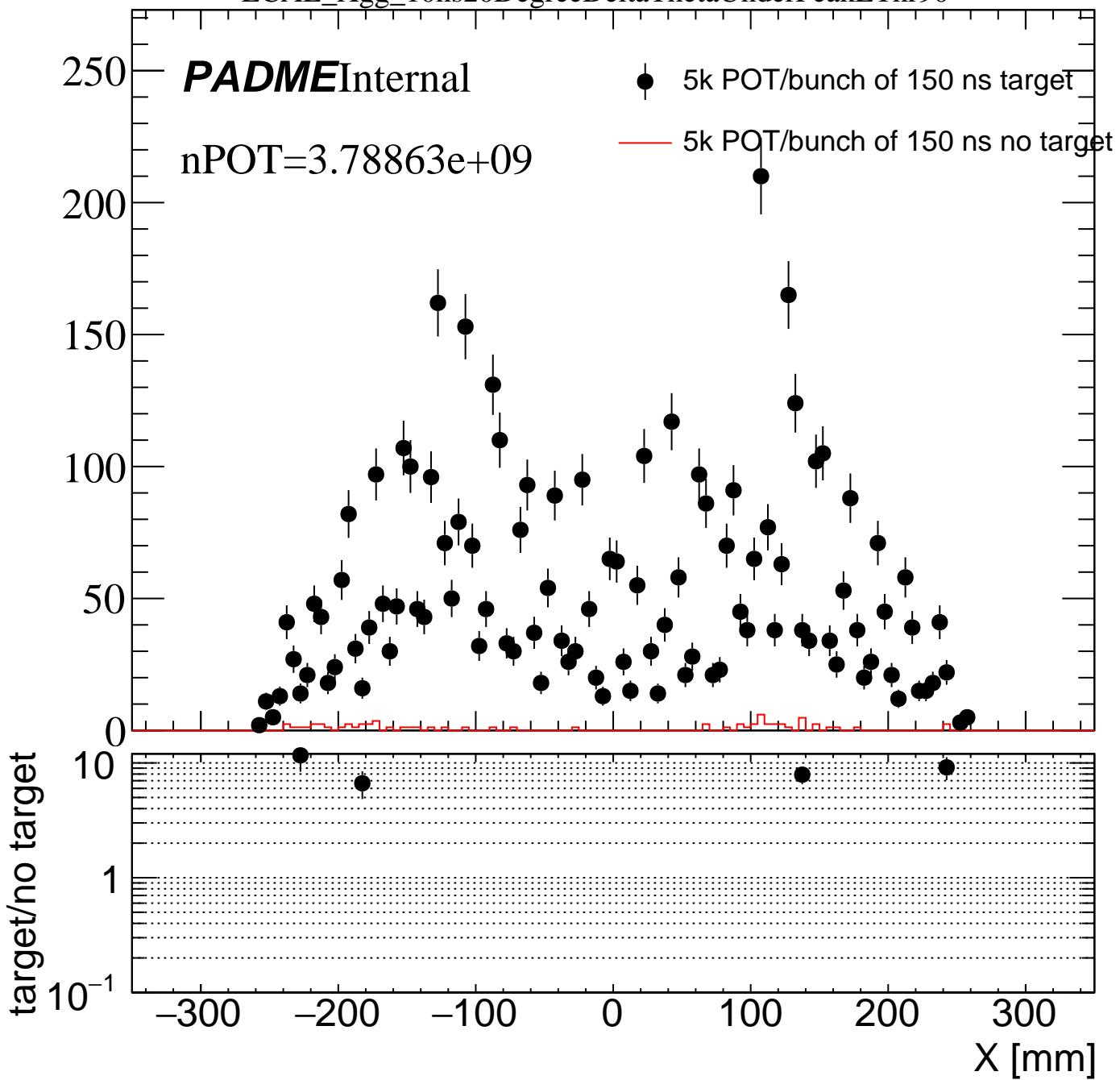
ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeak



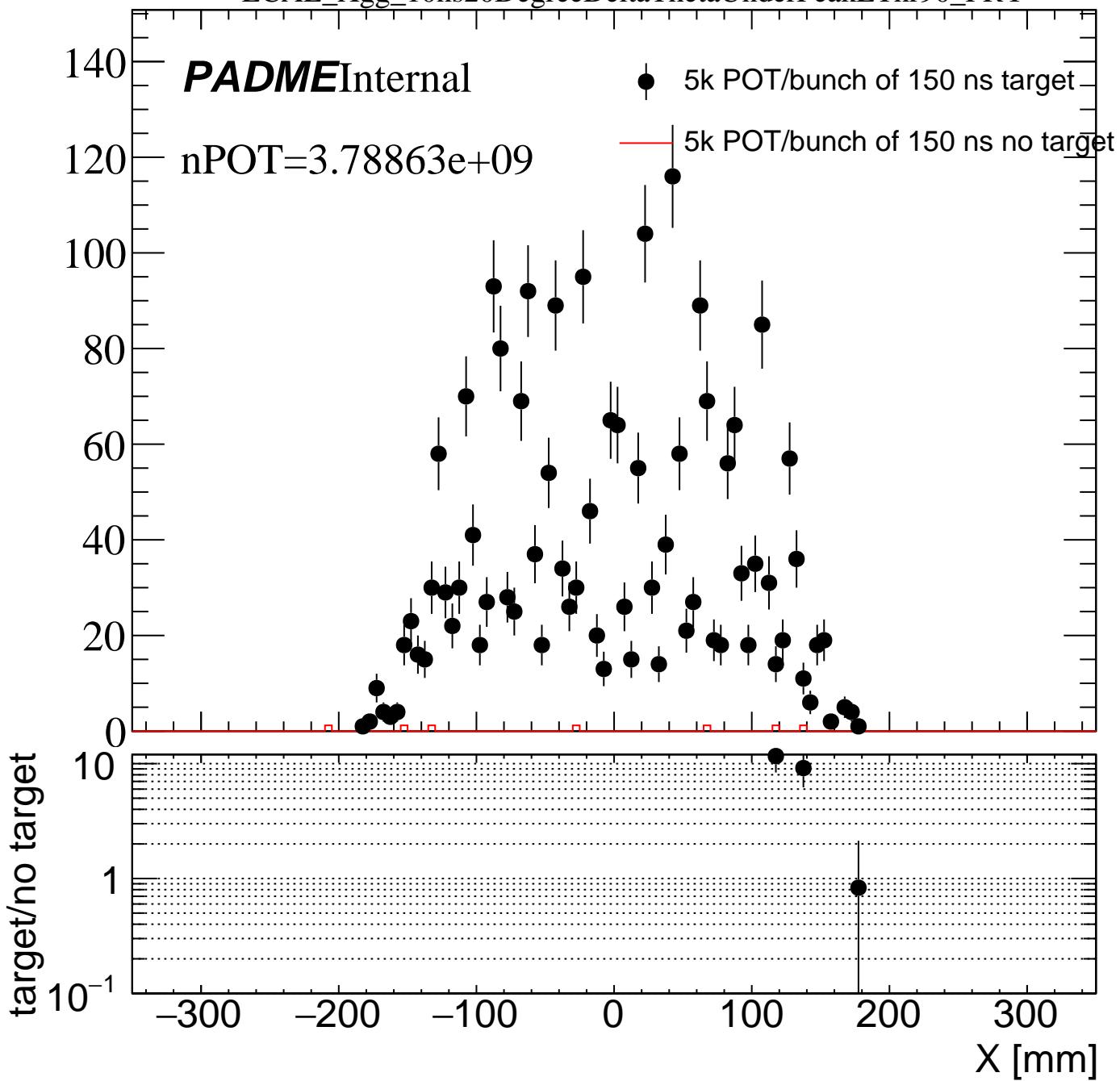
ECAL\_Xgg\_10ns5DegreeDeltaThetaUnderPeak



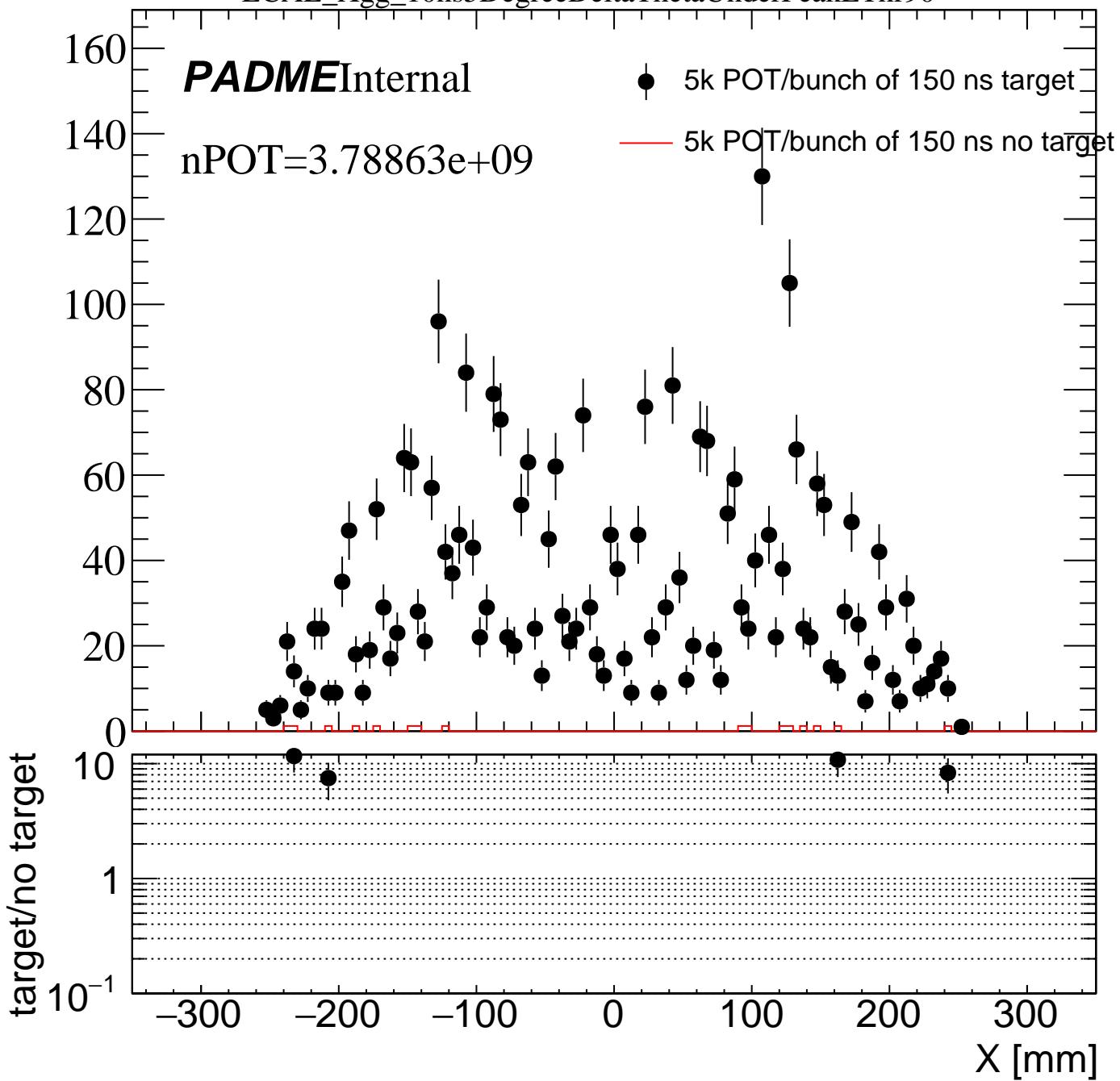
ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeakEThr90



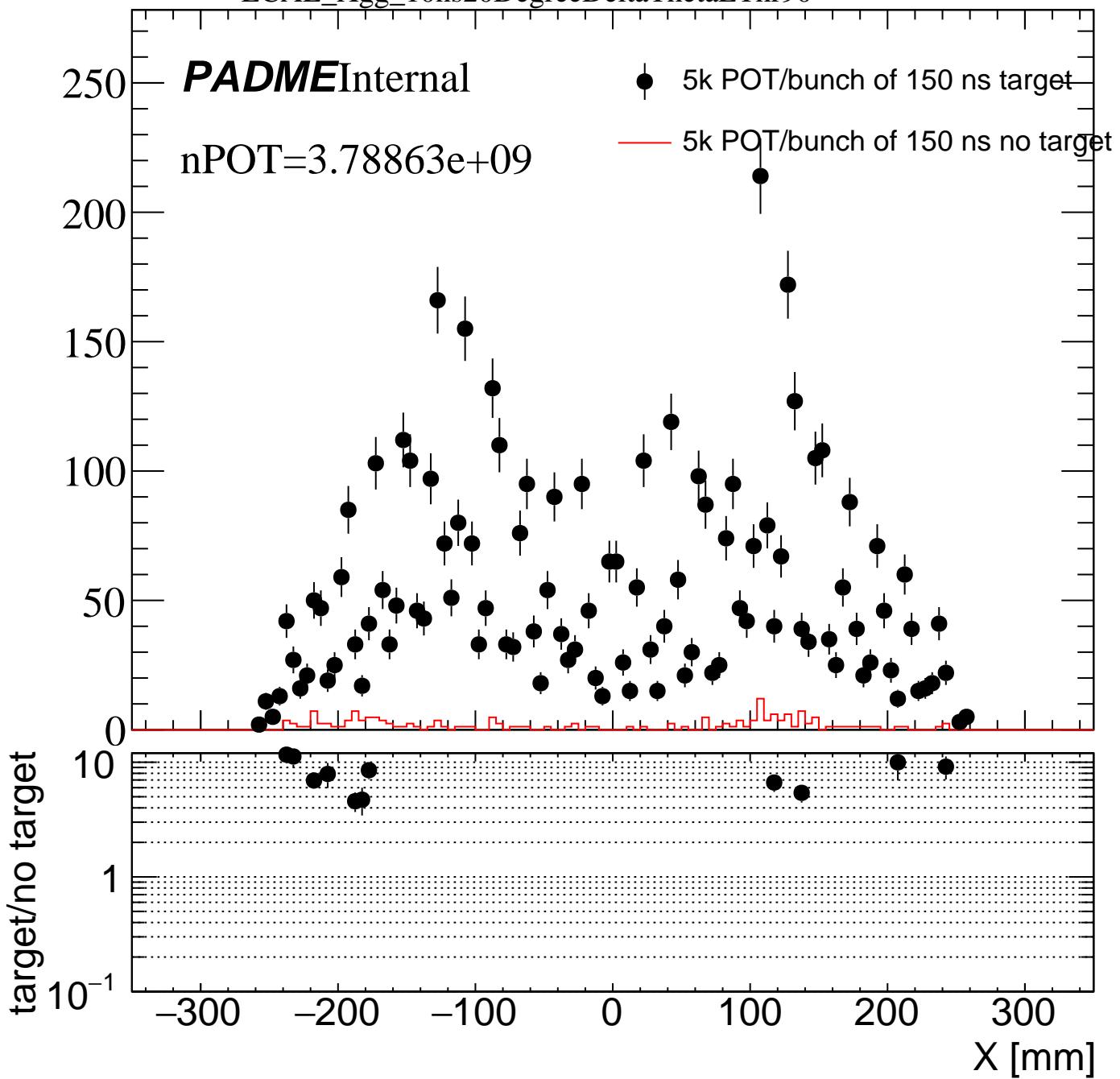
ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY



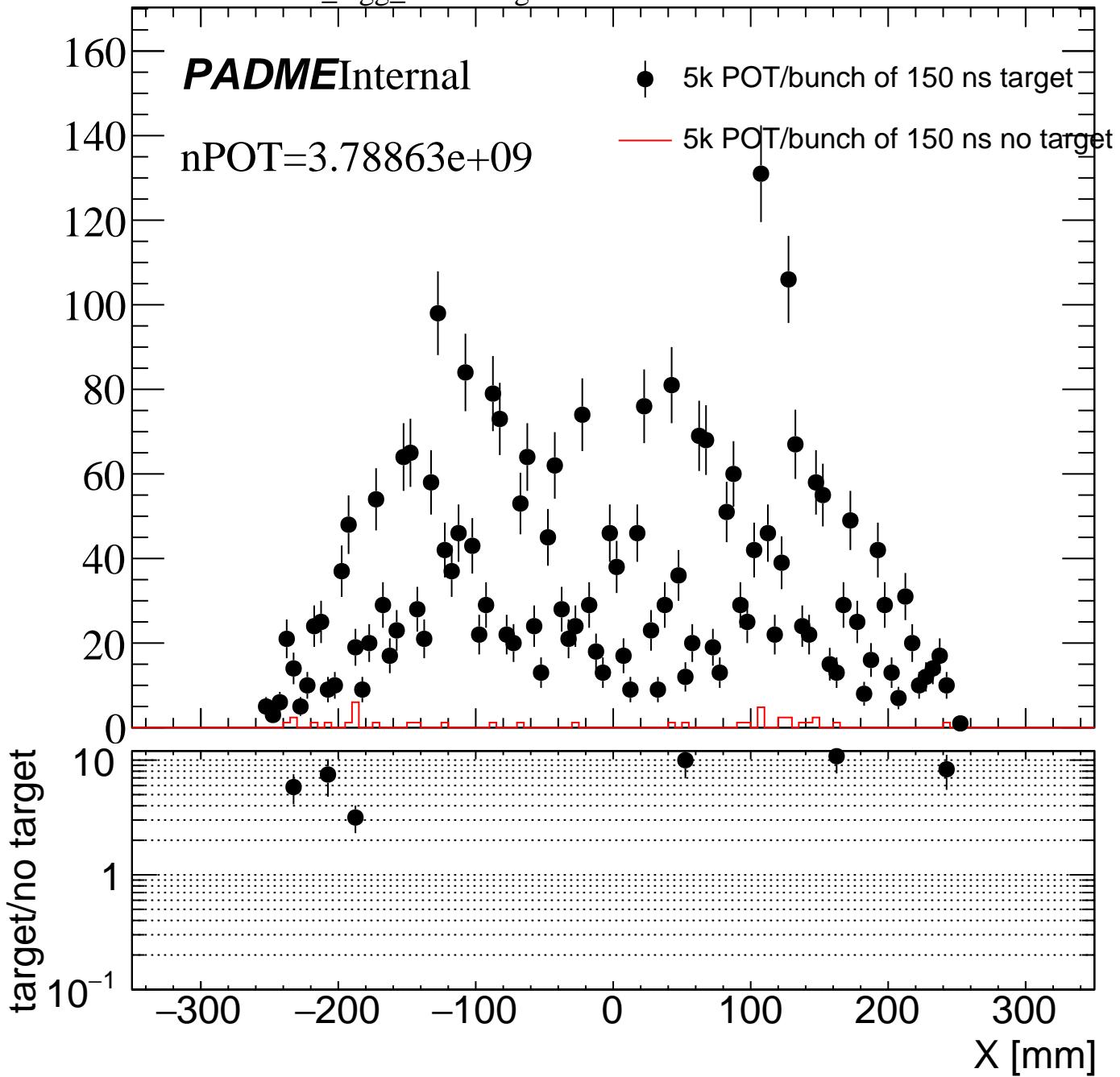
ECAL\_Xgg\_10ns5DegreeDeltaThetaUnderPeakEThr90

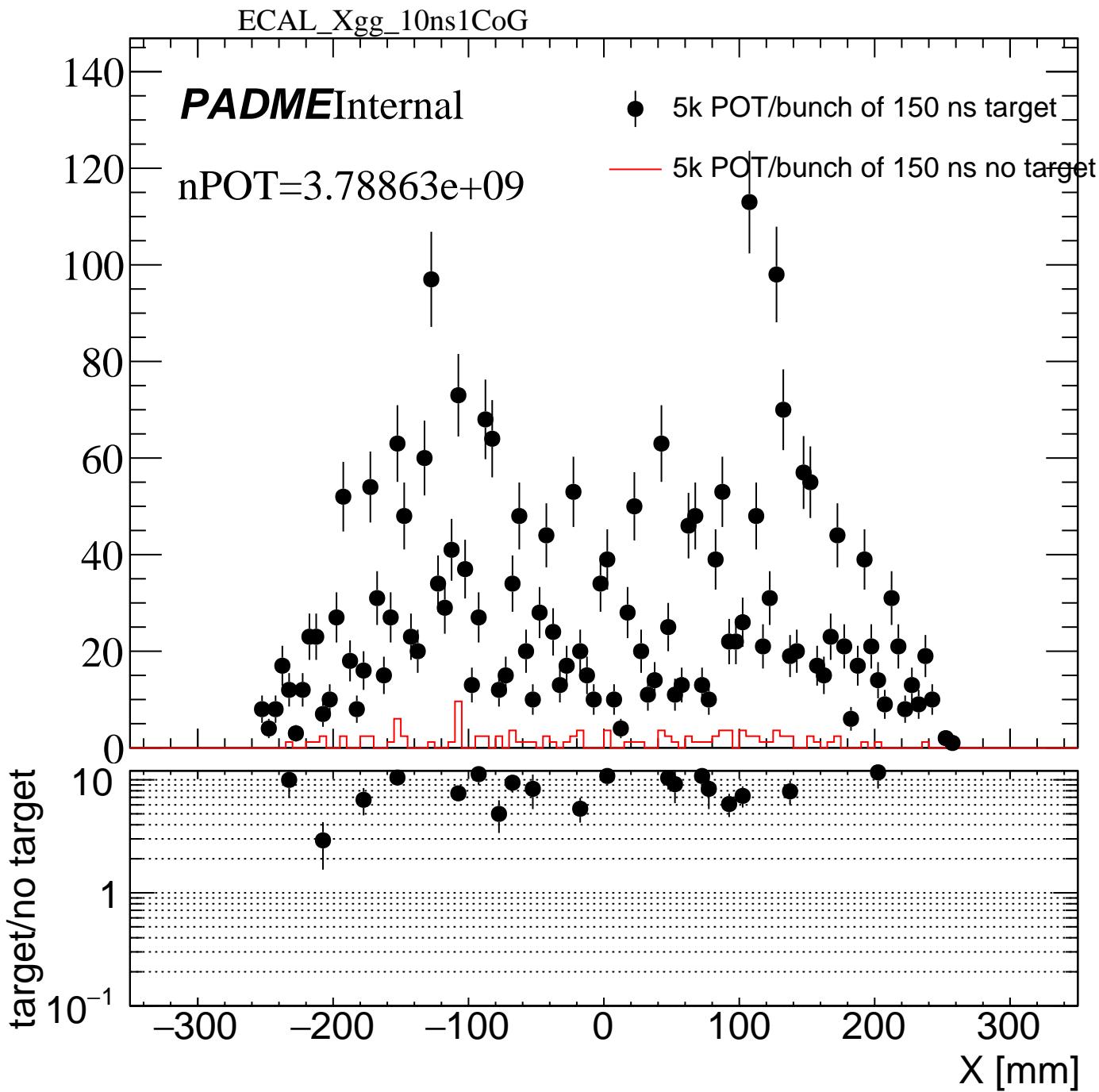


ECAL\_Xgg\_10ns20DegreeDeltaThetaEThr90

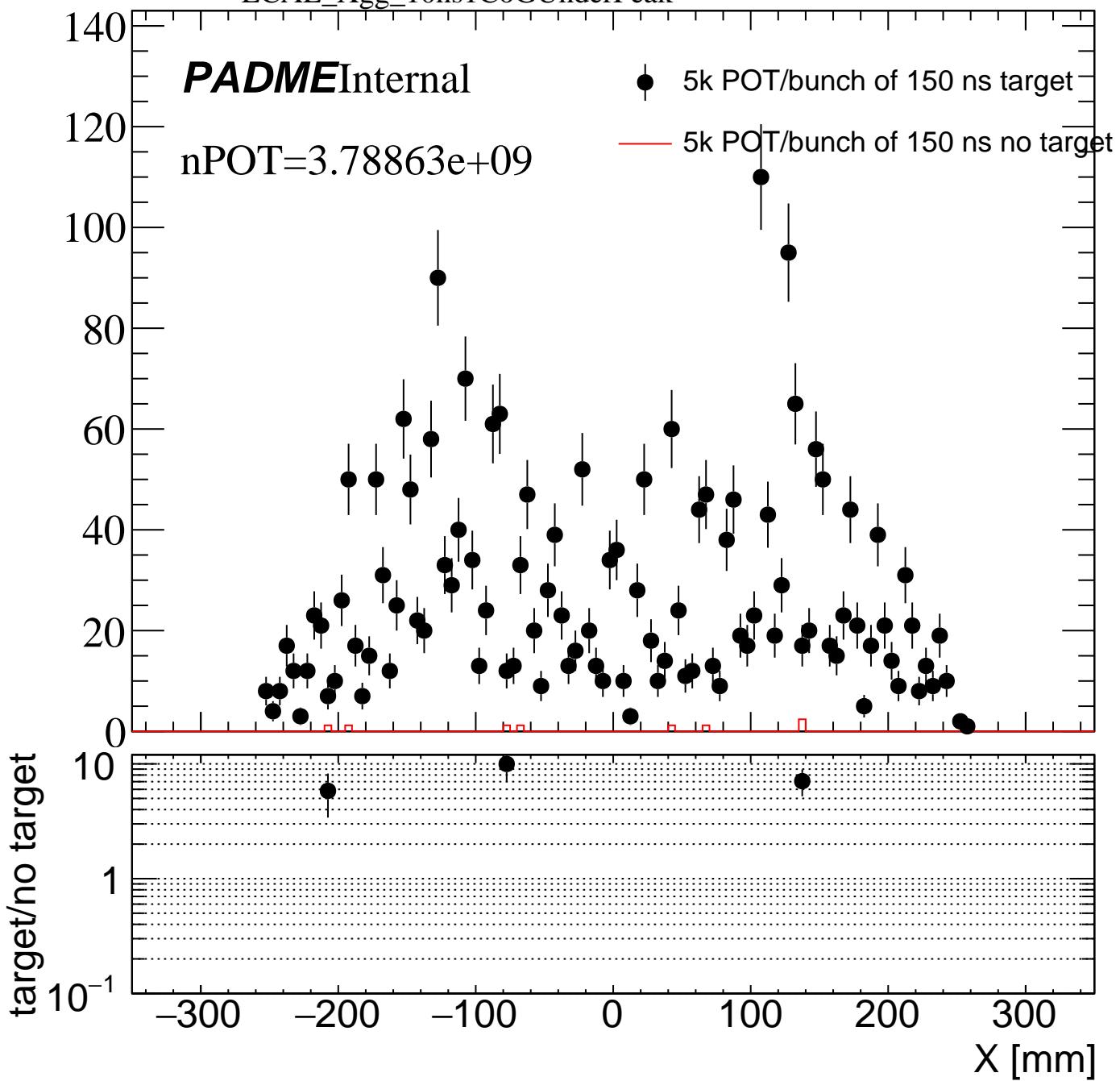


ECAL\_Xgg\_10ns5DegreeDeltaThetaEThr90

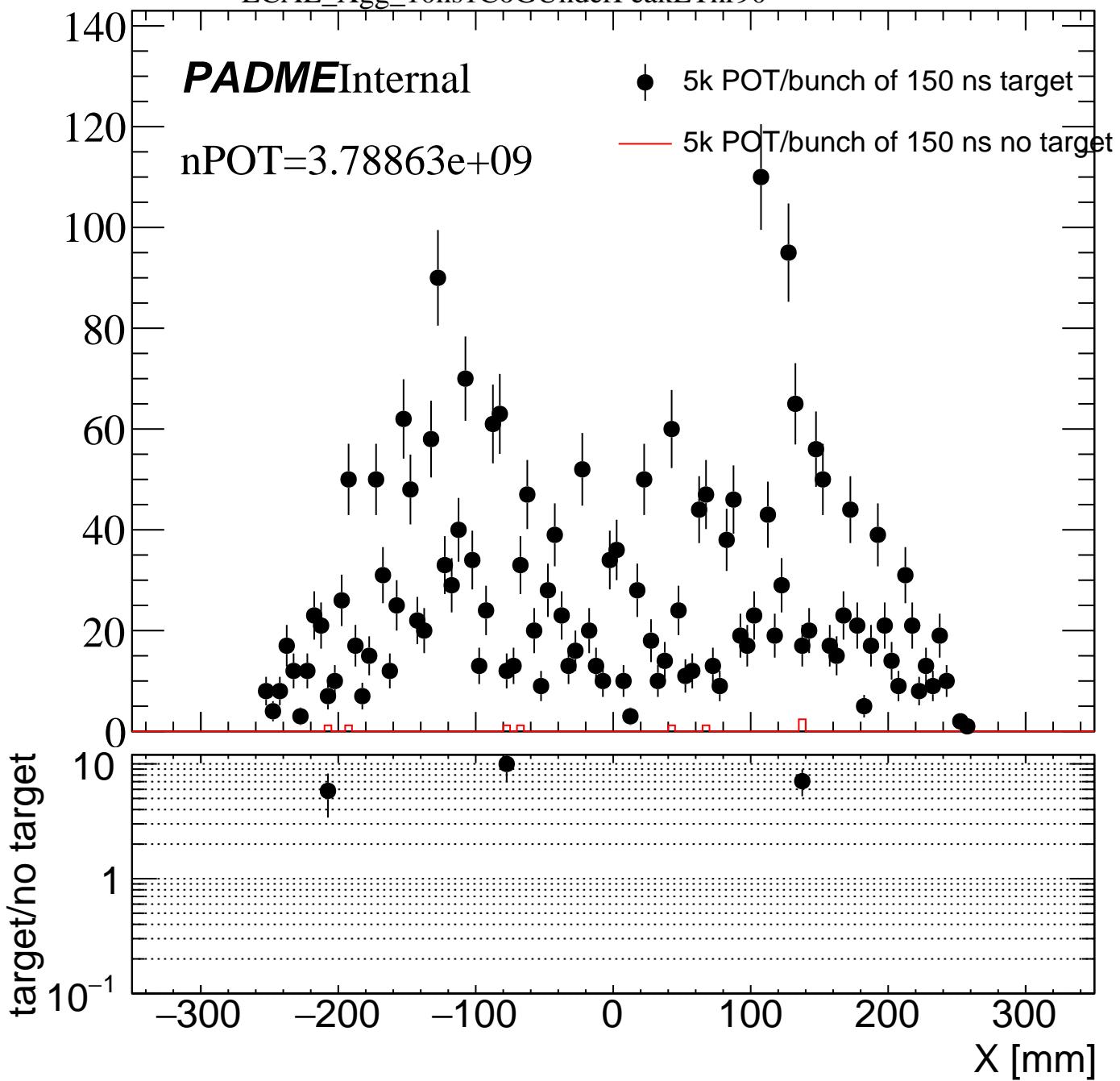




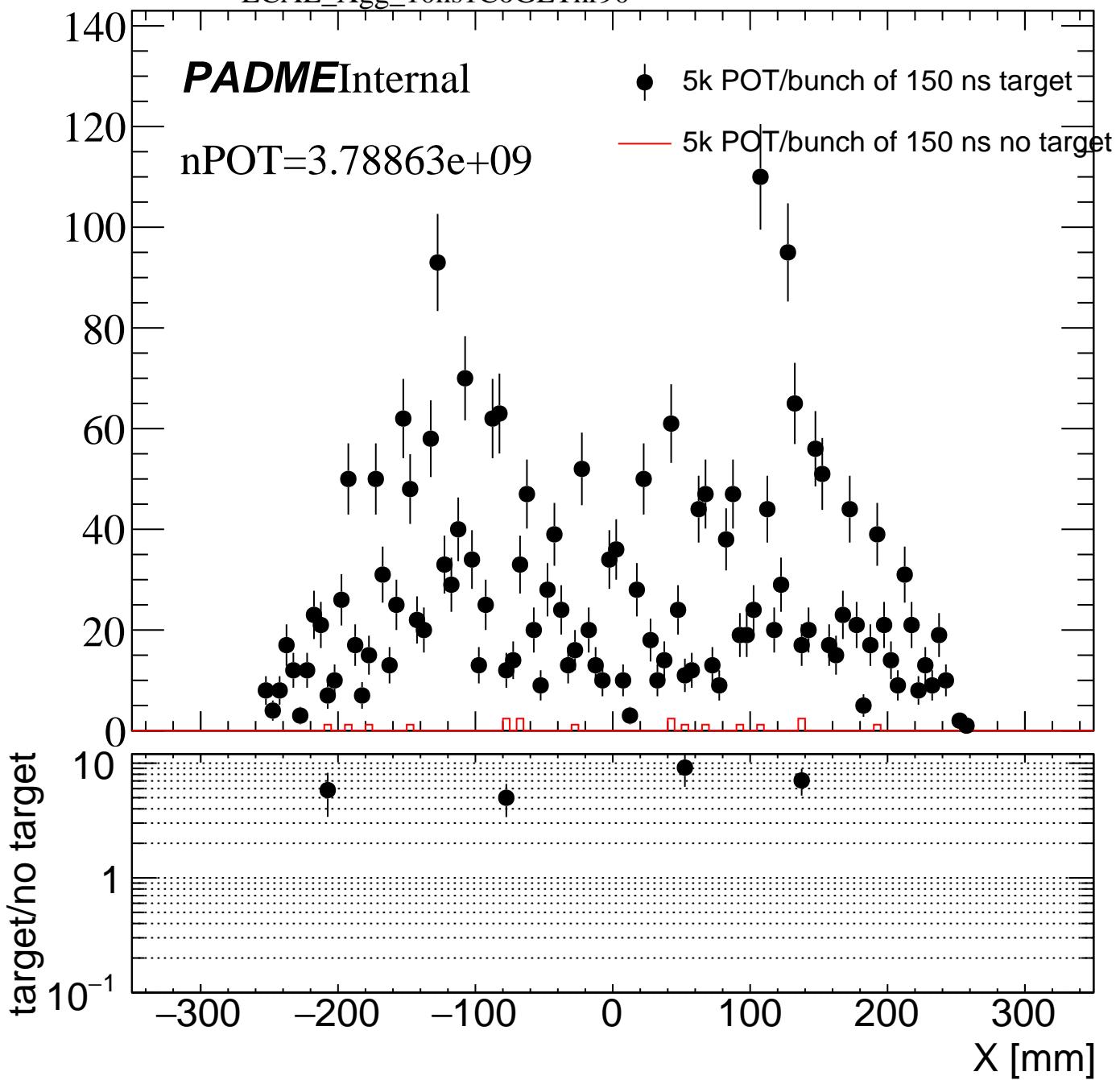
ECAL\_Xgg\_10ns1CoGUnderPeak

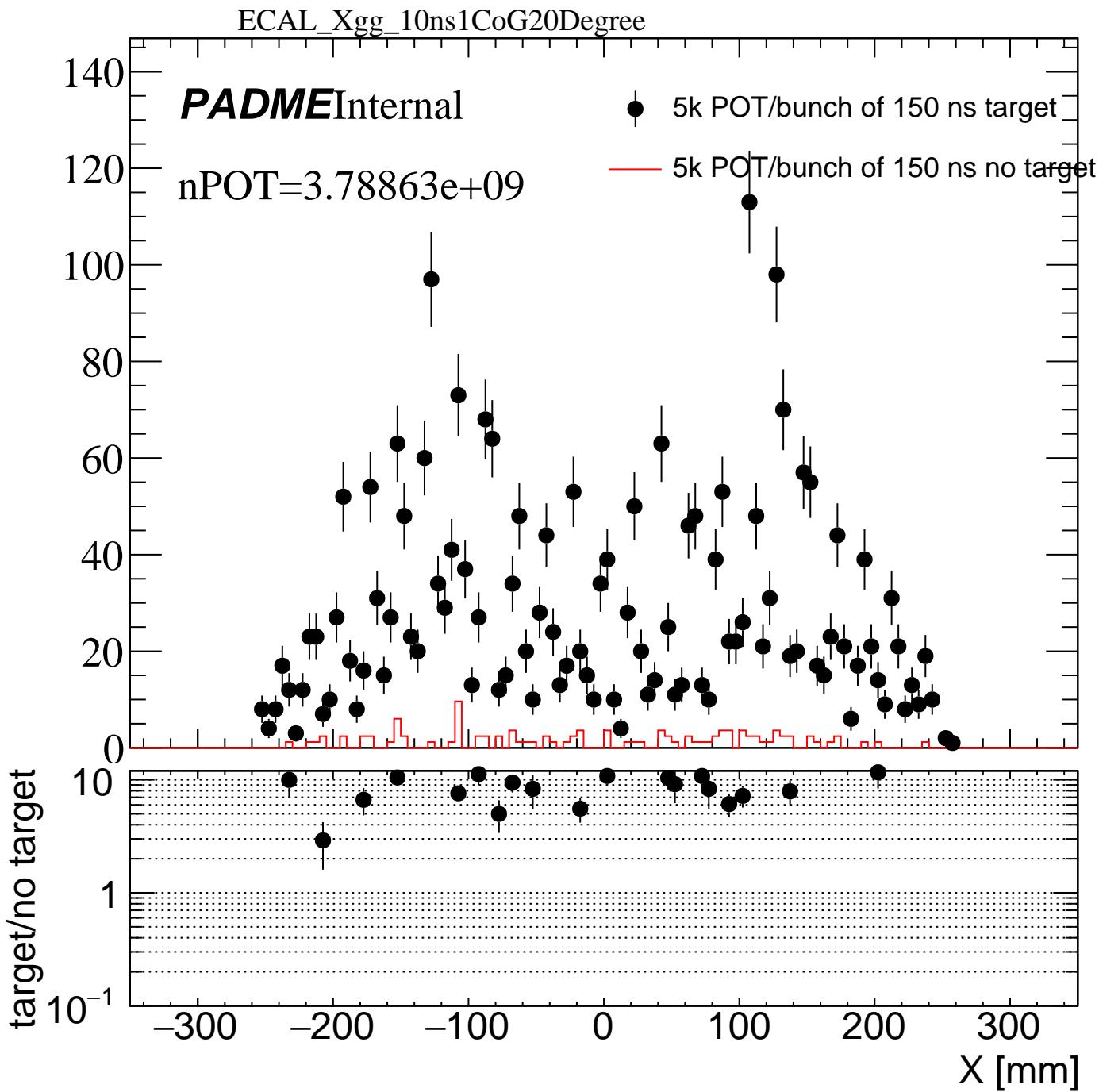


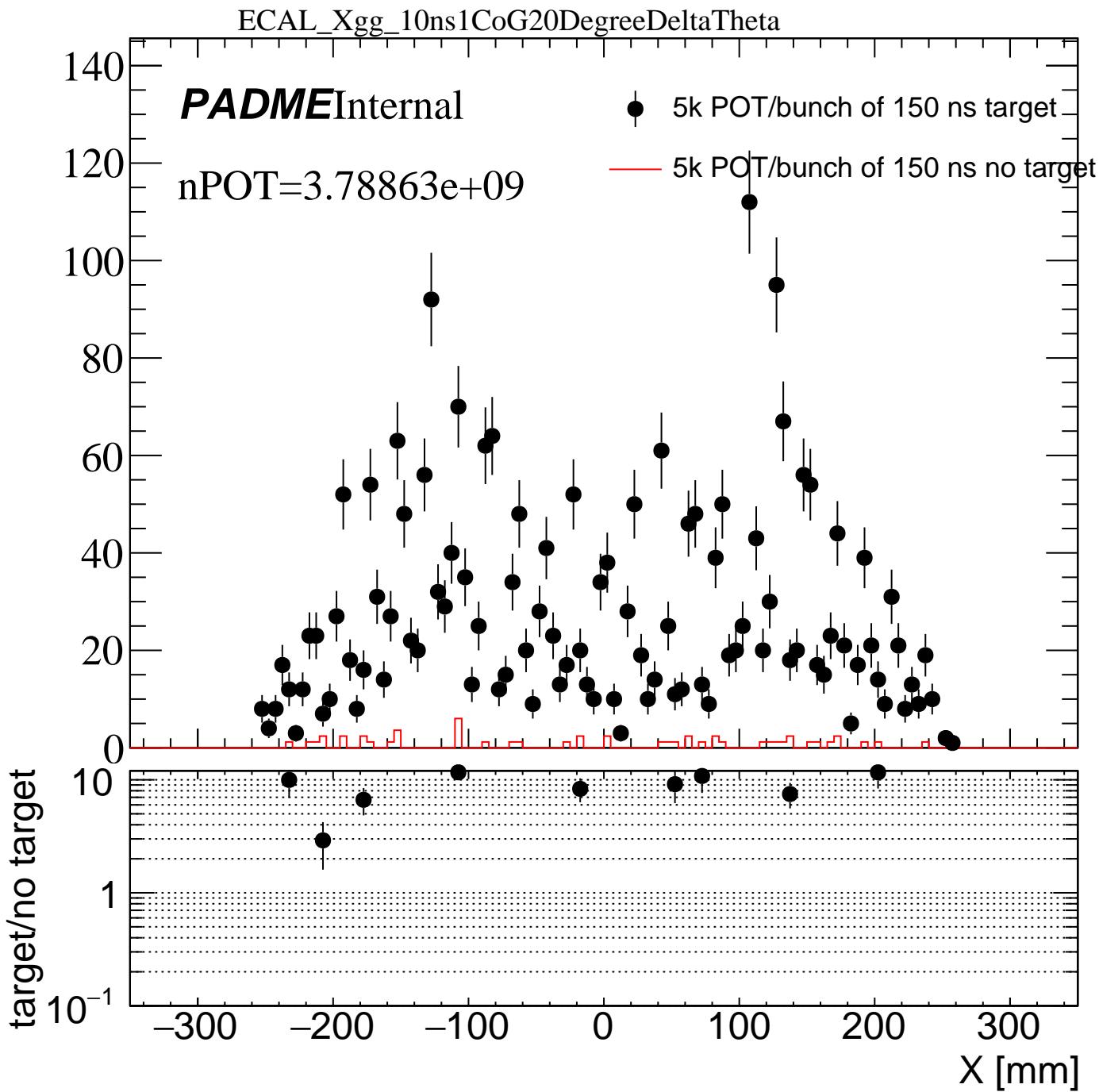
ECAL\_Xgg\_10ns1CoGUnderPeakEThr90



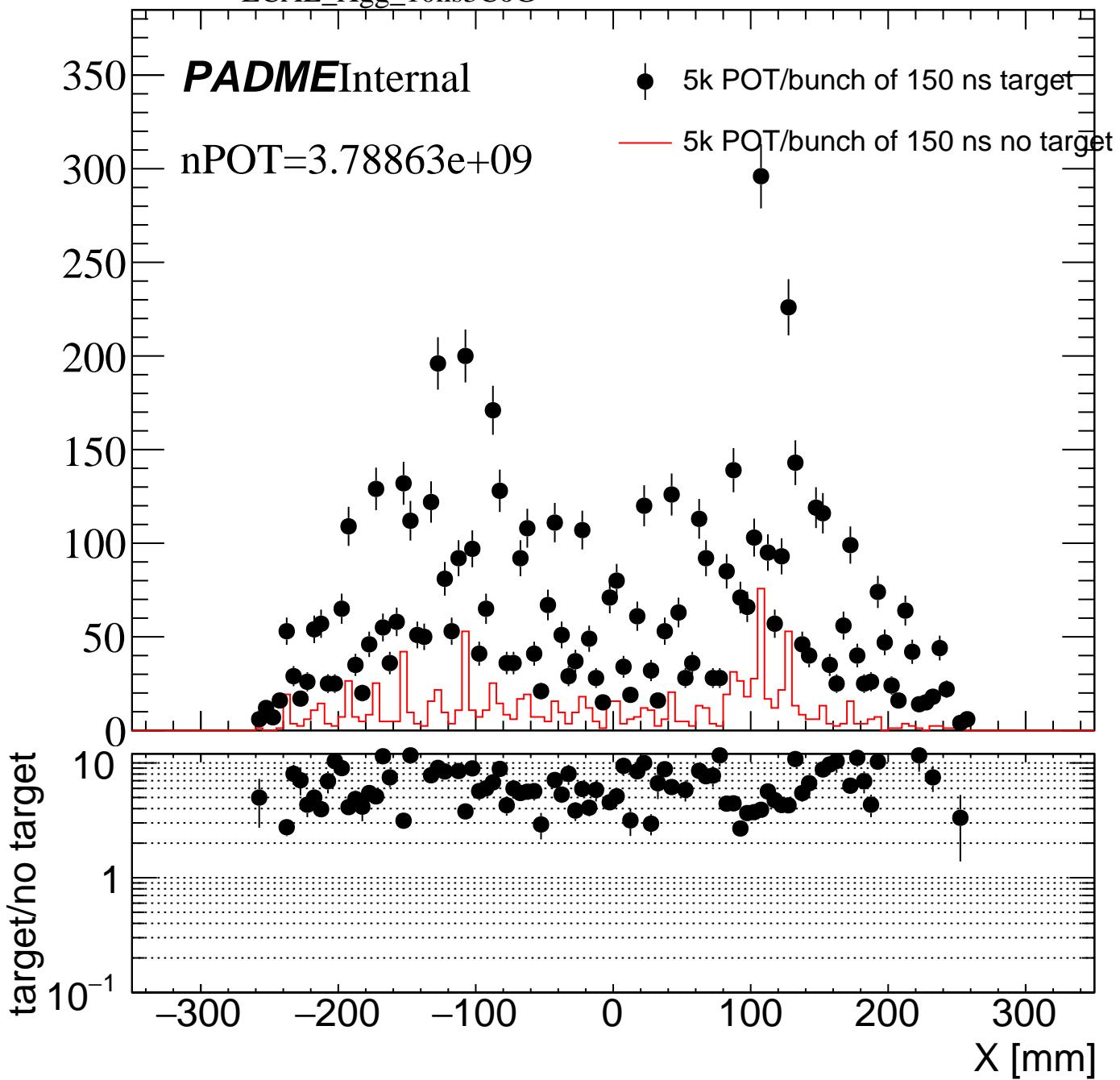
ECAL\_Xgg\_10ns1CoGEThr90



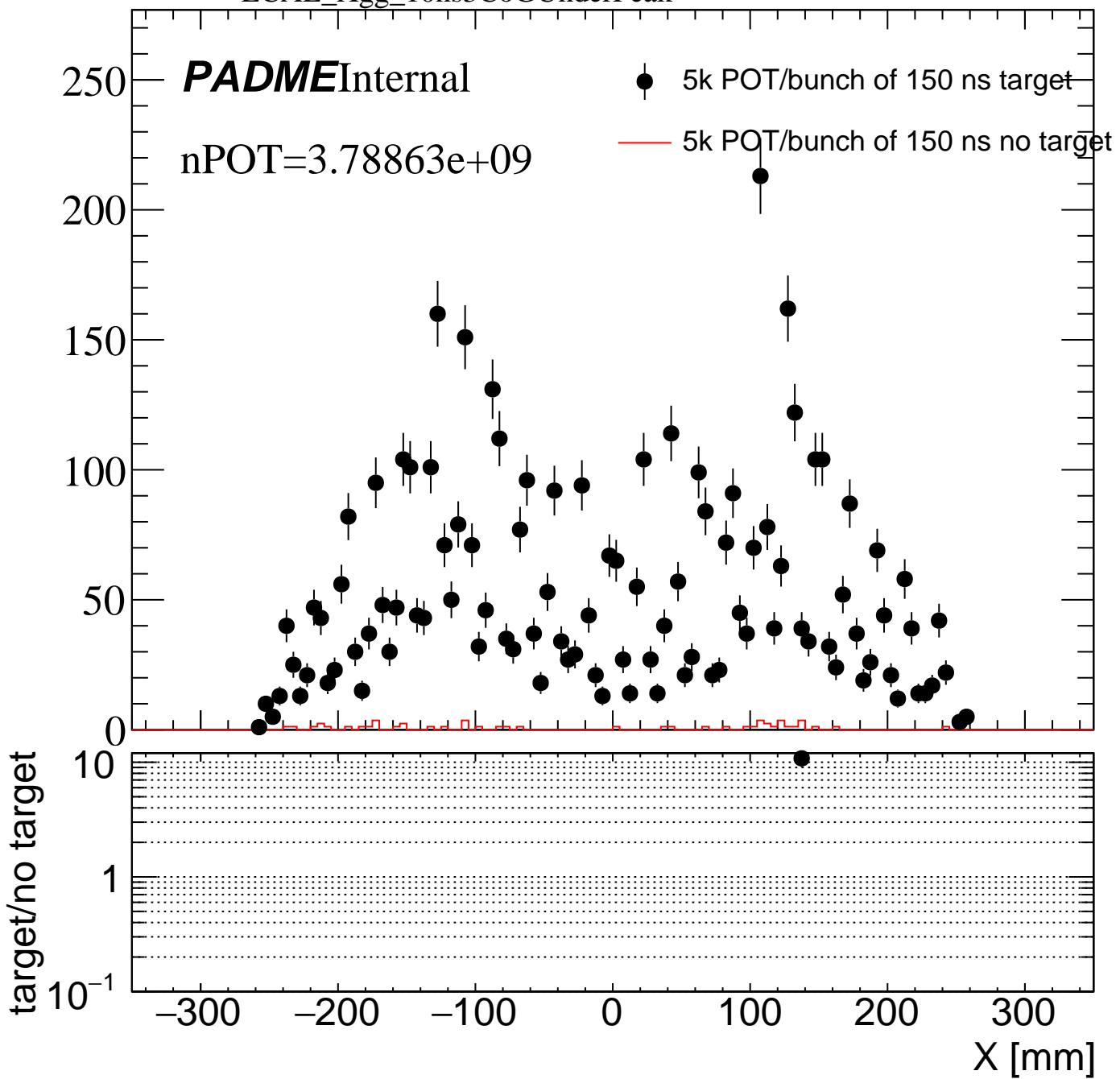




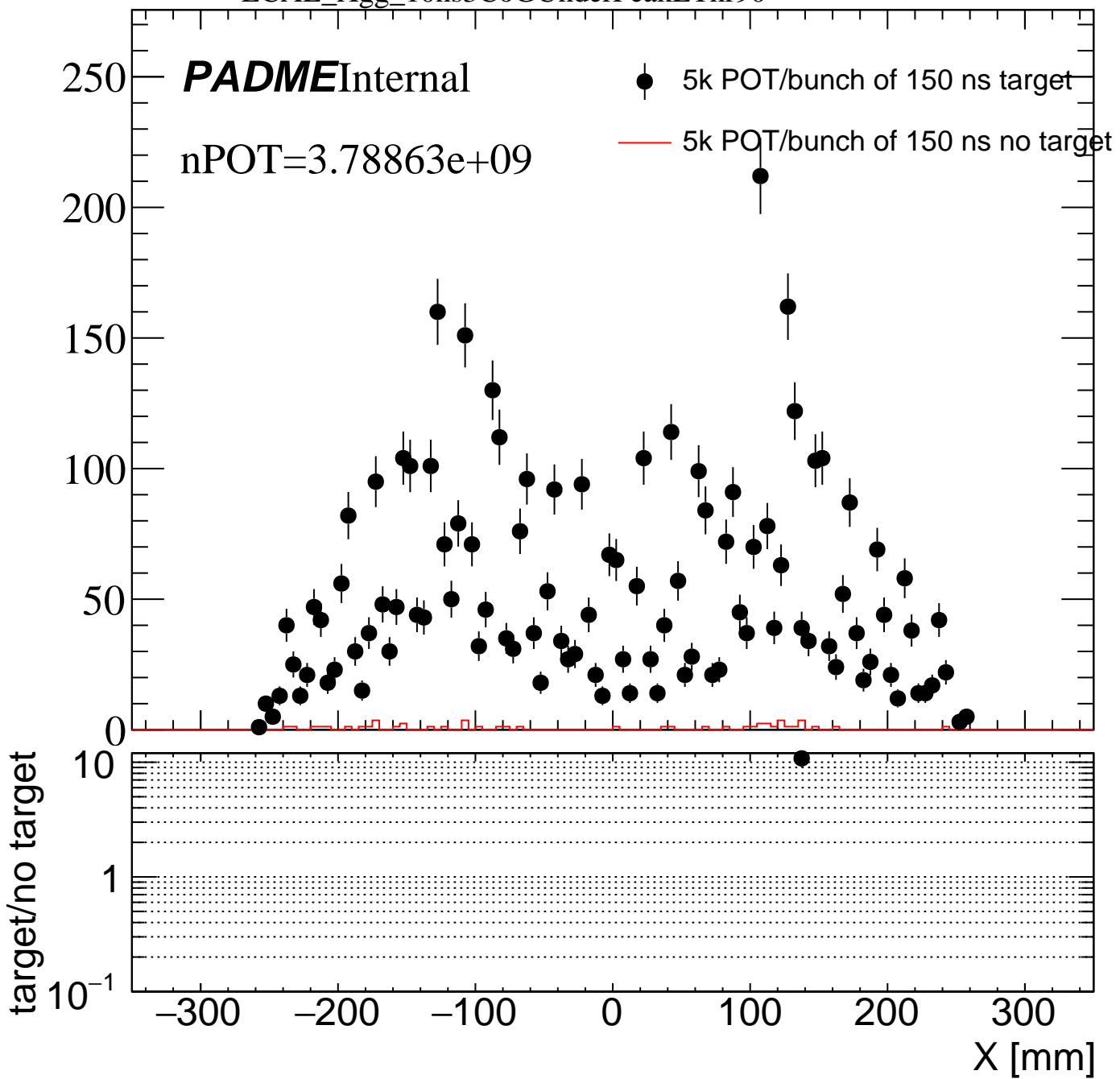
ECAL\_Xgg\_10ns3CoG



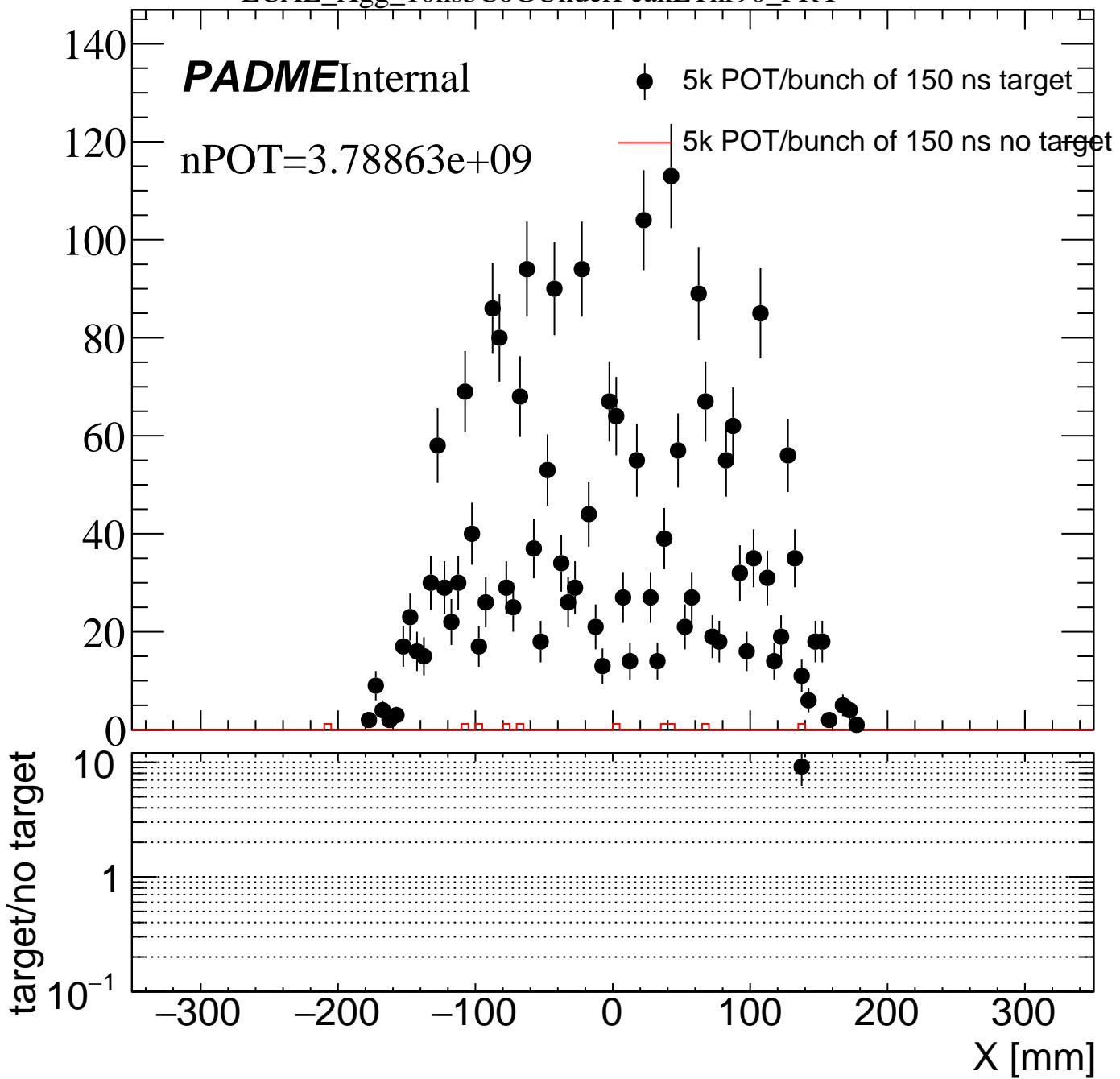
ECAL\_Xgg\_10ns3CoGUnderPeak



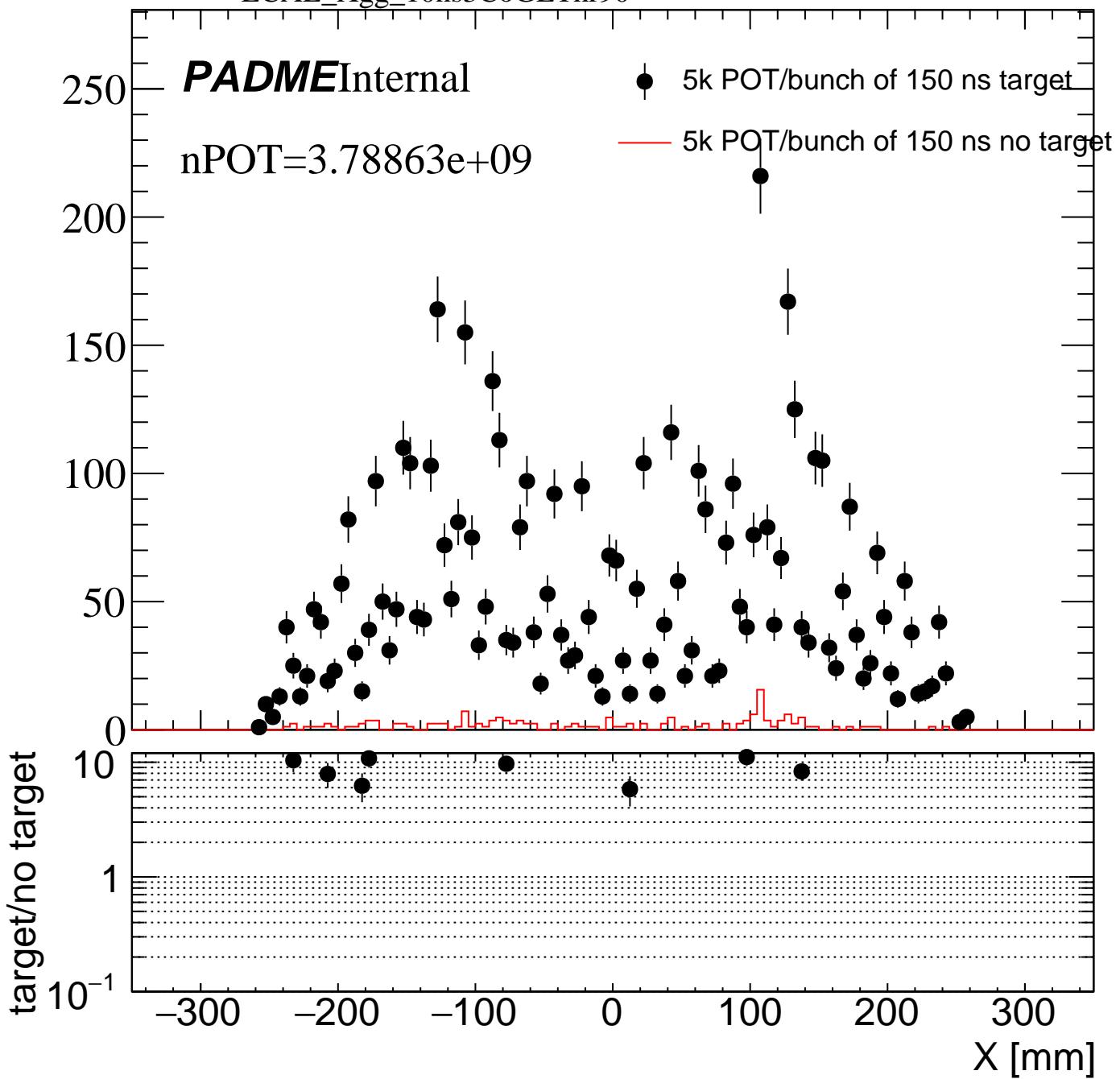
ECAL\_Xgg\_10ns3CoGUnderPeakEThr90

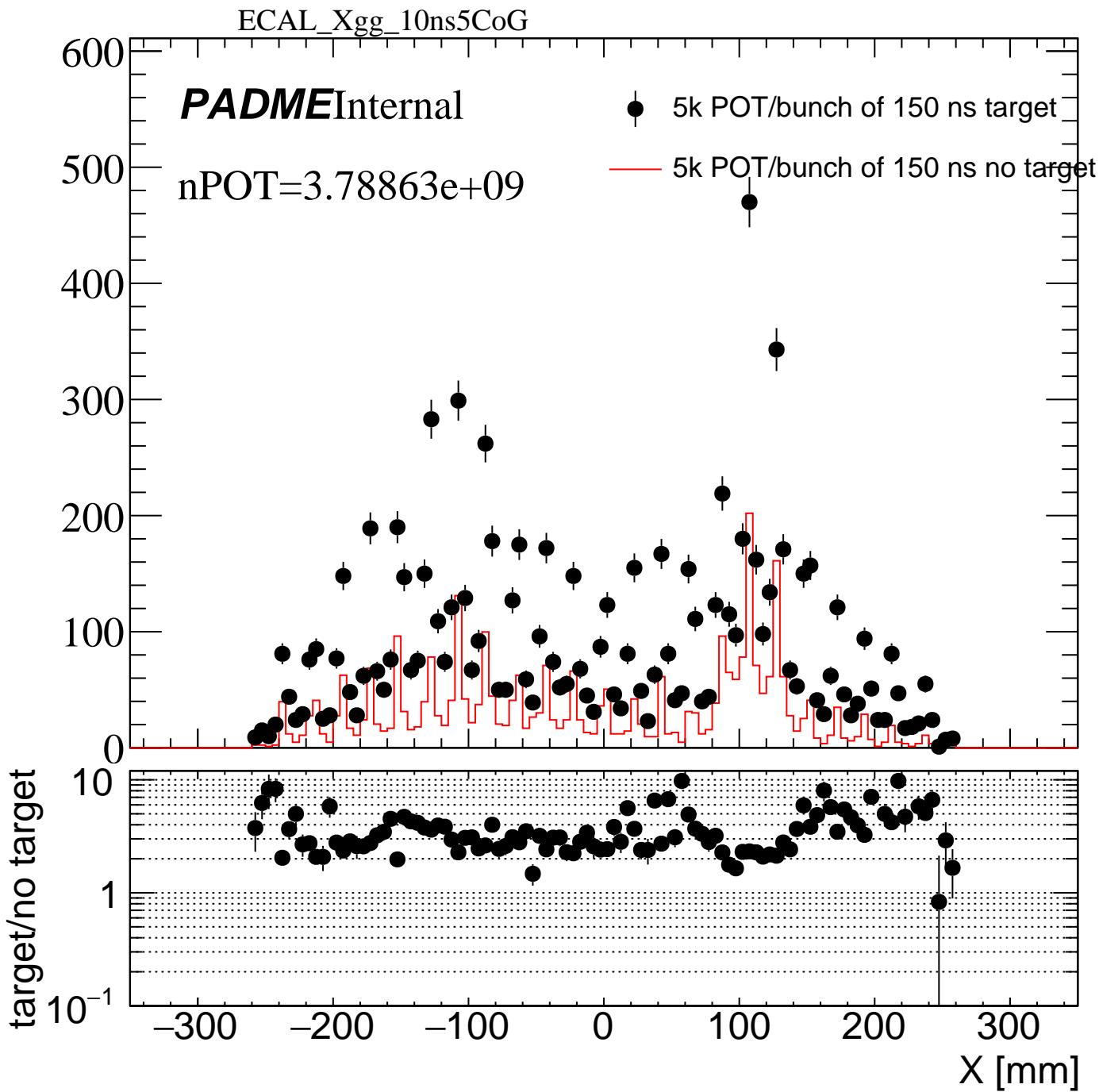


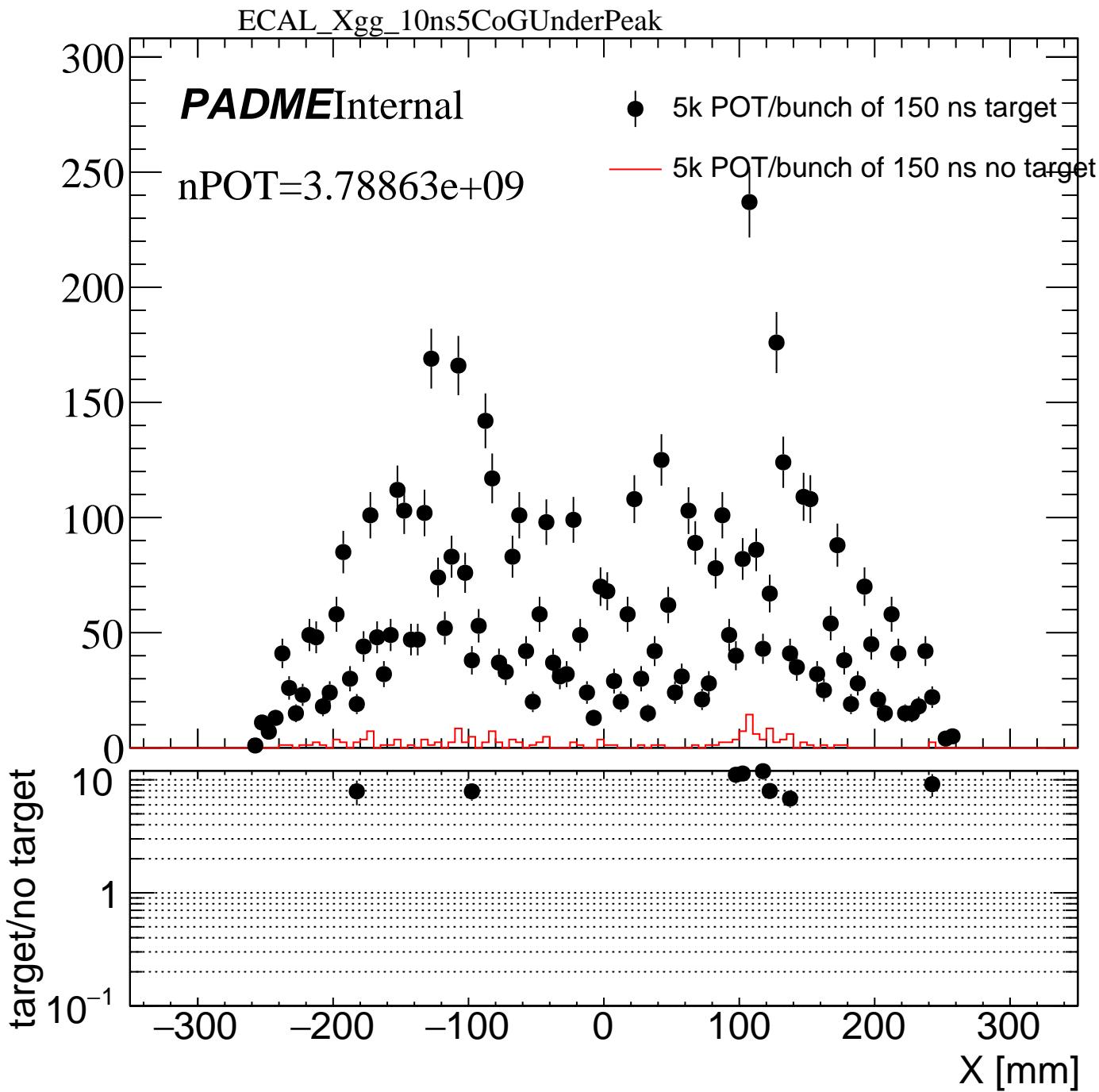
ECAL\_Xgg\_10ns3CoGUnderPeakEThr90\_FRY

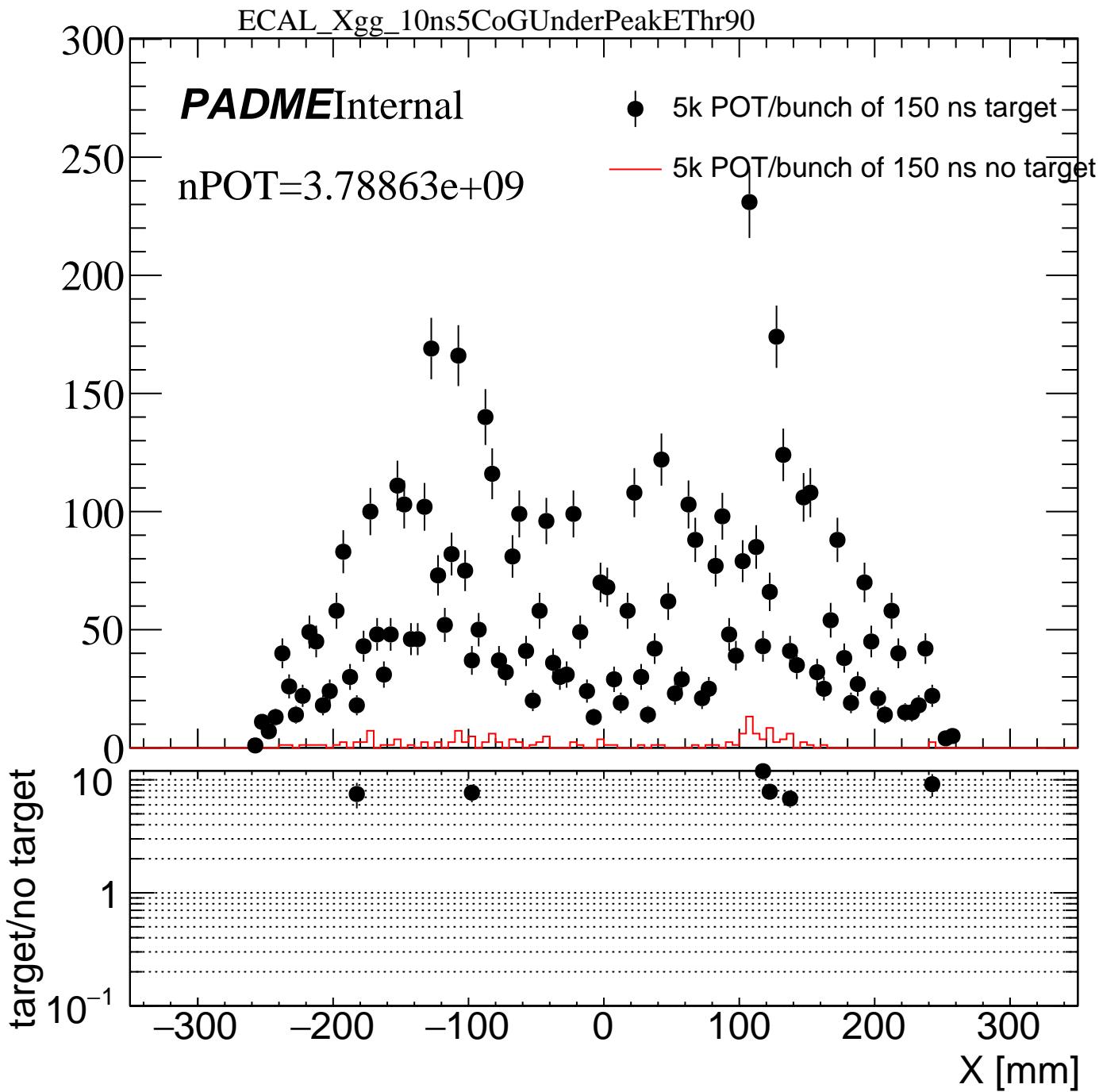


ECAL\_Xgg\_10ns3CoGEThr90

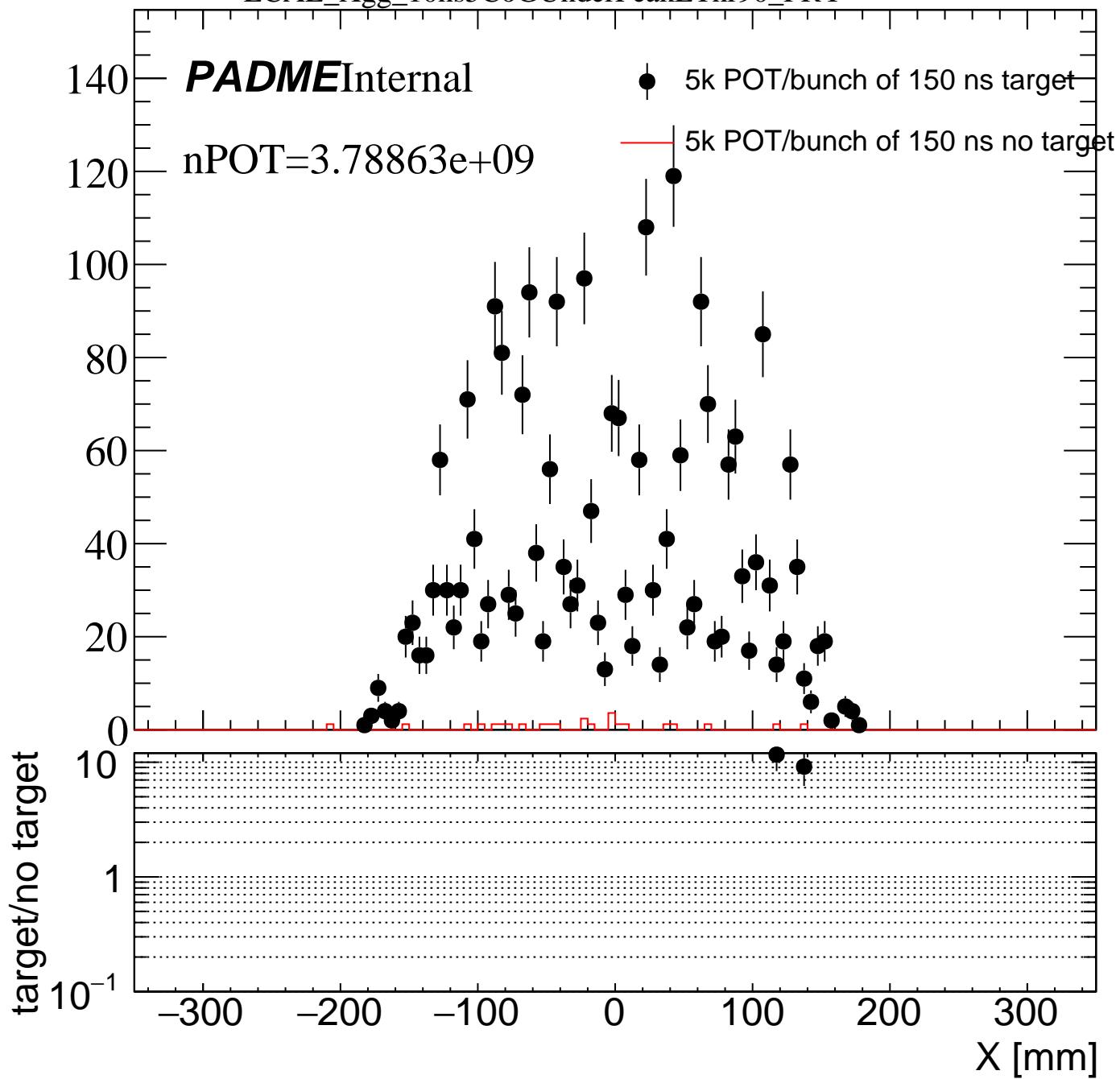




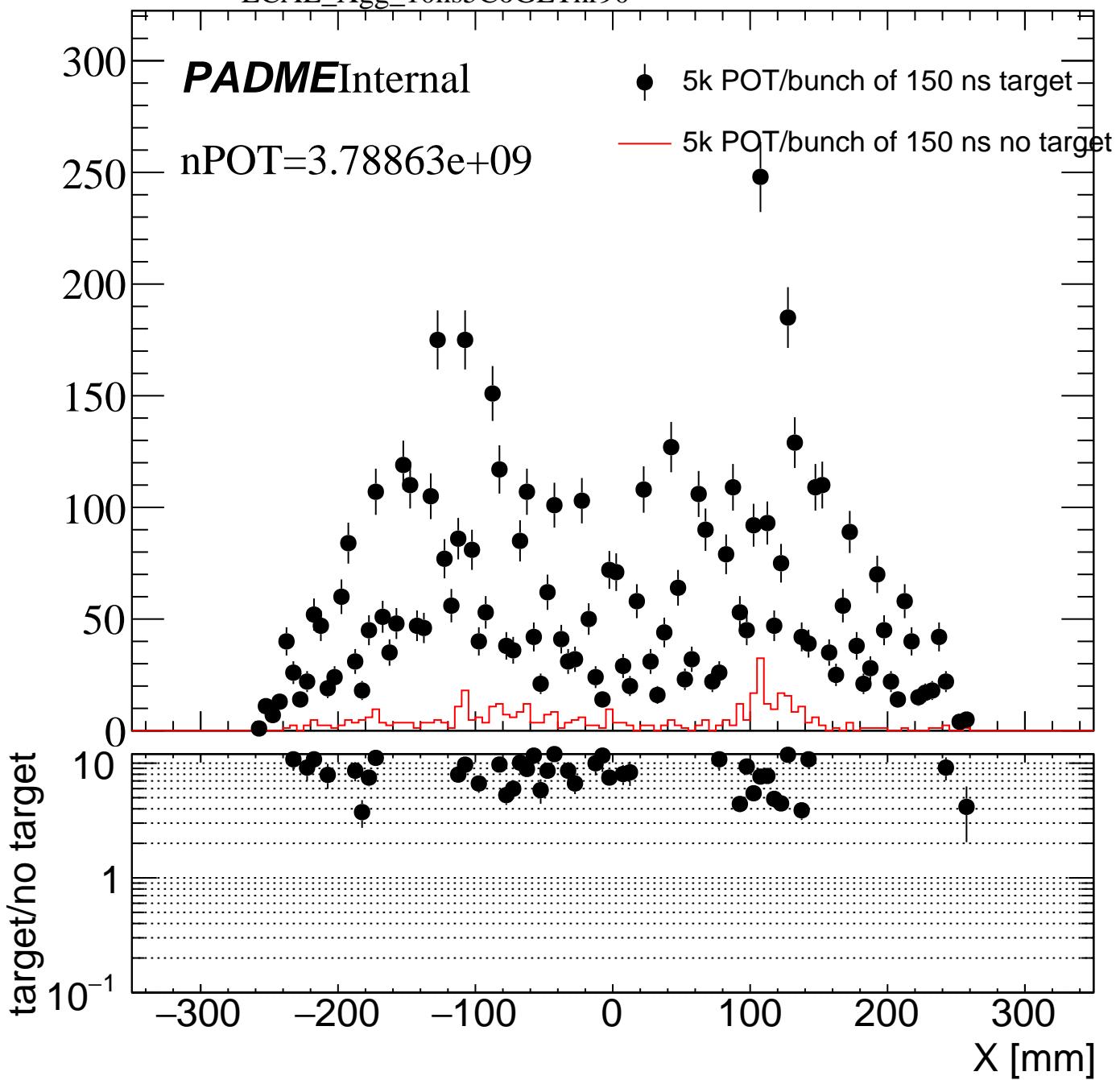


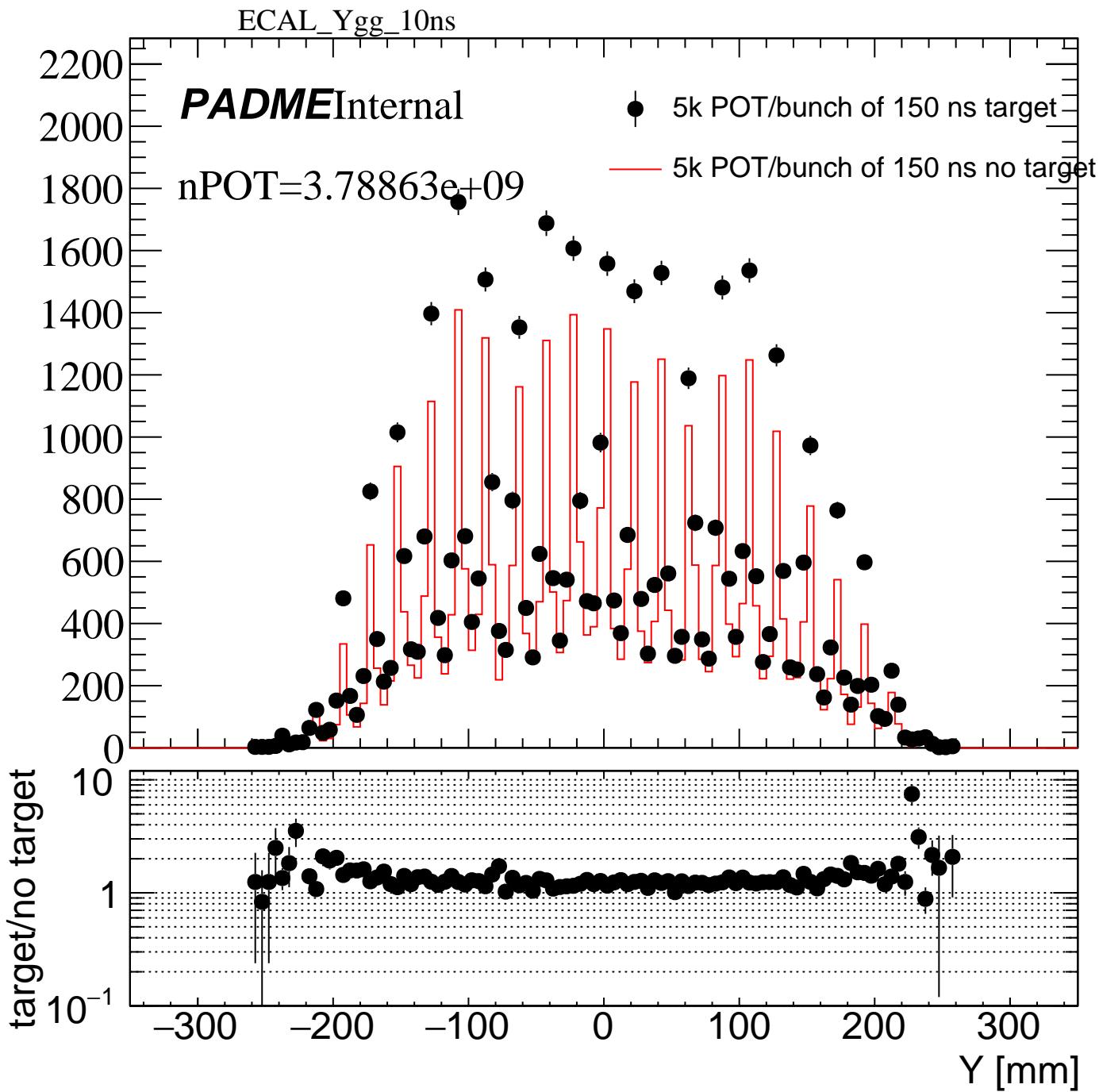


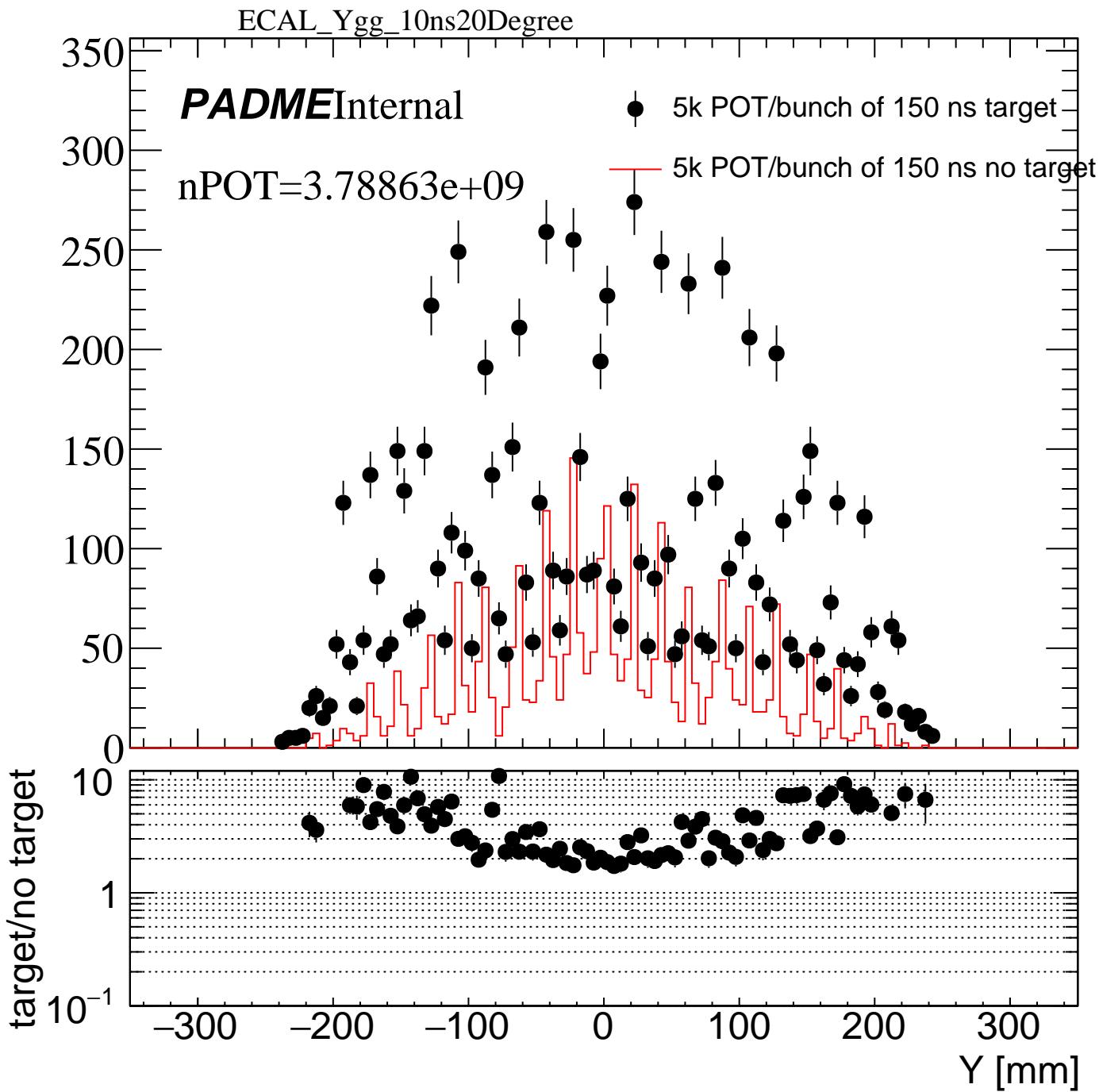
ECAL\_Xgg\_10ns5CoGUnderPeakEThr90\_FRY



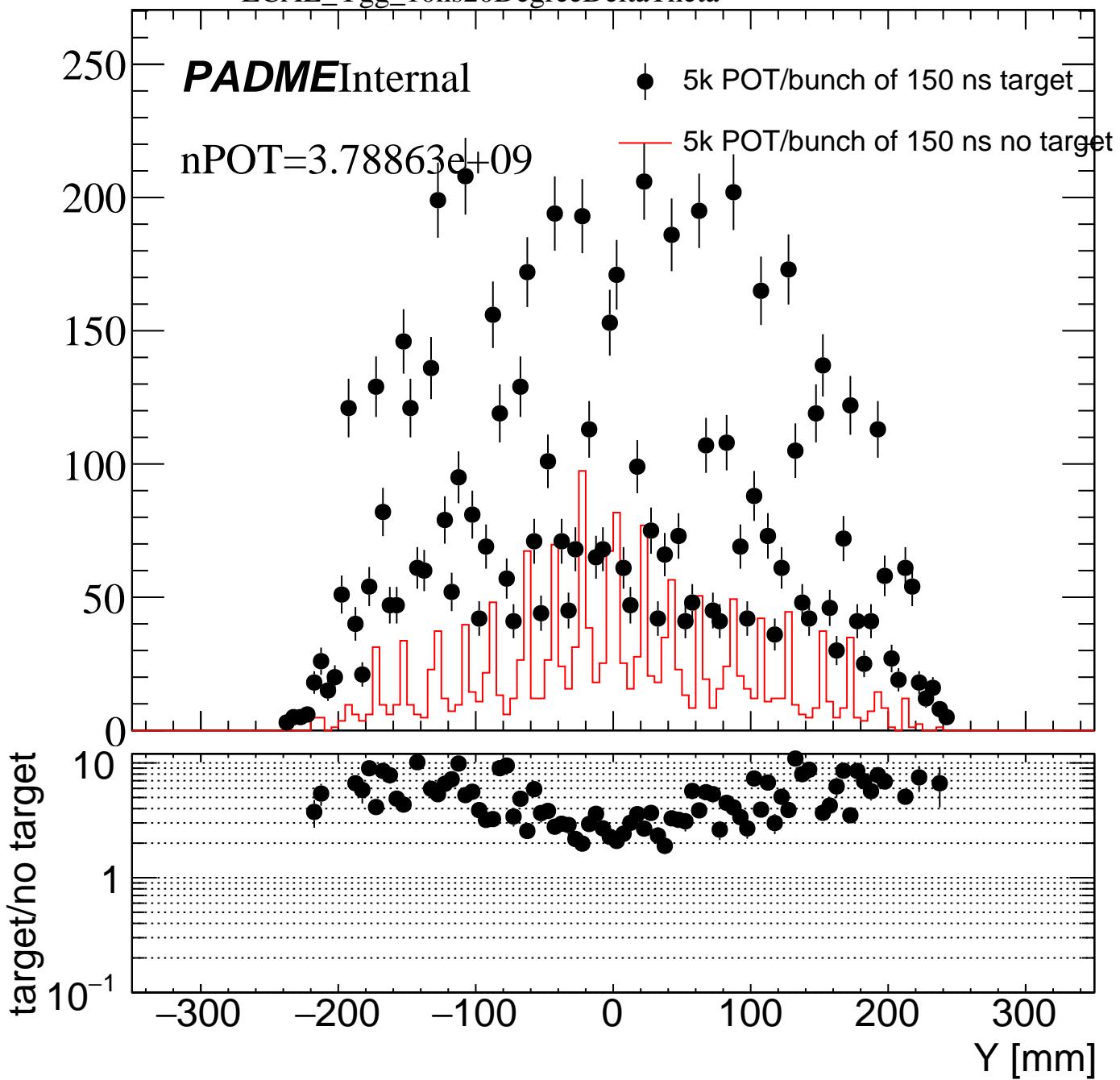
ECAL\_Xgg\_10ns5CoGEThr90

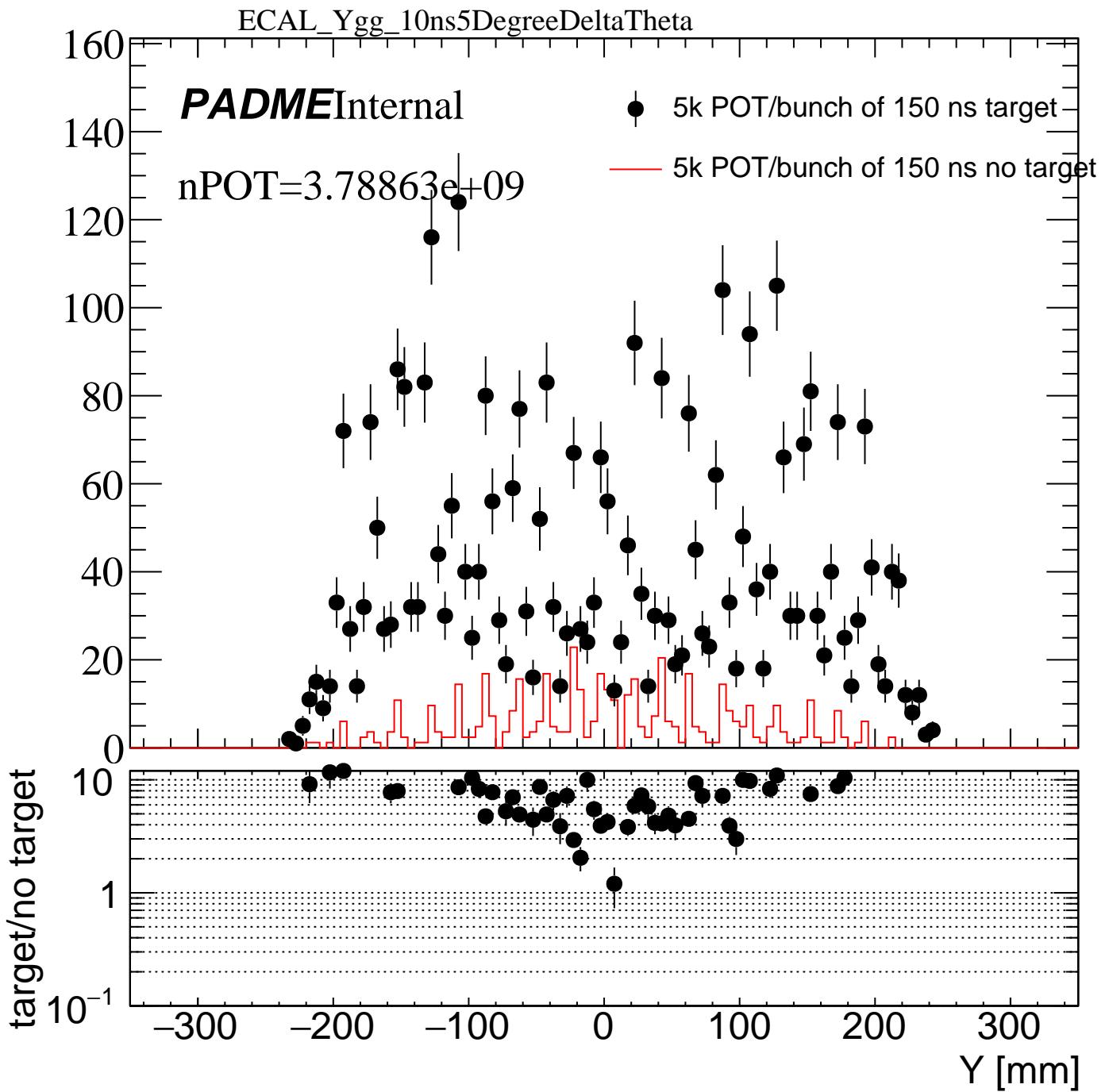




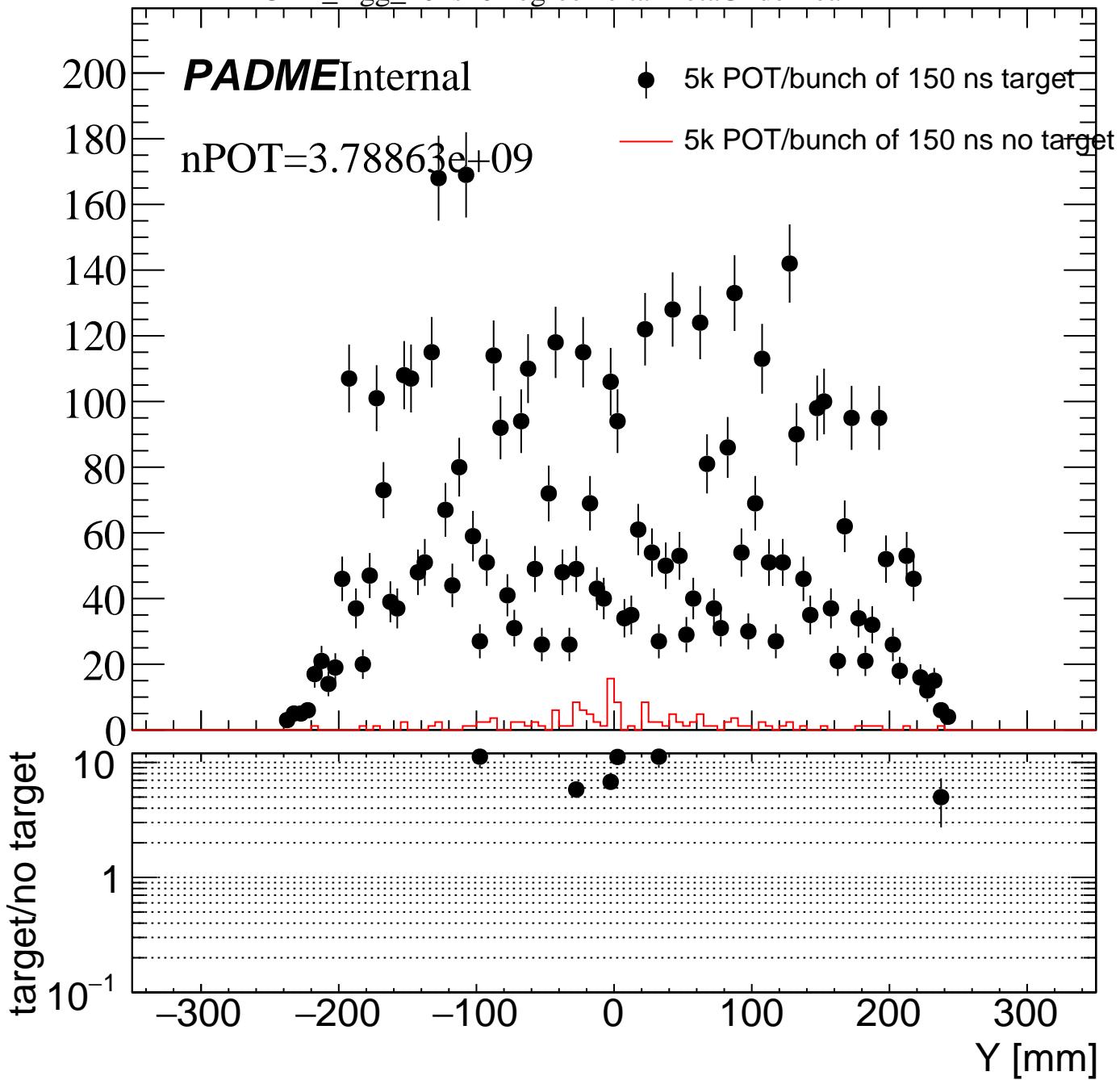


# ECAL\_Ygg\_10ns20DegreeDeltaTheta

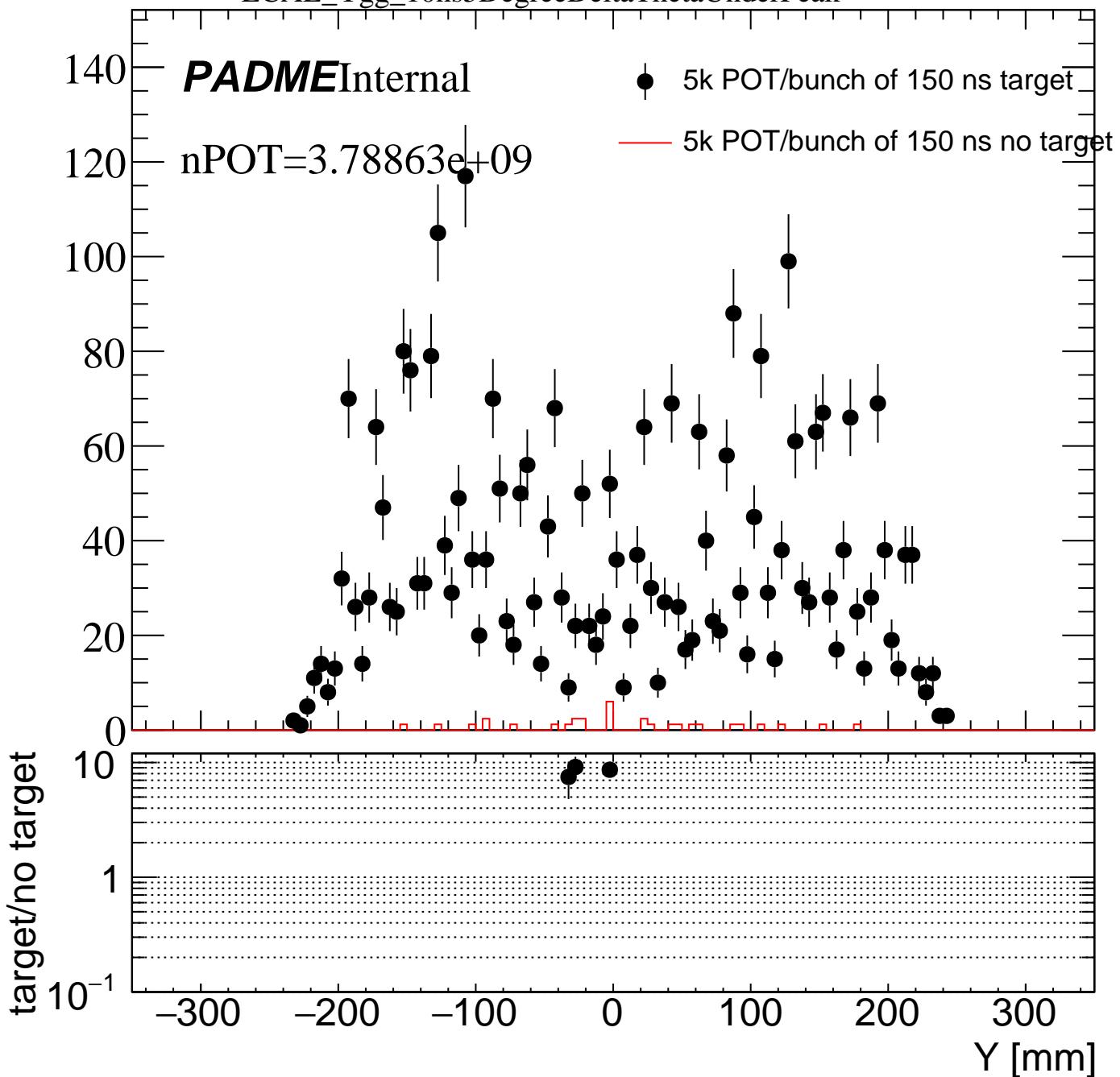




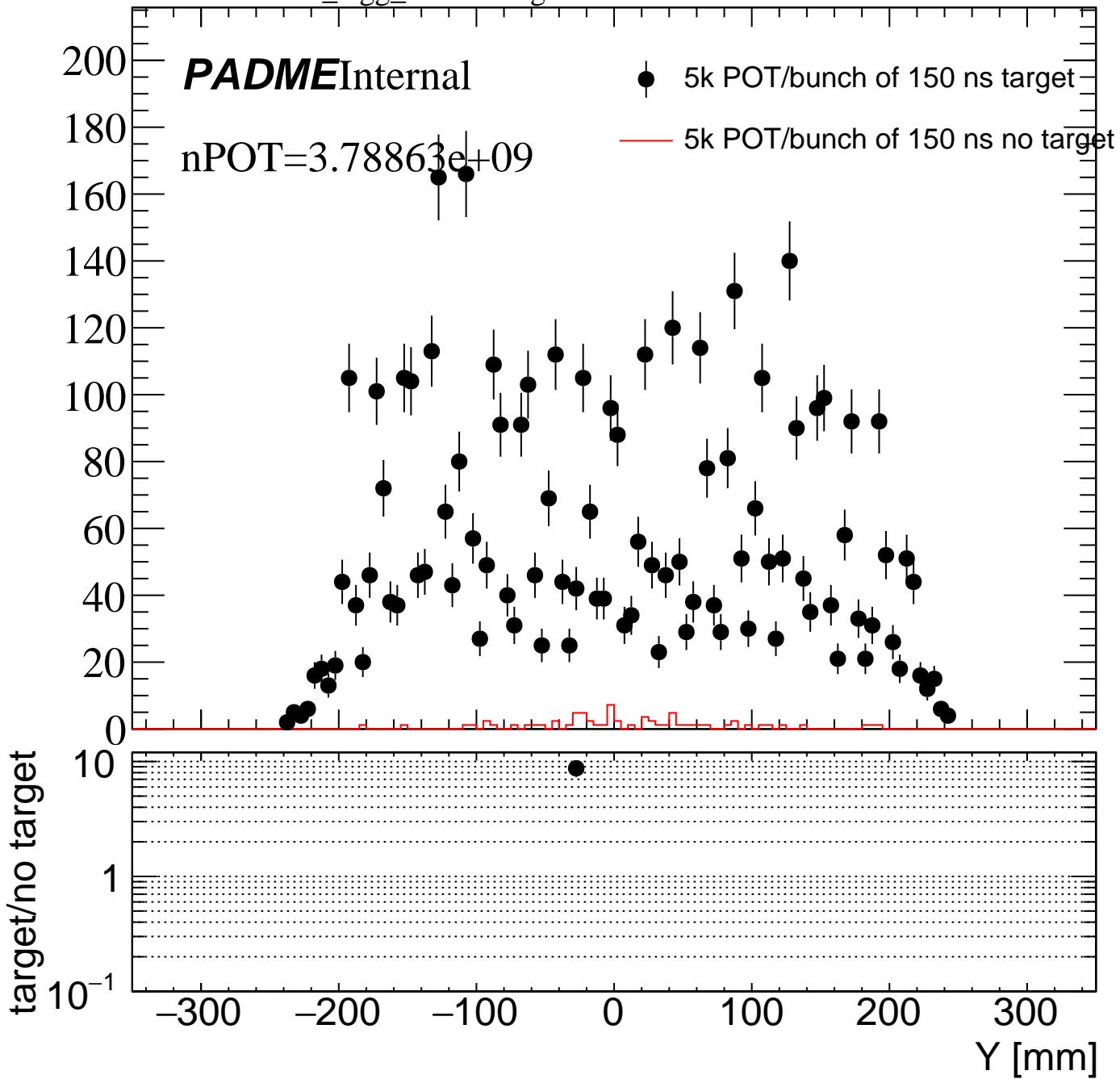
# ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeak



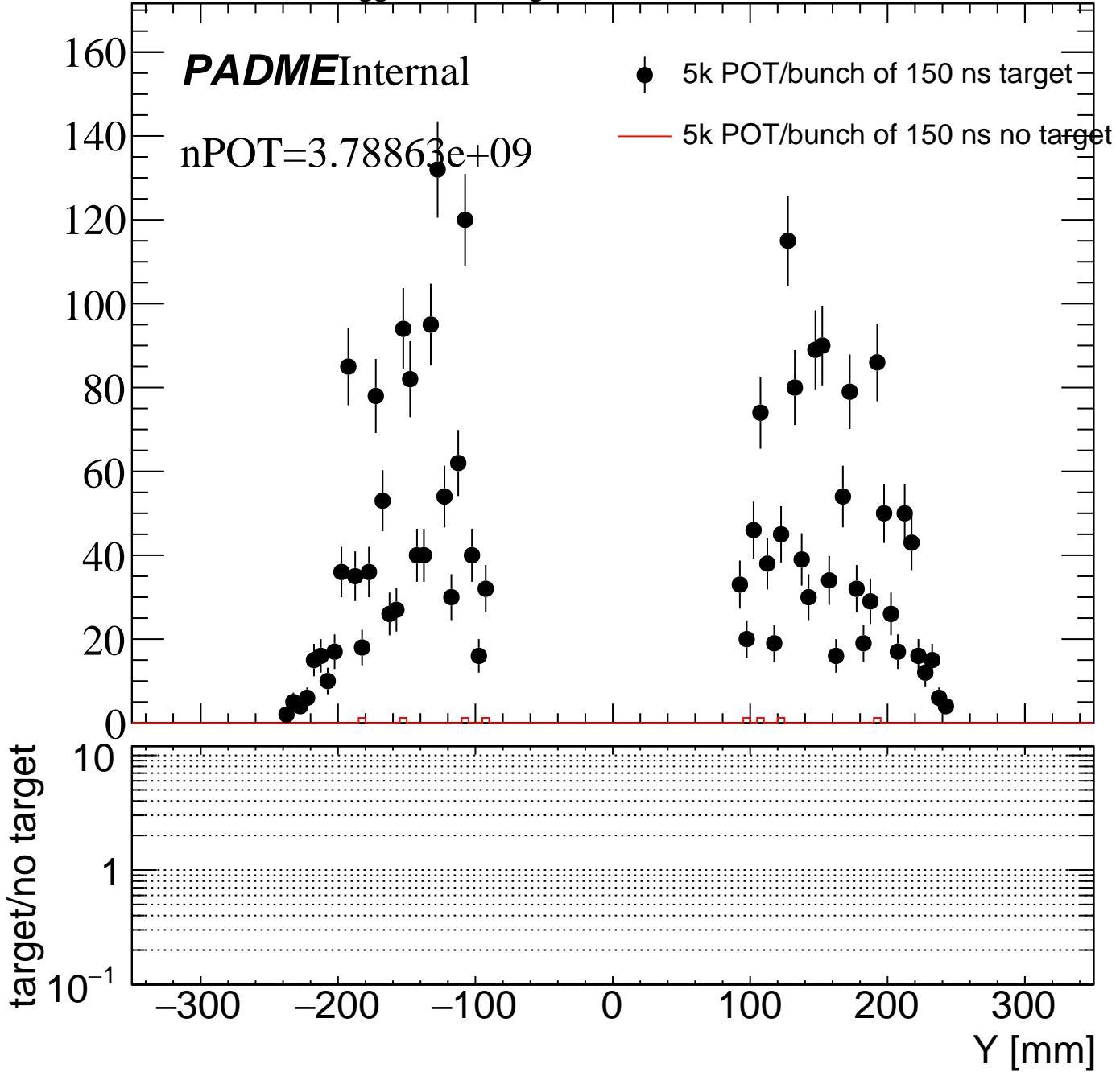
# ECAL\_Ygg\_10ns5DegreeDeltaThetaUnderPeak



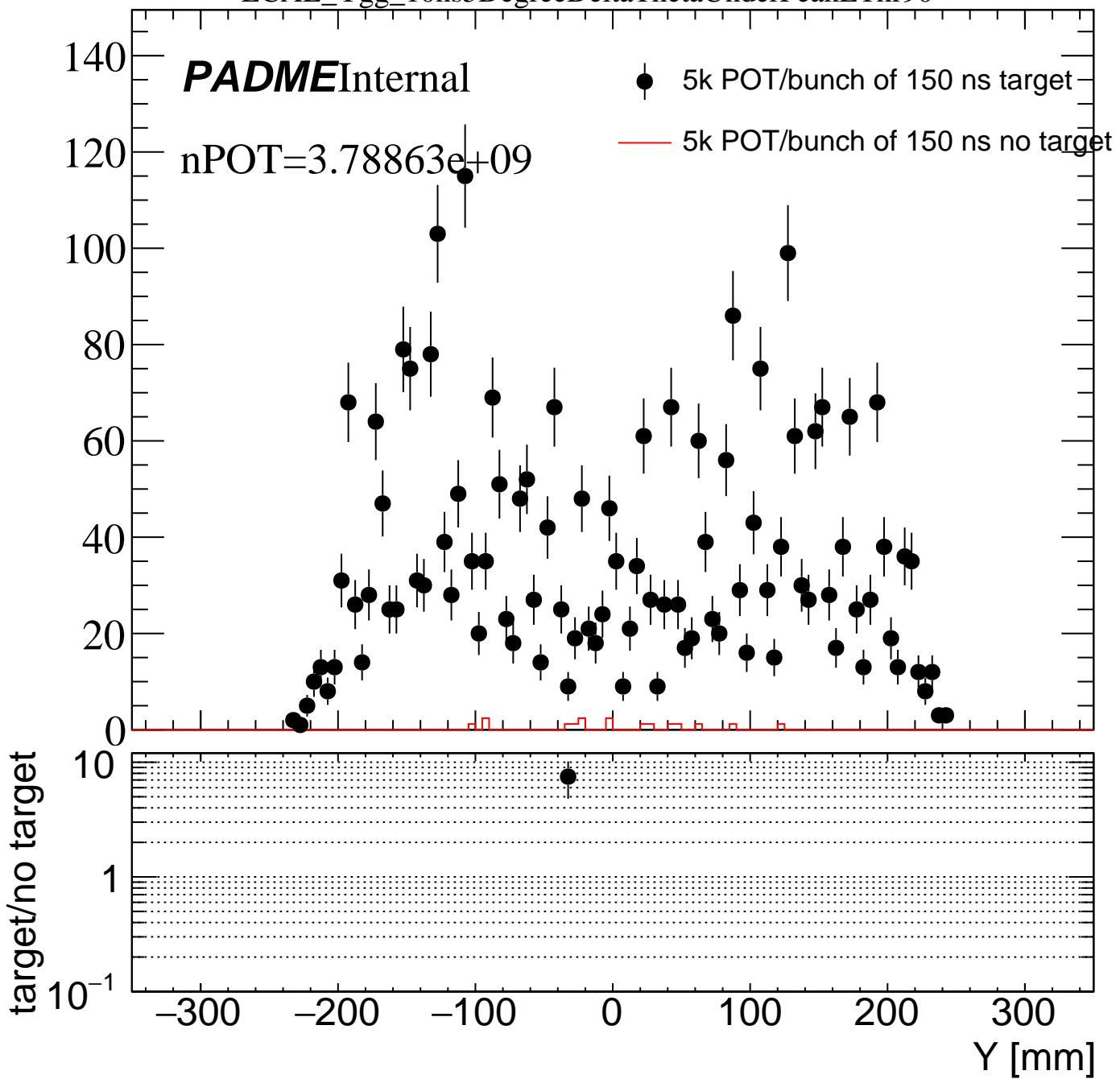
ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeakEThr90

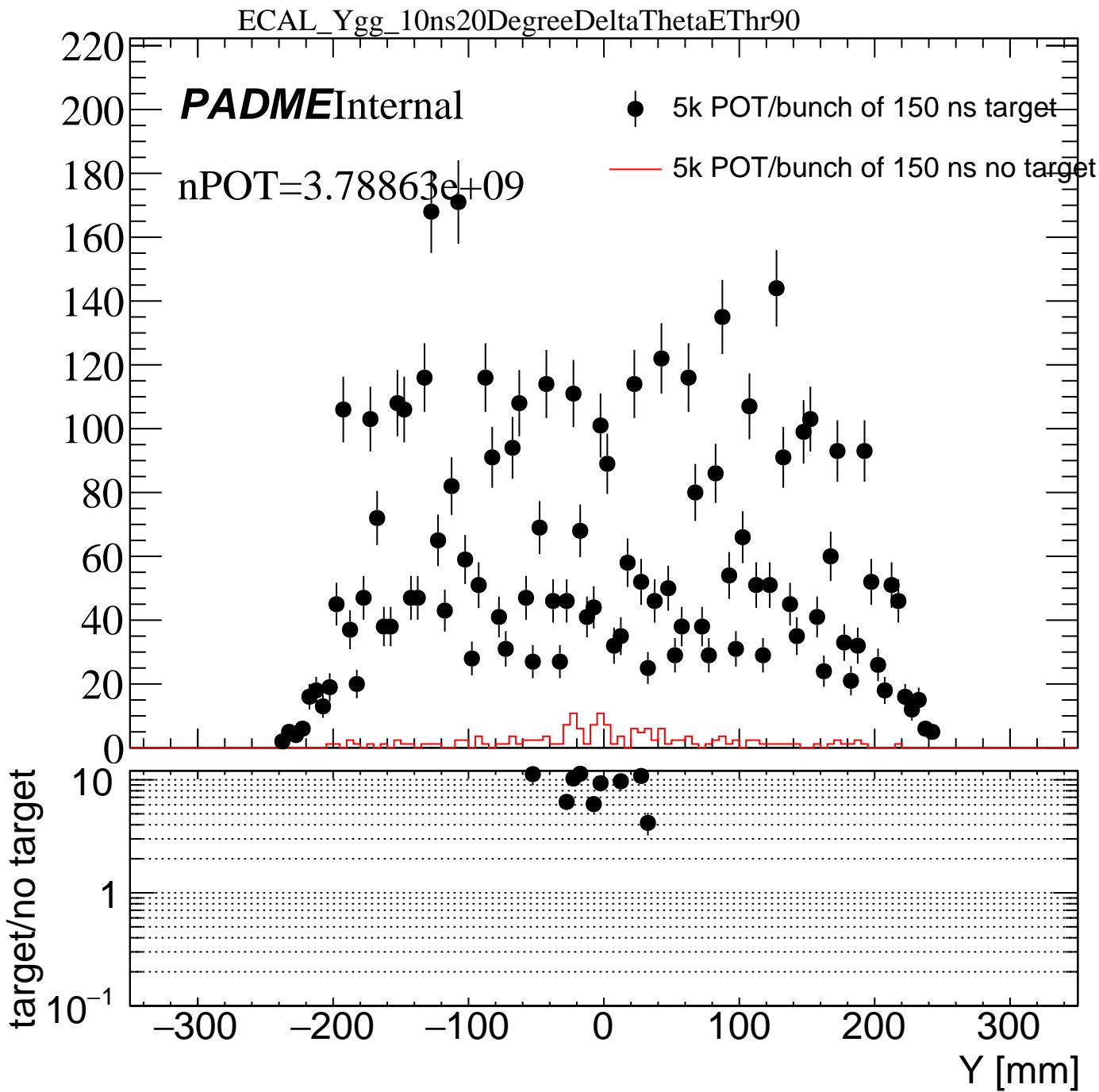


ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY

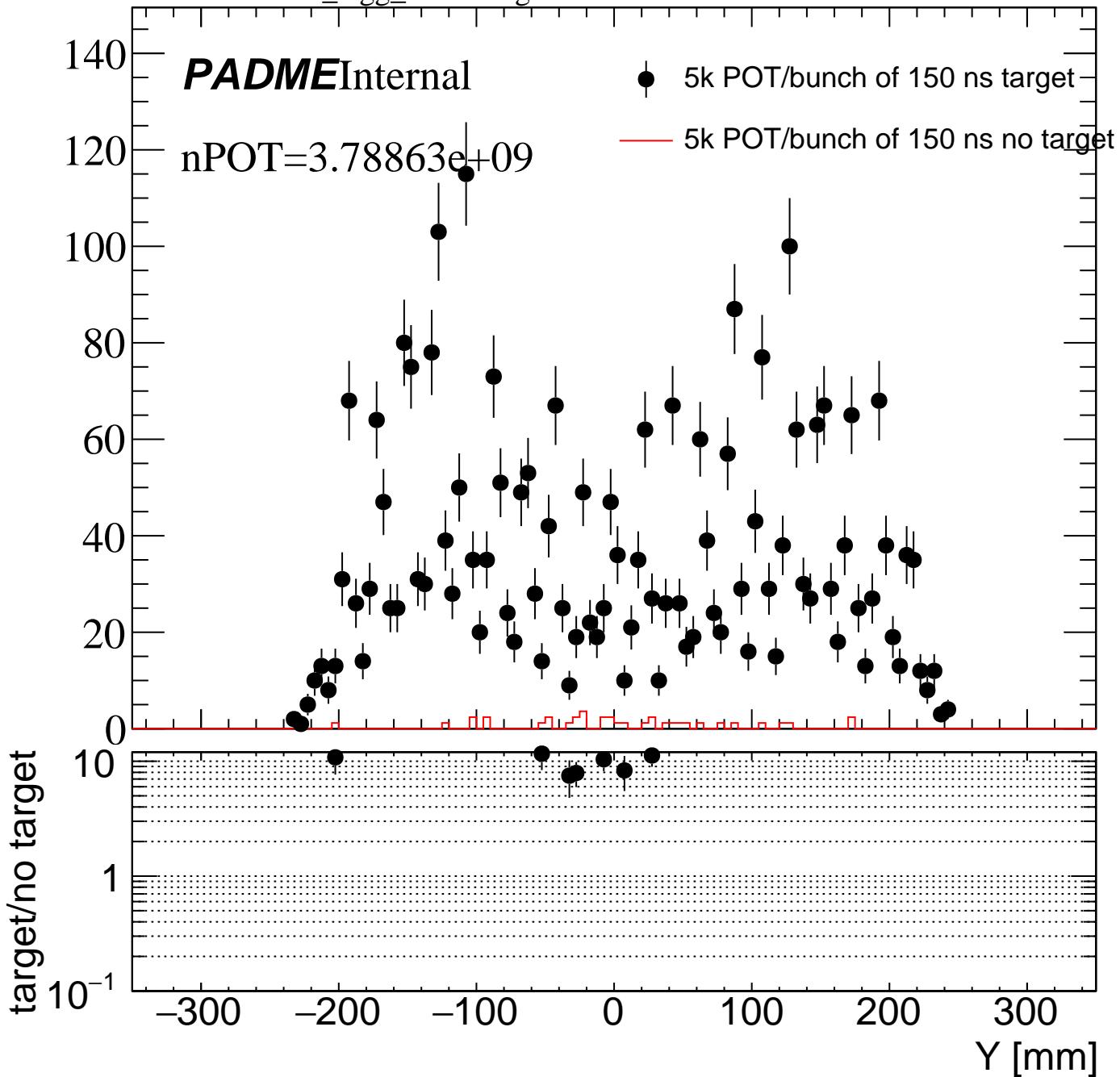


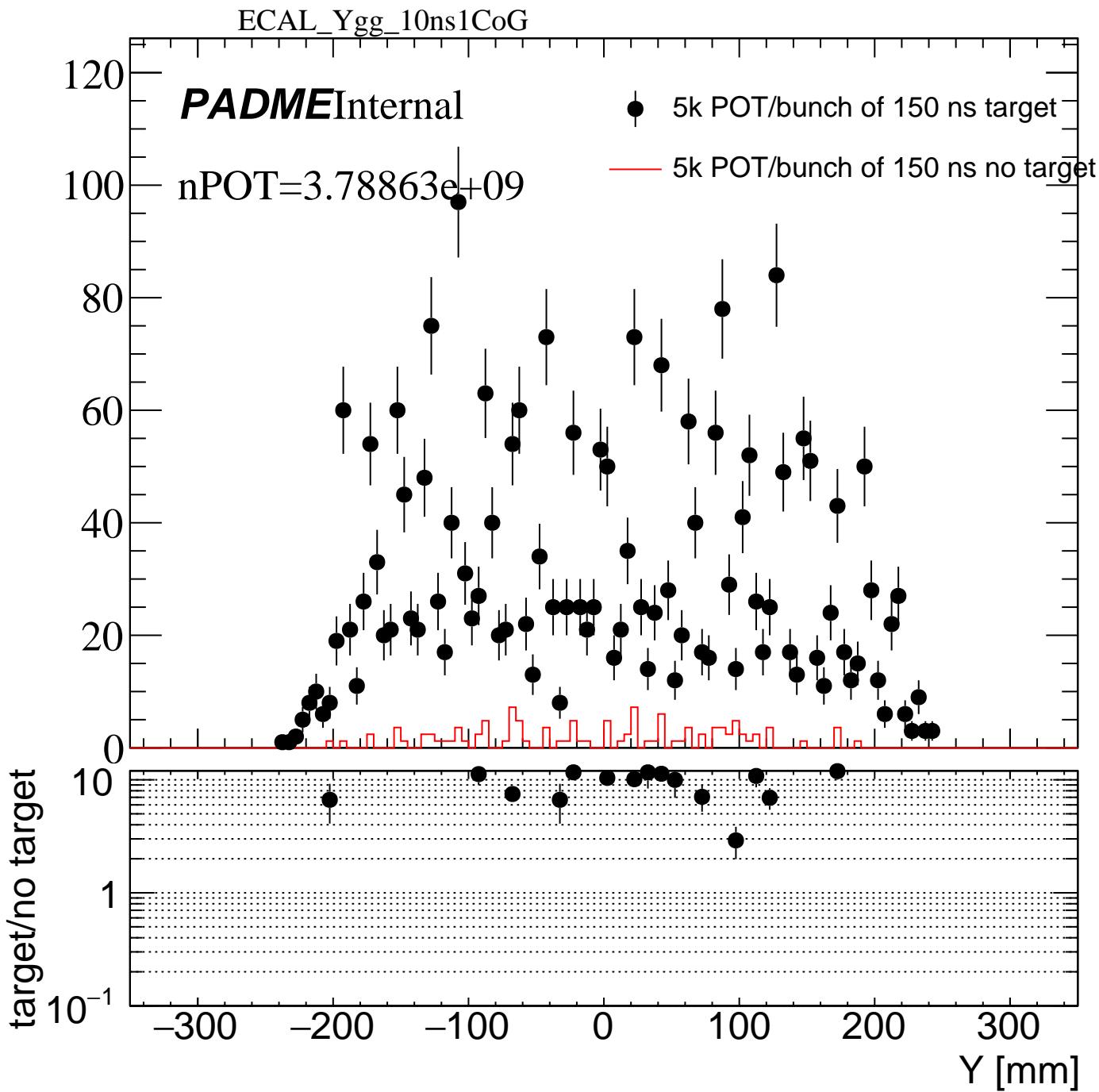
ECAL\_Ygg\_10ns5DegreeDeltaThetaUnderPeakEThr90

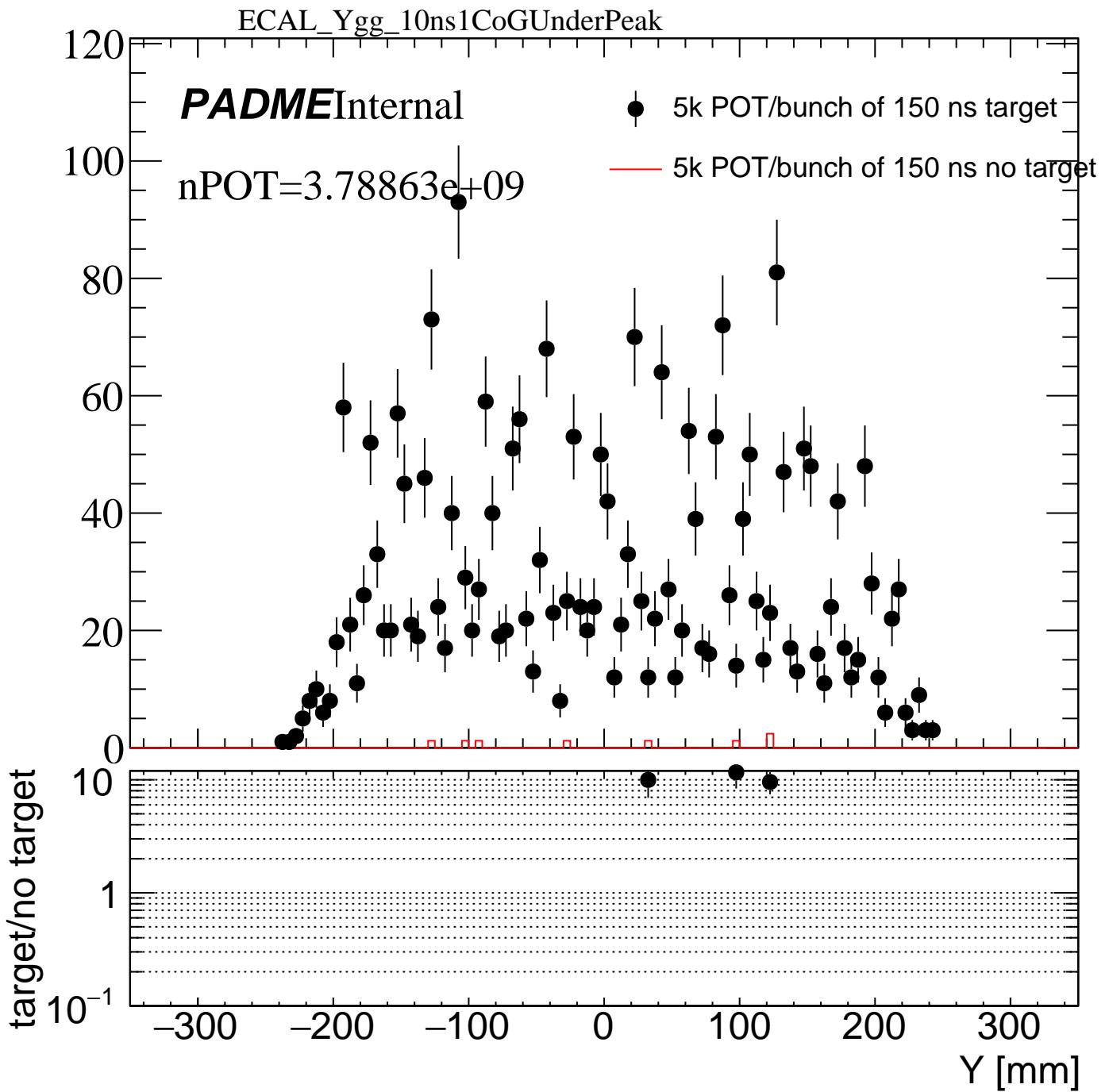


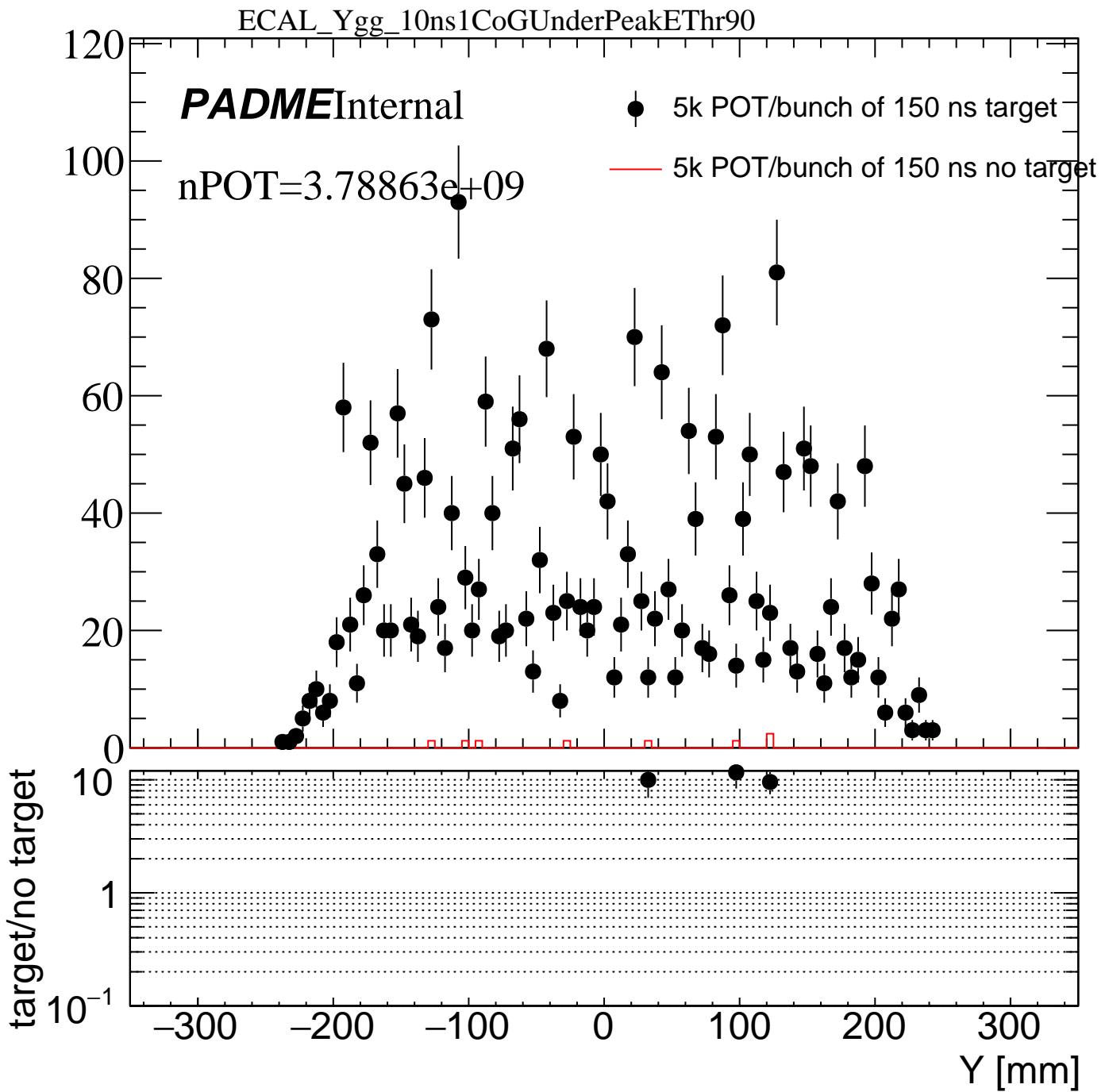


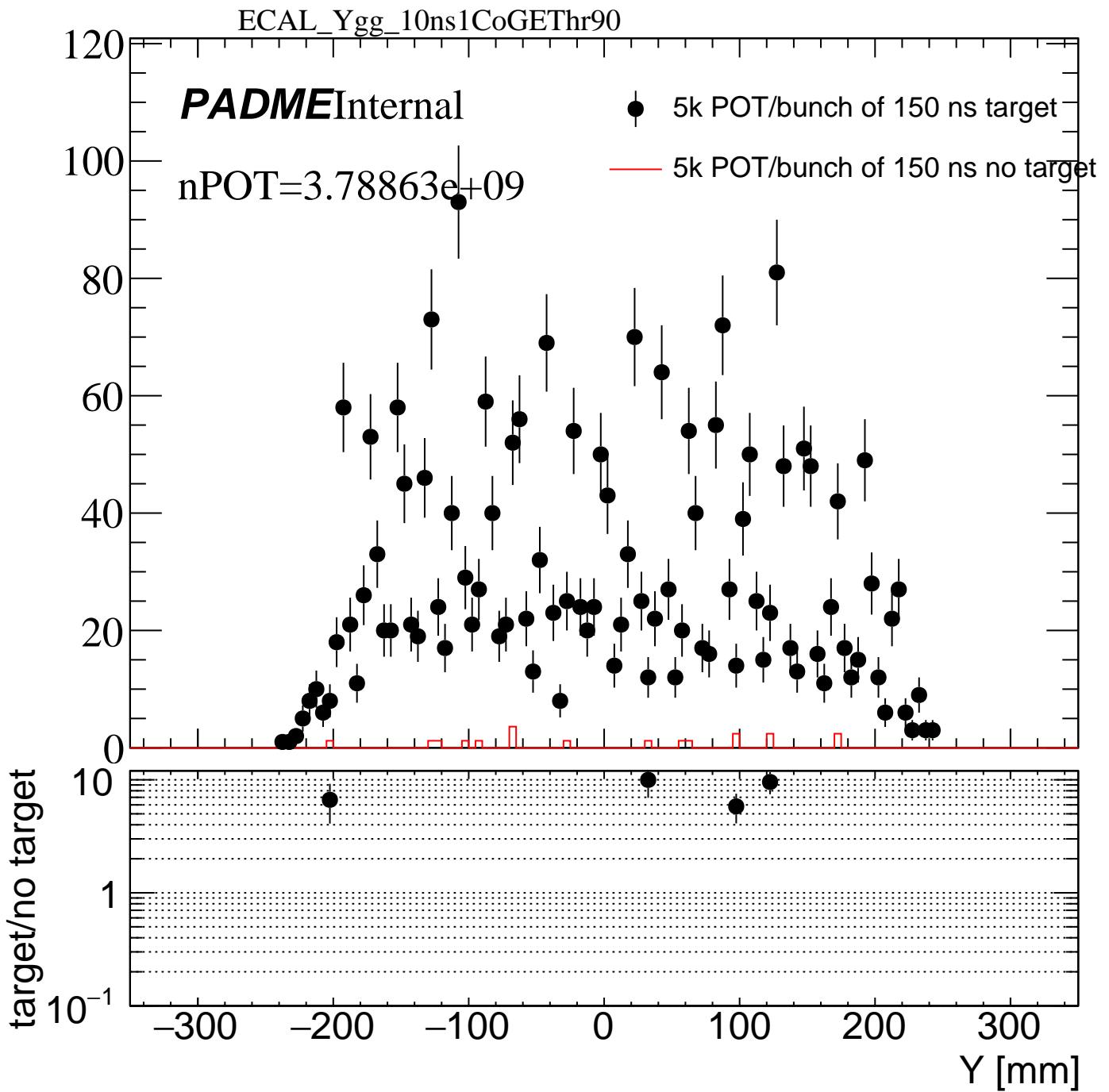
ECAL\_Ygg\_10ns5DegreeDeltaThetaEThr90

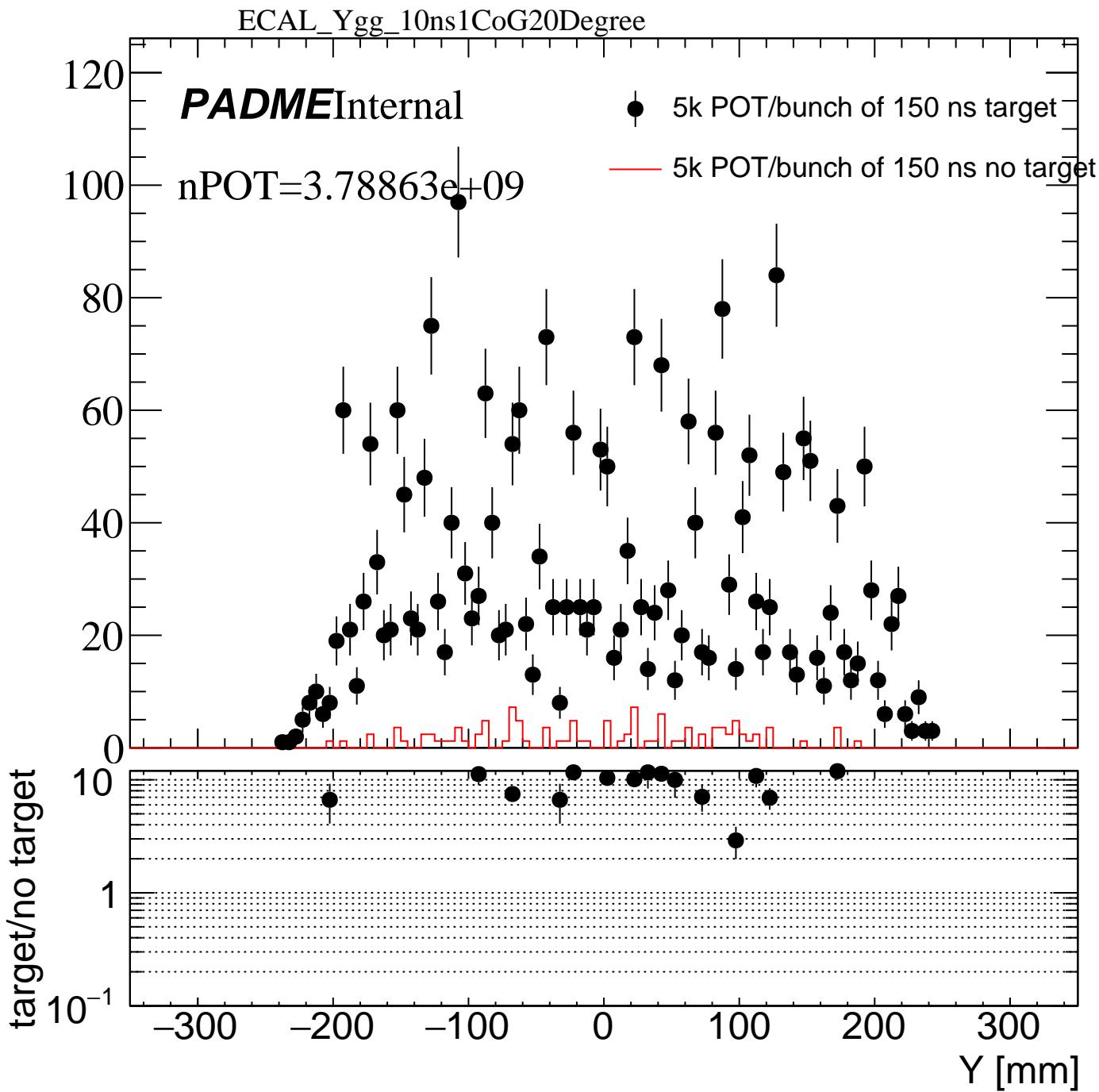


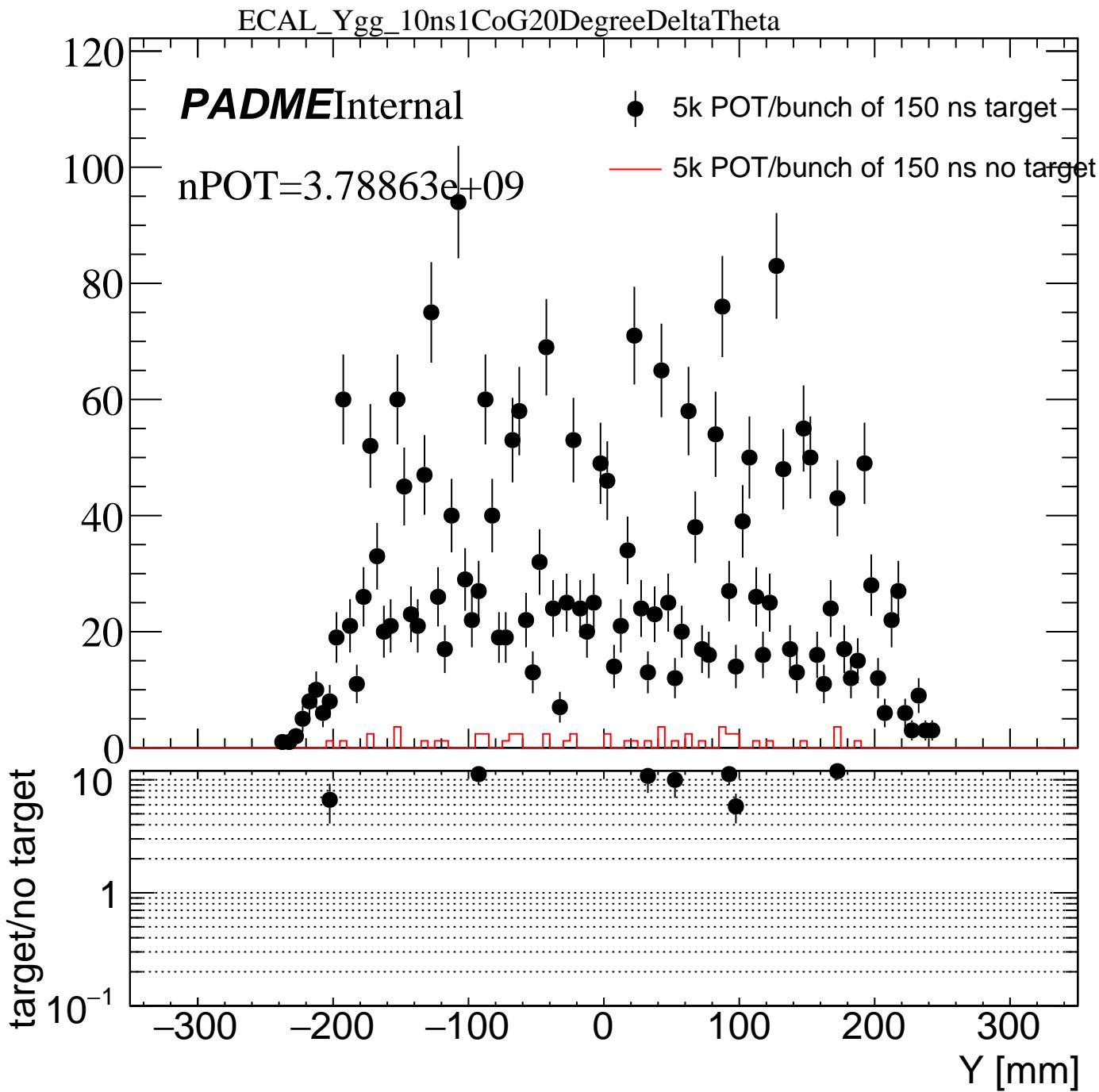


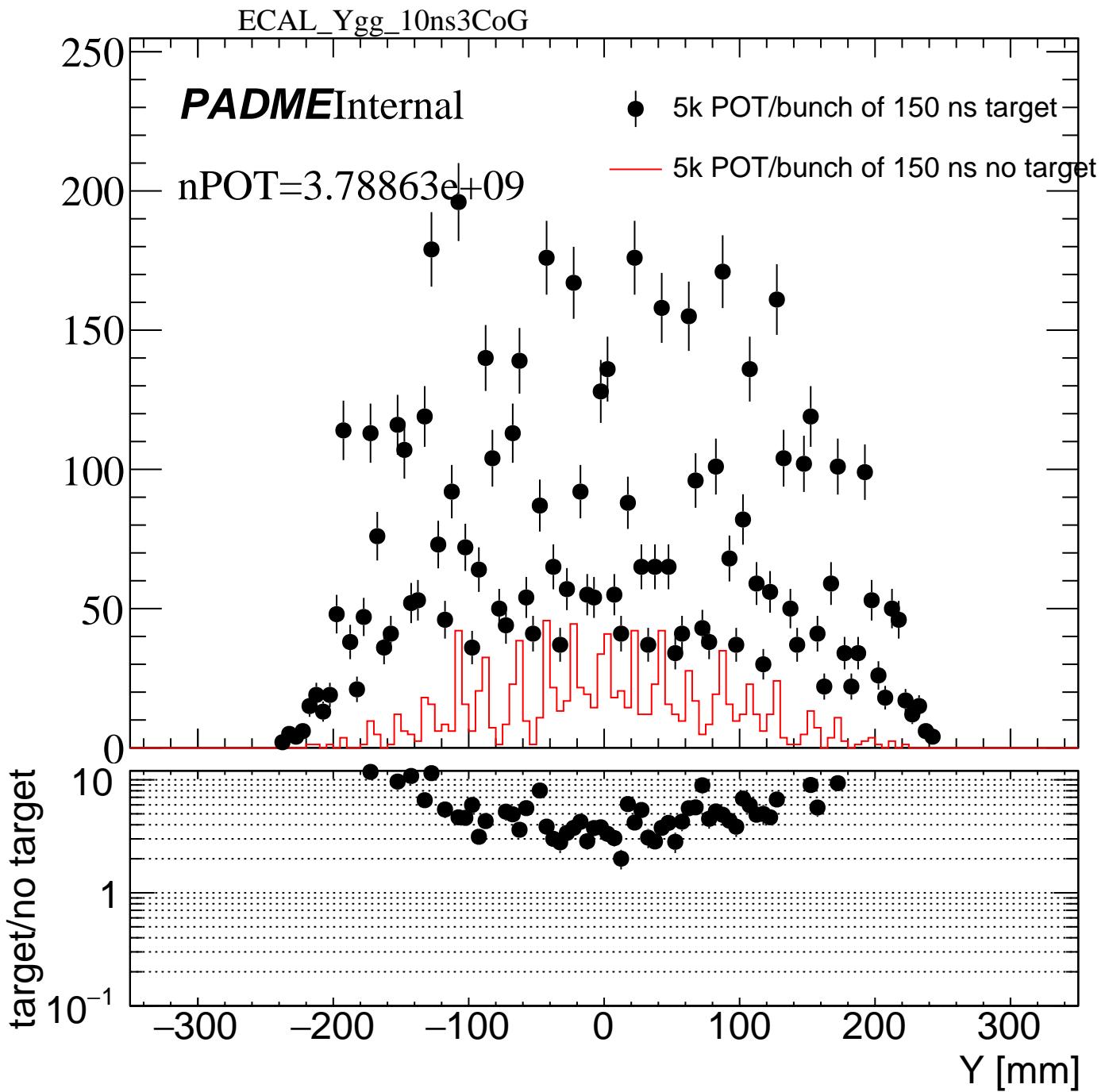




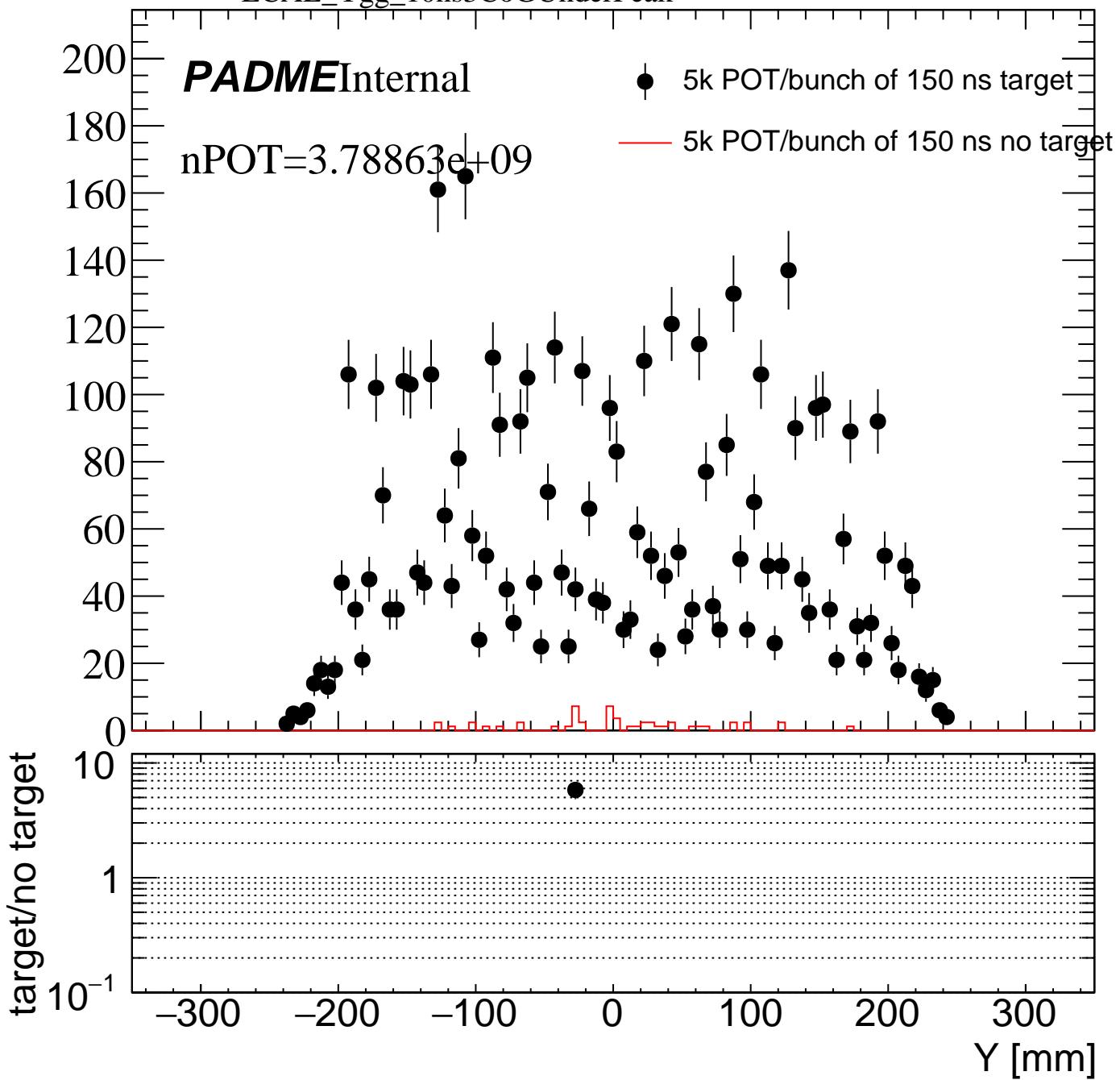




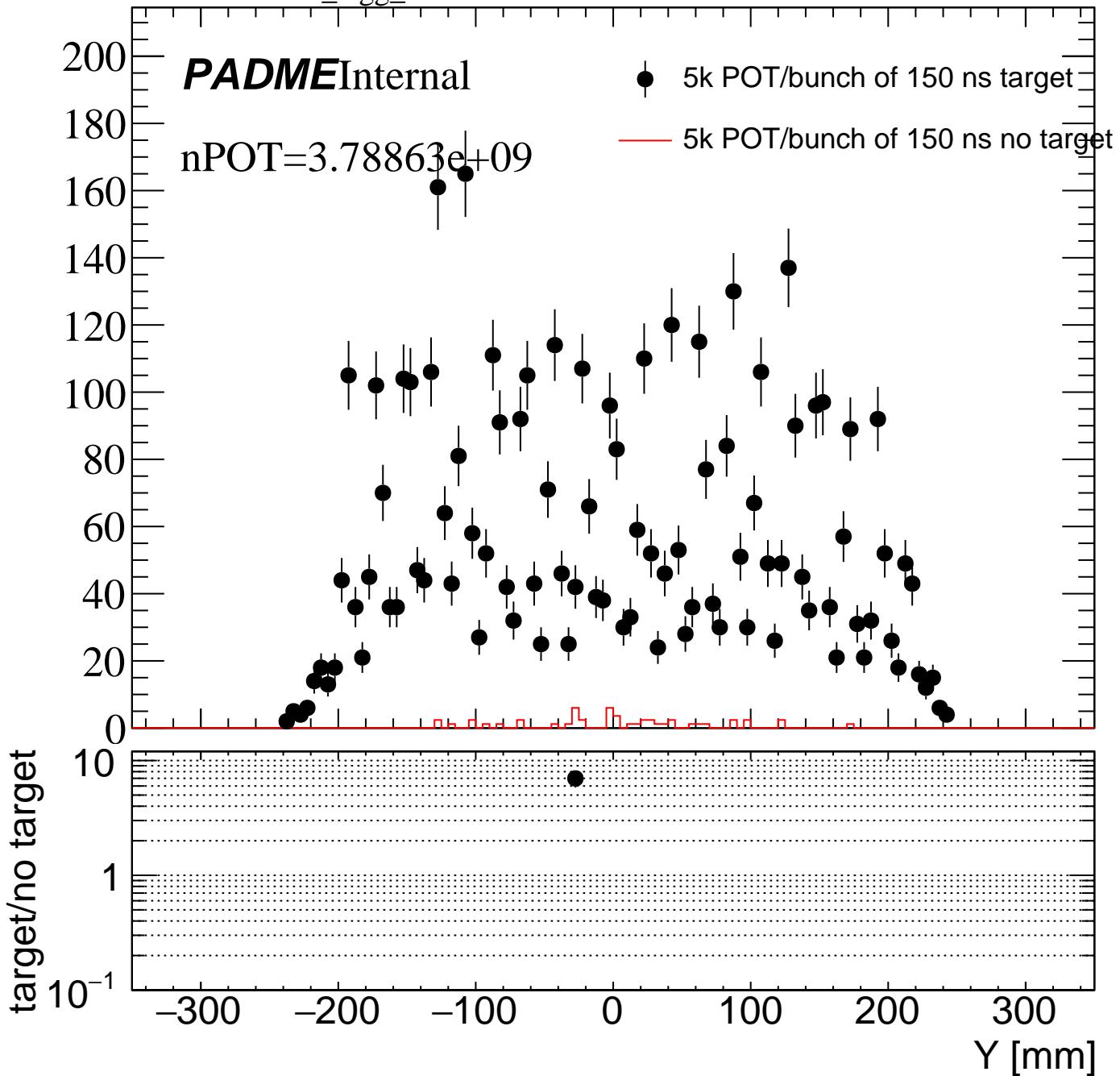


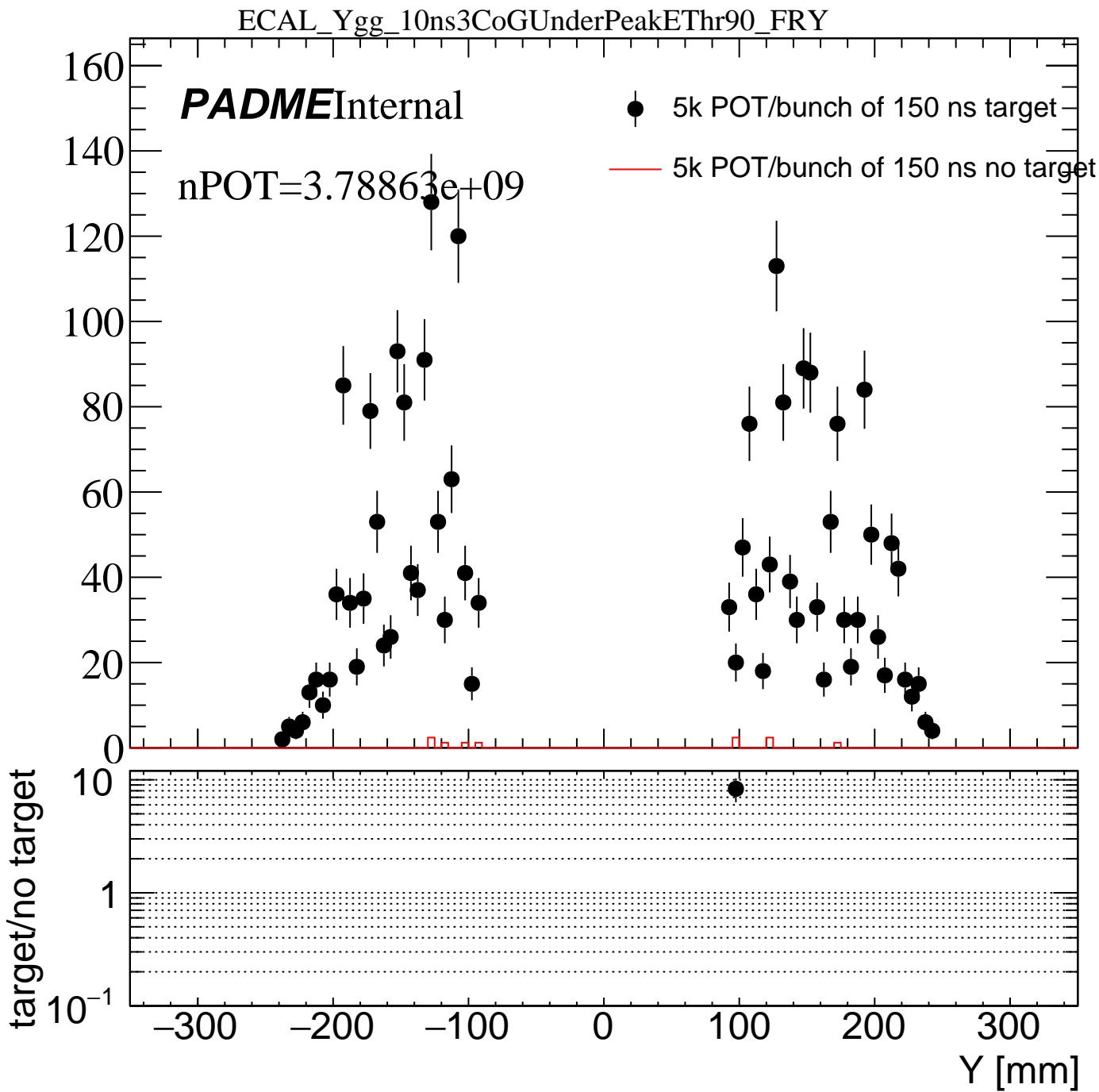


ECAL\_Ygg\_10ns3CoGUnderPeak

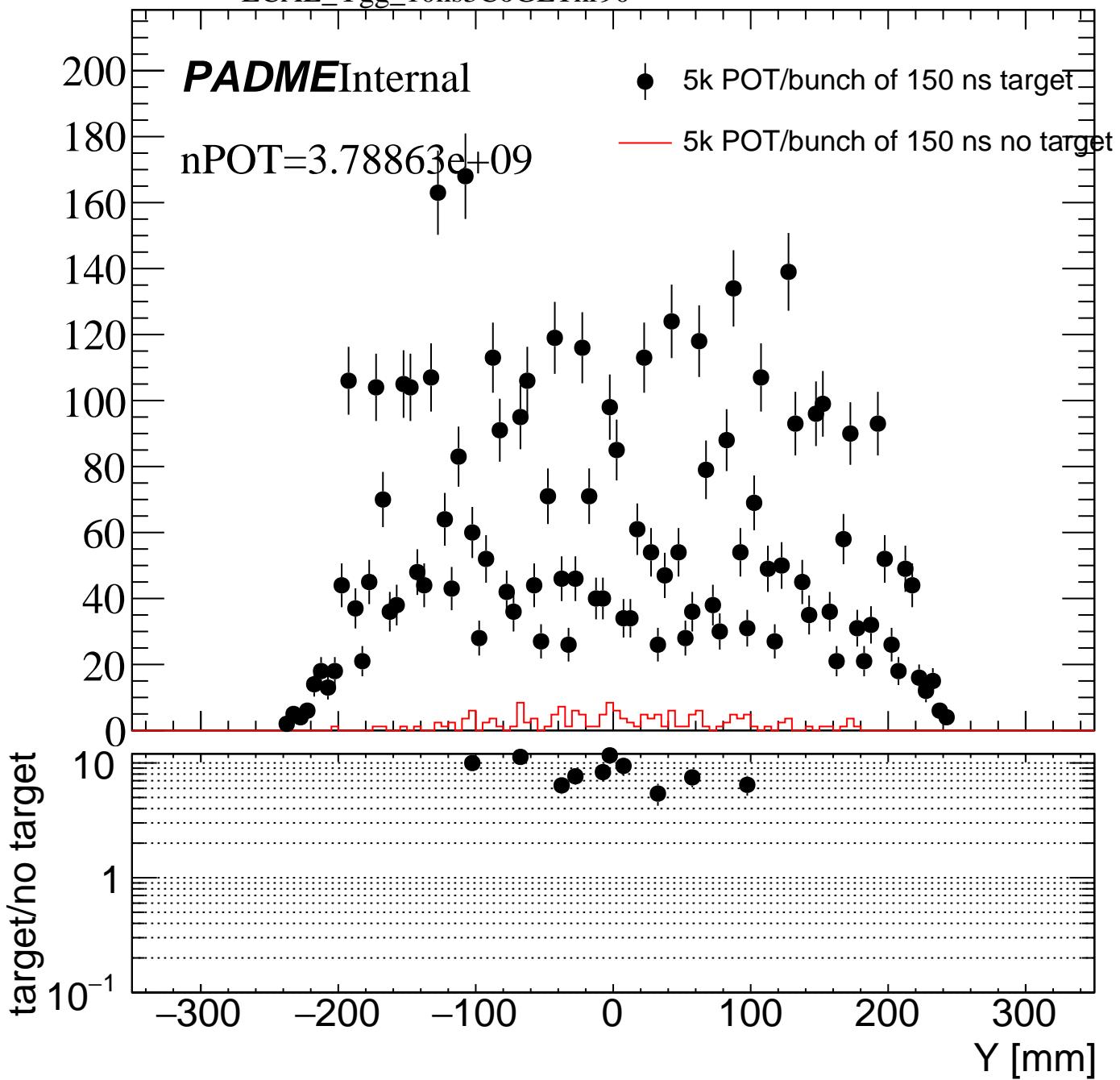


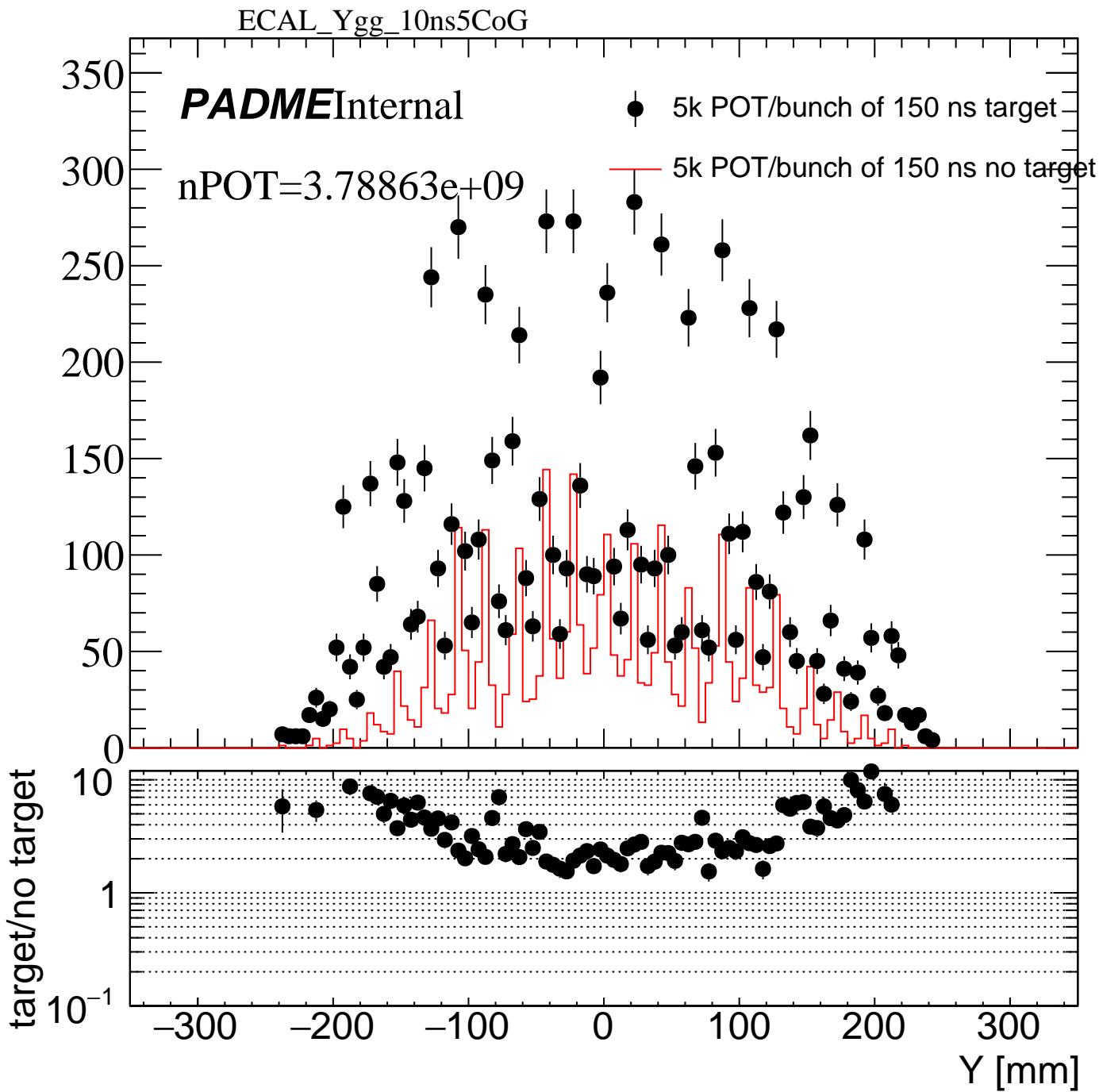
ECAL\_Ygg\_10ns3CoGUnderPeakEThr90

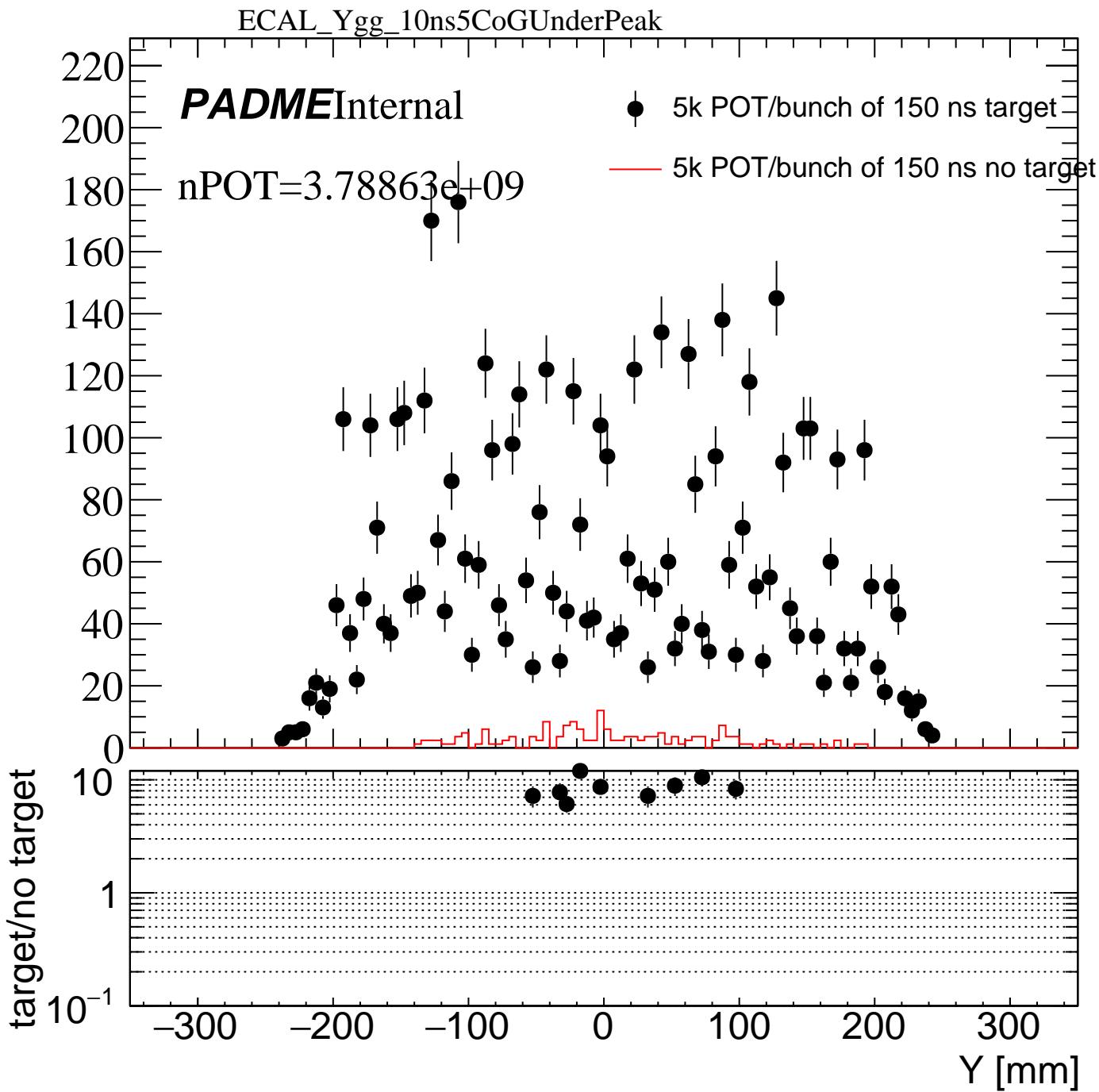




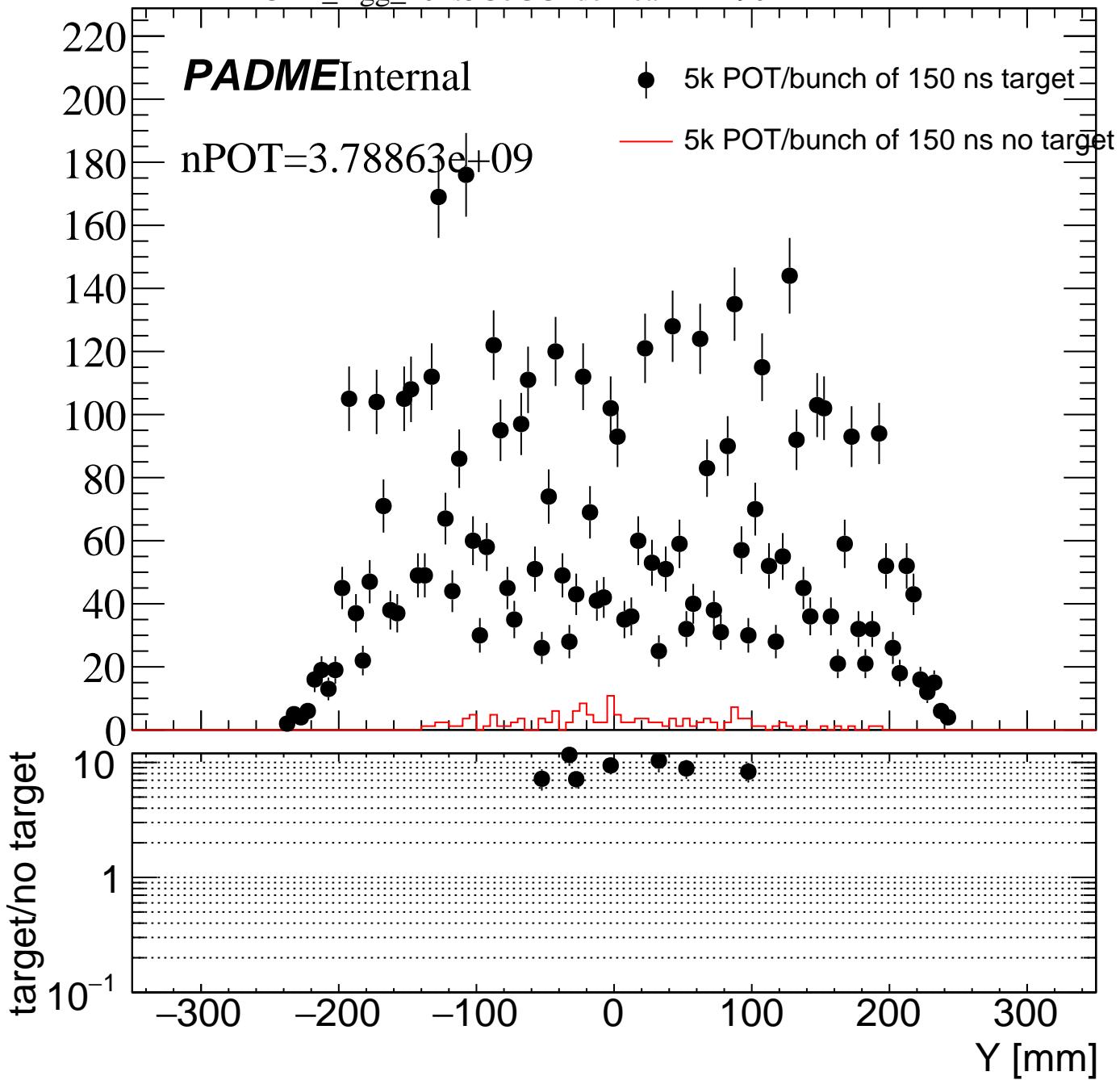
ECAL\_Ygg\_10ns3CoGEThr90



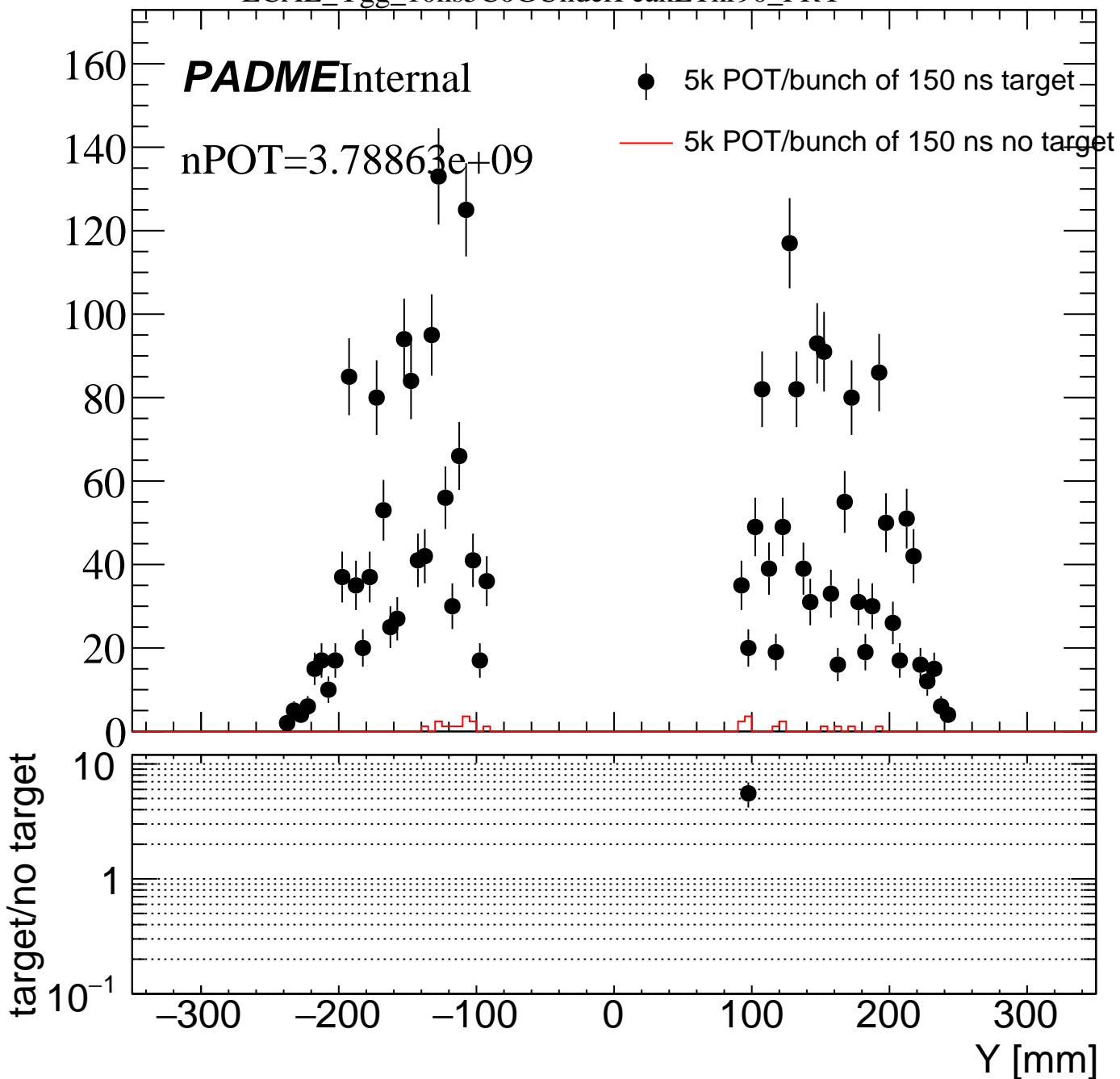




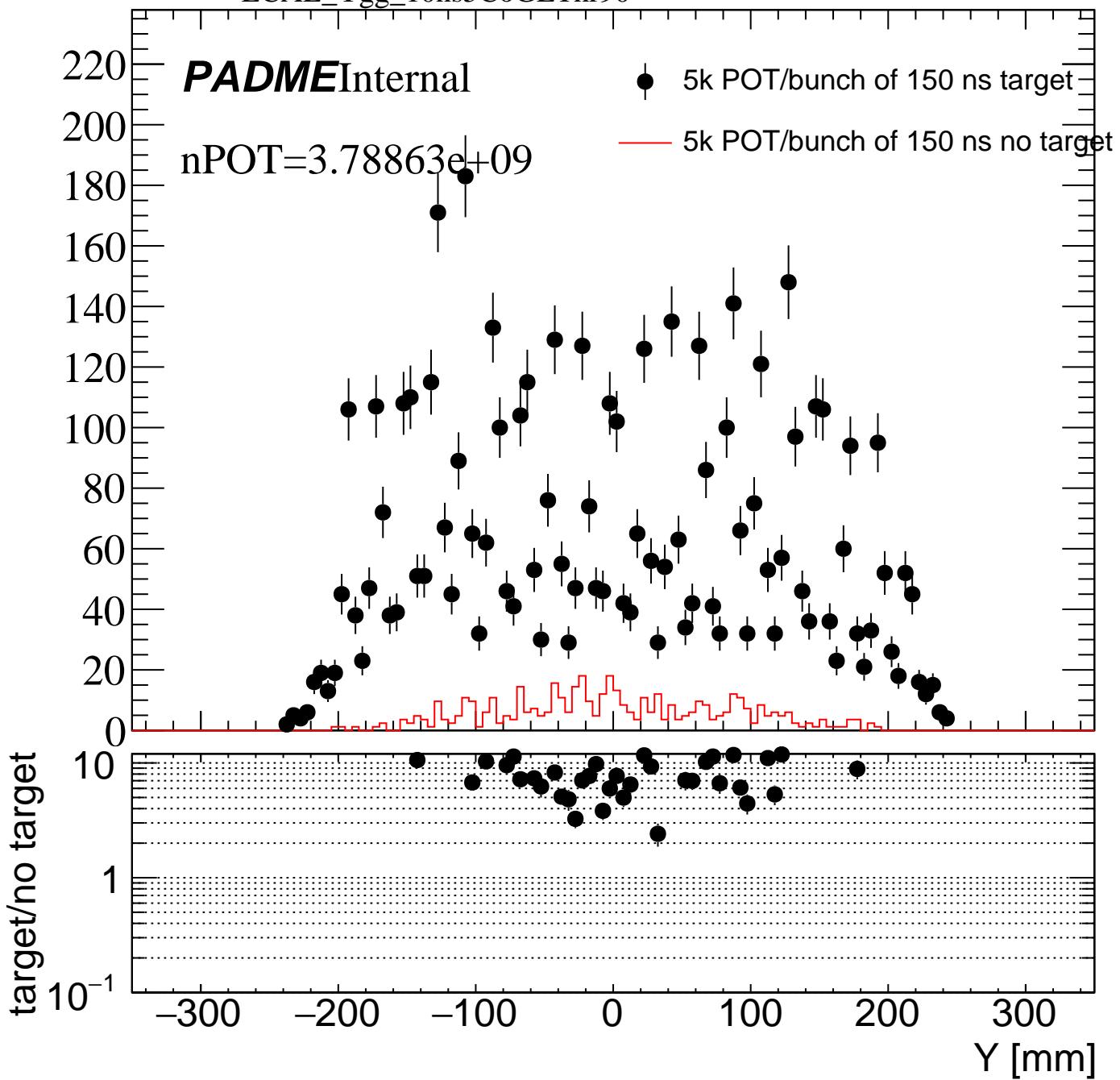
ECAL\_Ygg\_10ns5CoGUnderPeakETHr90

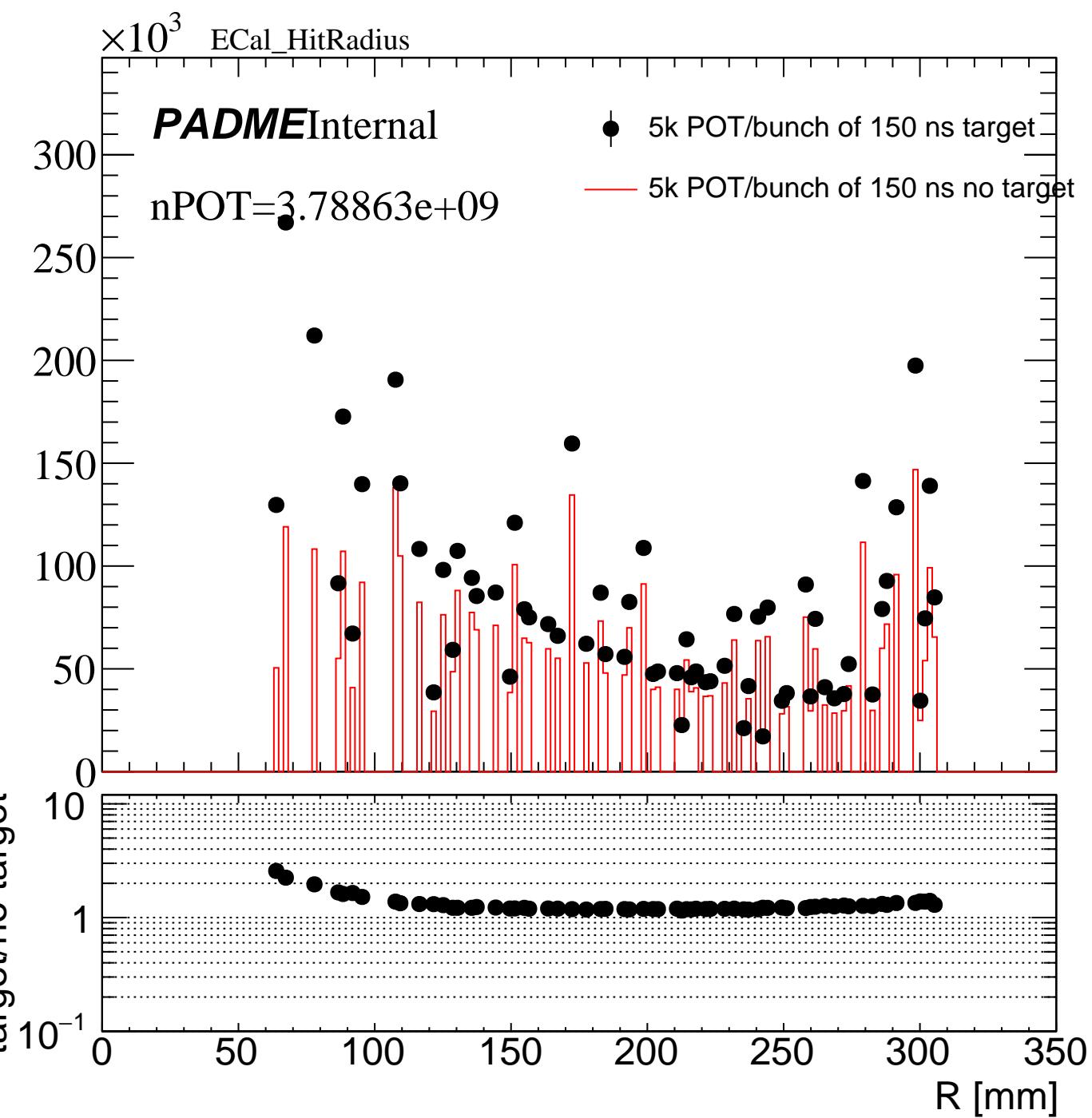


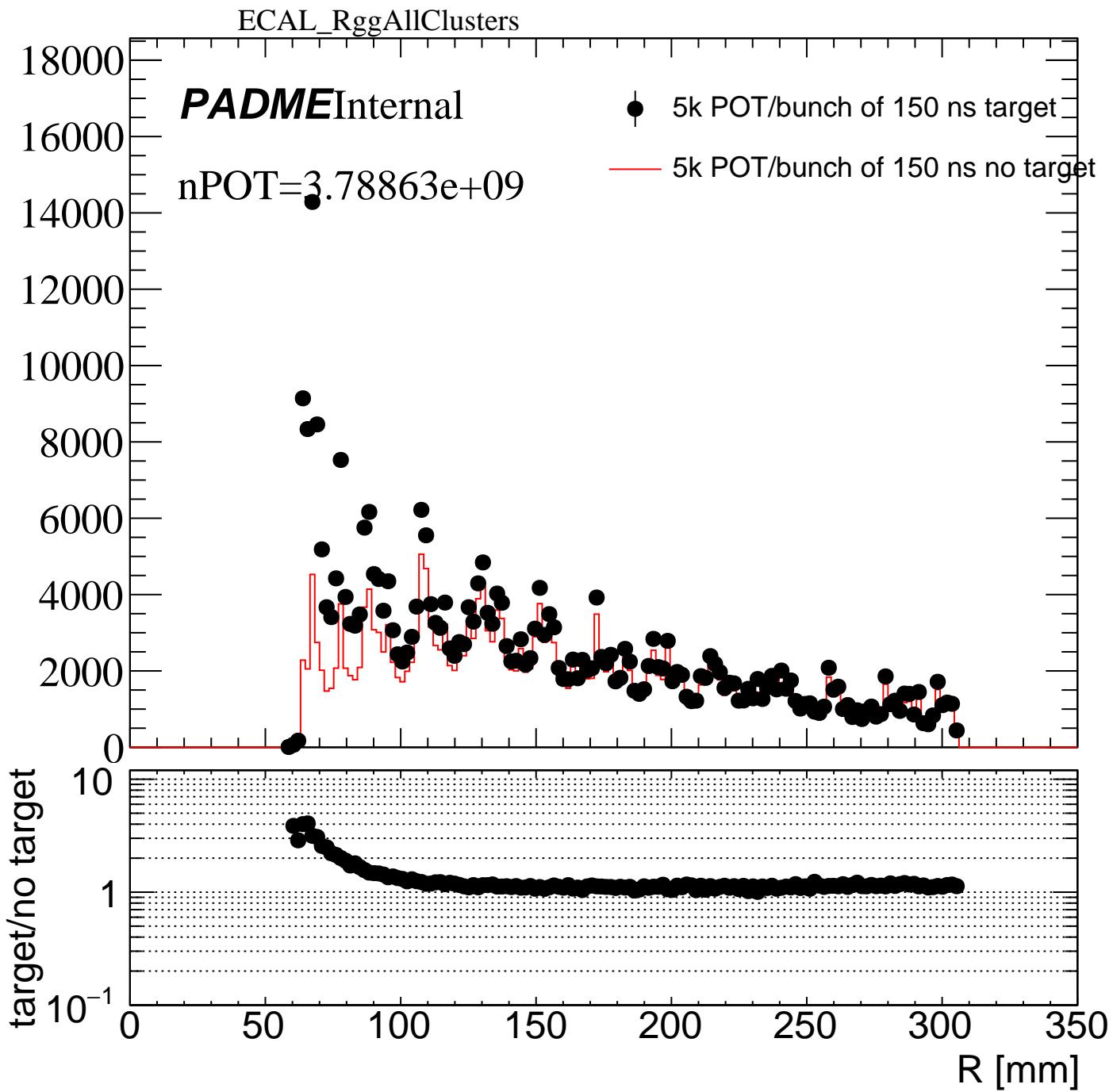
ECAL\_Ygg\_10ns5CoGUnderPeakEThr90\_FRY



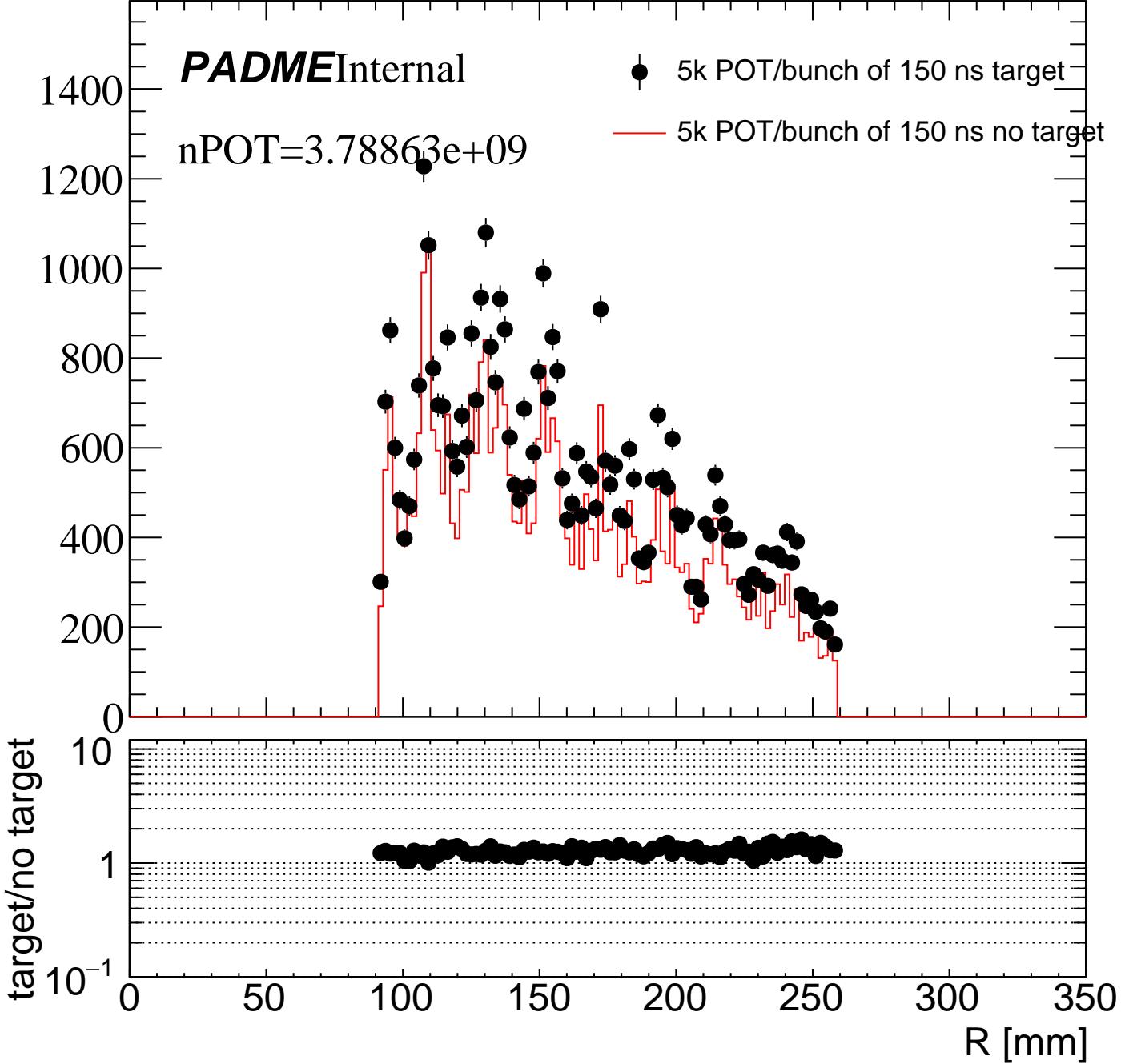
ECAL\_Ygg\_10ns5CoGEThr90

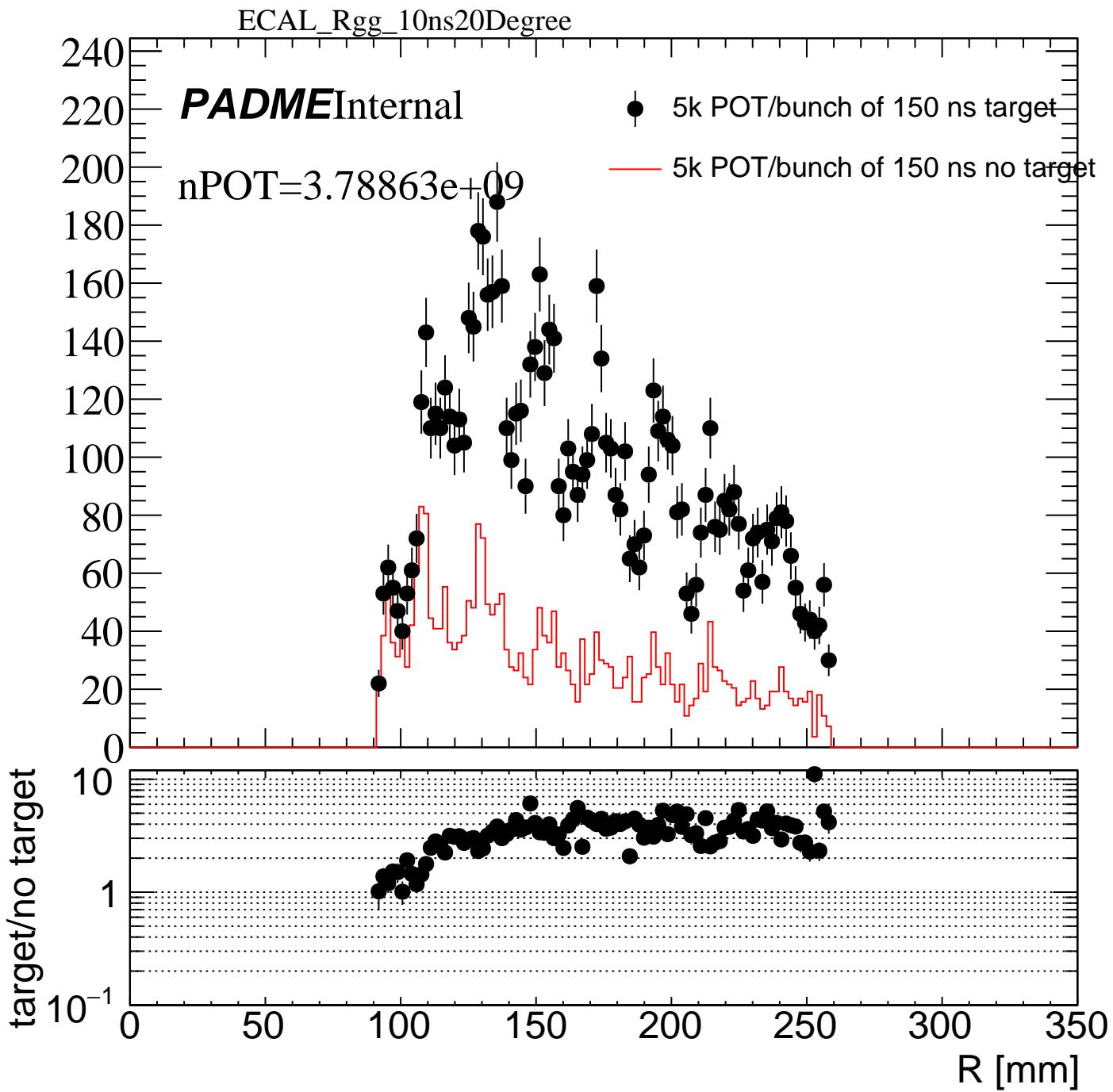




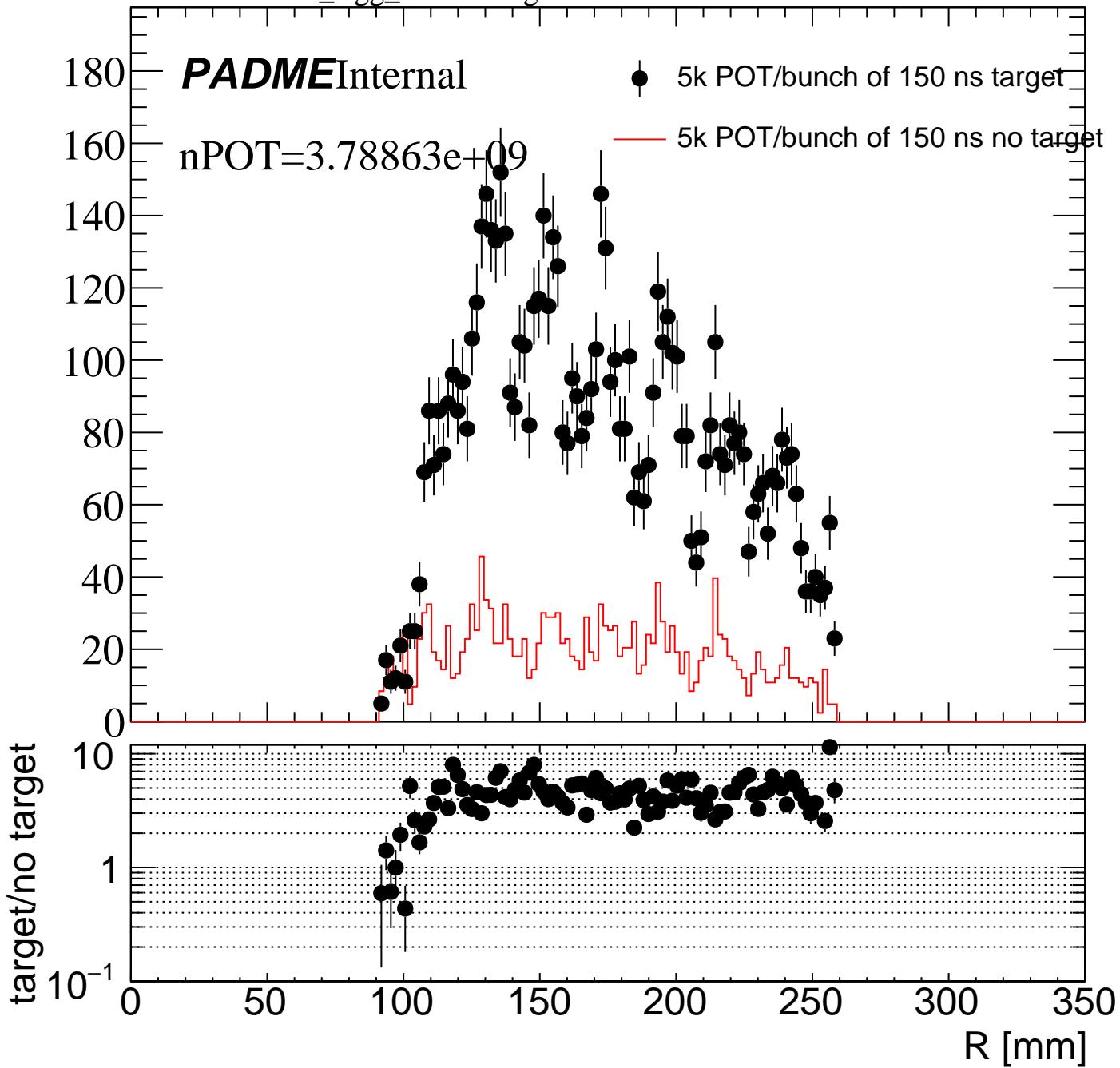


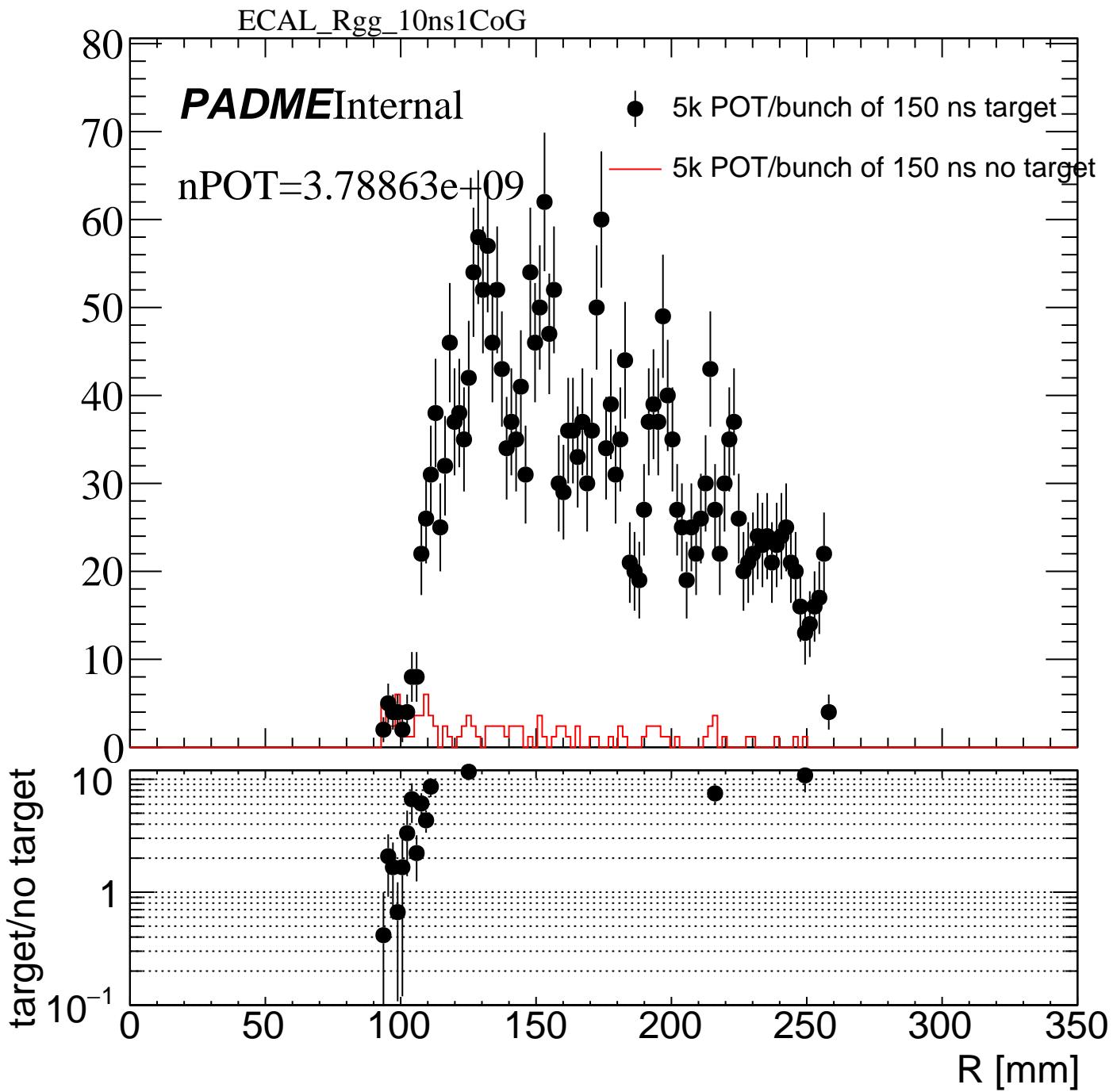
ECAL\_Rgg\_10ns



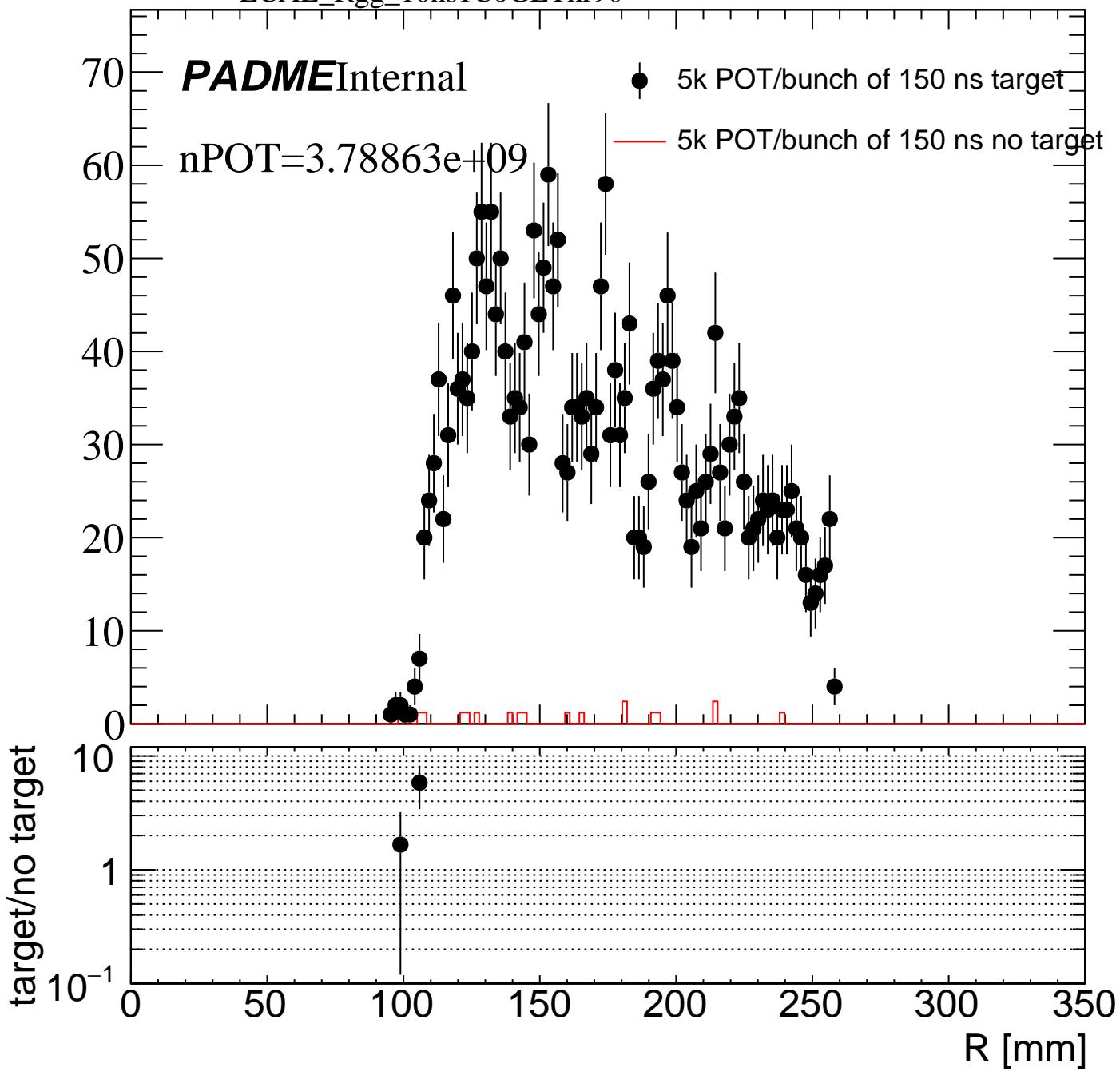


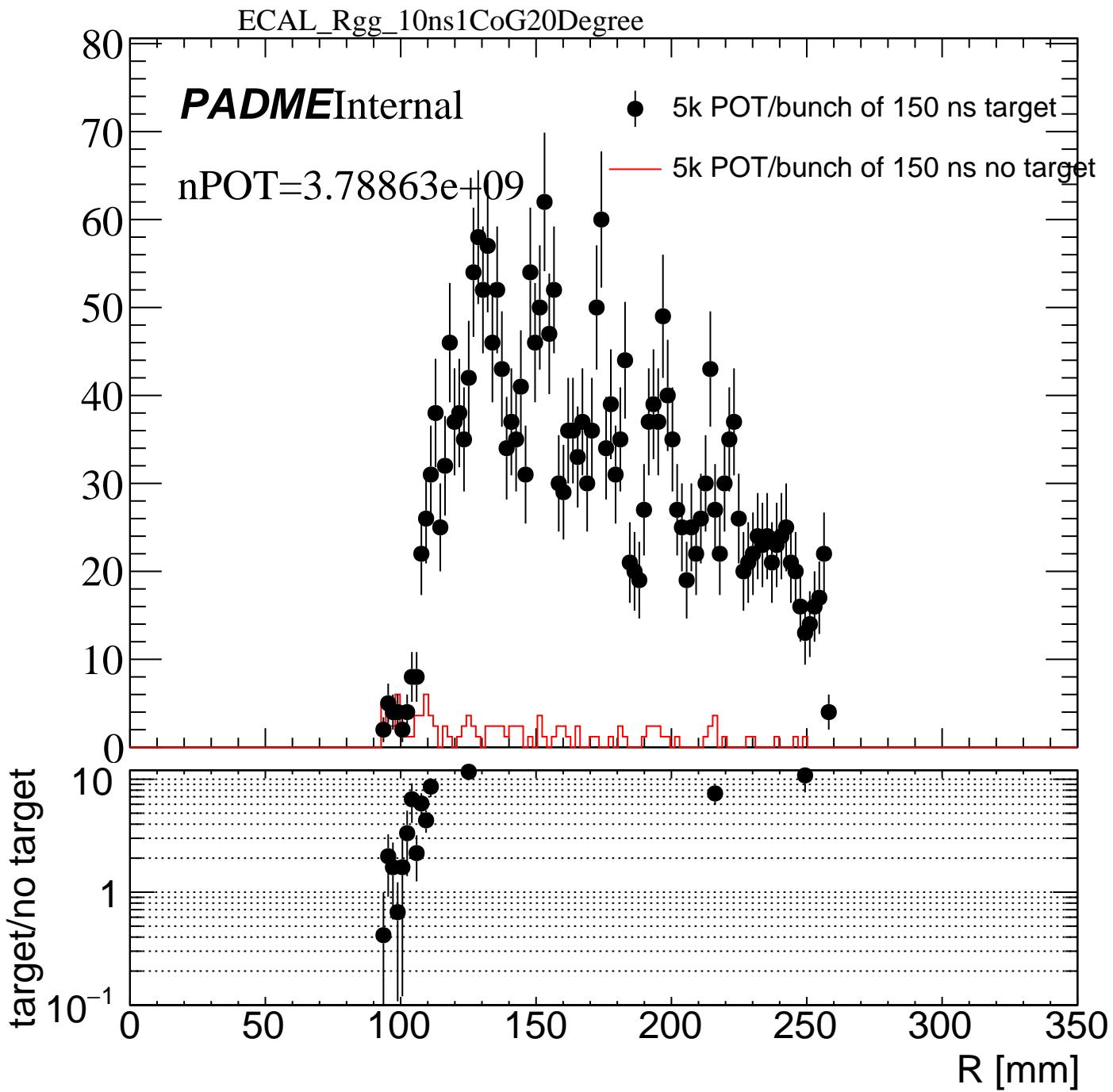
ECAL\_Rgg\_10ns20DegreeDeltaTheta



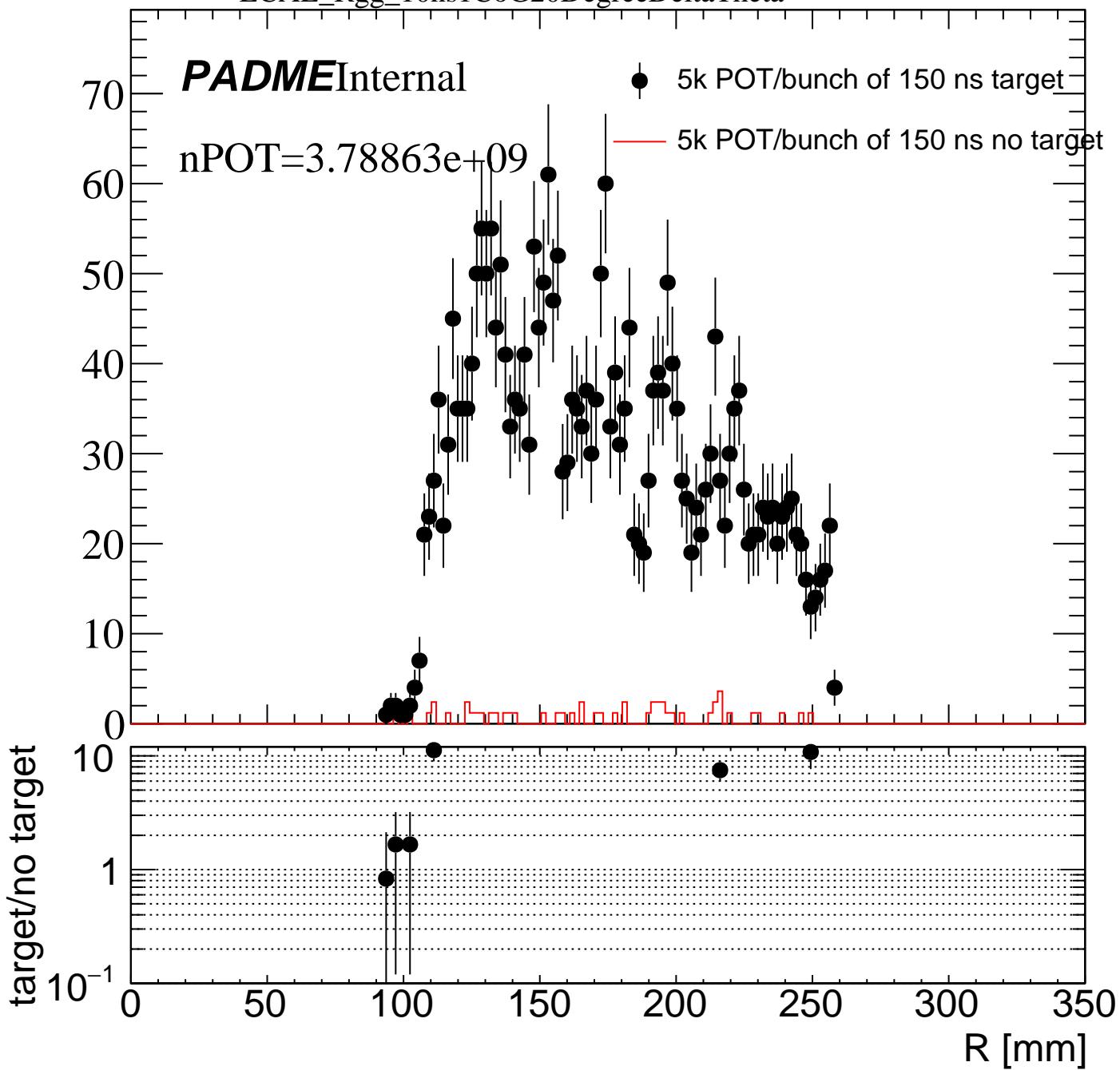


ECAL\_Rgg\_10ns1CoGEThr90

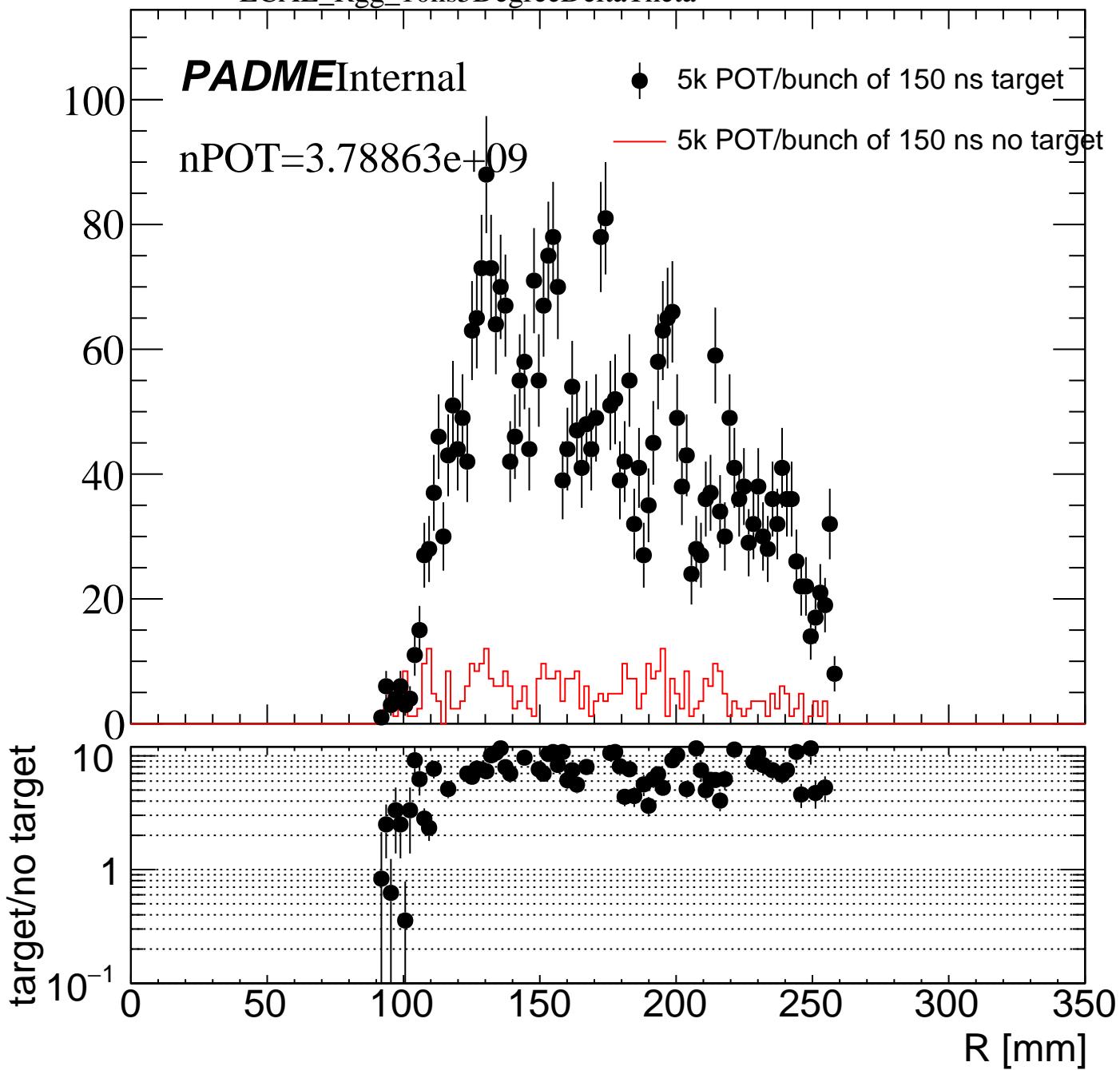




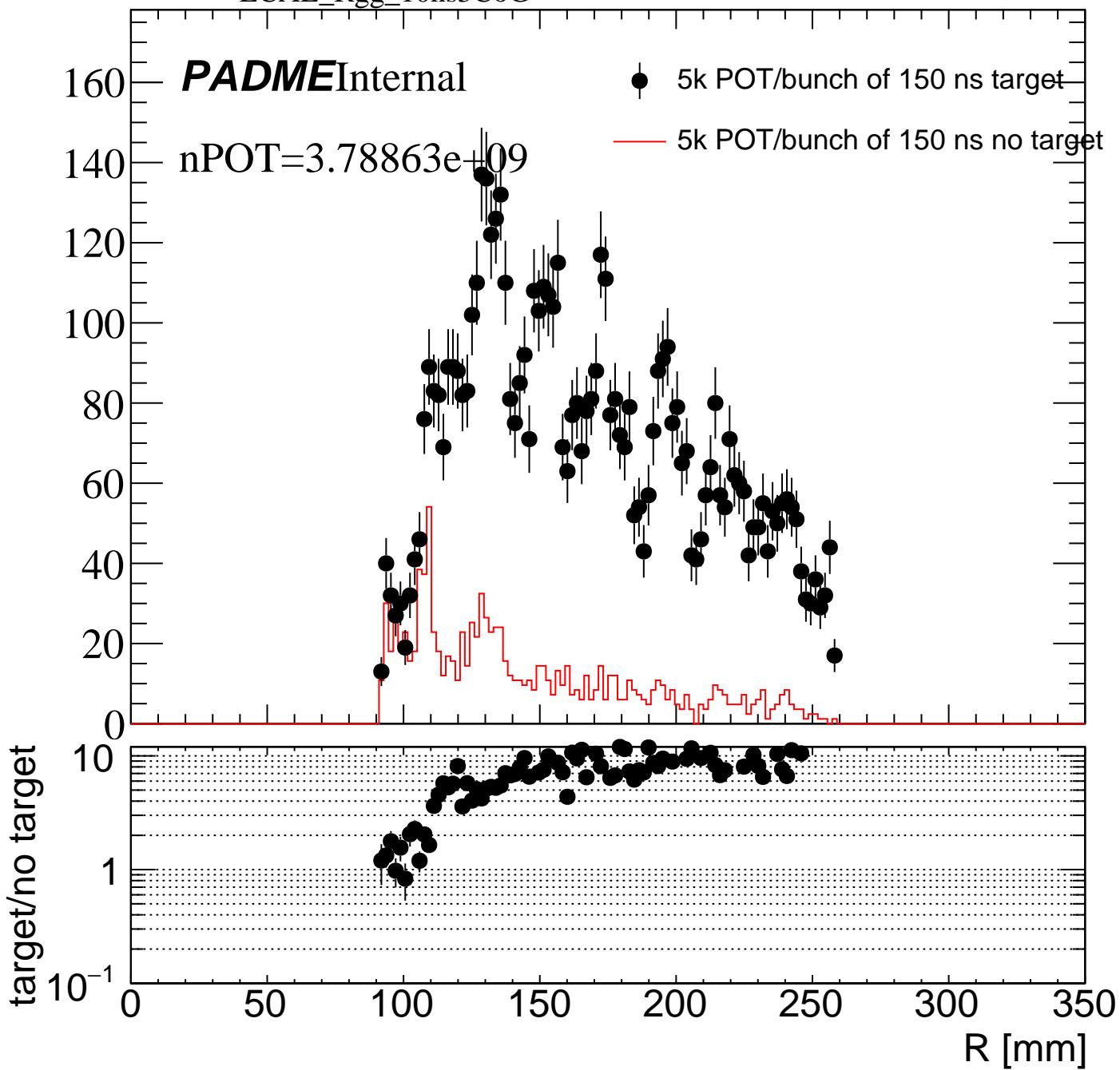
ECAL\_Rgg\_10ns1CoG20DegreeDeltaTheta

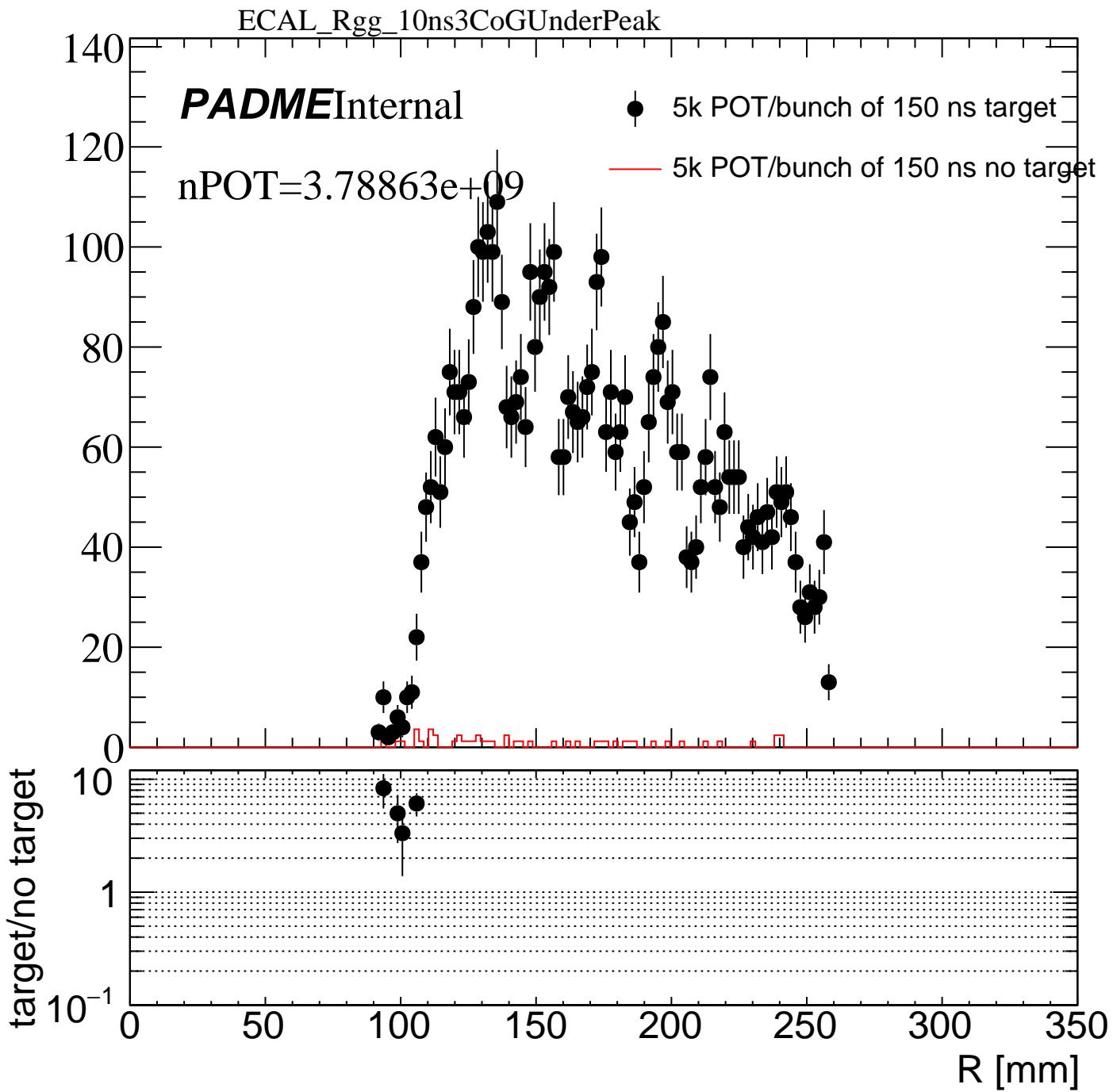


ECAL\_Rgg\_10ns5DegreeDeltaTheta

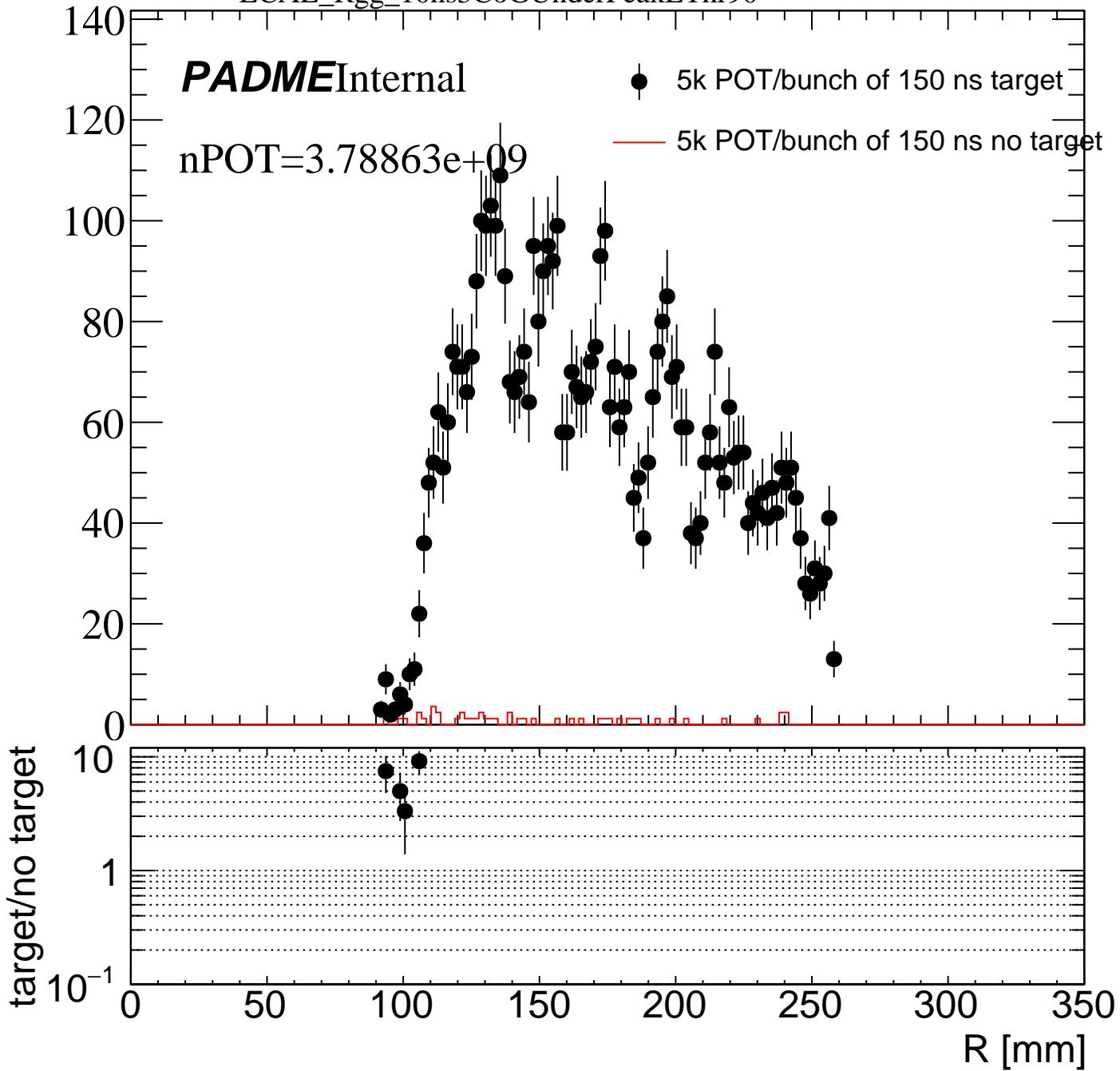


ECAL\_Rgg\_10ns3CoG

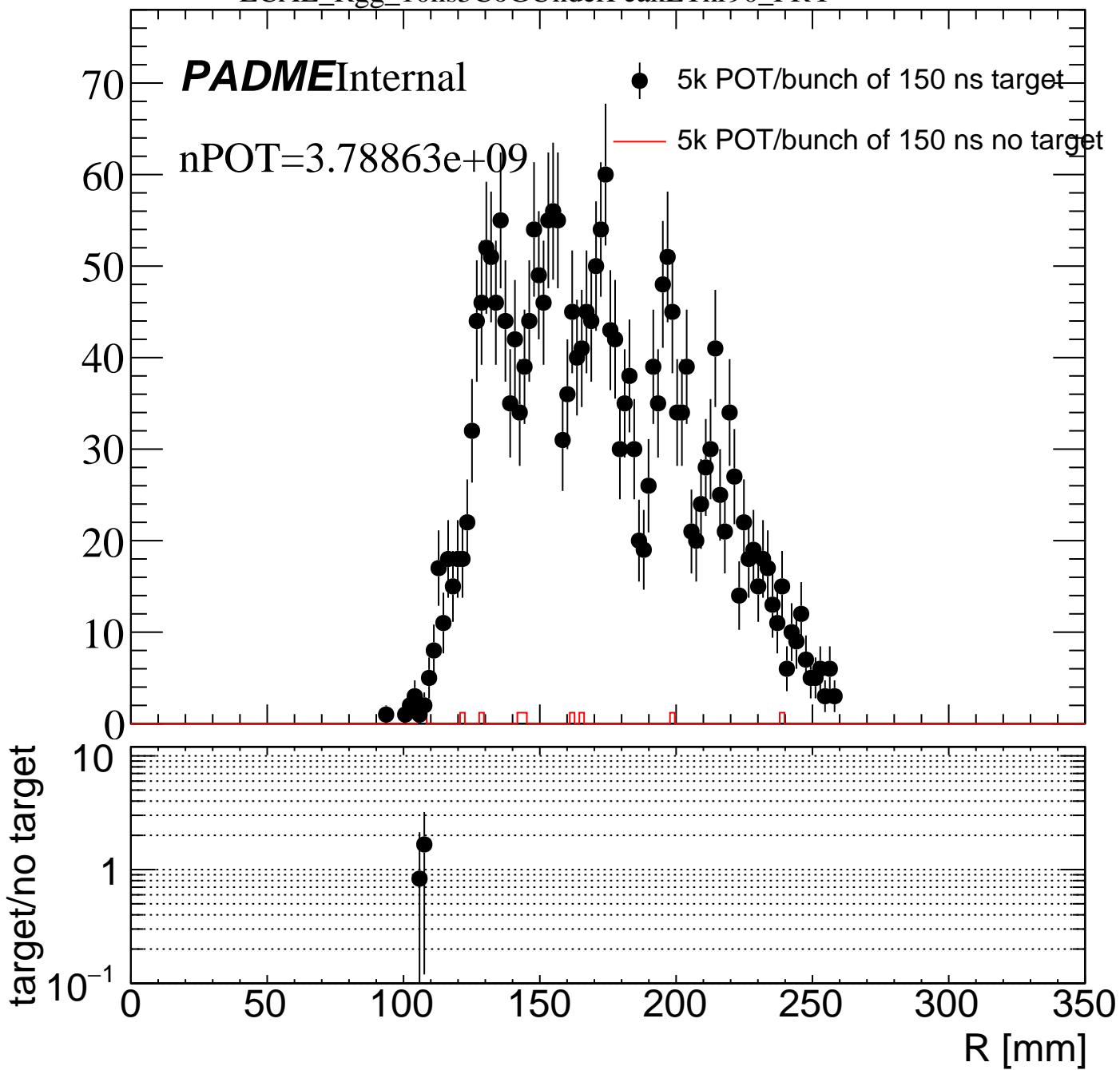




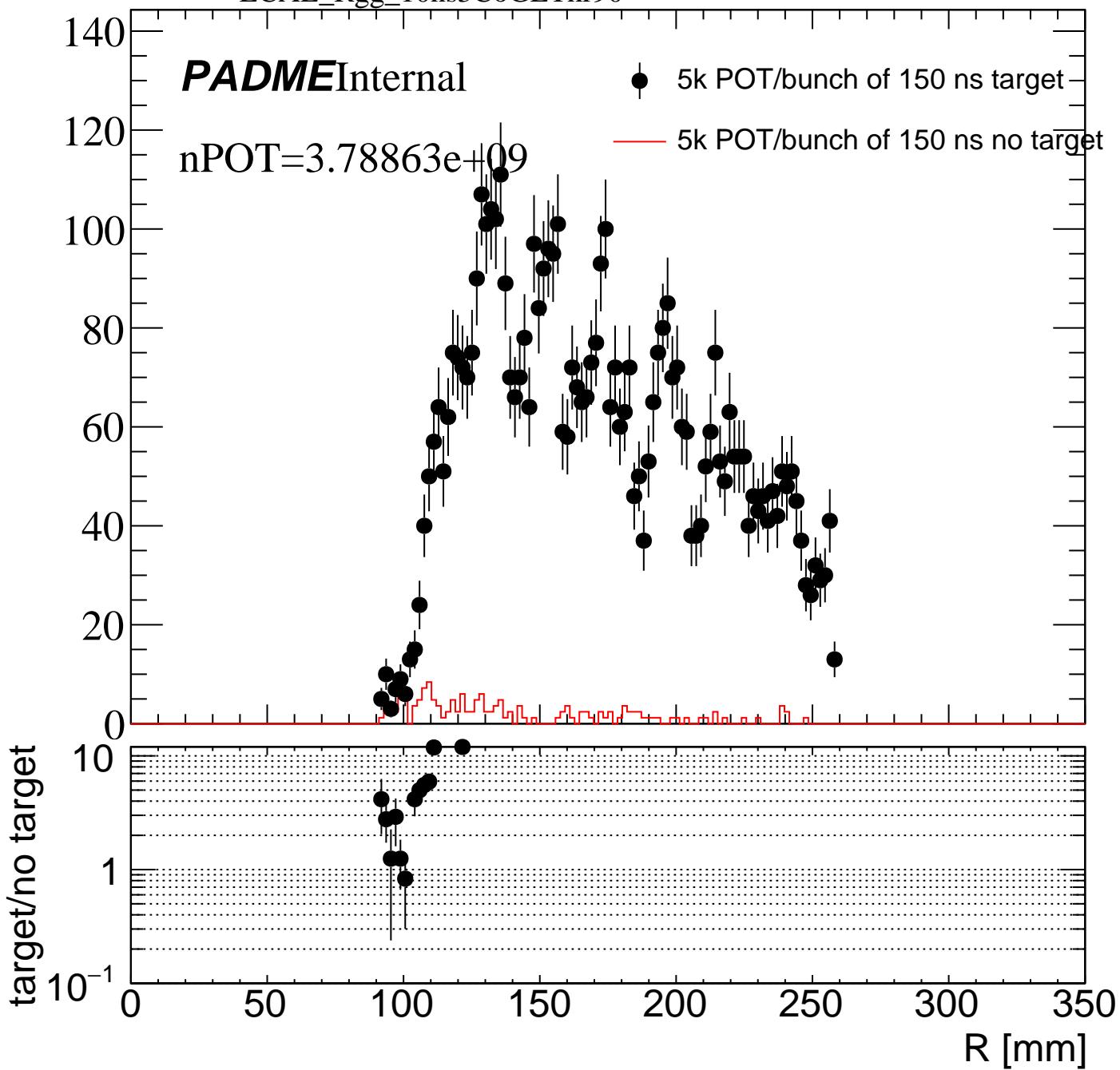
ECAL\_Rgg\_10ns3CoGUnderPeakEThr90



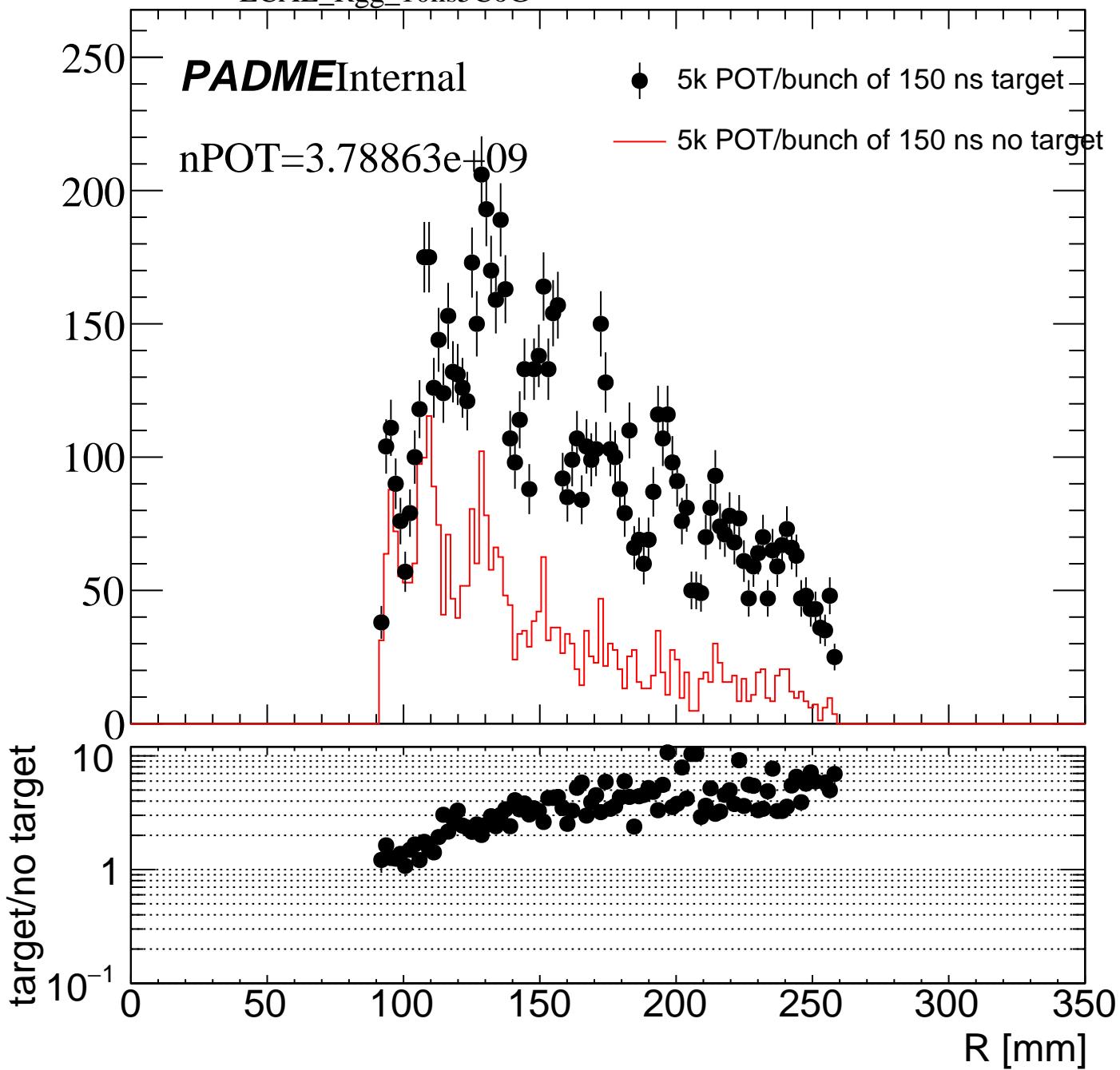
ECAL\_Rgg\_10ns3CoGUnderPeakEThr90\_FRY



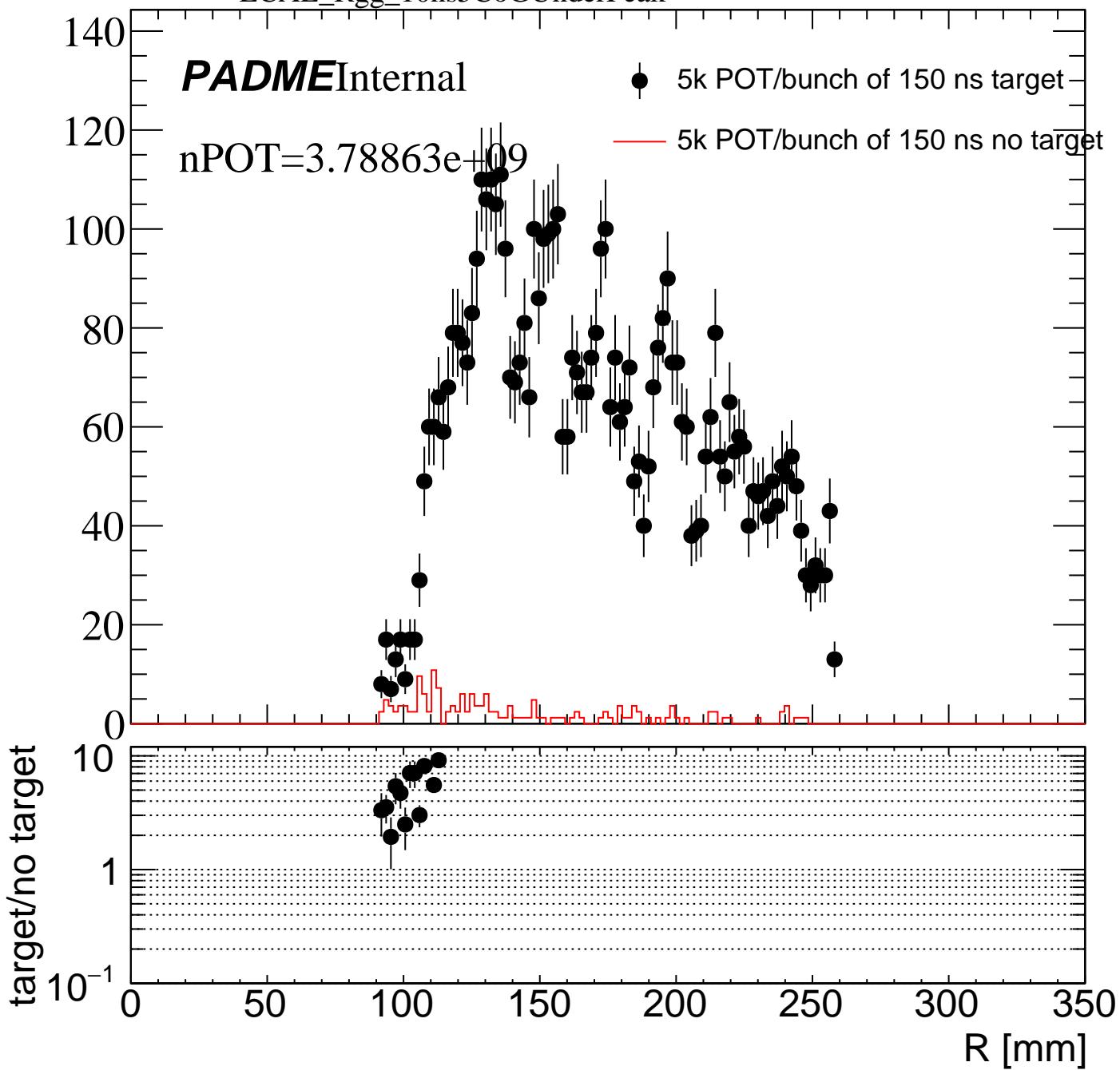
ECAL\_Rgg\_10ns3CoGEThr90



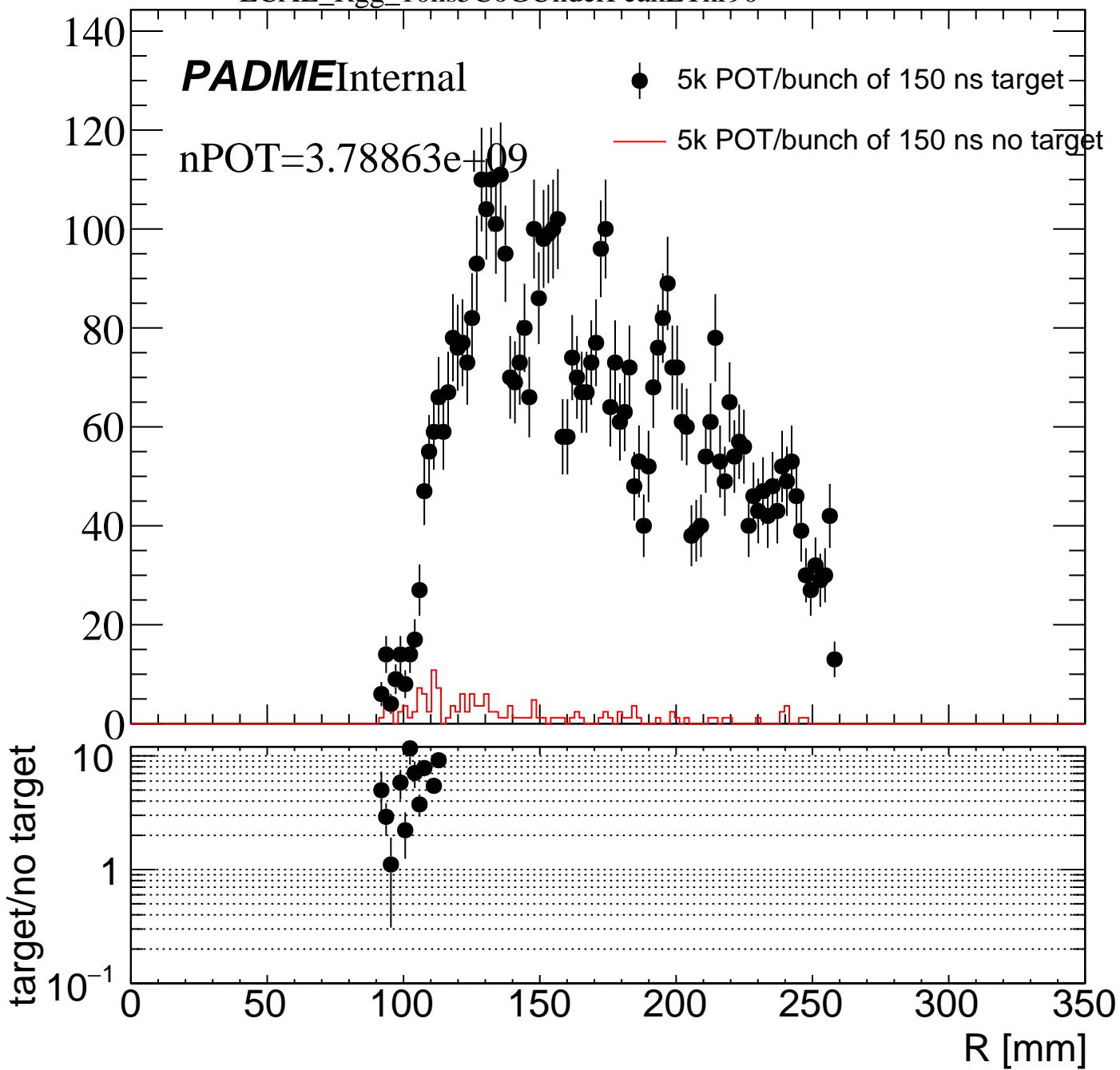
ECAL\_Rgg\_10ns5CoG



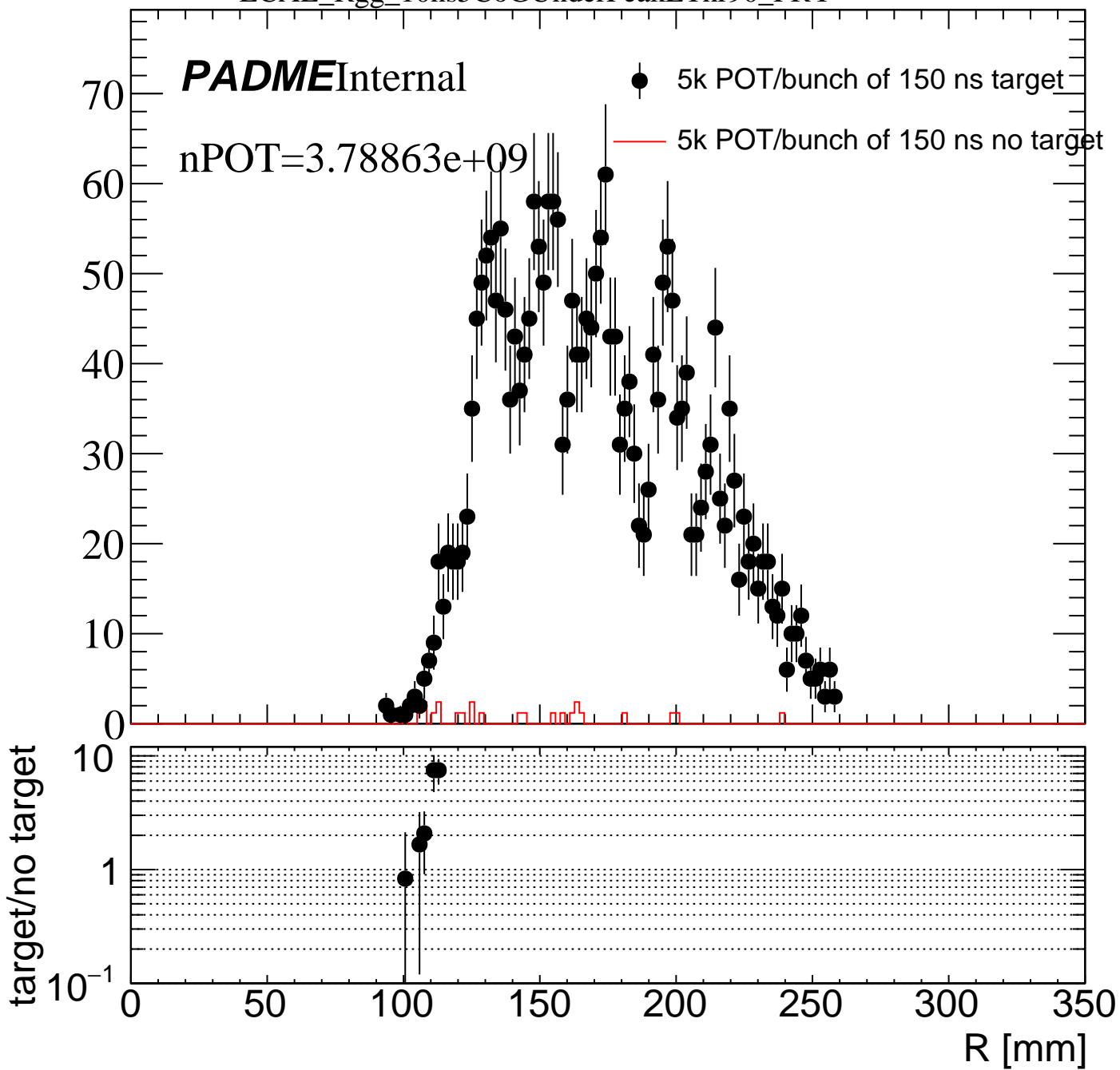
ECAL\_Rgg\_10ns5CoGUnderPeak



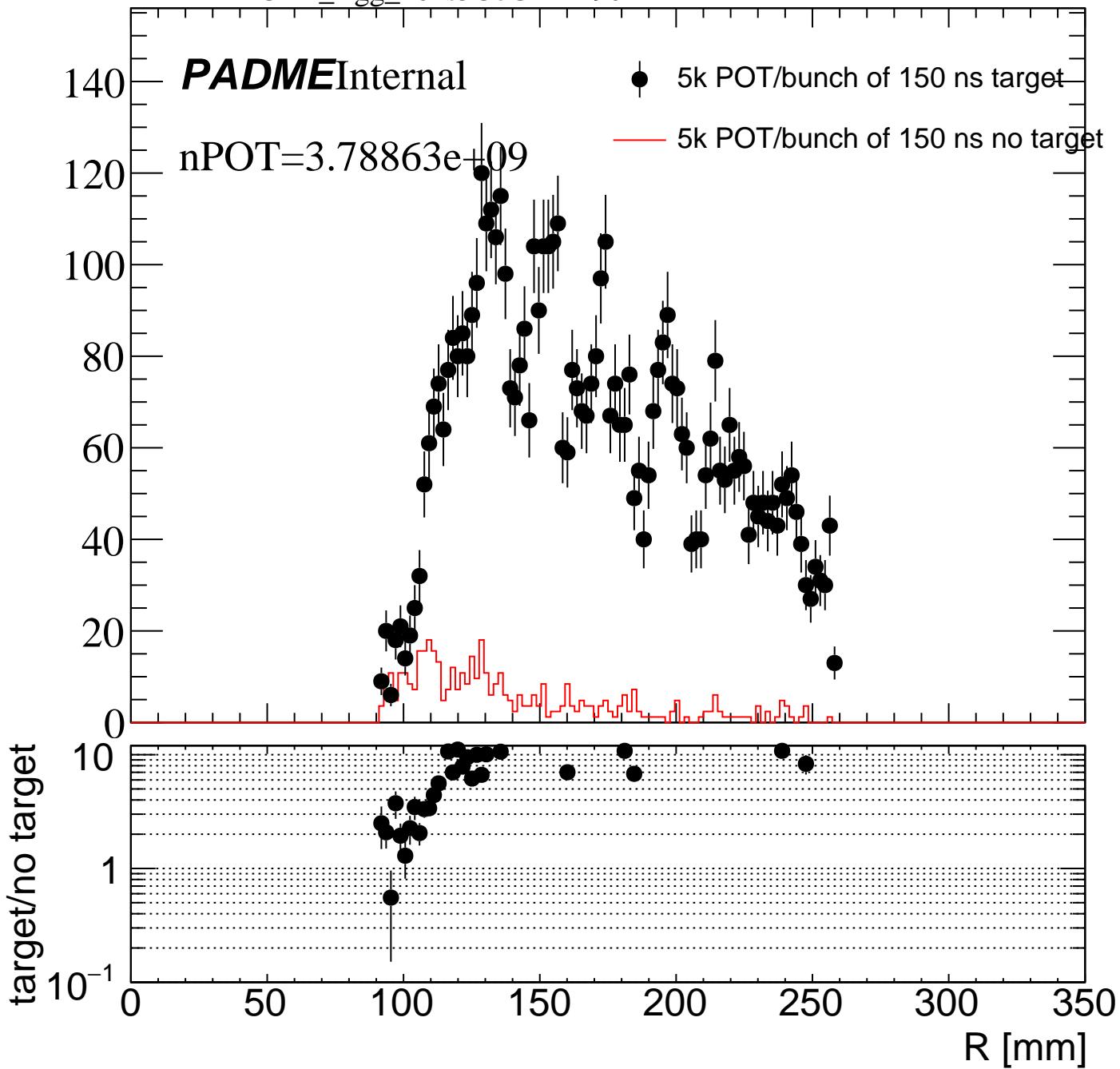
ECAL\_Rgg\_10ns5CoGUnderPeakEThr90



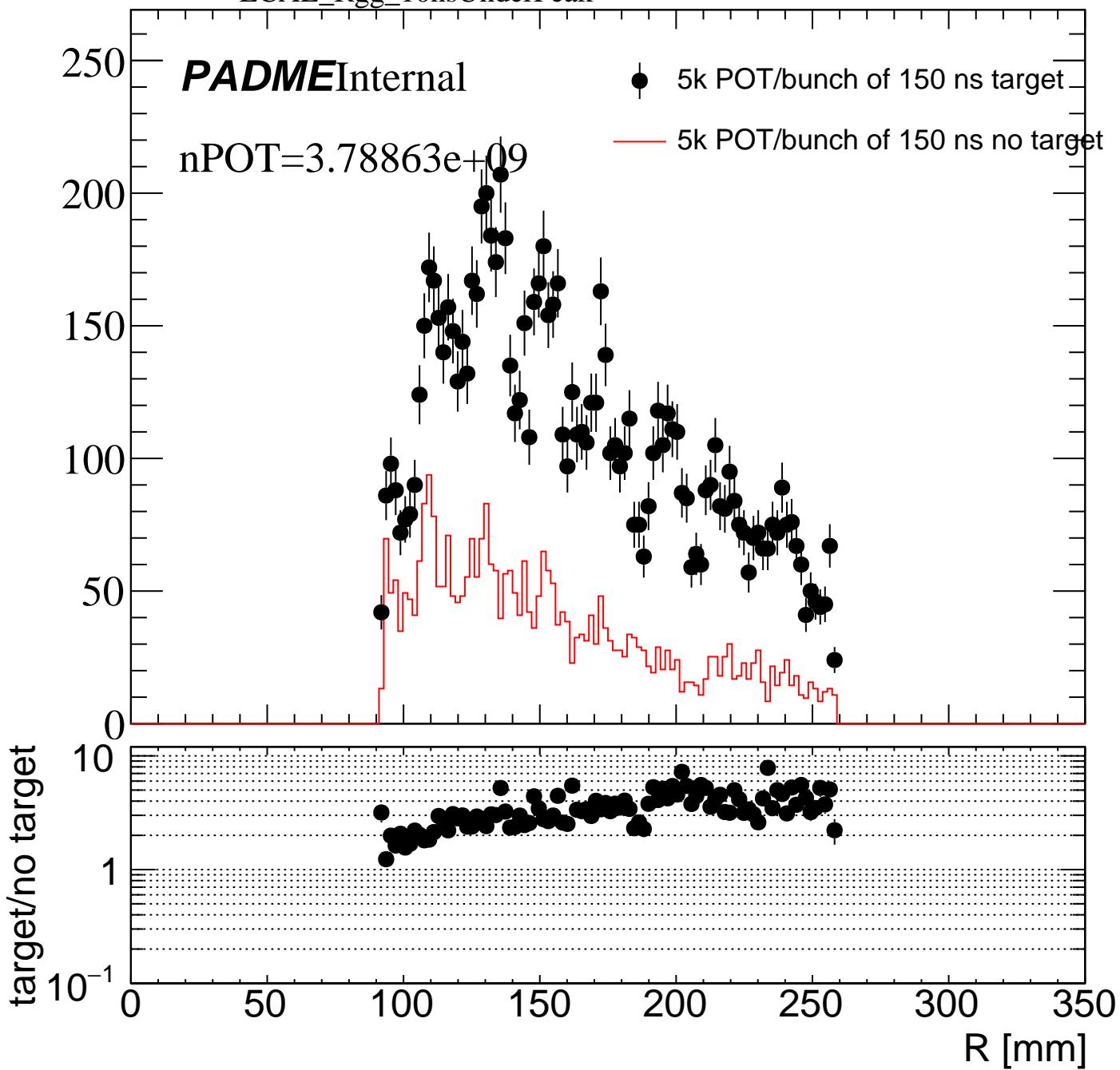
ECAL\_Rgg\_10ns5CoGUnderPeakEThr90\_FRY



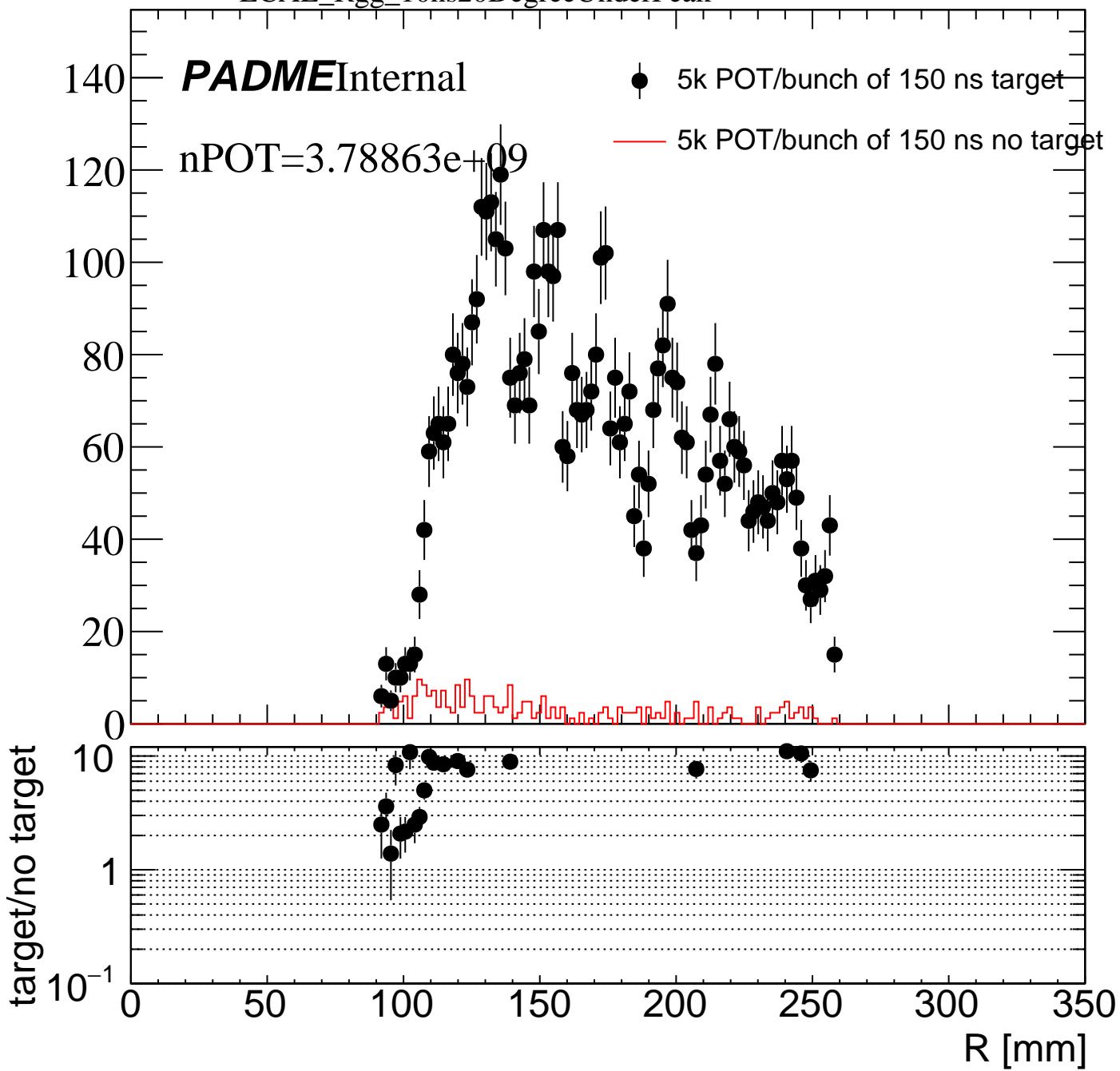
ECAL\_Rgg\_10ns5CoGEThr90



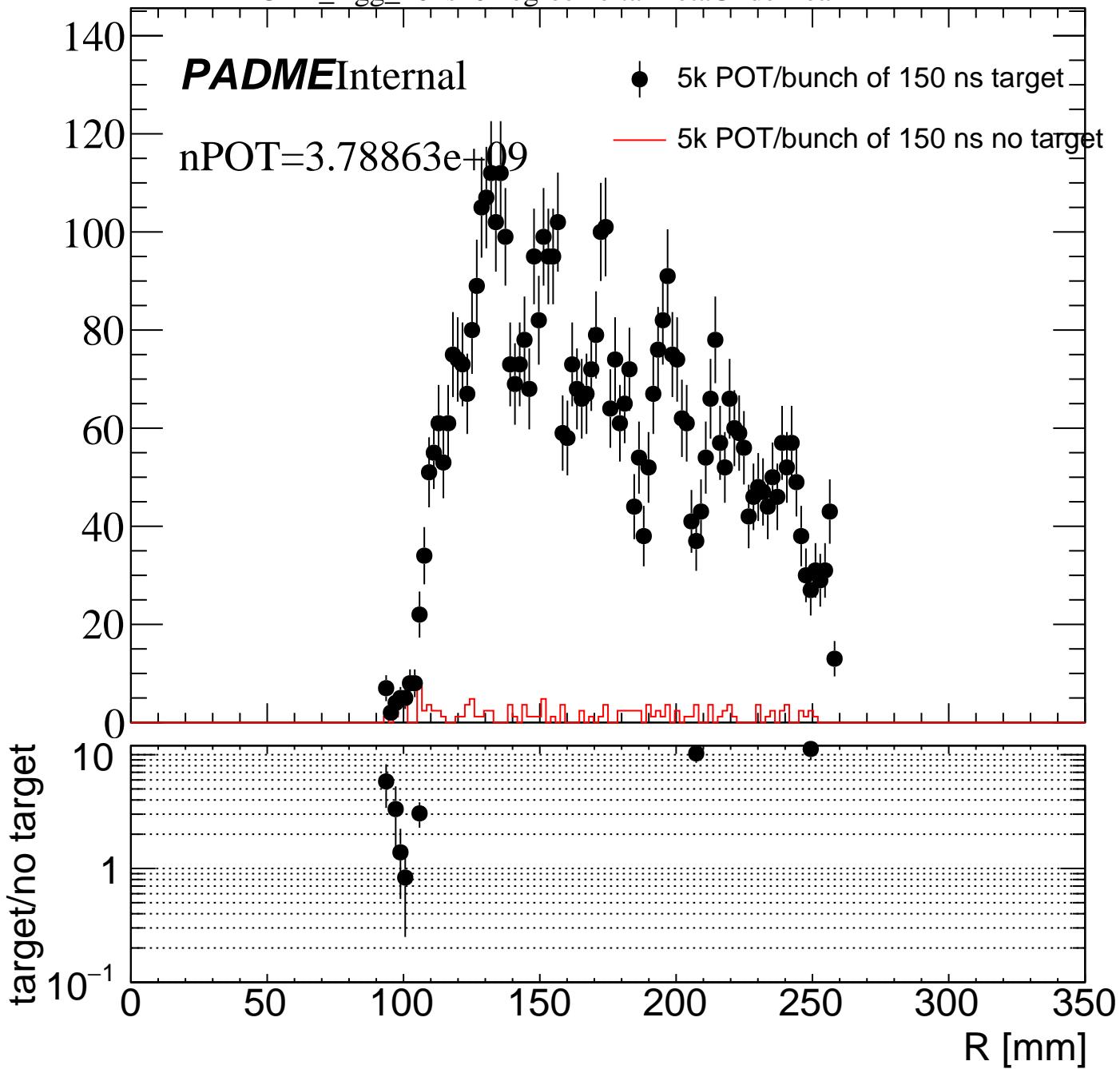
ECAL\_Rgg\_10nsUnderPeak



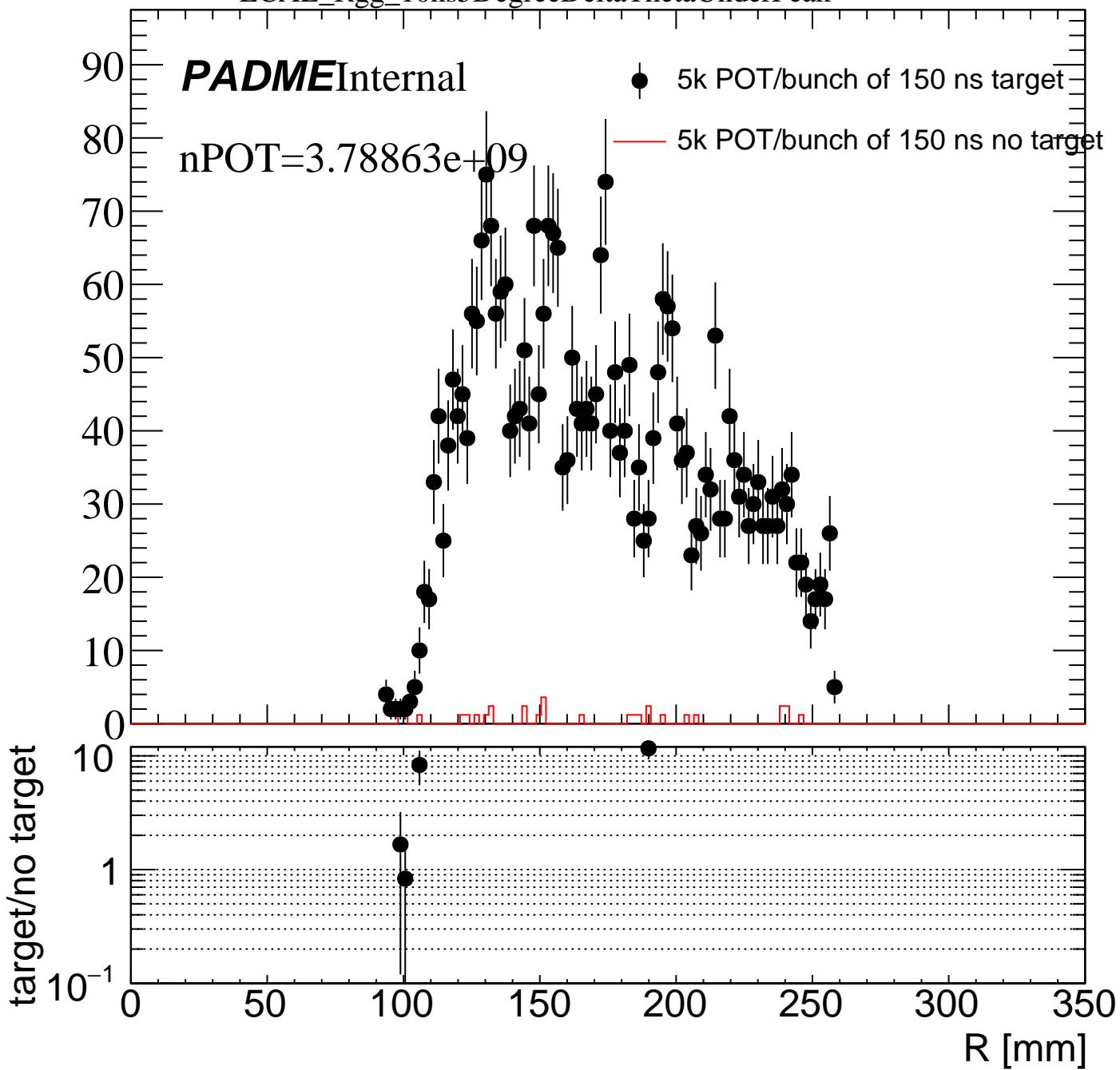
ECAL\_Rgg\_10ns20DegreeUnderPeak

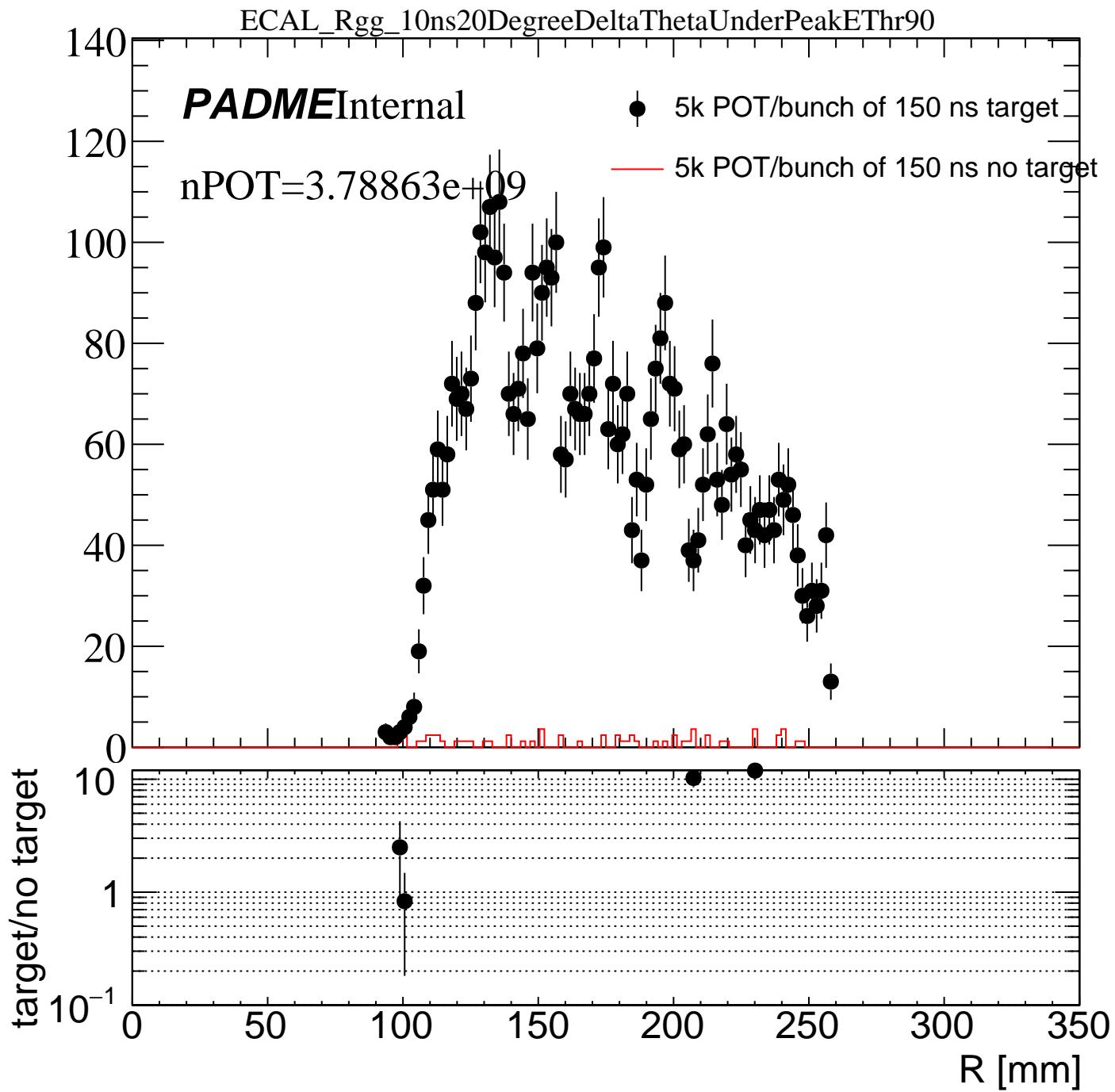


ECAL\_Rgg\_10ns20DegreeDeltaThetaUnderPeak

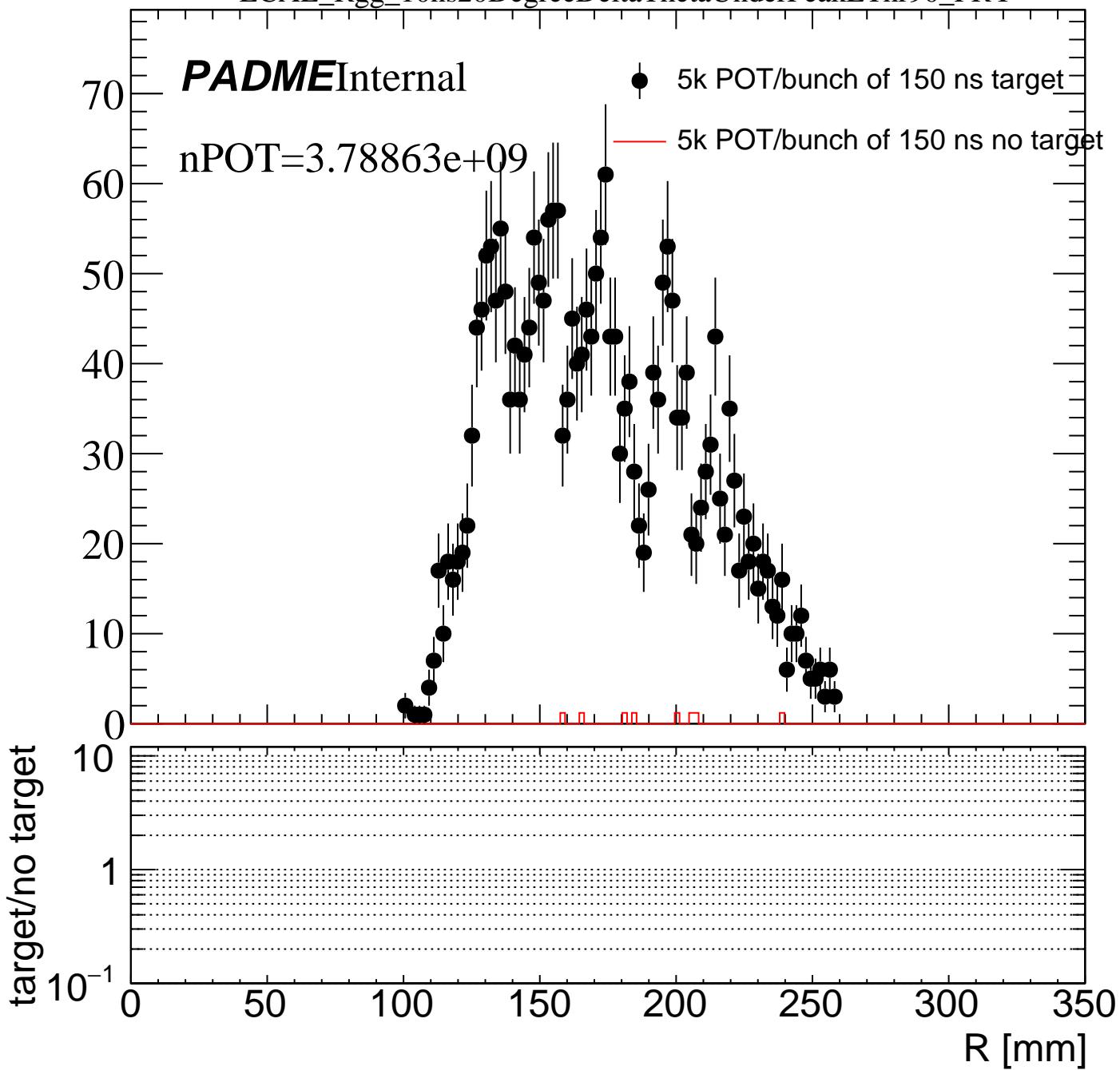


ECAL\_Rgg\_10ns5DegreeDeltaThetaUnderPeak

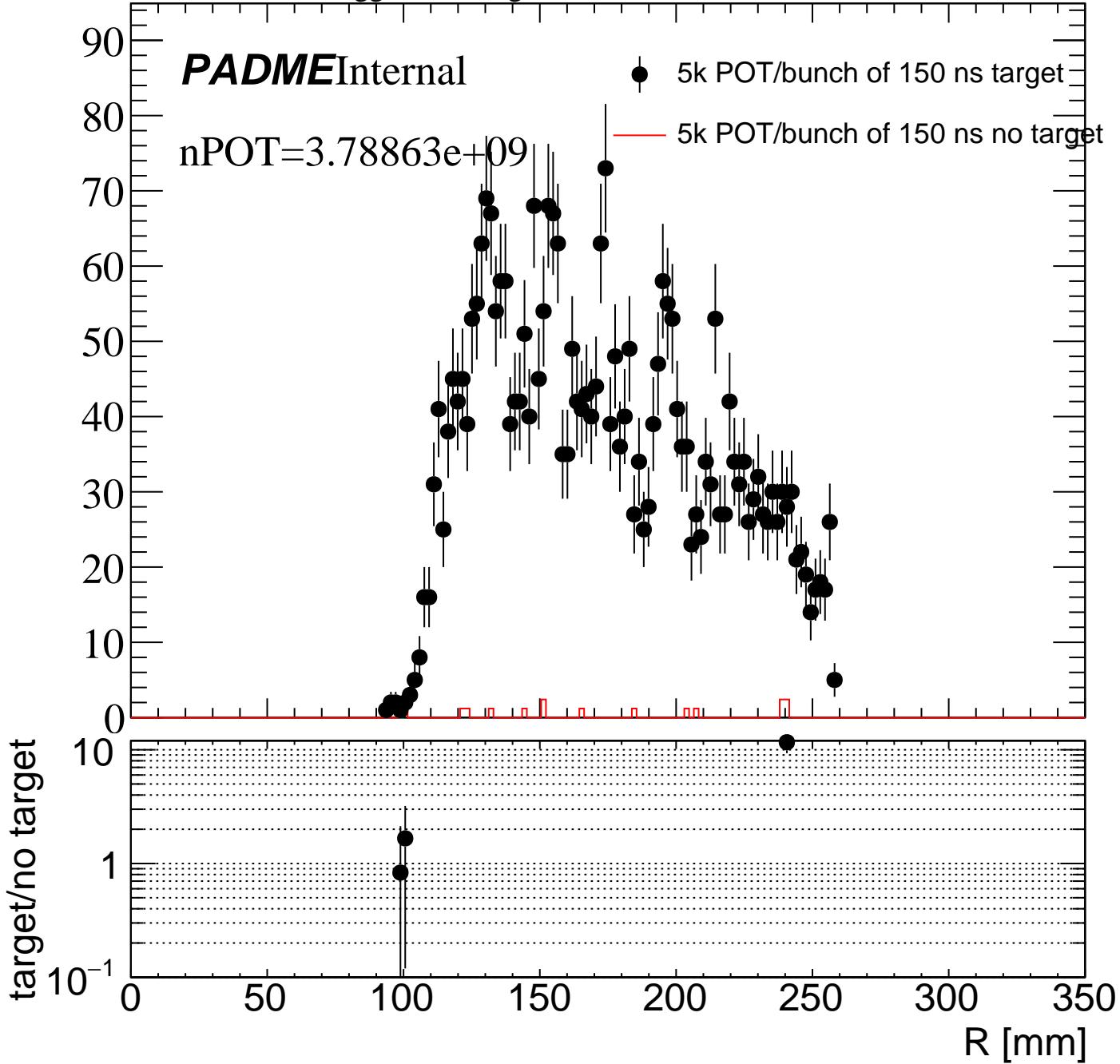




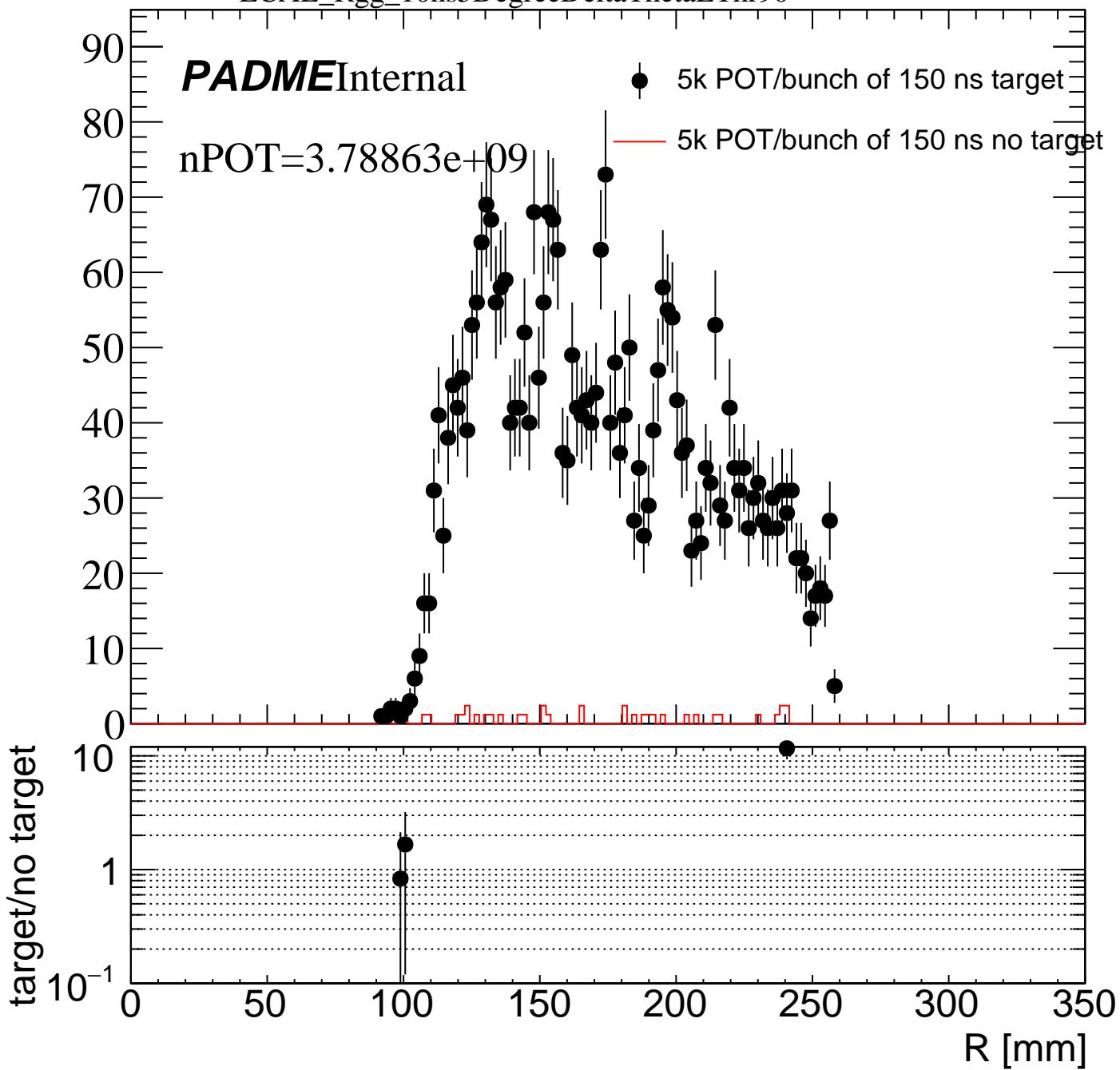
ECAL\_Rgg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY



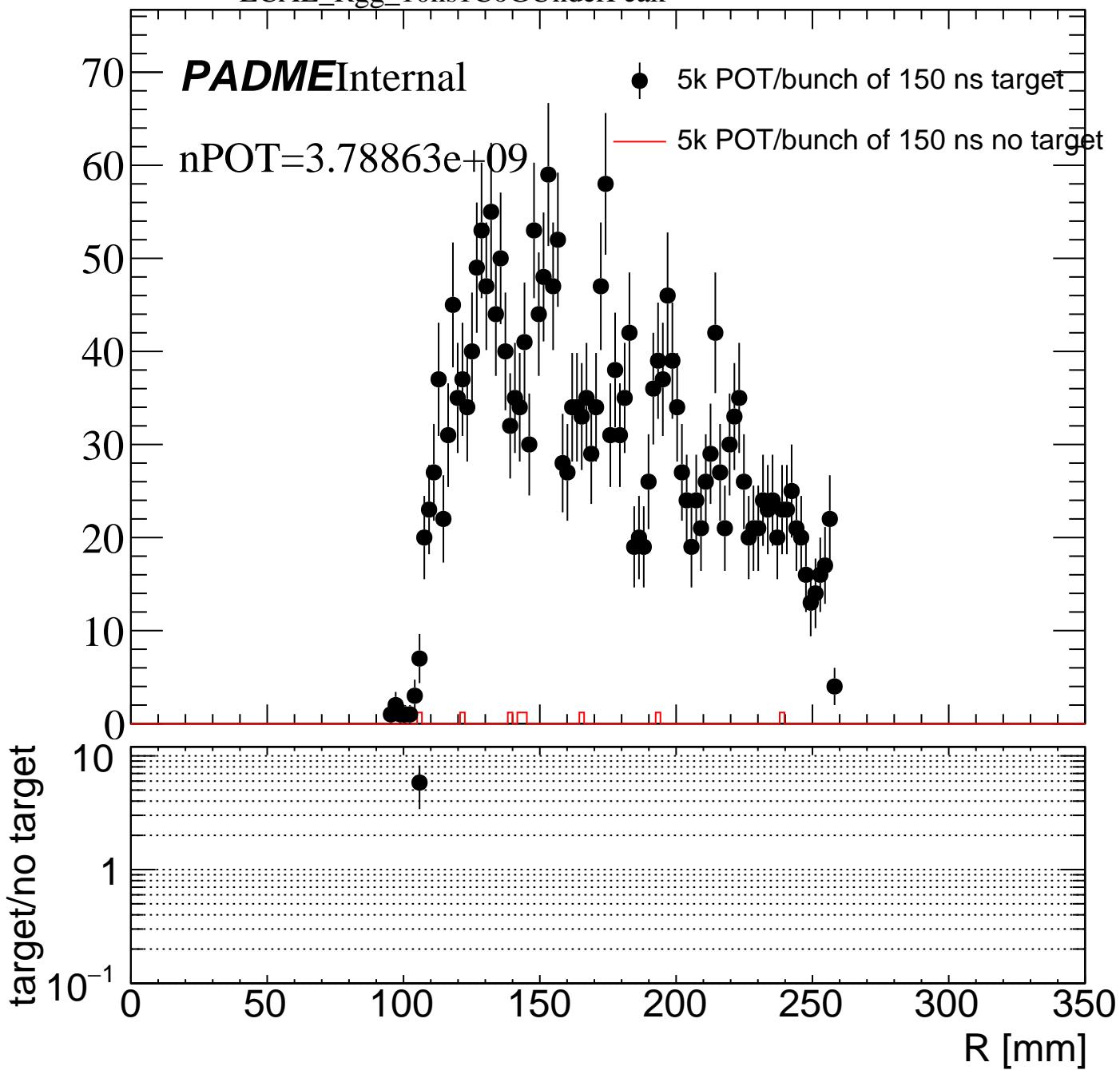
ECAL\_Rgg\_10ns5DegreeDeltaThetaUnderPeakEThr90



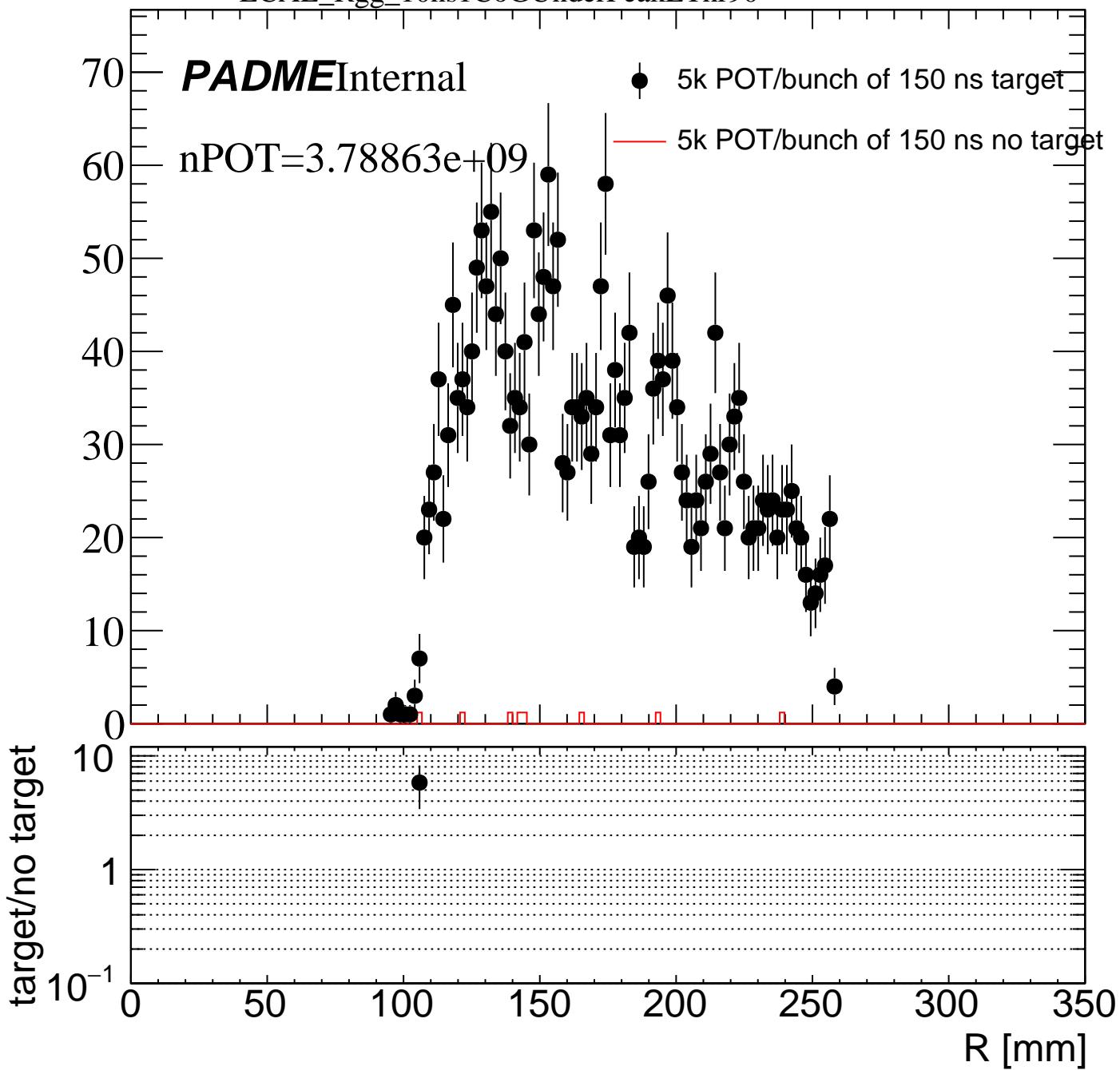
ECAL\_Rgg\_10ns5DegreeDeltaThetaEThr90



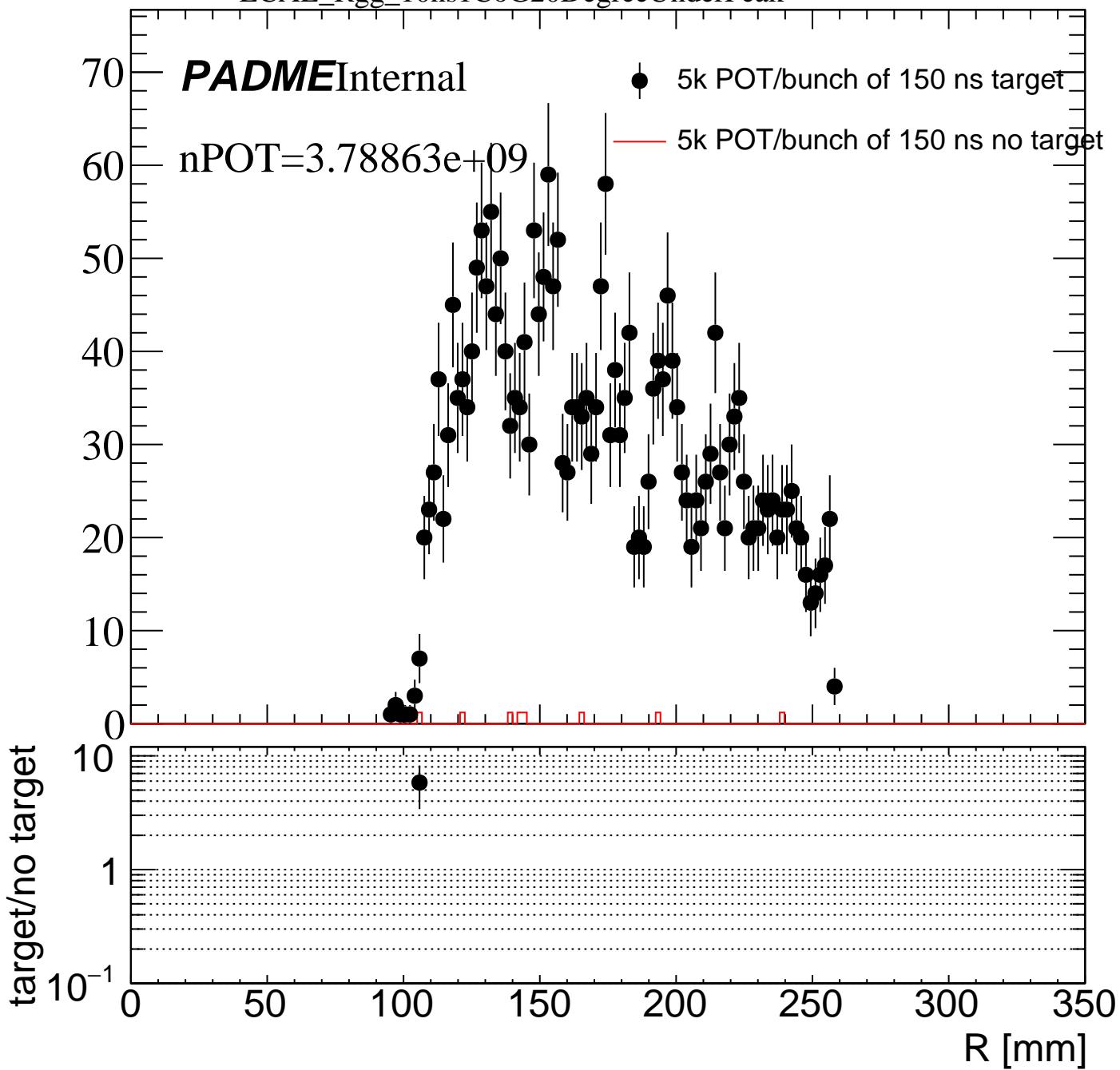
ECAL\_Rgg\_10ns1CoGUnderPeak



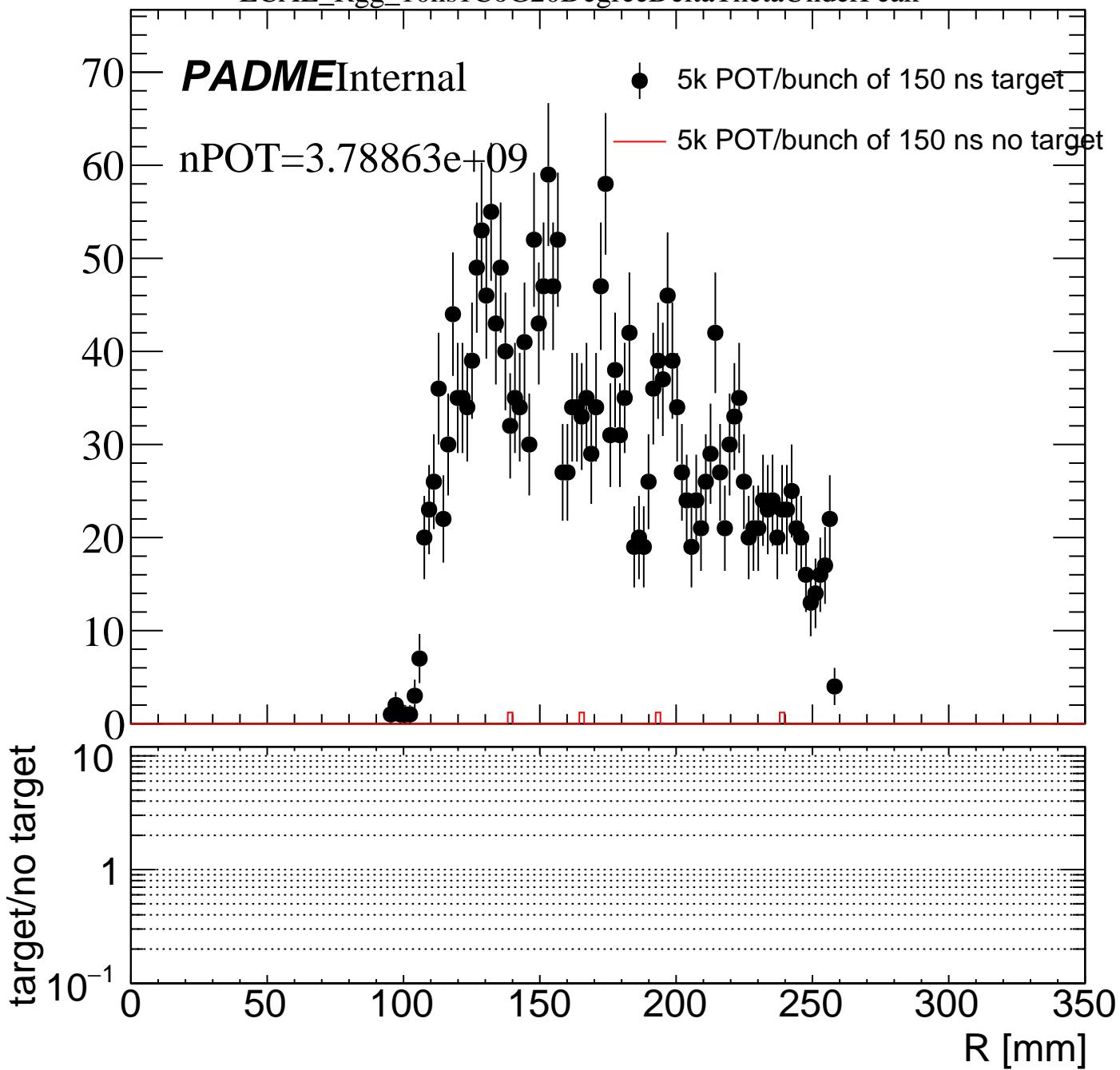
ECAL\_Rgg\_10ns1CoGUnderPeakEThr90

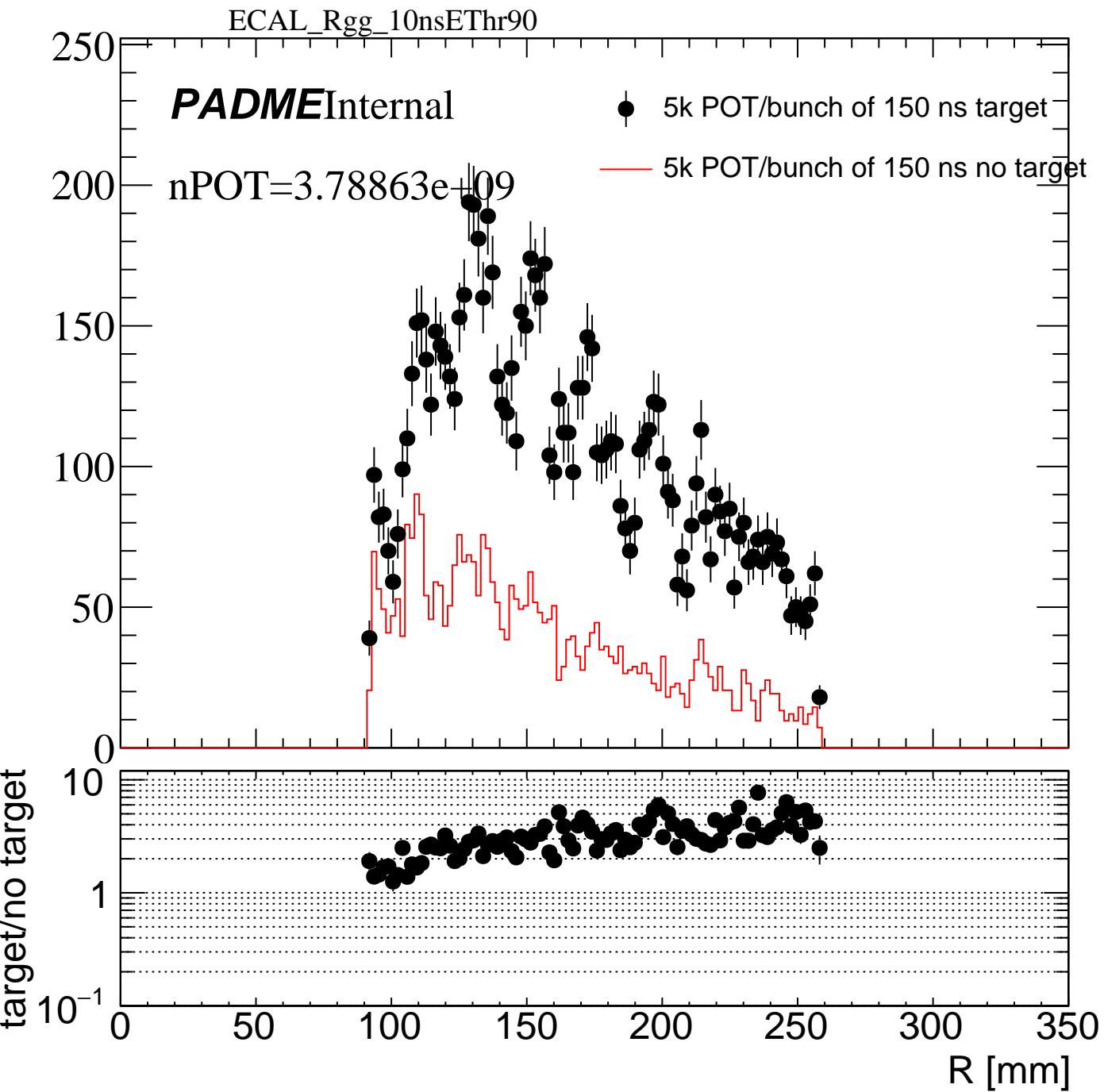


ECAL\_Rgg\_10ns1CoG20DegreeUnderPeak

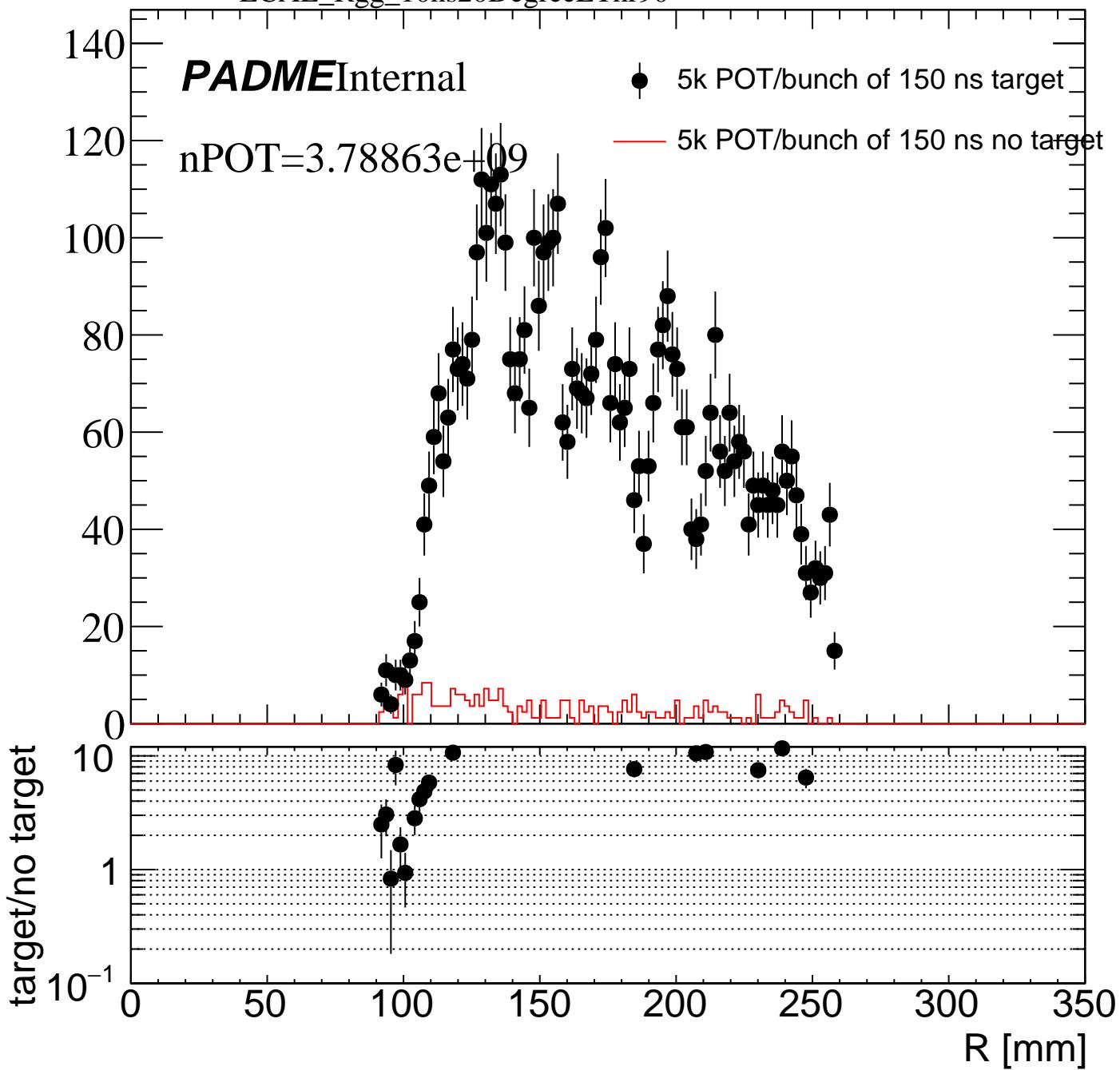


ECAL\_Rgg\_10ns1CoG20DegreeDeltaThetaUnderPeak

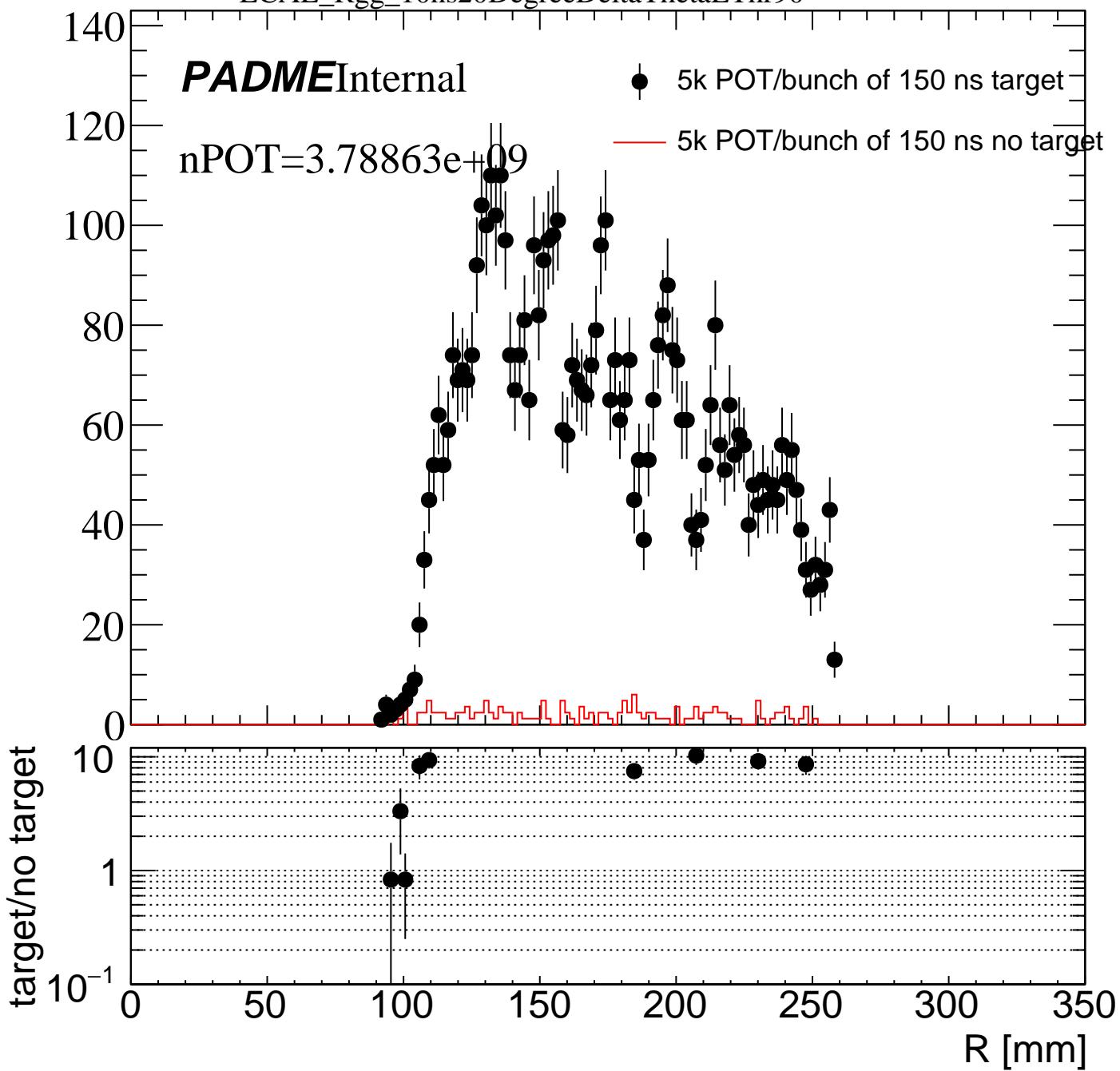




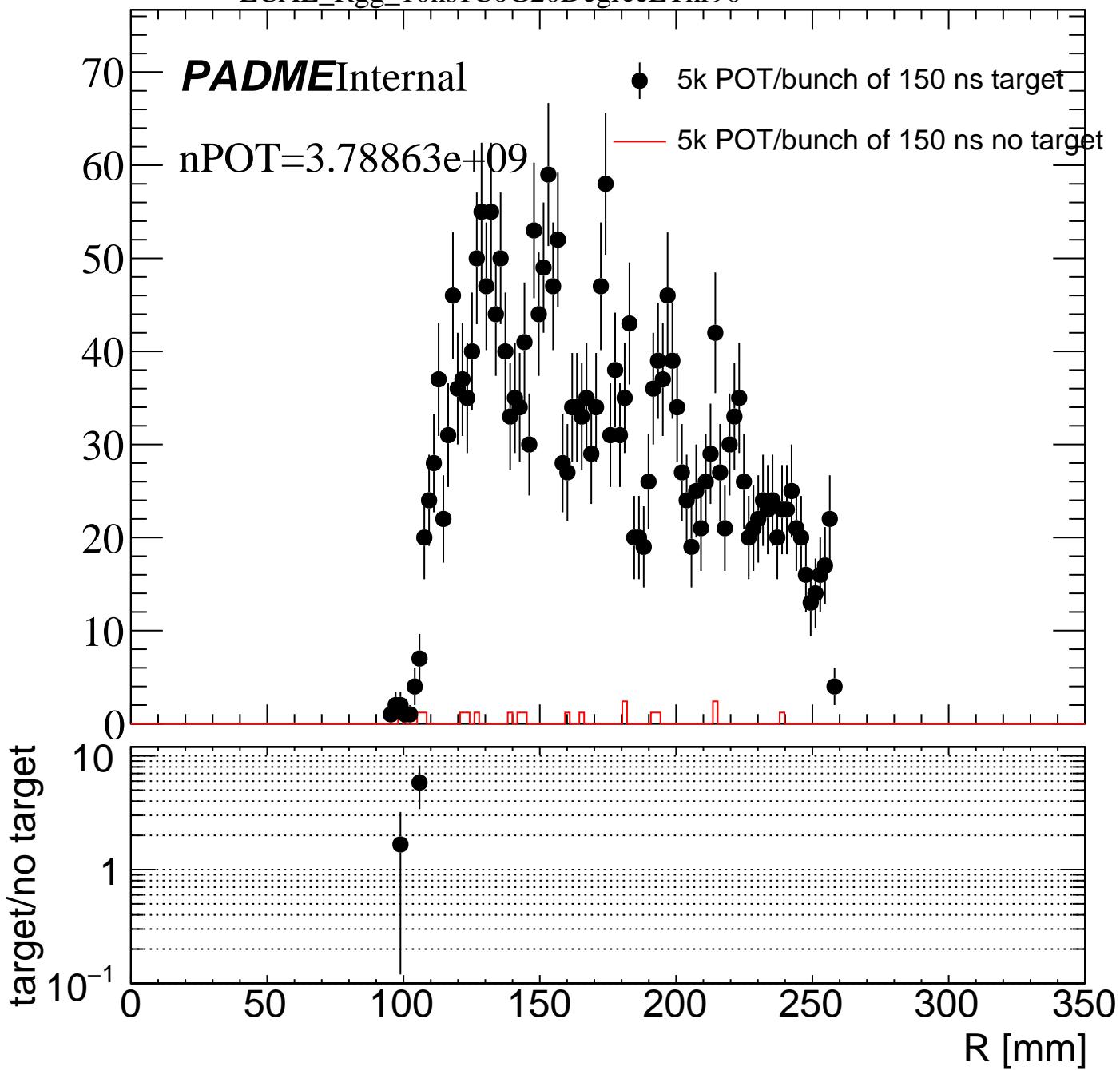
ECAL\_Rgg\_10ns20DegreeEThr90



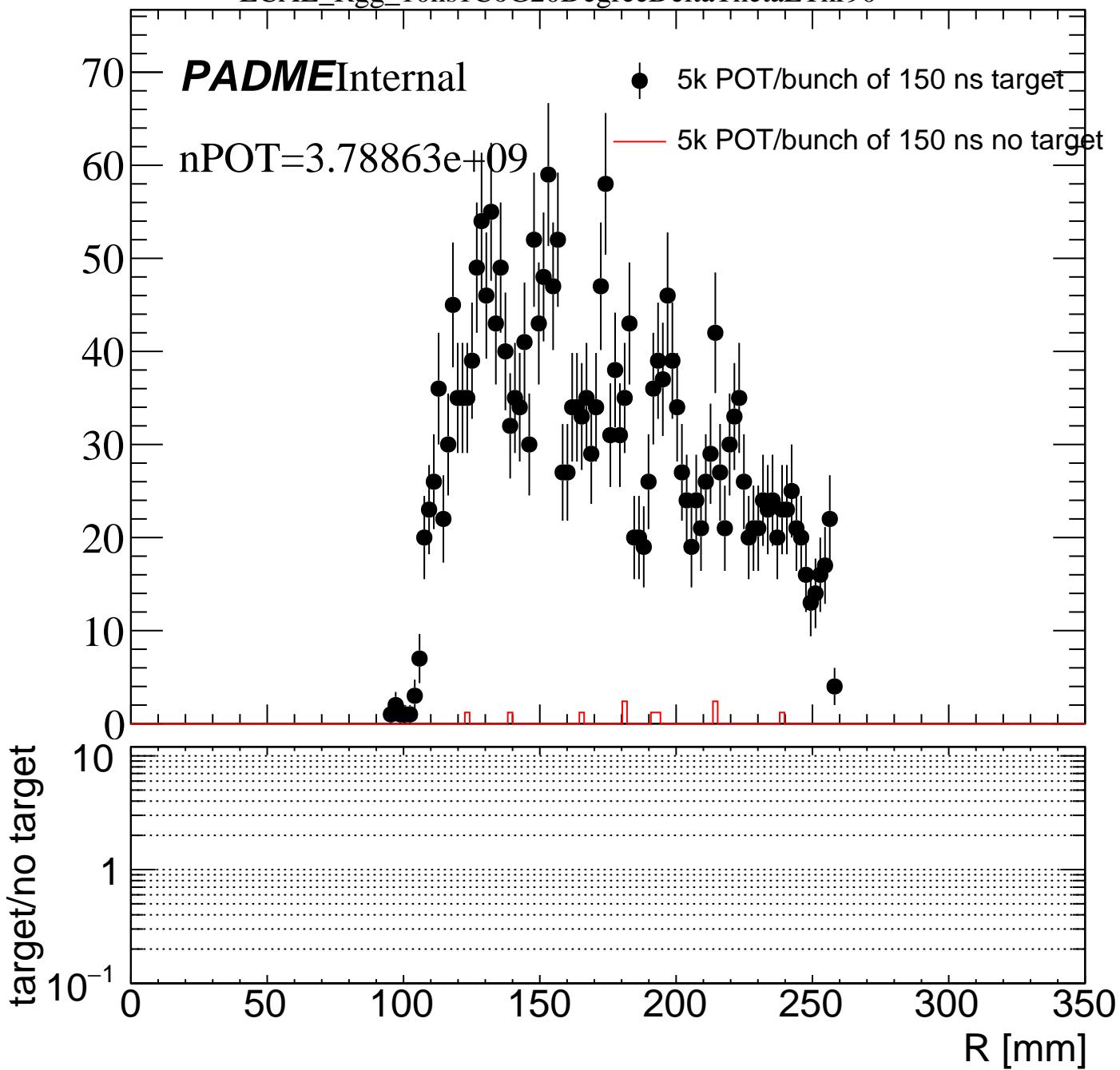
ECAL\_Rgg\_10ns20DegreeDeltaThetaETHr90



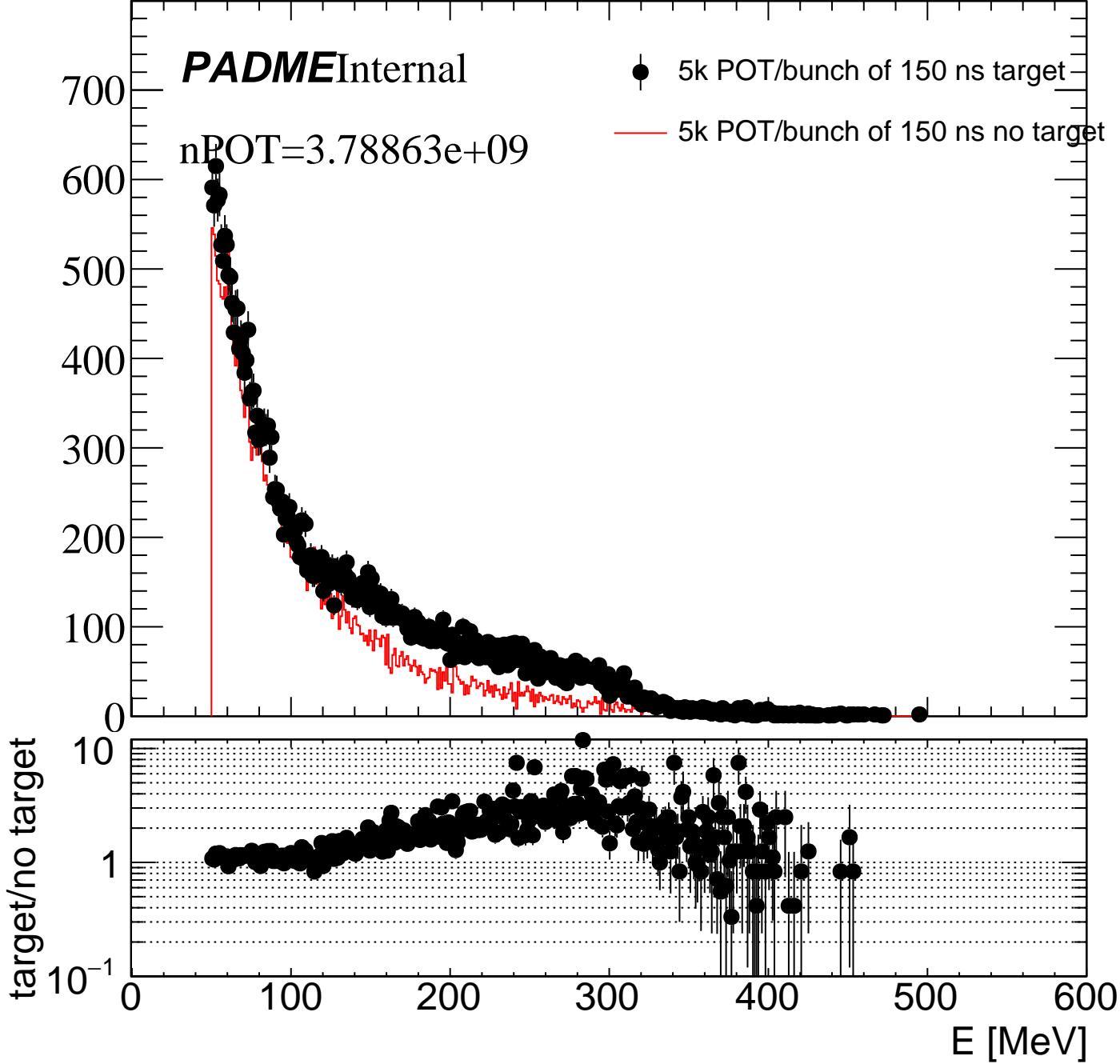
ECAL\_Rgg\_10ns1CoG20DegreeEThr90



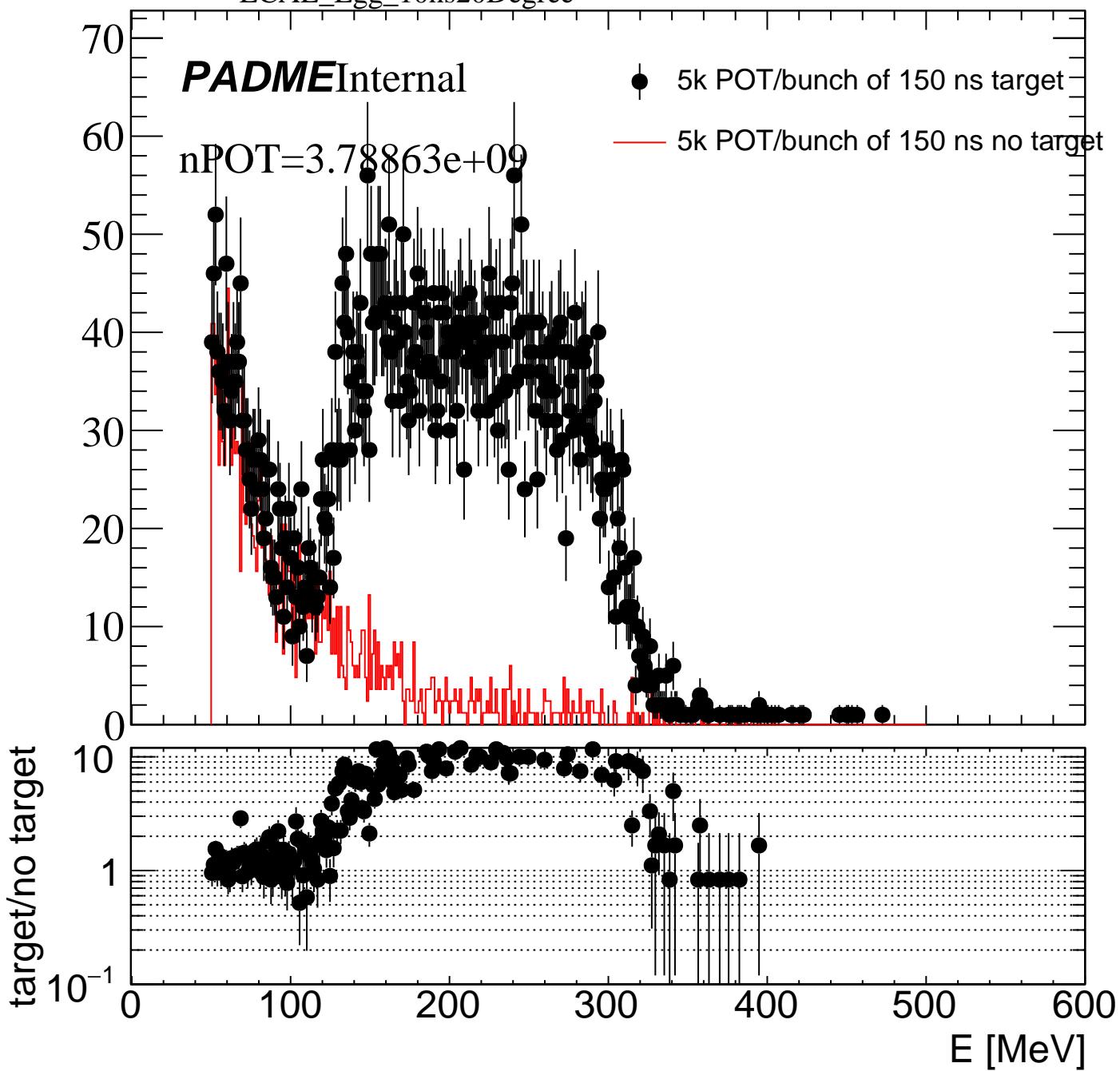
ECAL\_Rgg\_10ns1CoG20DegreeDeltaThetaETHr90



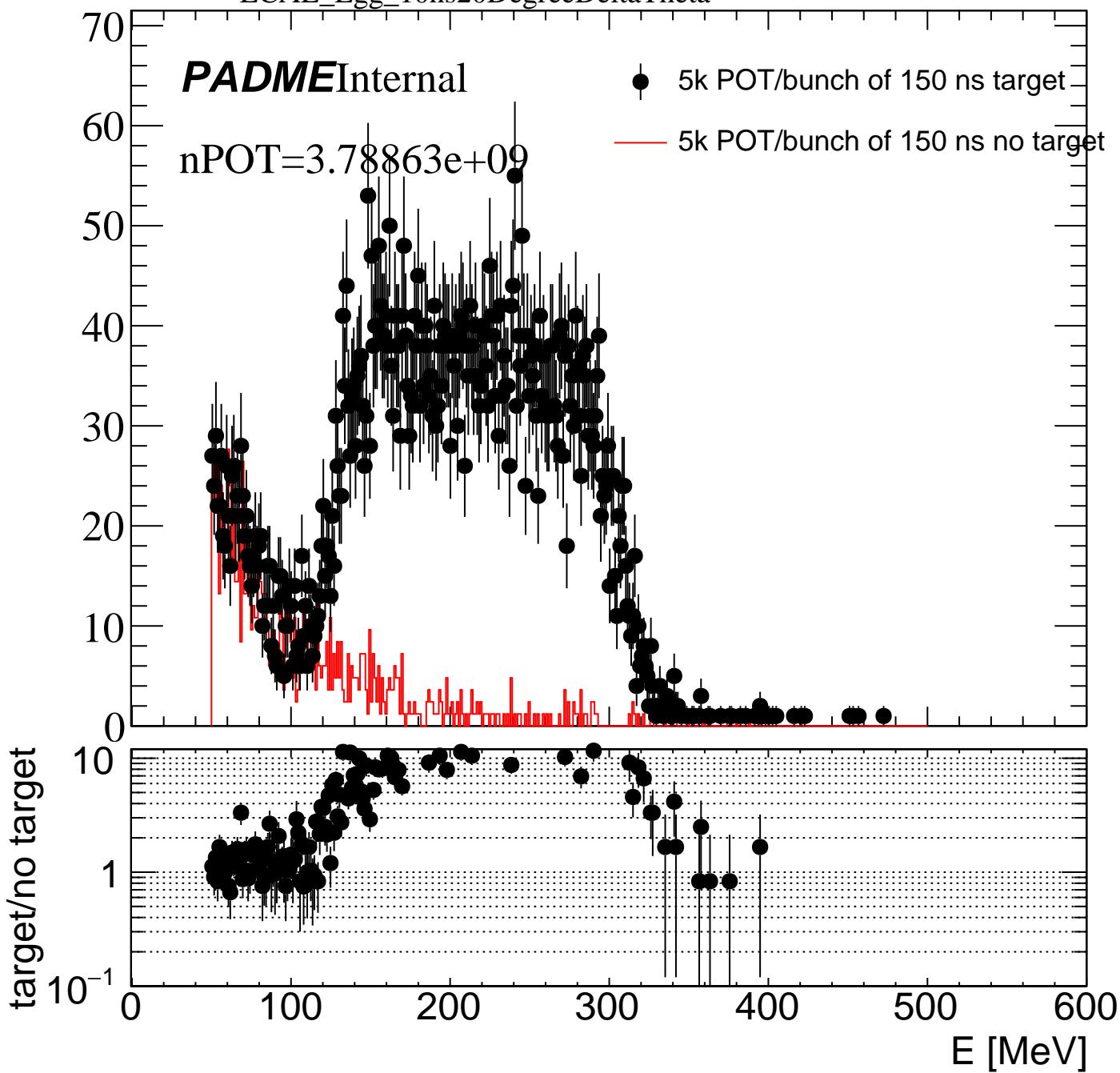
ECAL\_Egg\_10ns



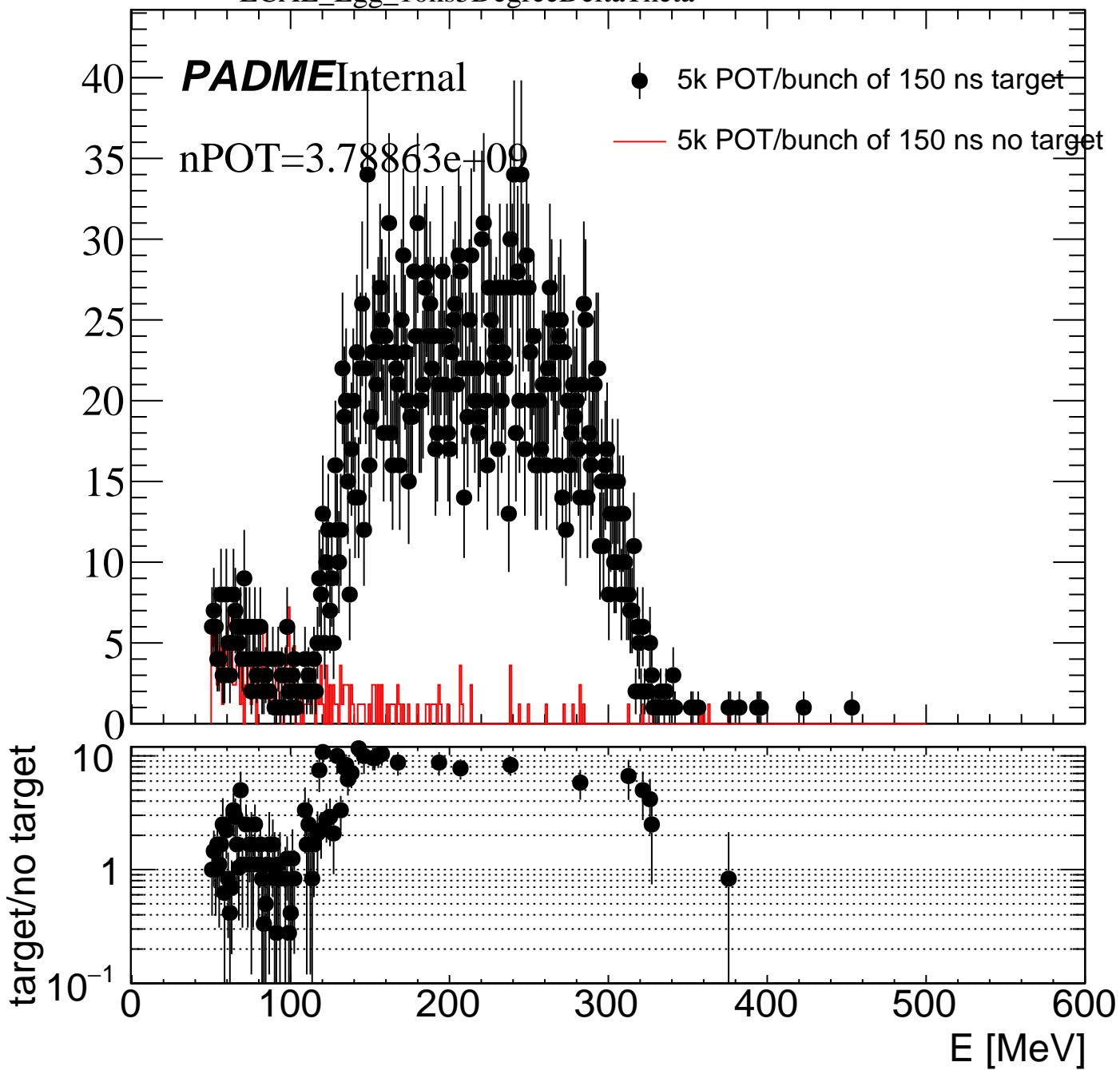
ECAL\_Egg\_10ns20Degree



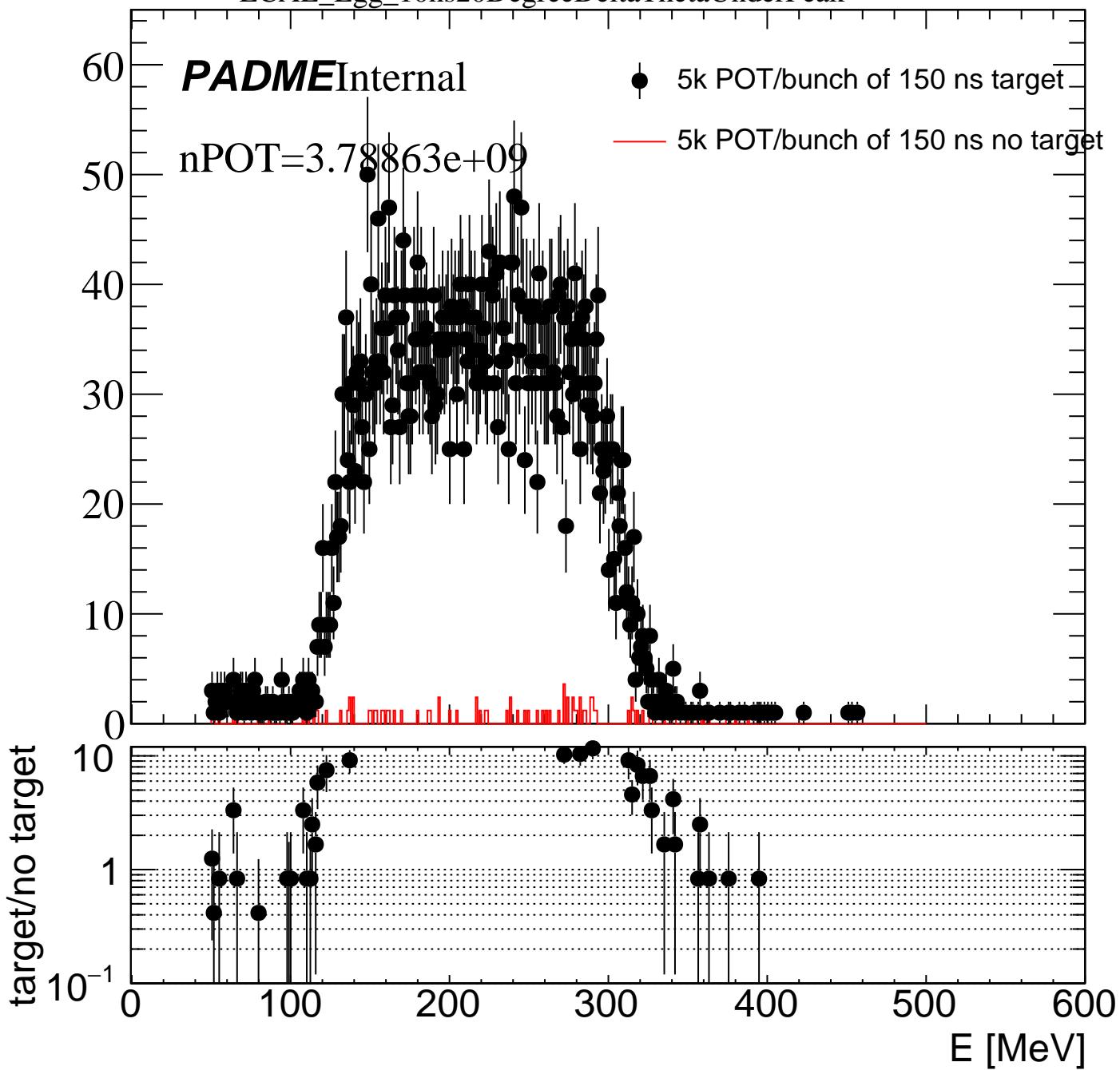
ECAL\_Egg\_10ns20DegreeDeltaTheta



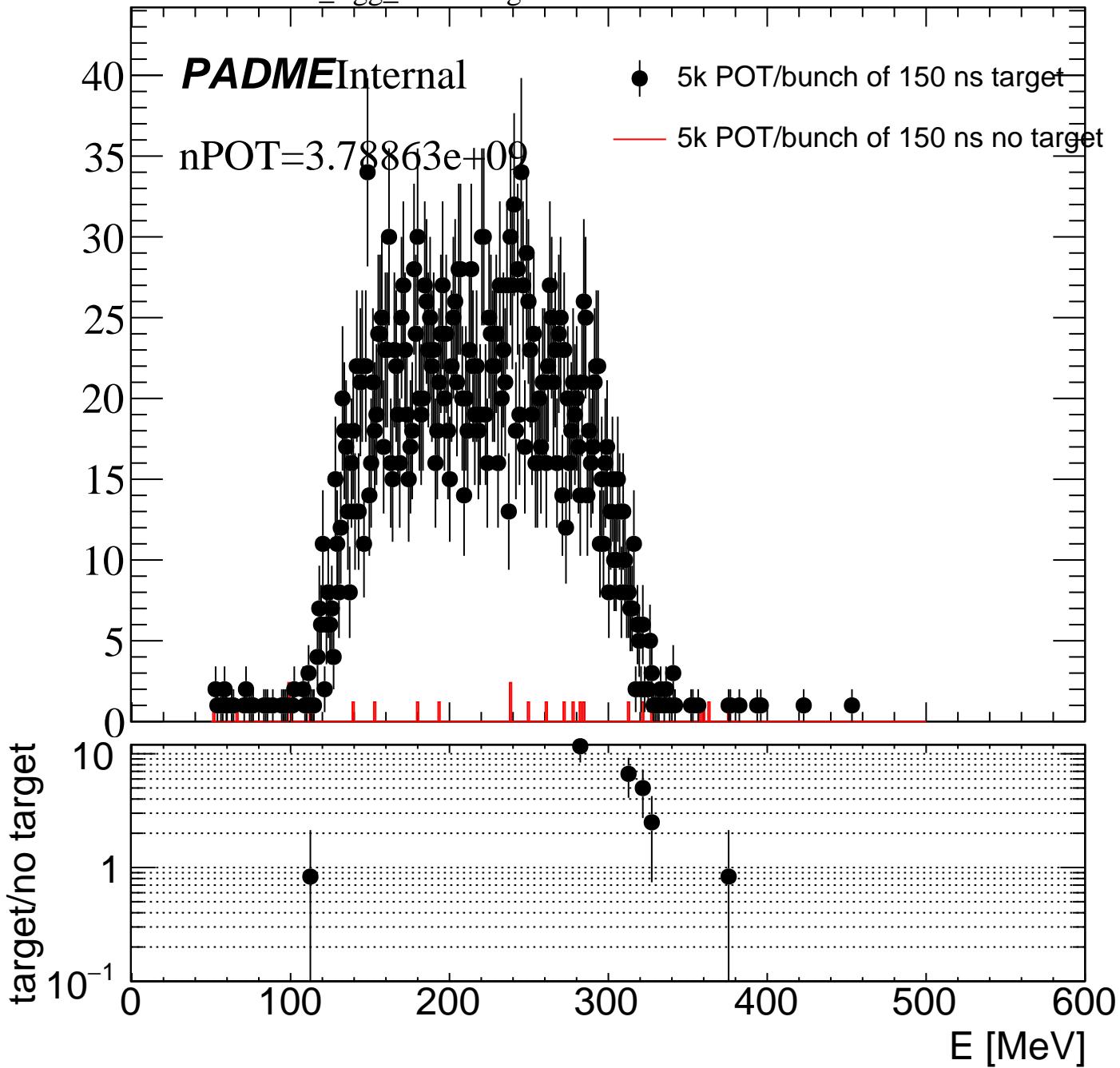
# ECAL\_Egg\_10ns5DegreeDeltaTheta



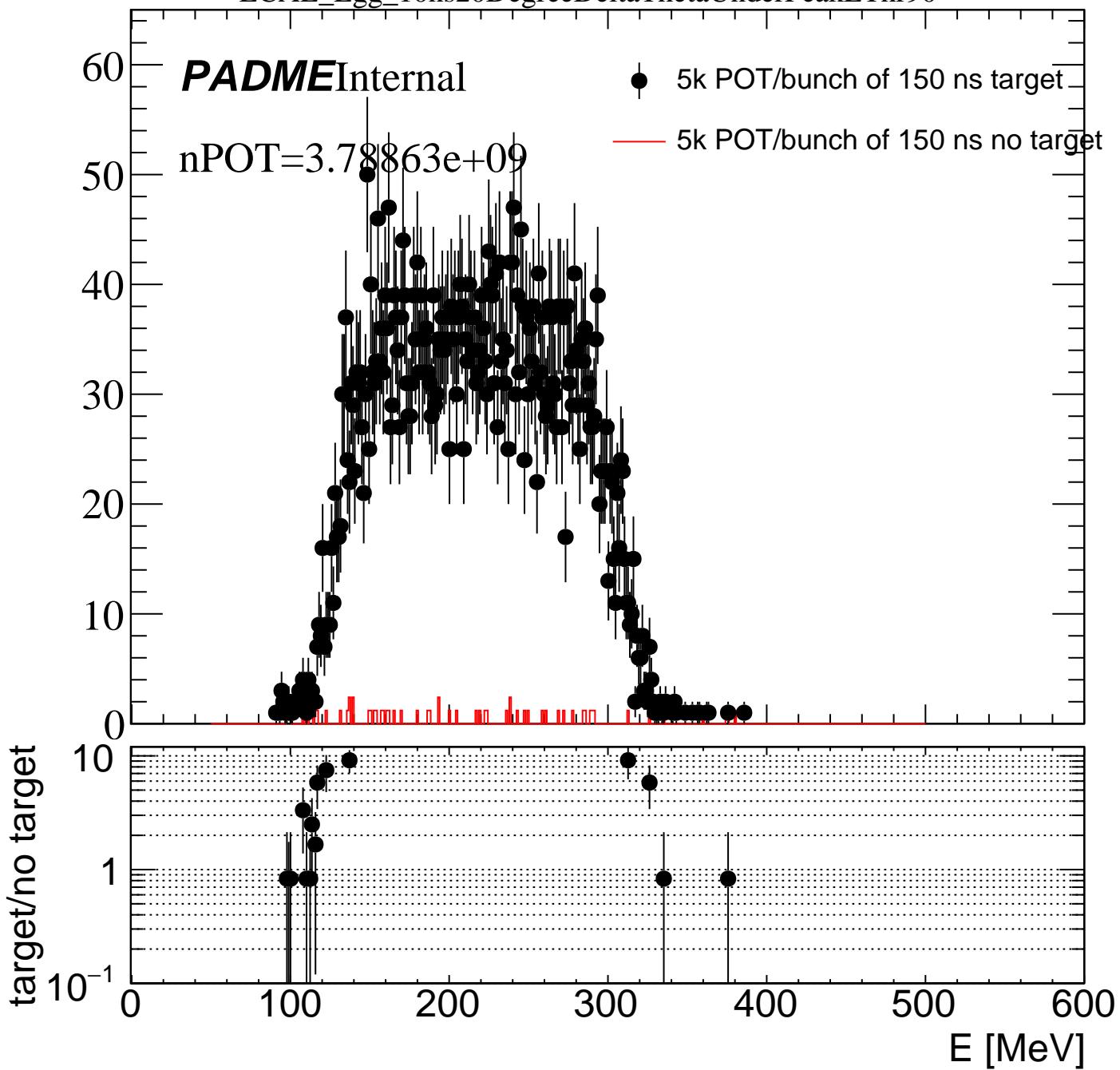
ECAL\_Egg\_10ns20DegreeDeltaThetaUnderPeak

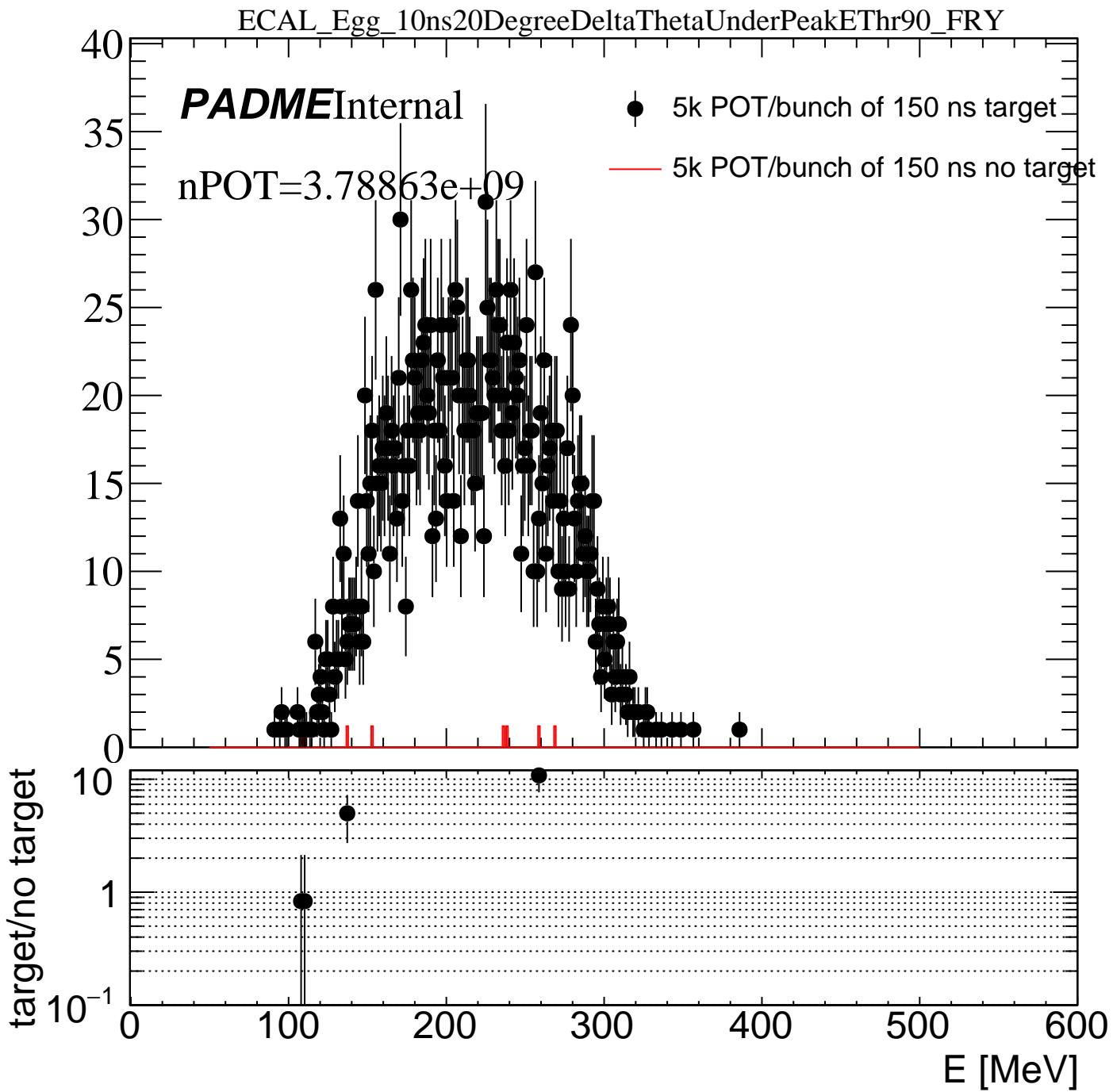


# ECAL\_Egg\_10ns5DegreeDeltaThetaUnderPeak

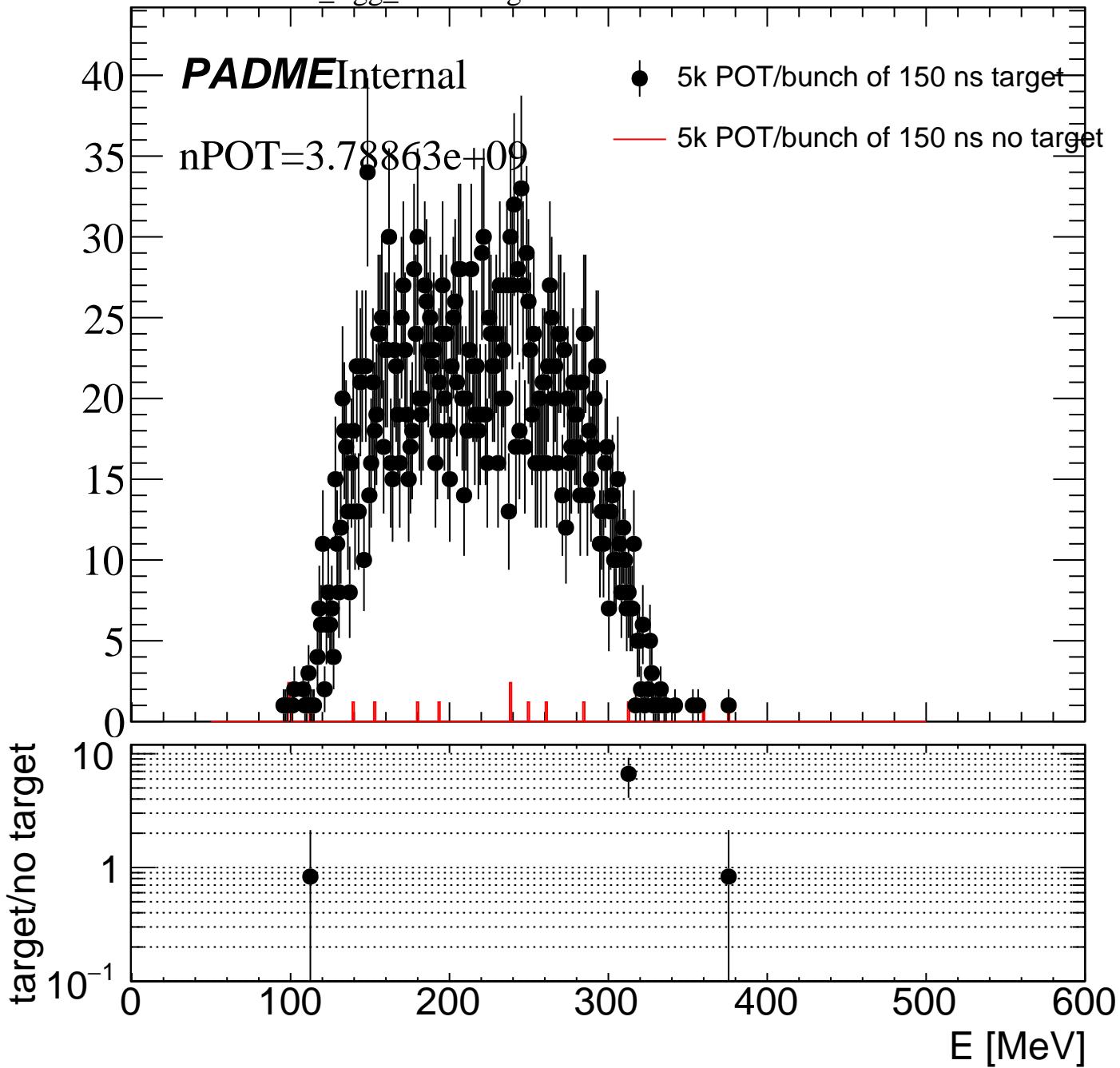


ECAL\_Egg\_10ns20DegreeDeltaThetaUnderPeakEThr90

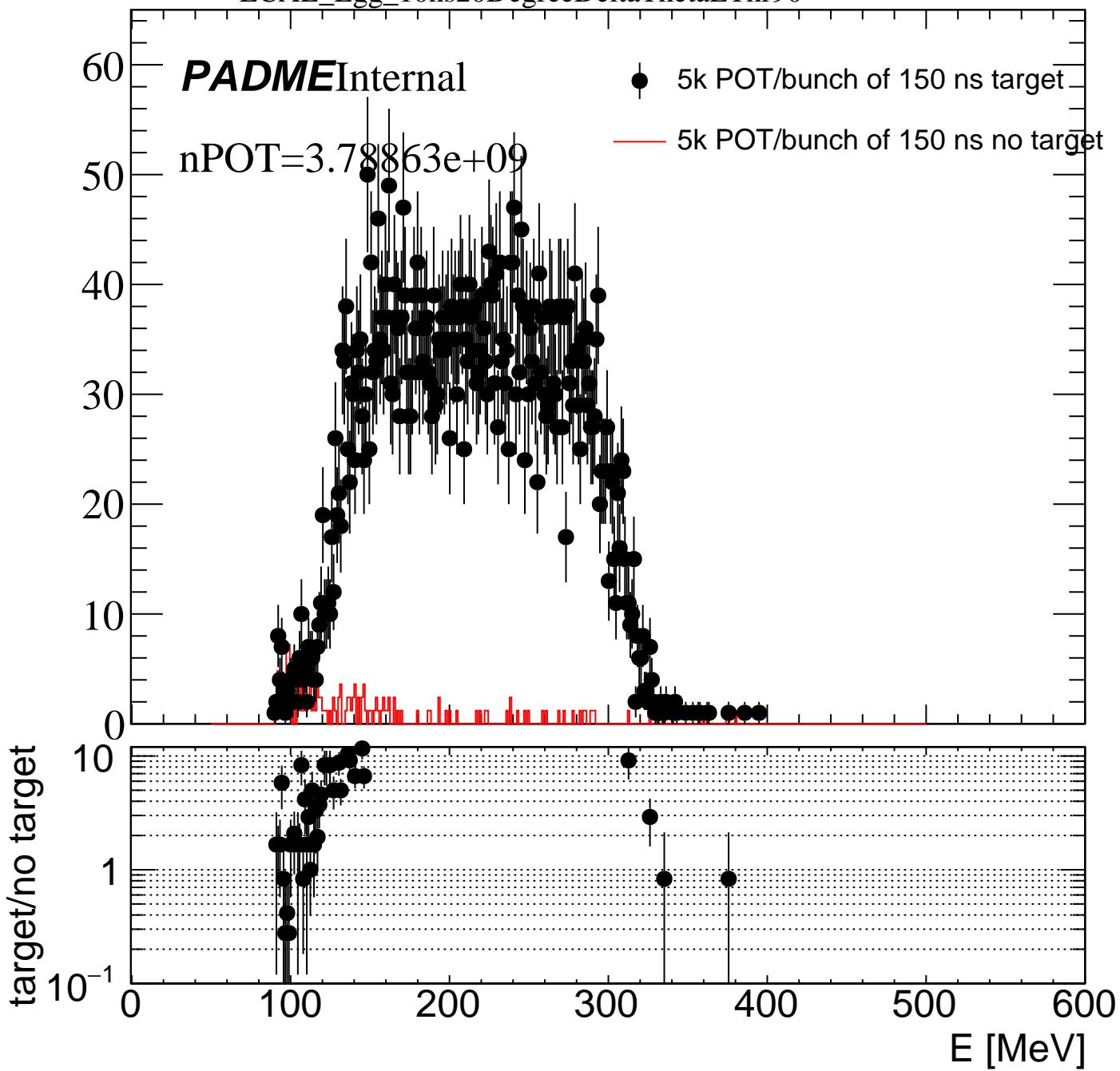




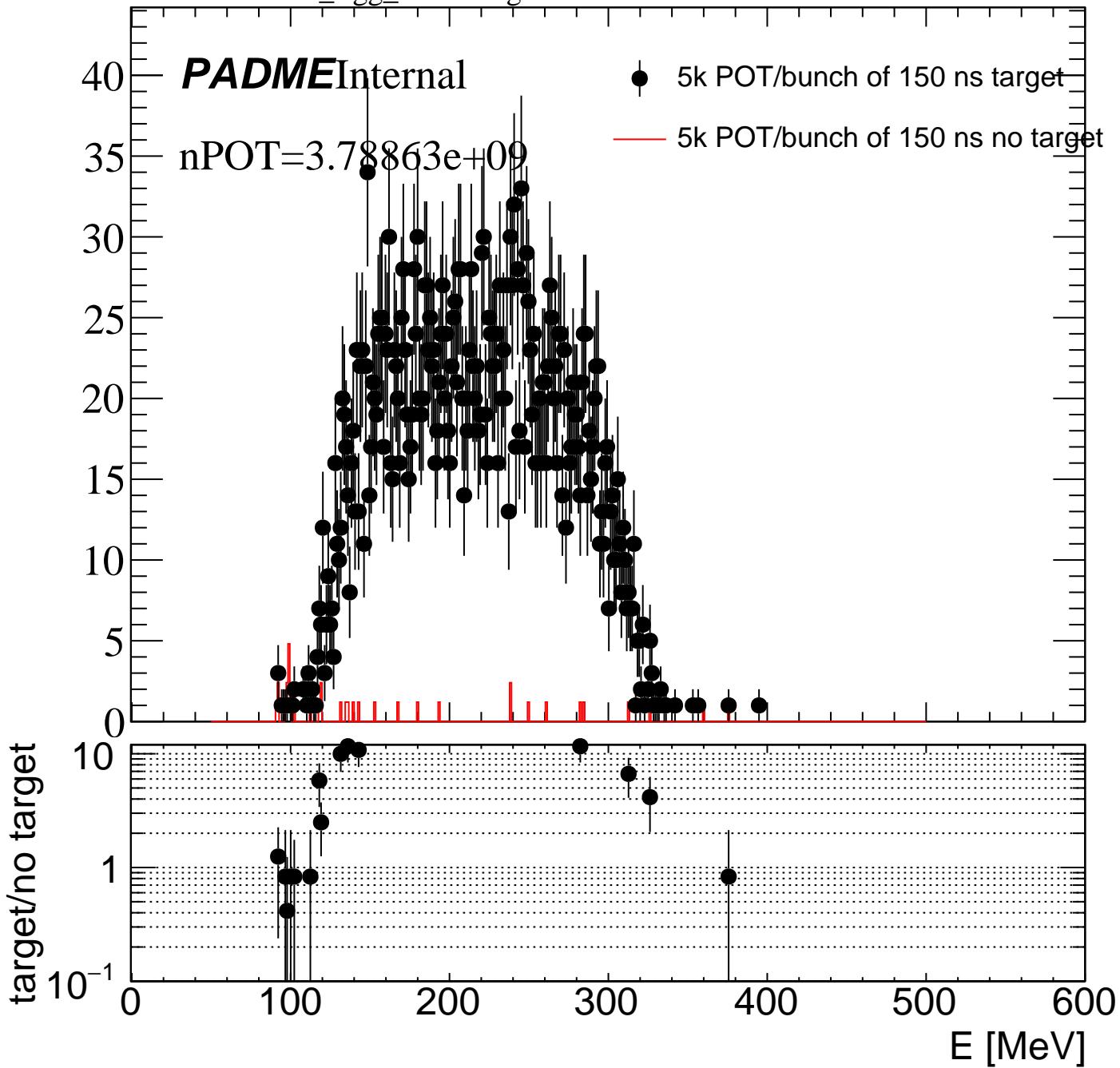
ECAL\_Egg\_10ns5DegreeDeltaThetaUnderPeakEThr90



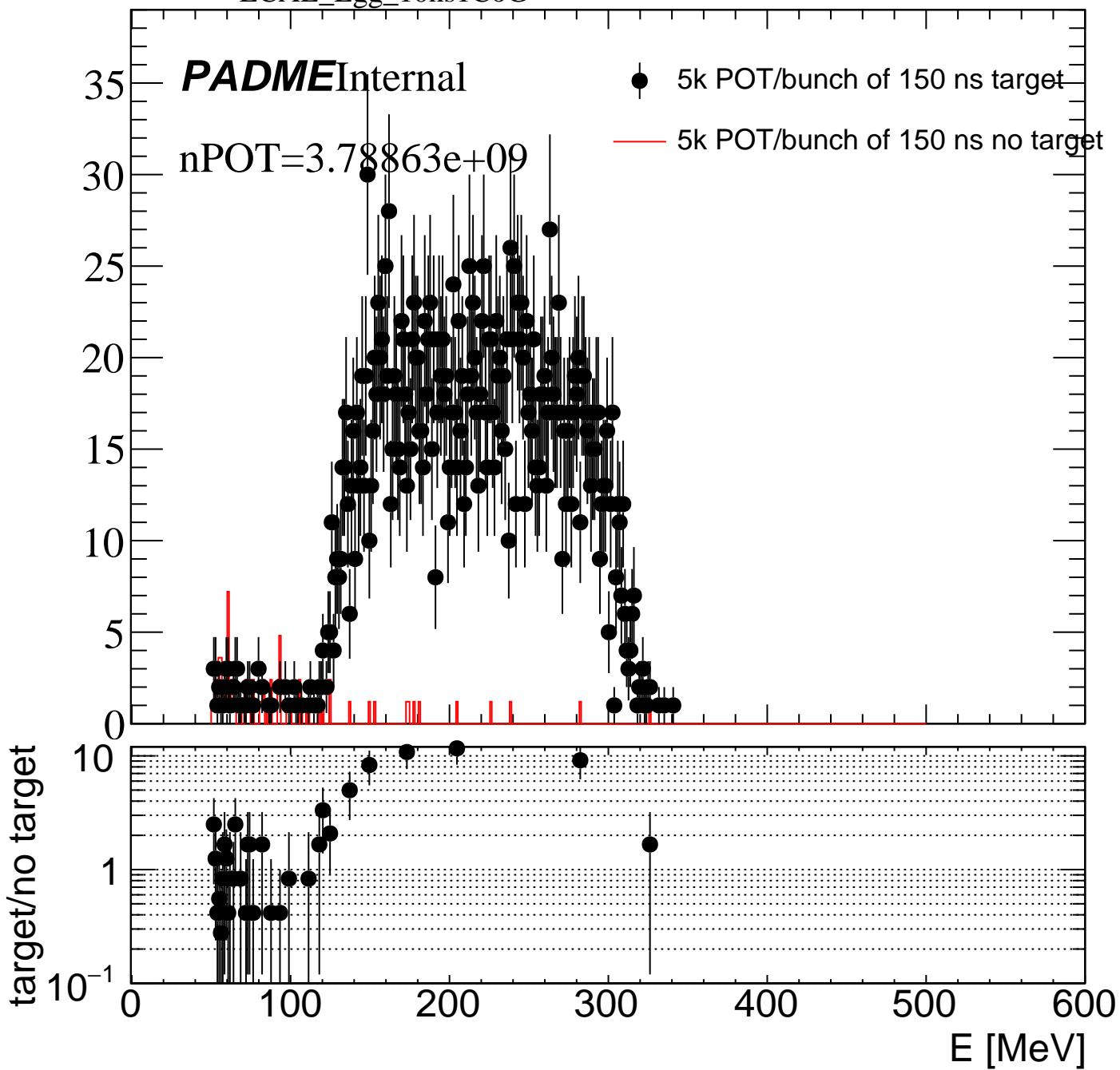
ECAL\_Egg\_10ns20DegreeDeltaThetaEThr90



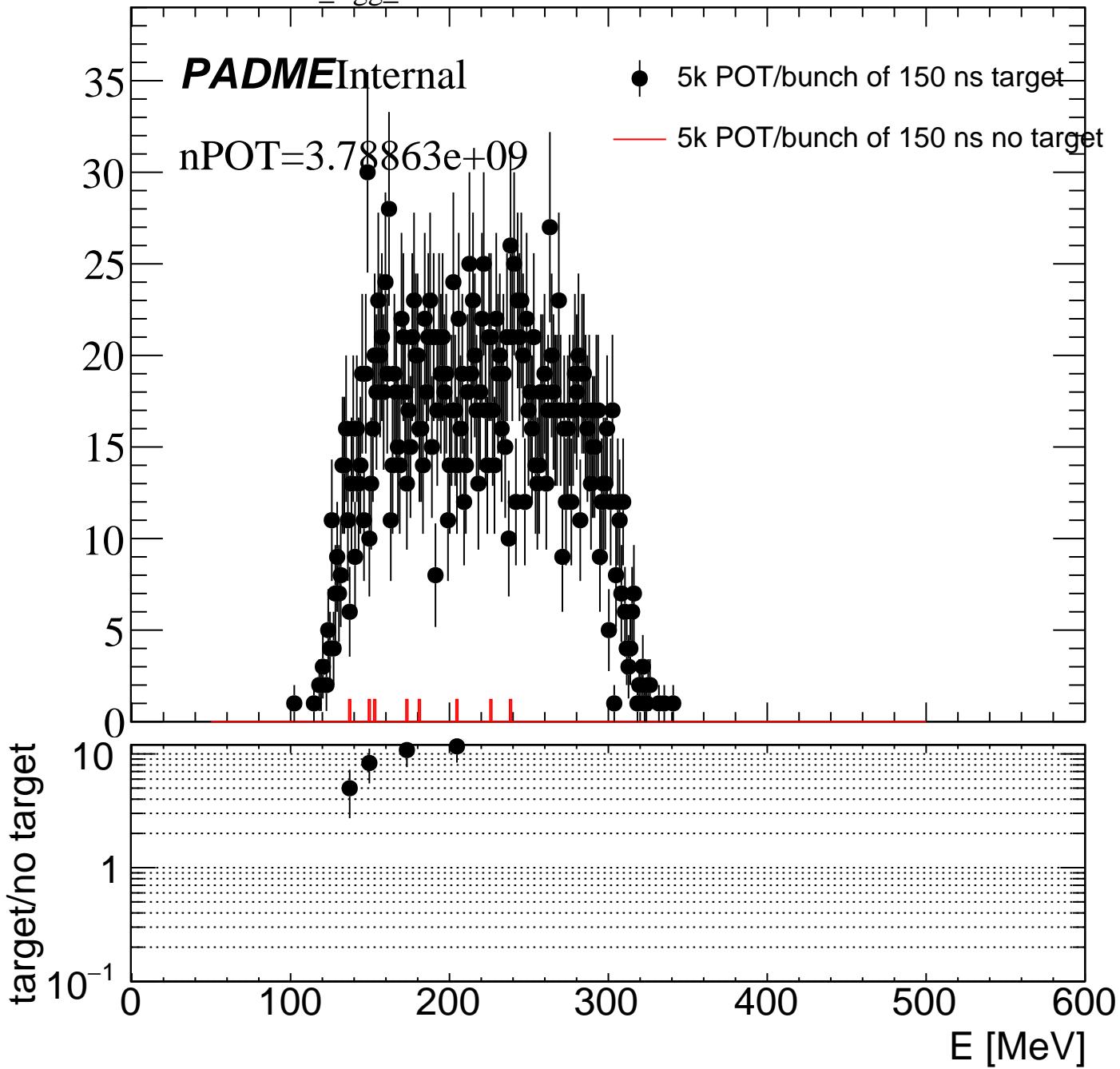
ECAL\_Egg\_10ns5DegreeDeltaThetaETHr90



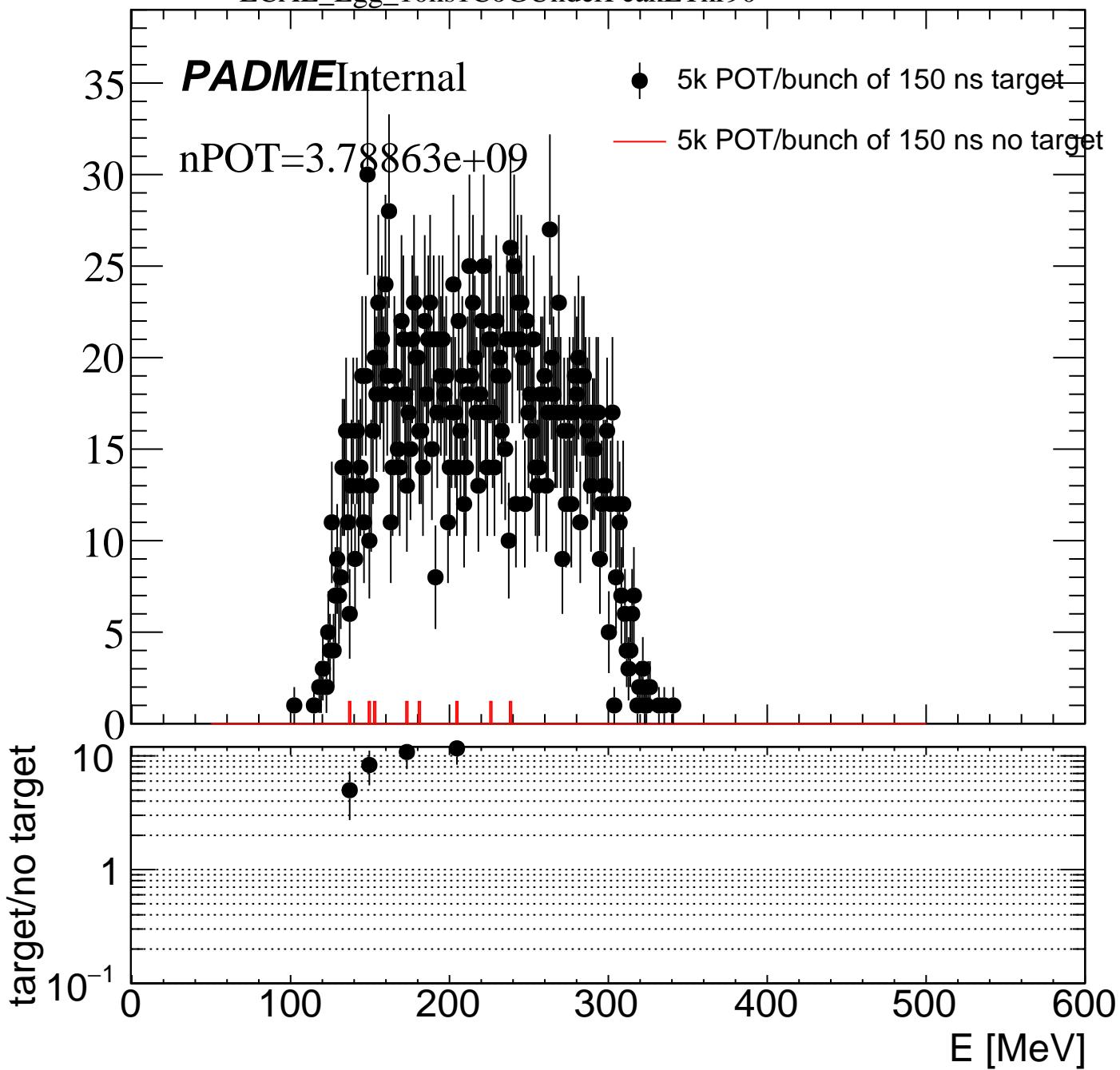
ECAL\_Egg\_10ns1CoG



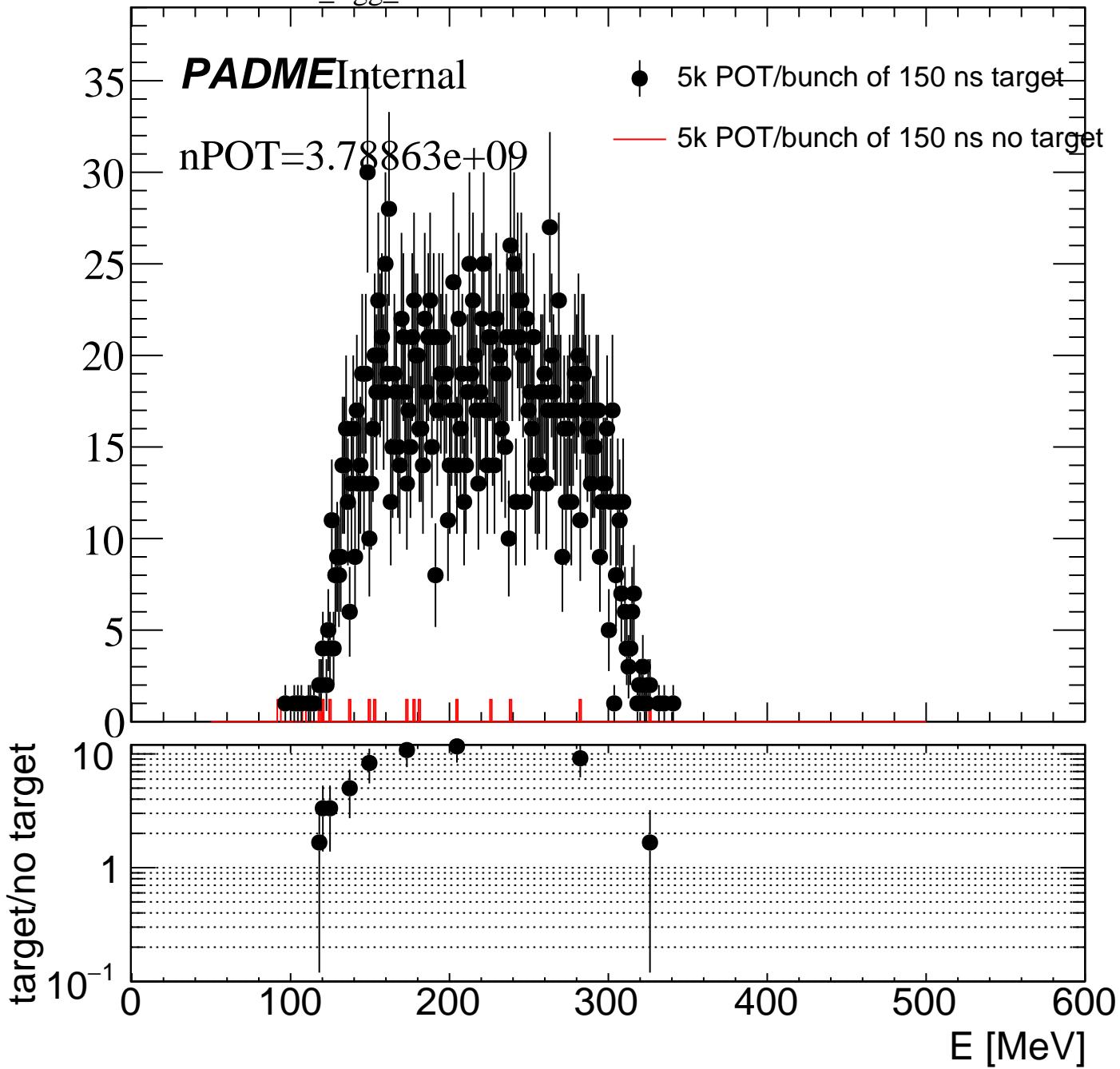
ECAL\_Egg\_10ns1CoGUnderPeak



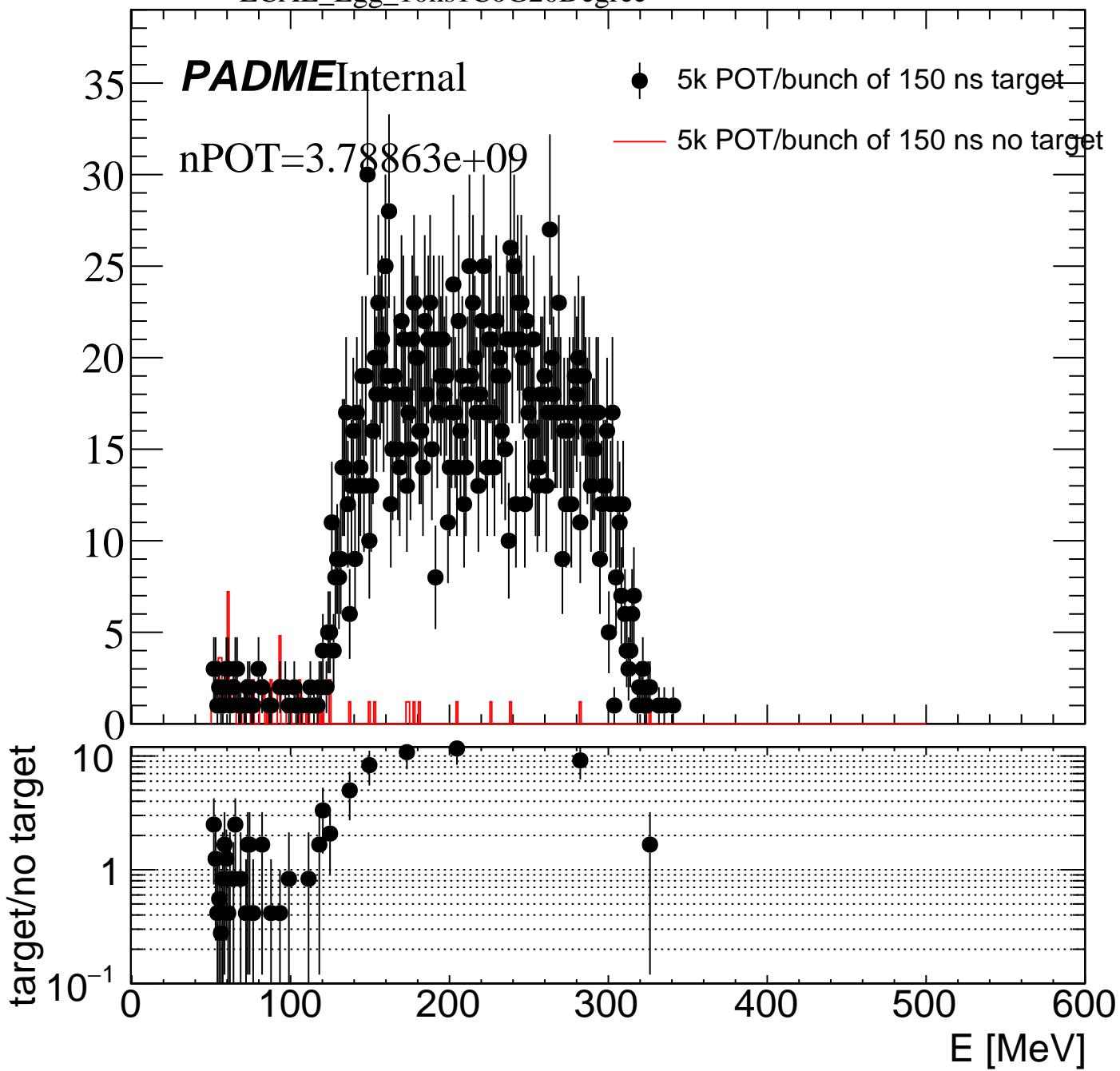
ECAL\_Egg\_10ns1CoGUnderPeakEThr90



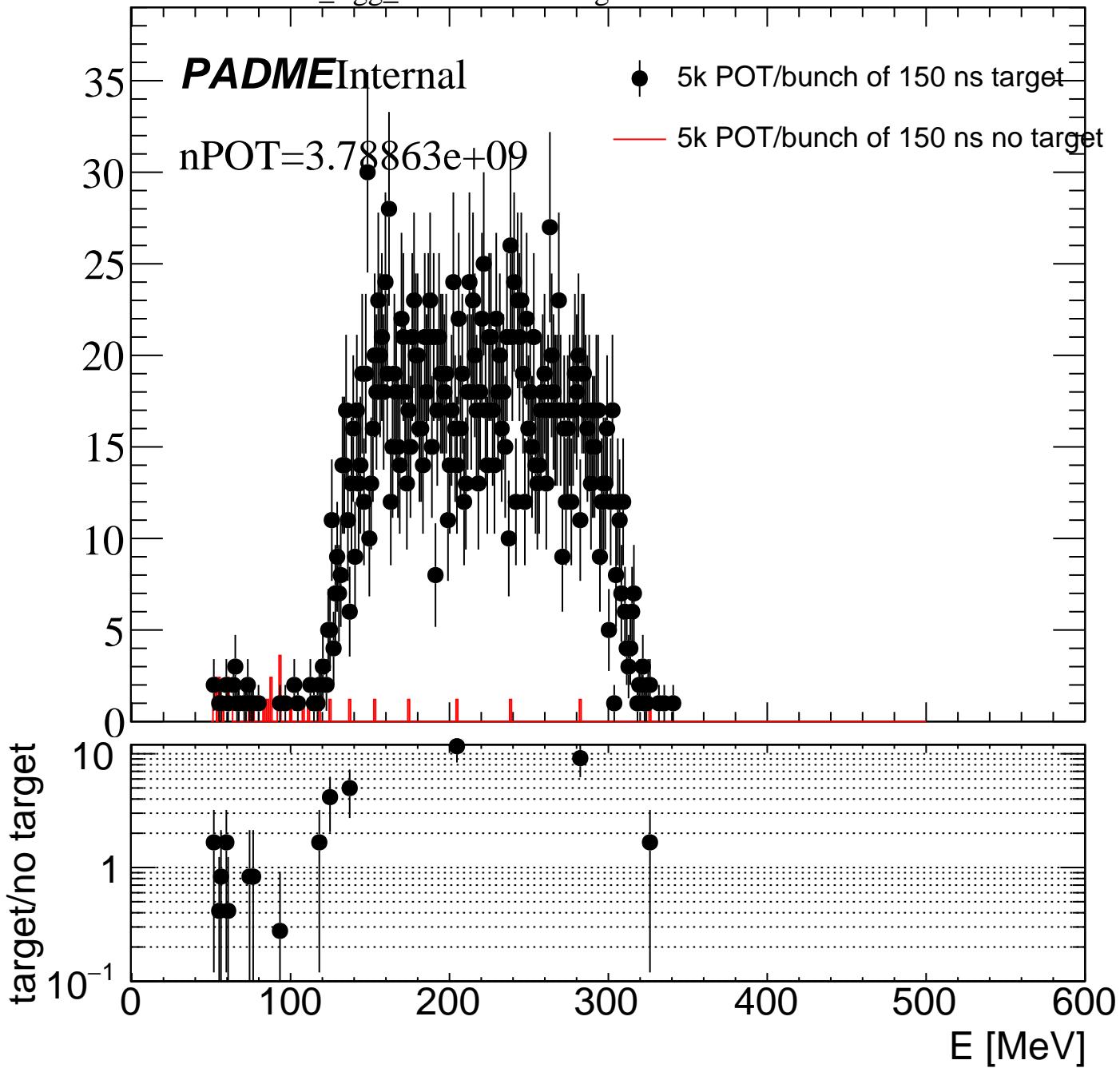
ECAL\_Egg\_10ns1CoGEThr90



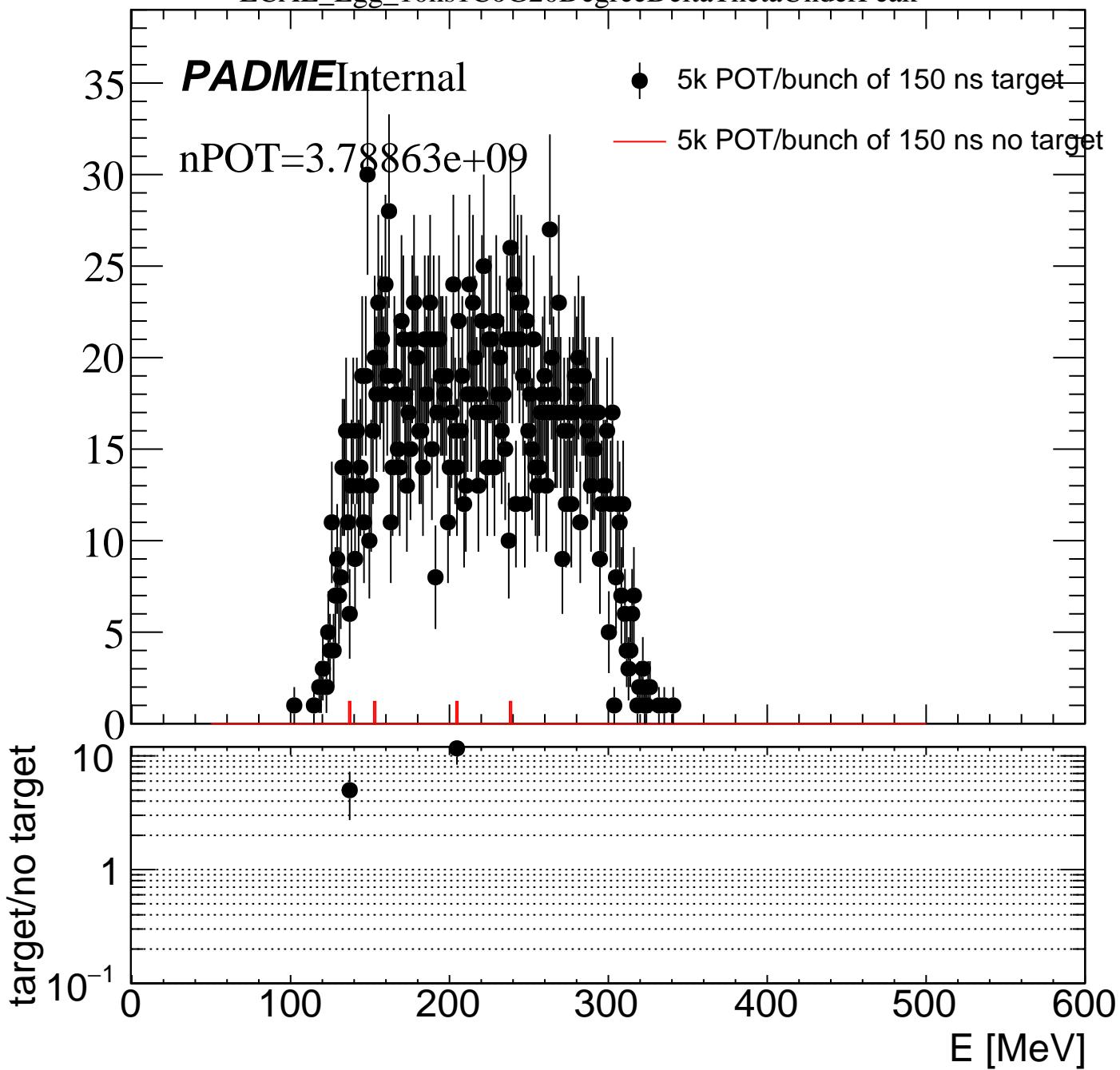
ECAL\_Egg\_10ns1CoG20Degree



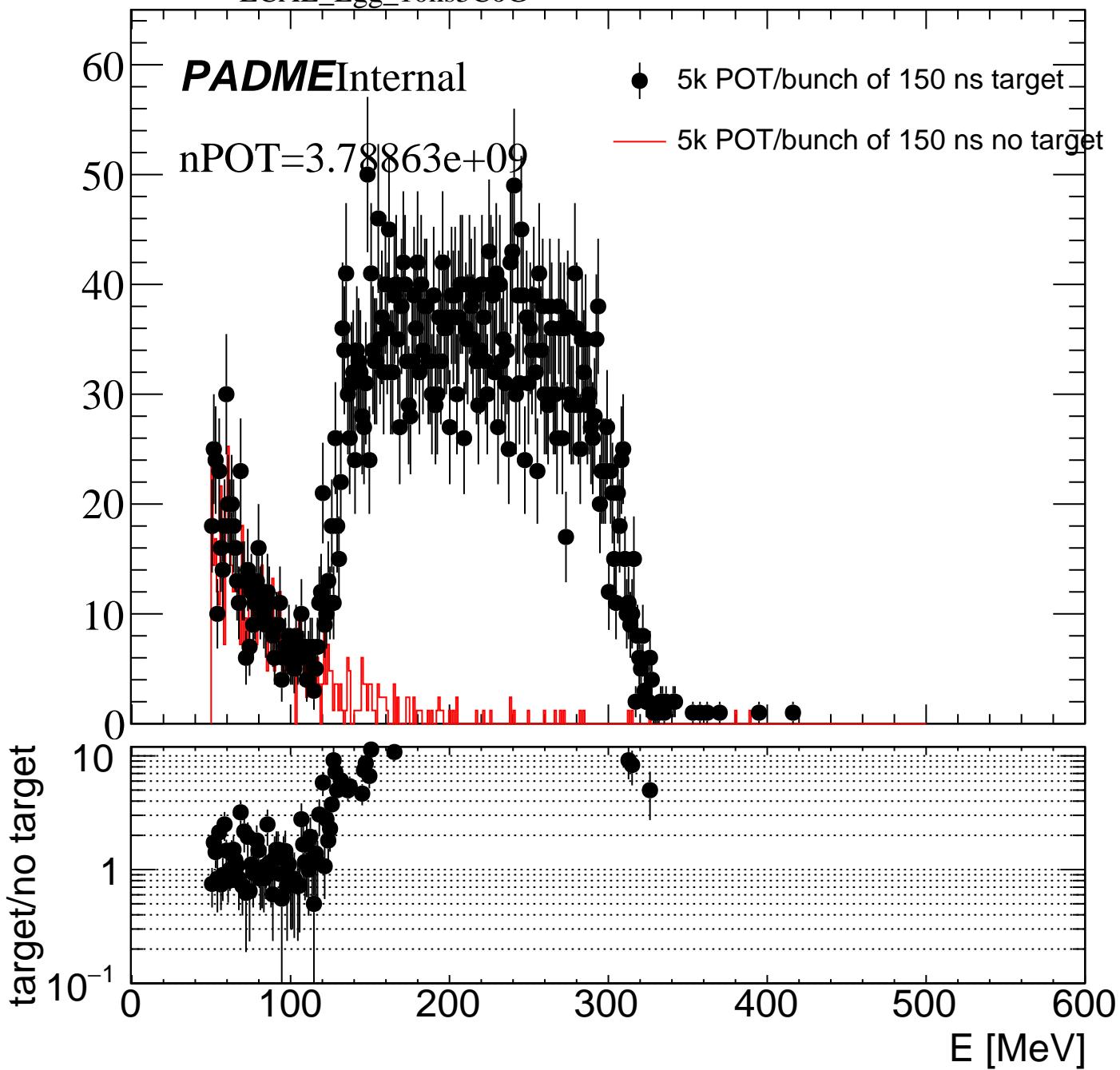
ECAL\_Egg\_10ns1CoG20DegreeDeltaTheta



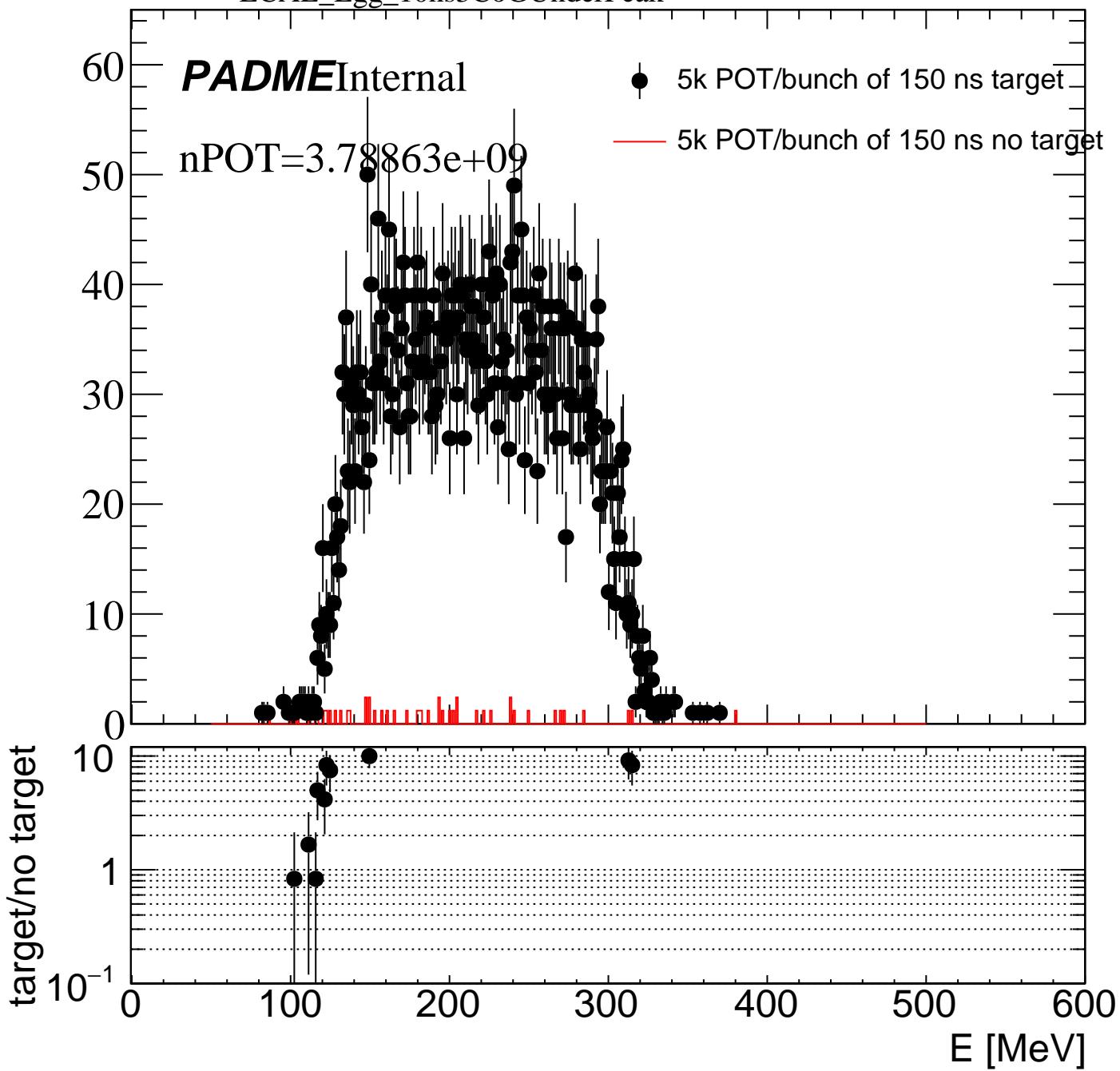
ECAL\_Egg\_10ns1CoG20DegreeDeltaThetaUnderPeak



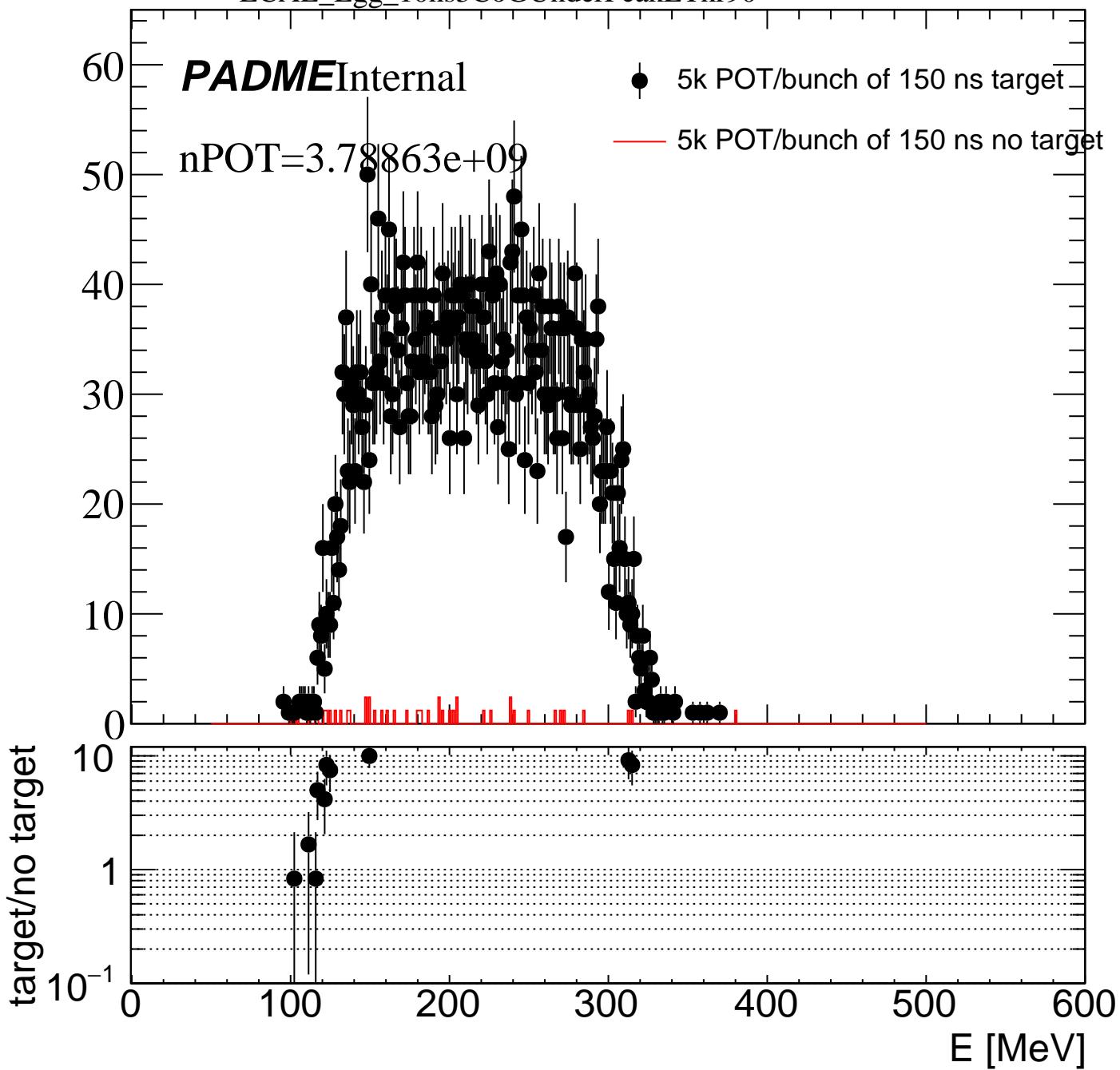
ECAL\_Egg\_10ns3CoG

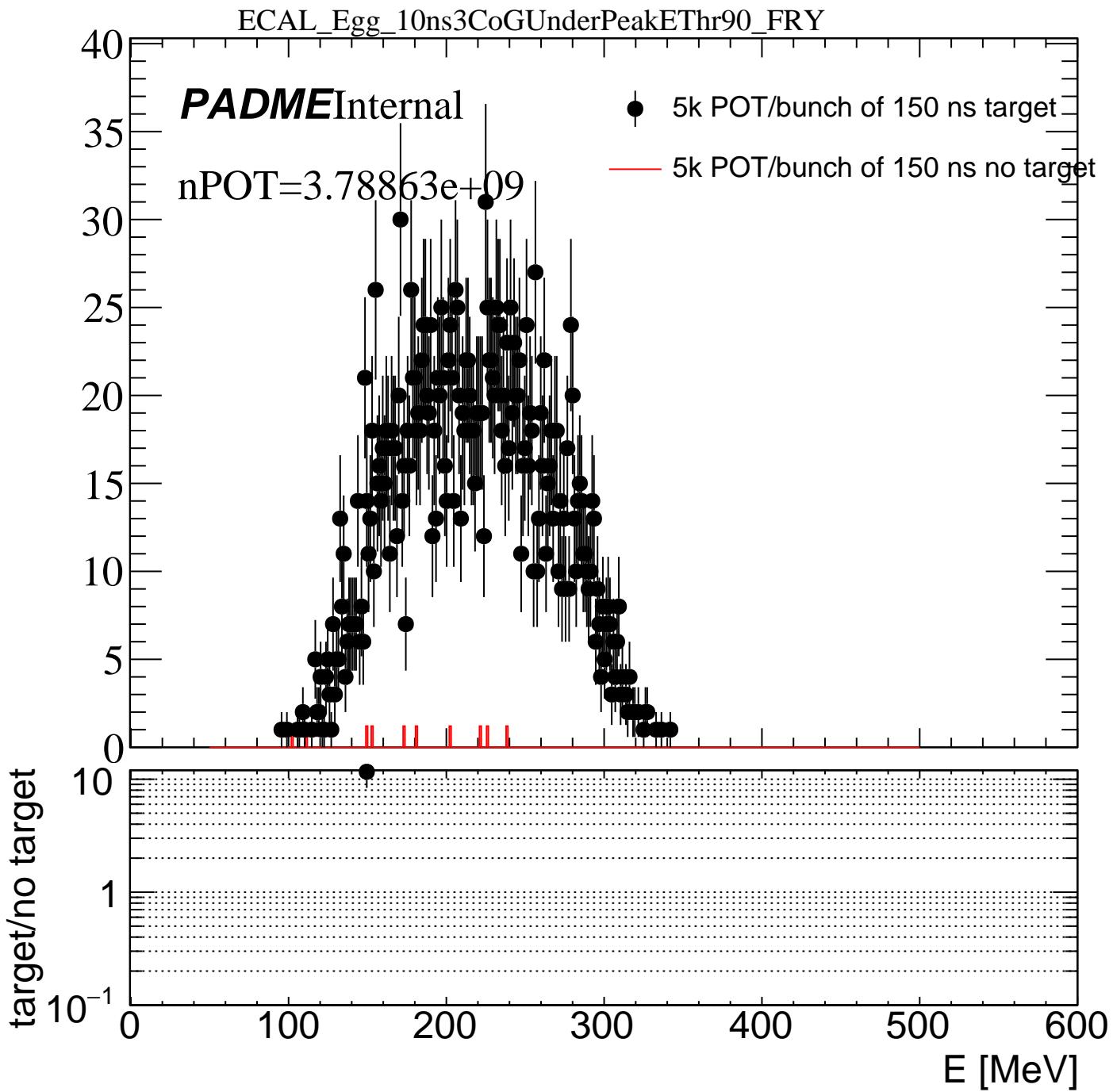


ECAL\_Egg\_10ns3CoGUnderPeak

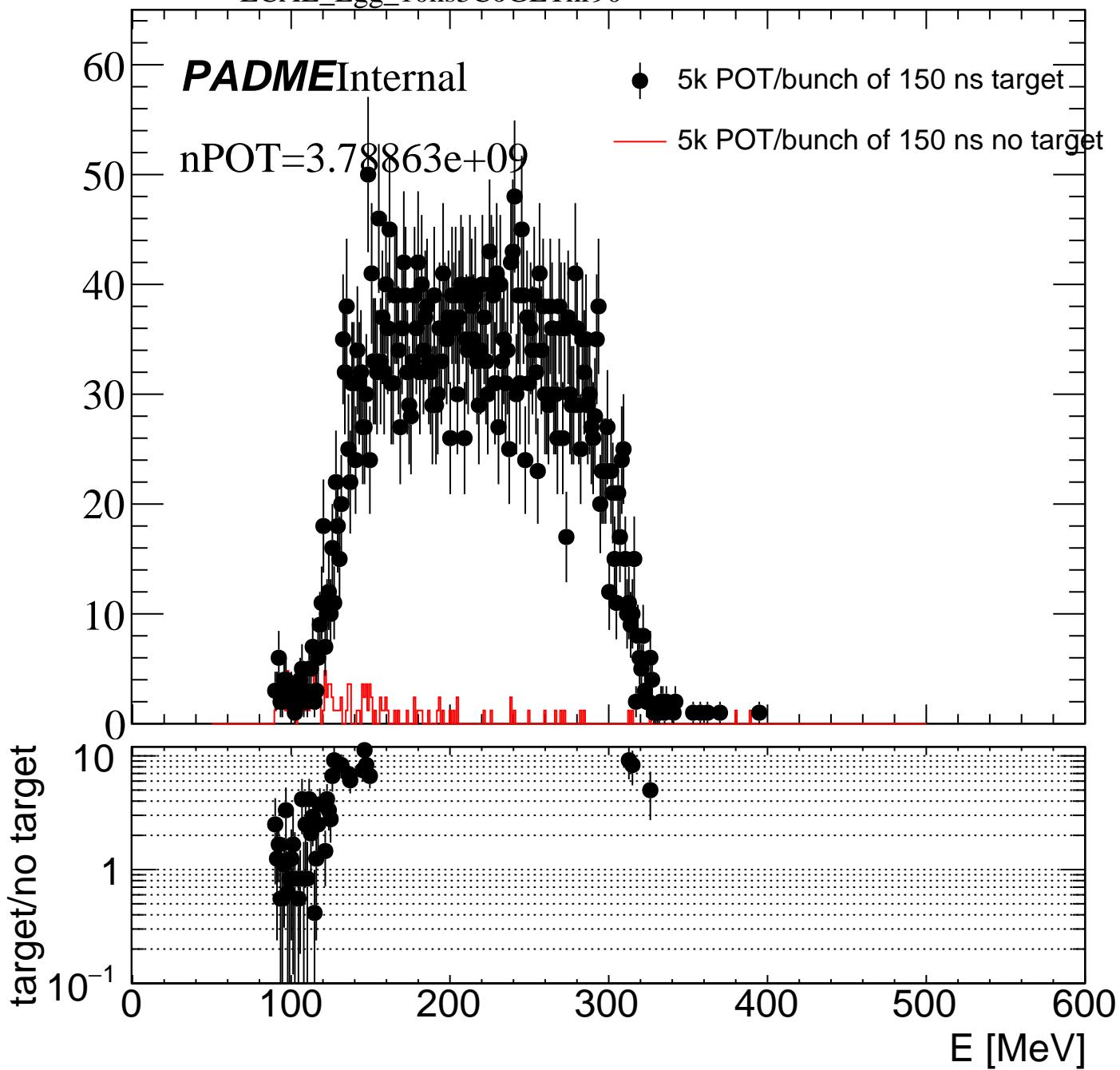


ECAL\_Egg\_10ns3CoGUnderPeakEThr90

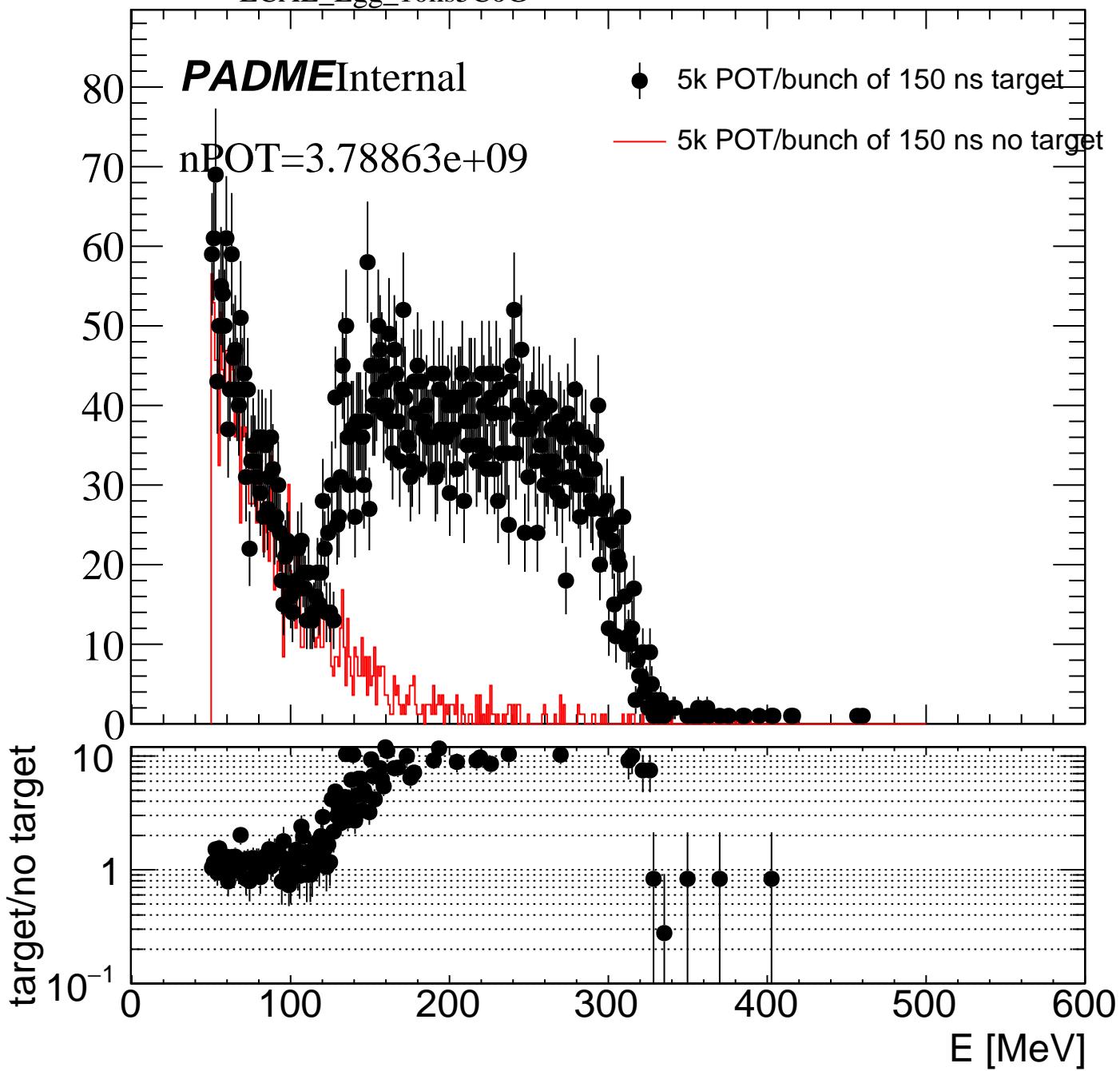




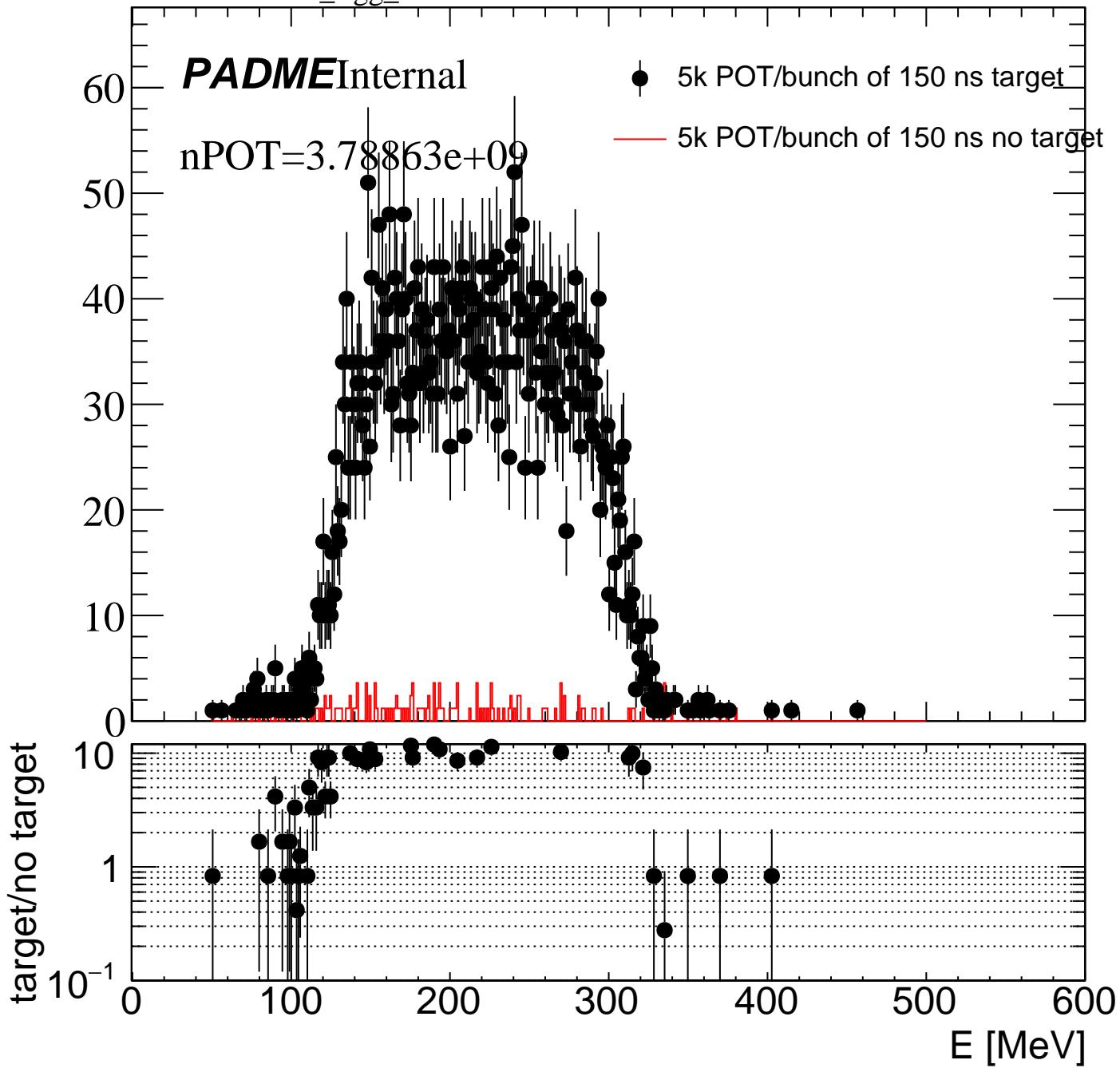
ECAL\_Egg\_10ns3CoGEThr90



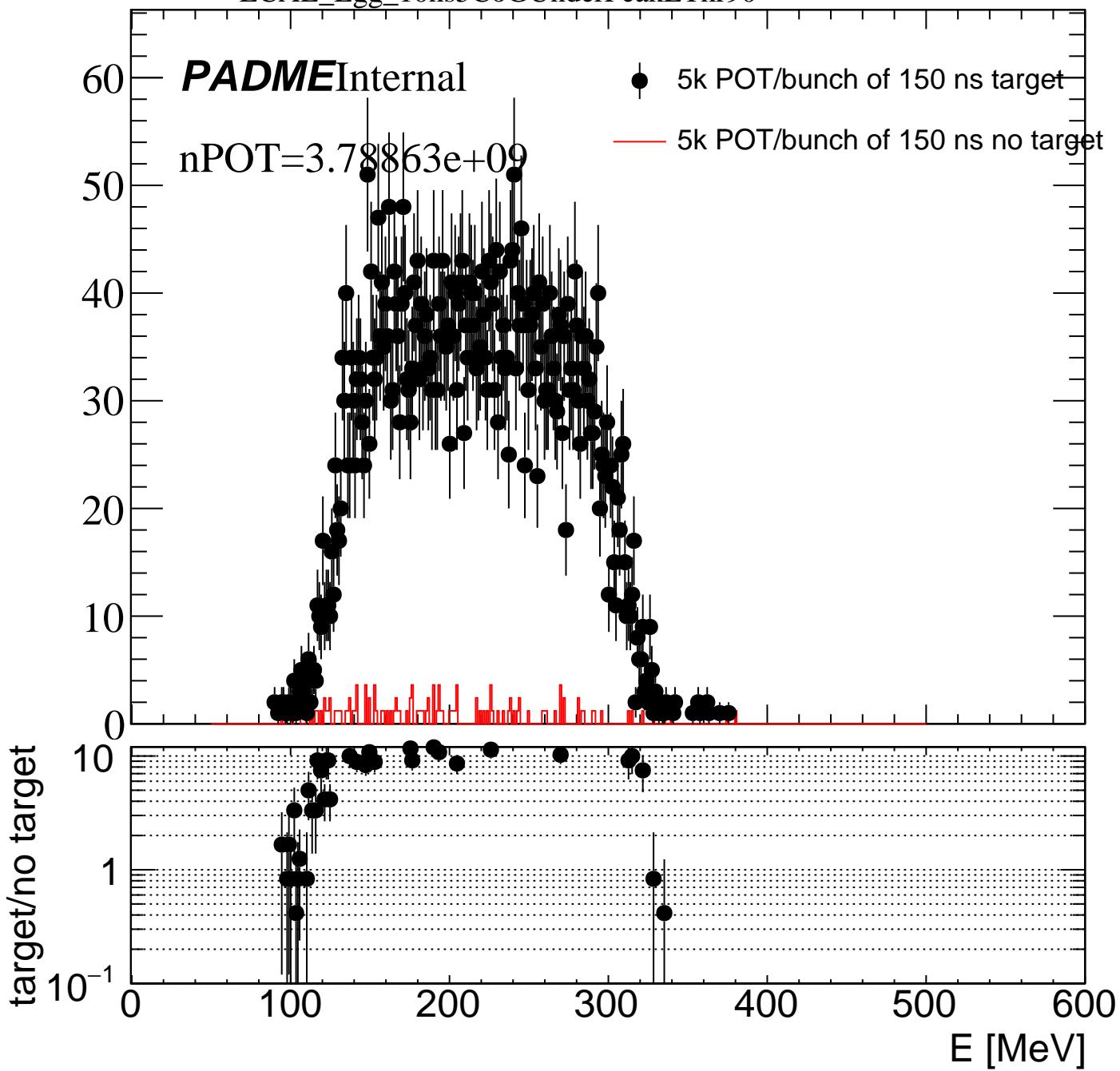
ECAL\_Egg\_10ns5CoG

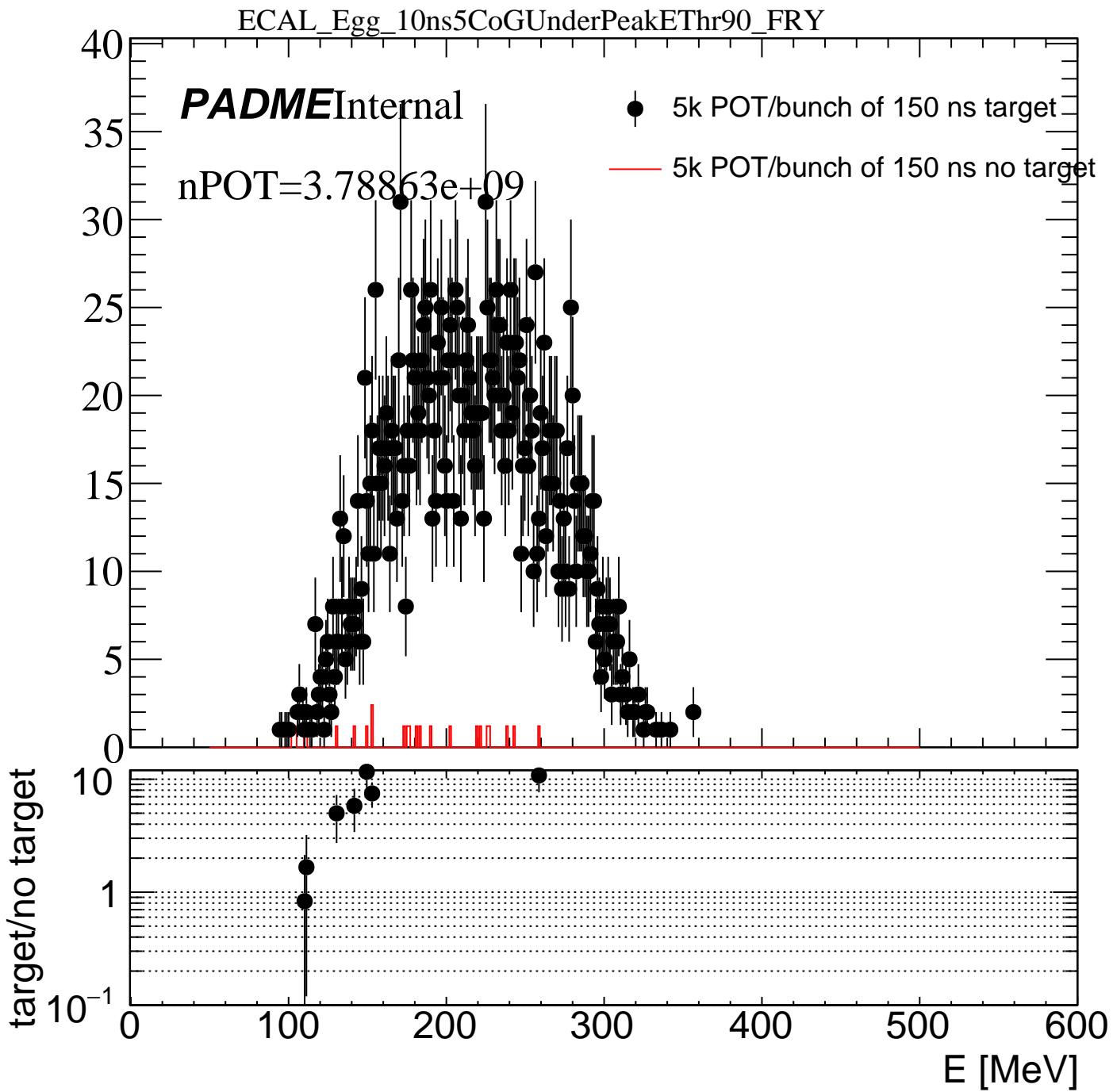


ECAL\_Egg\_10ns5CoGUnderPeak

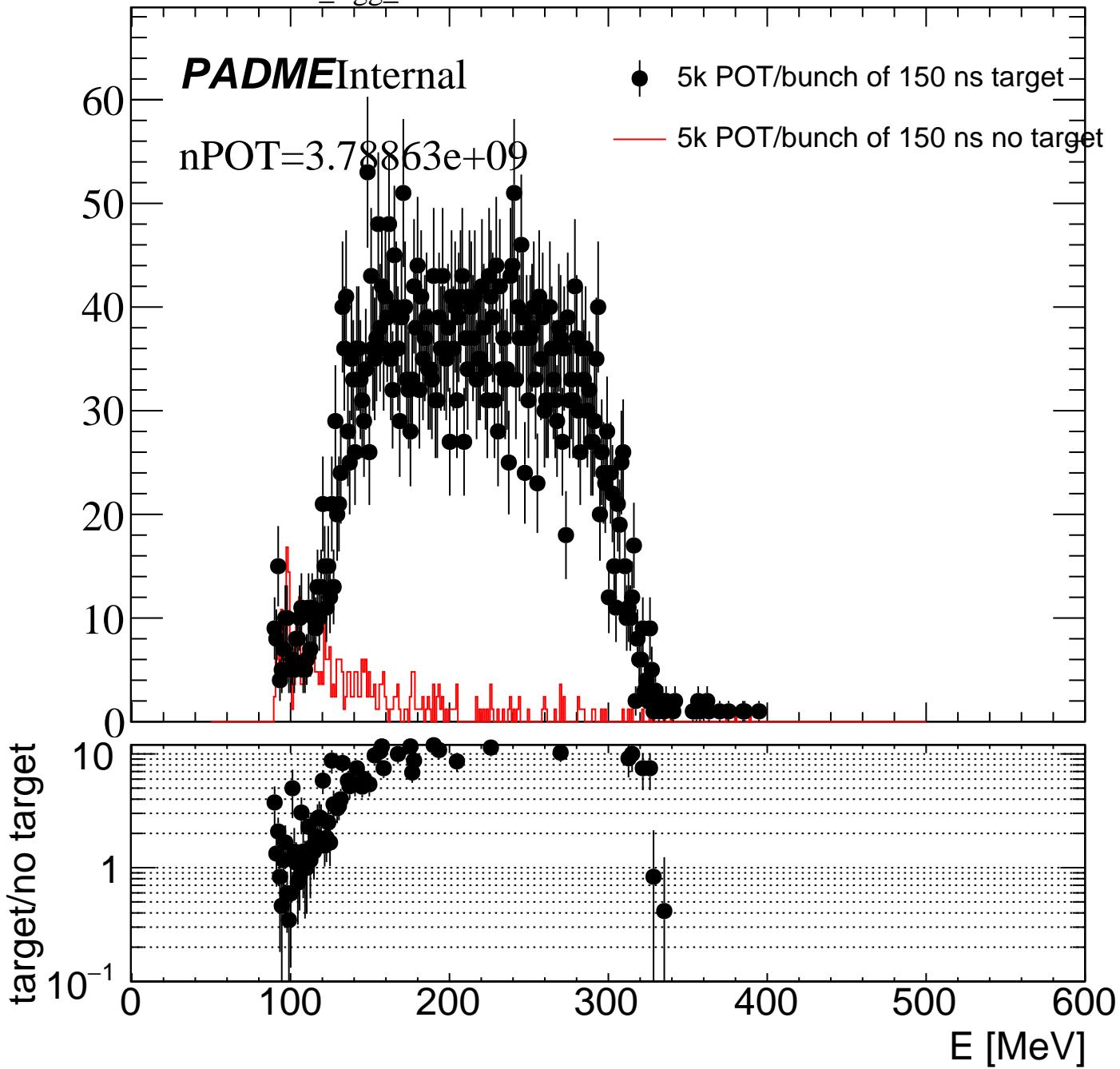


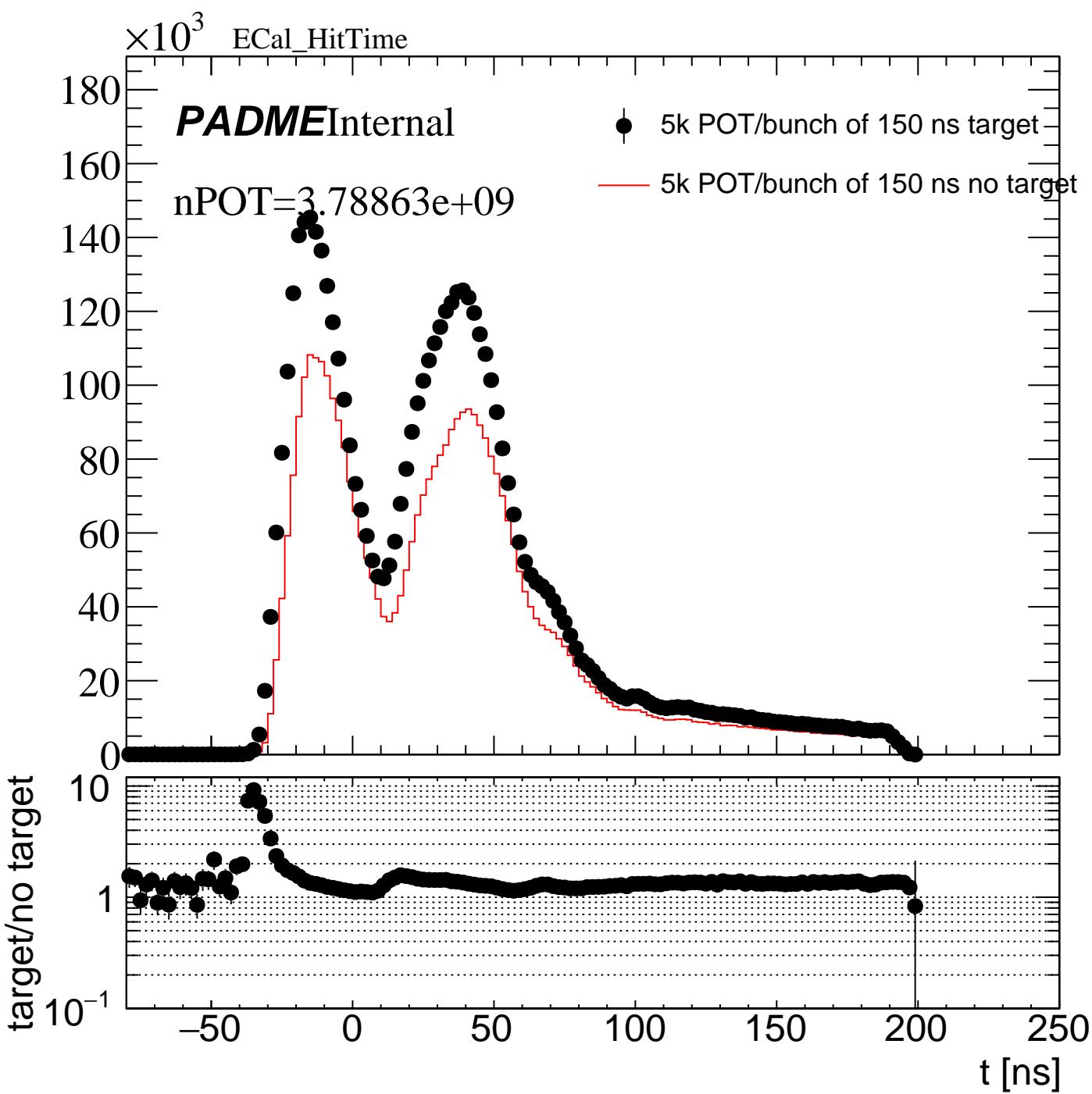
ECAL\_Egg\_10ns5CoGUnderPeakEThr90

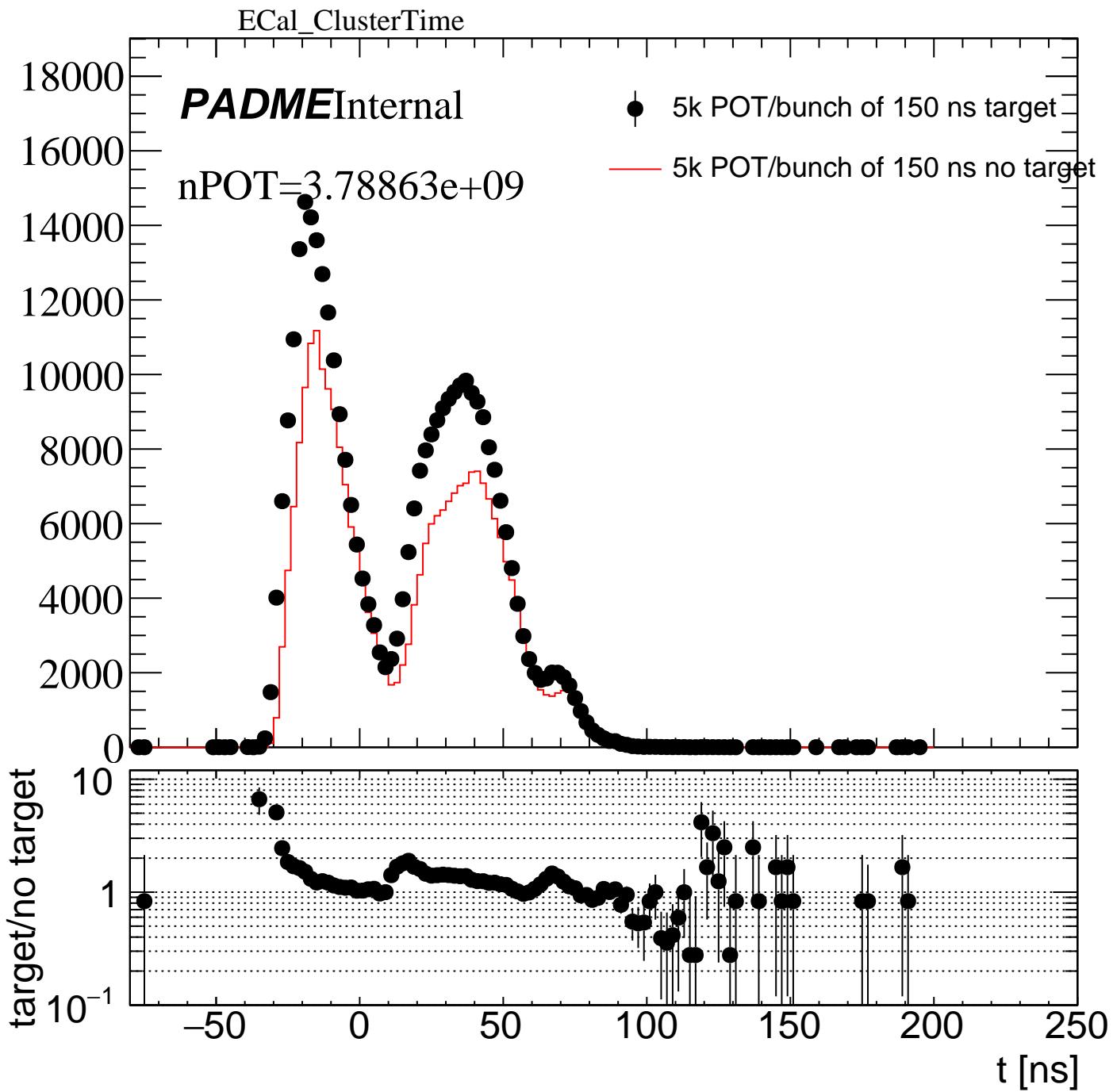




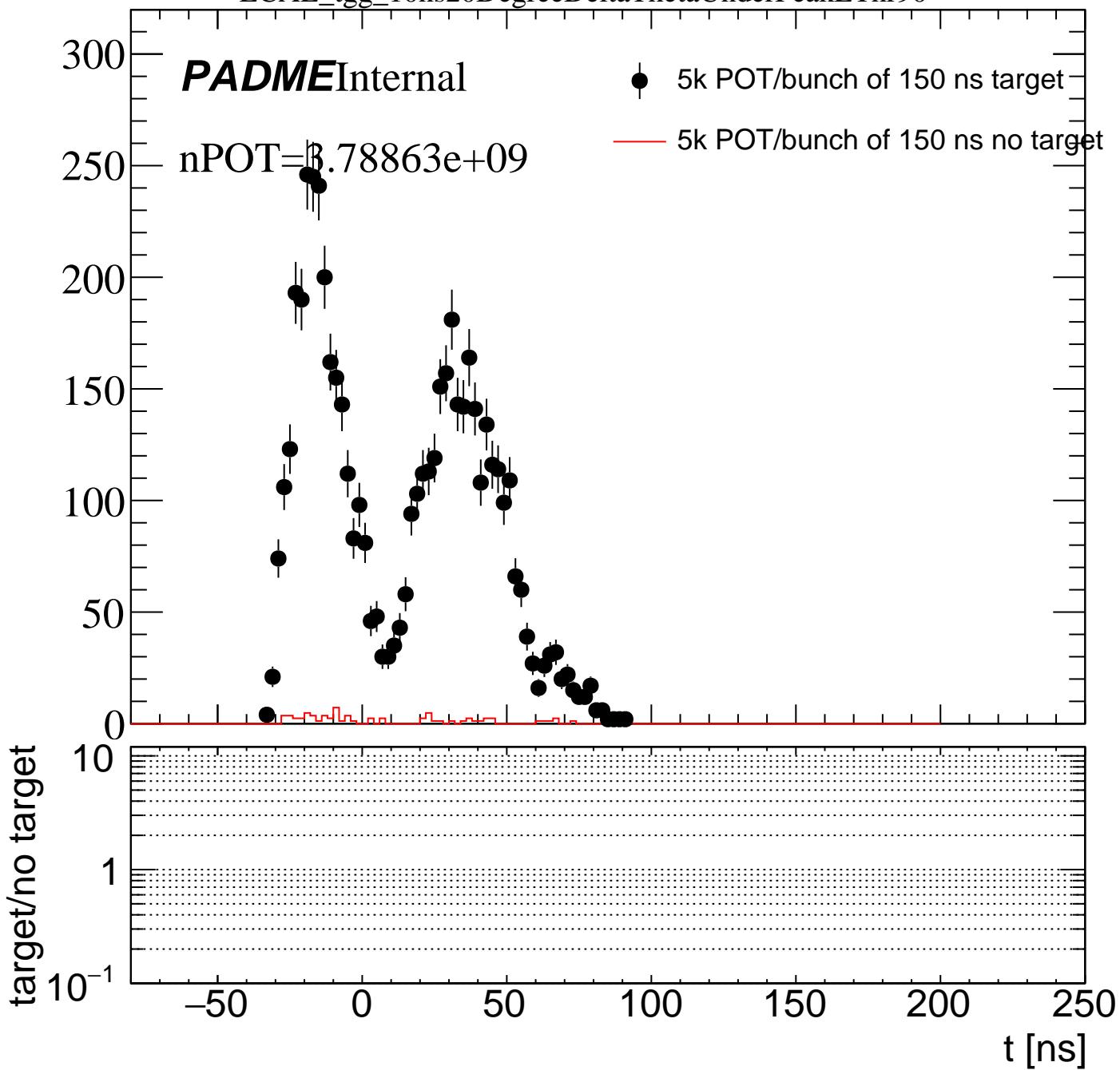
ECAL\_Egg\_10ns5CoGEThr90

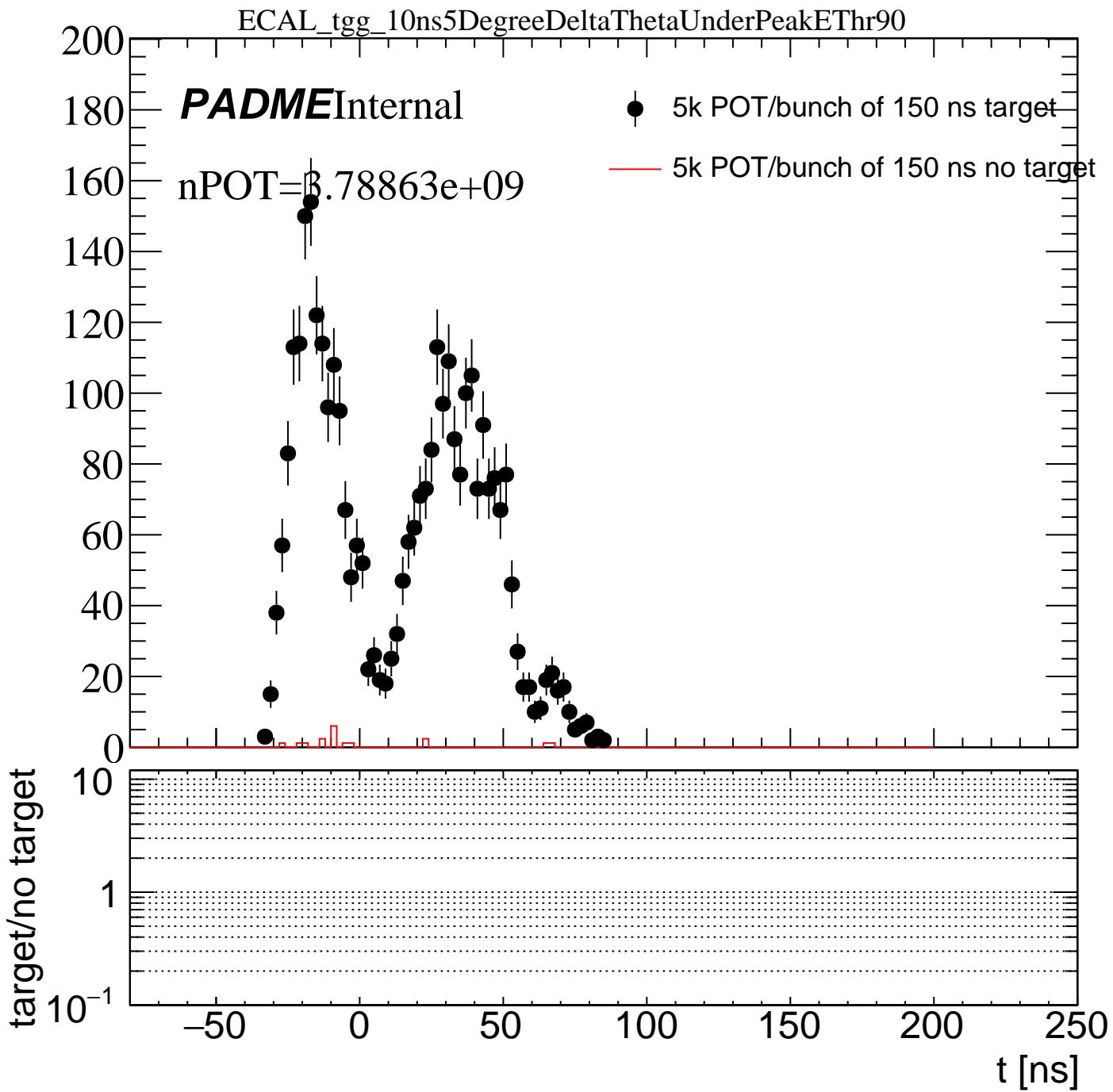


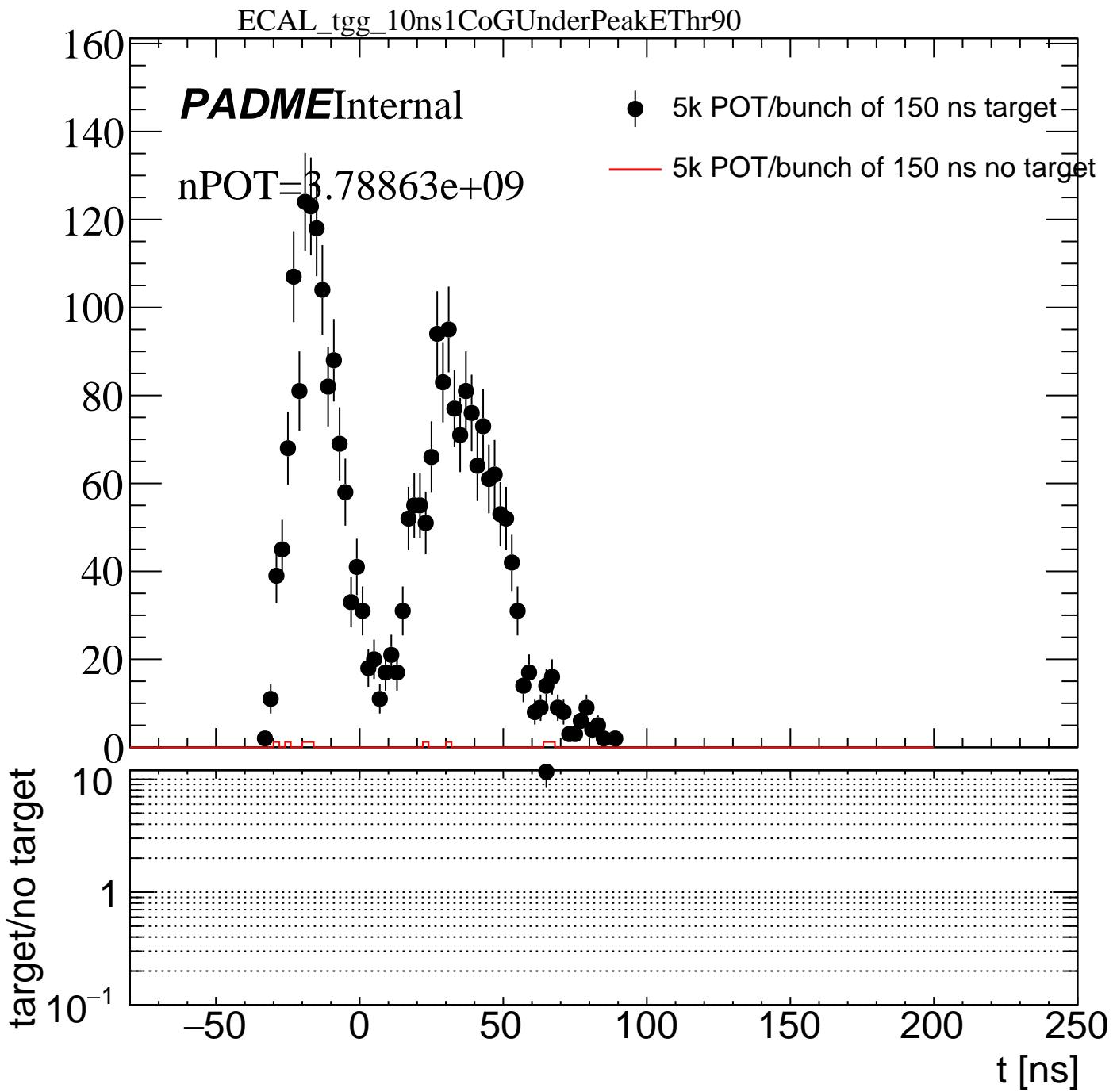




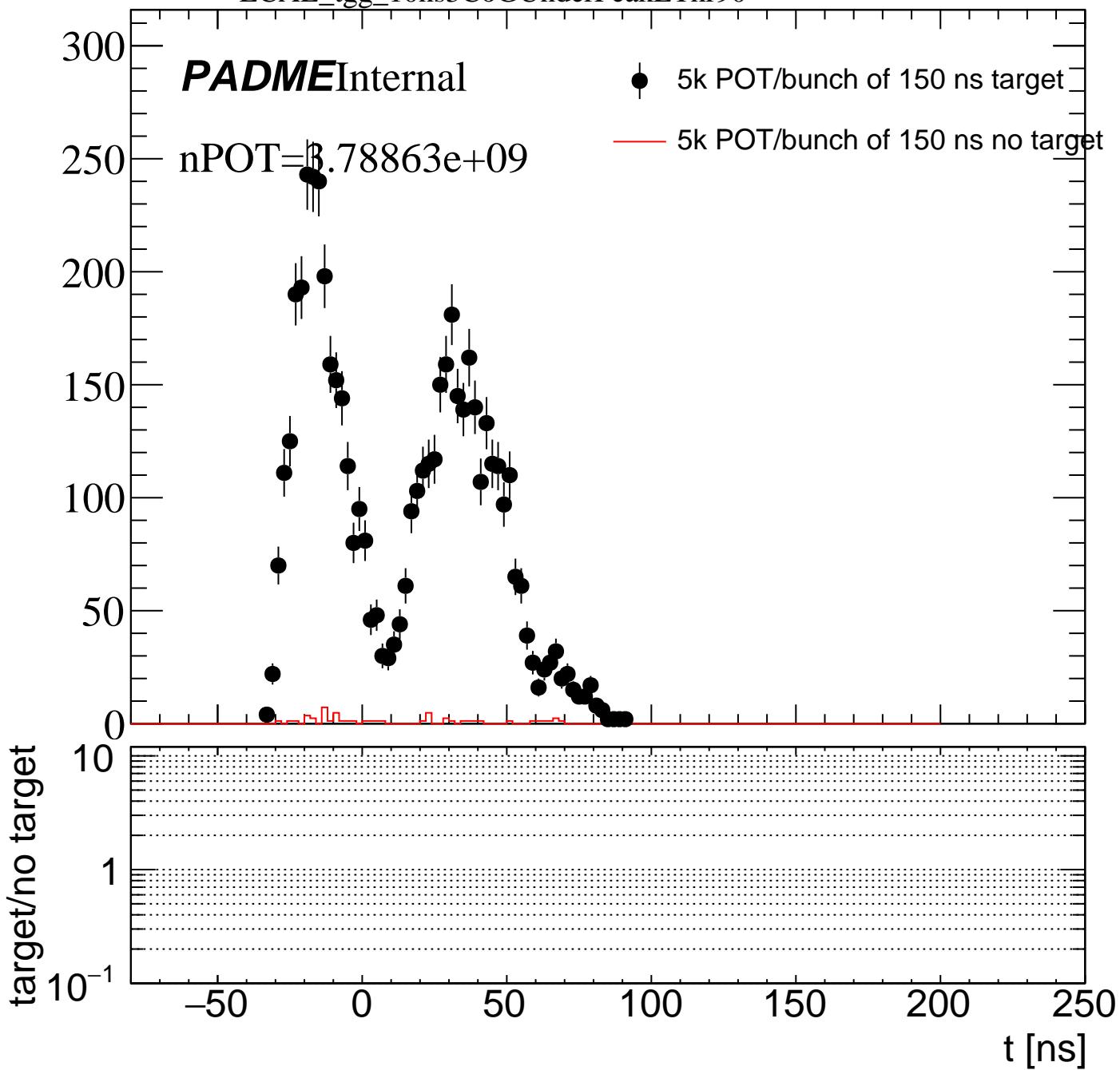
ECAL\_tgg\_10ns20DegreeDeltaThetaUnderPeakEThr90



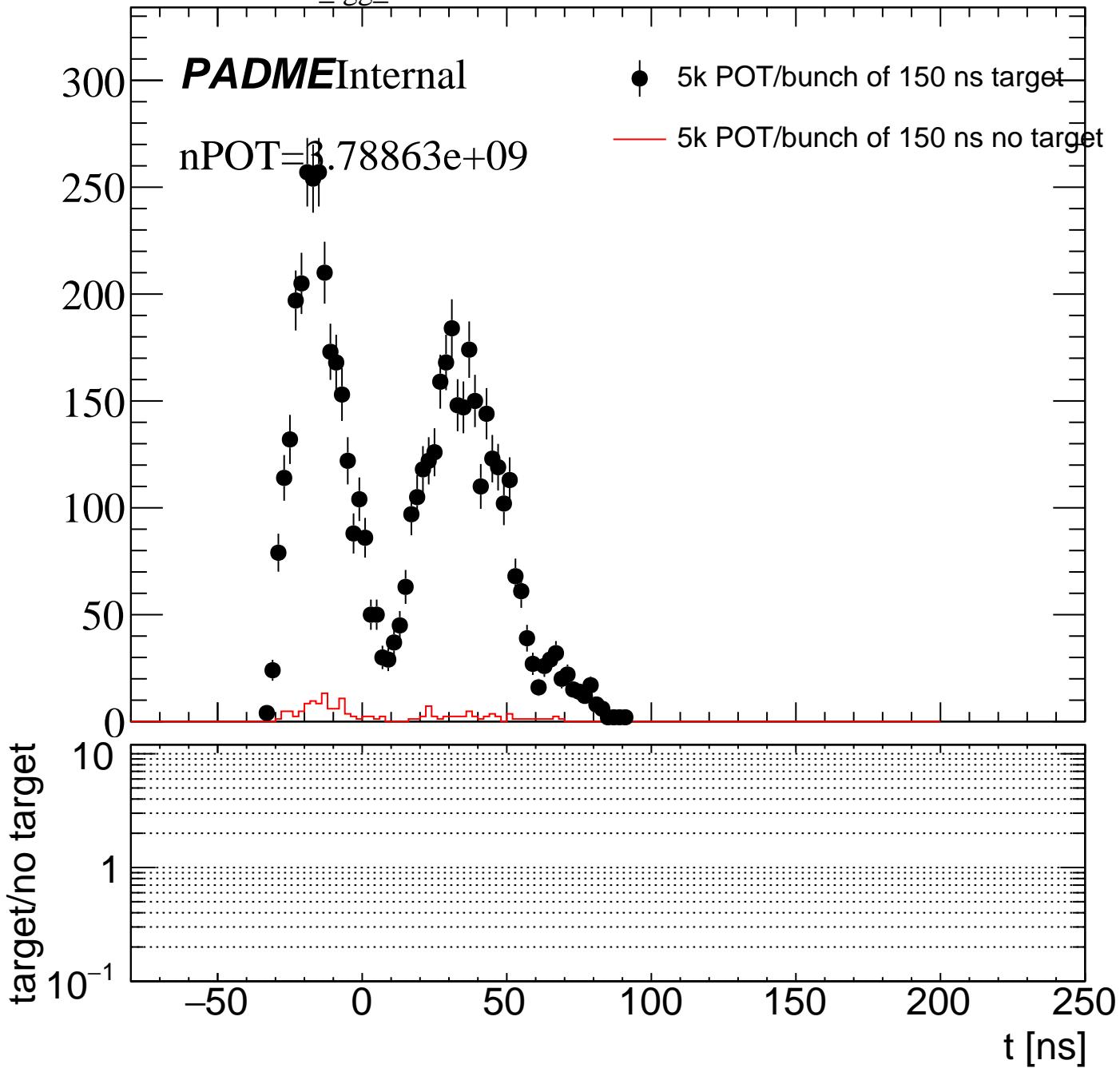




ECAL\_tgg\_10ns3CoGUnderPeakEThr90



ECAL\_tgg\_10ns5CoGUnderPeakEThr90



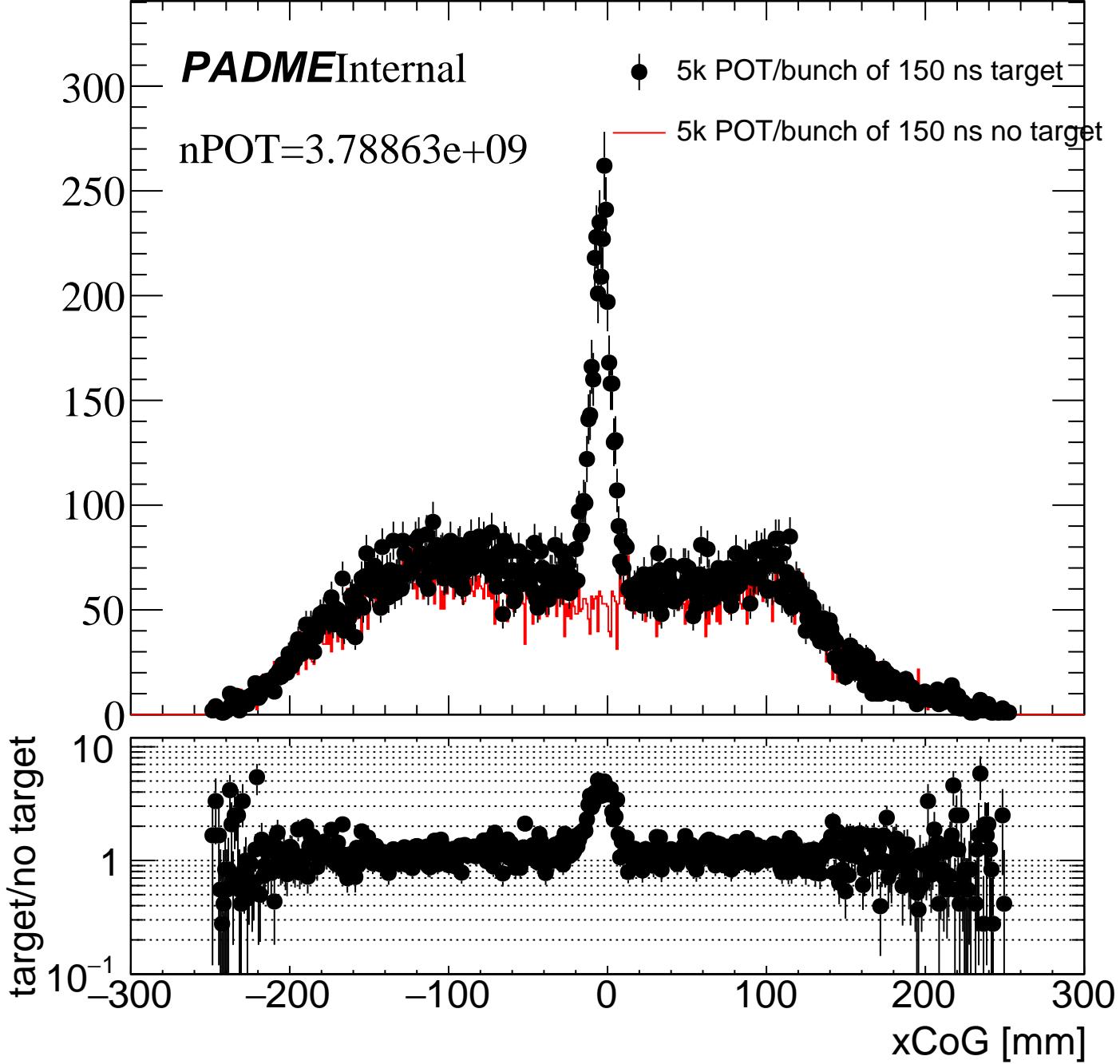
ECal\_xCoG\_10ns

**PADME**Internal

nPOT=3.78863e+09

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

target/no target



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=3.78863e+09

target/no target

10

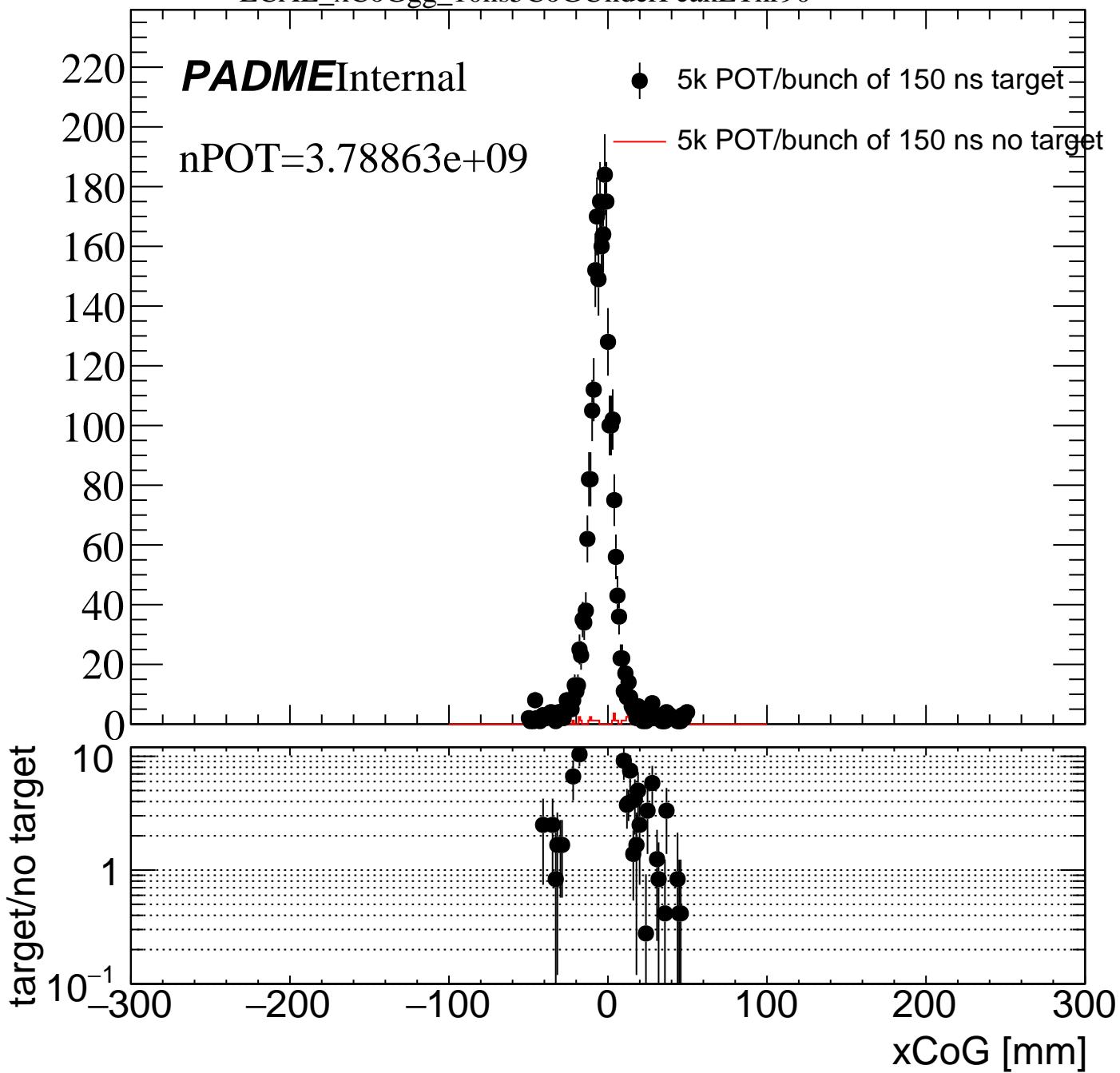
1

10<sup>-1</sup>

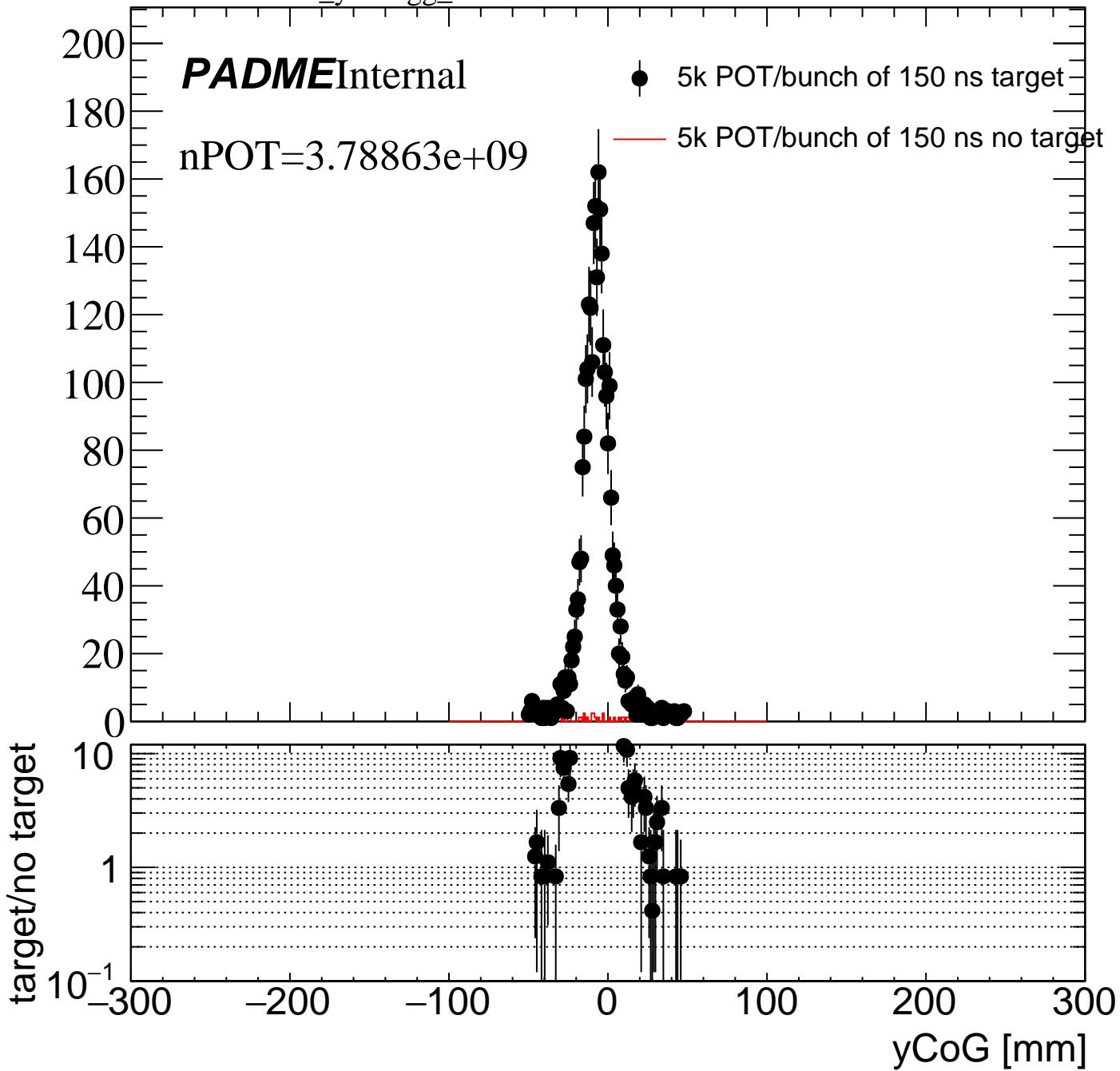
-300 -200 -100 0 100 200 300

yCoG [mm]

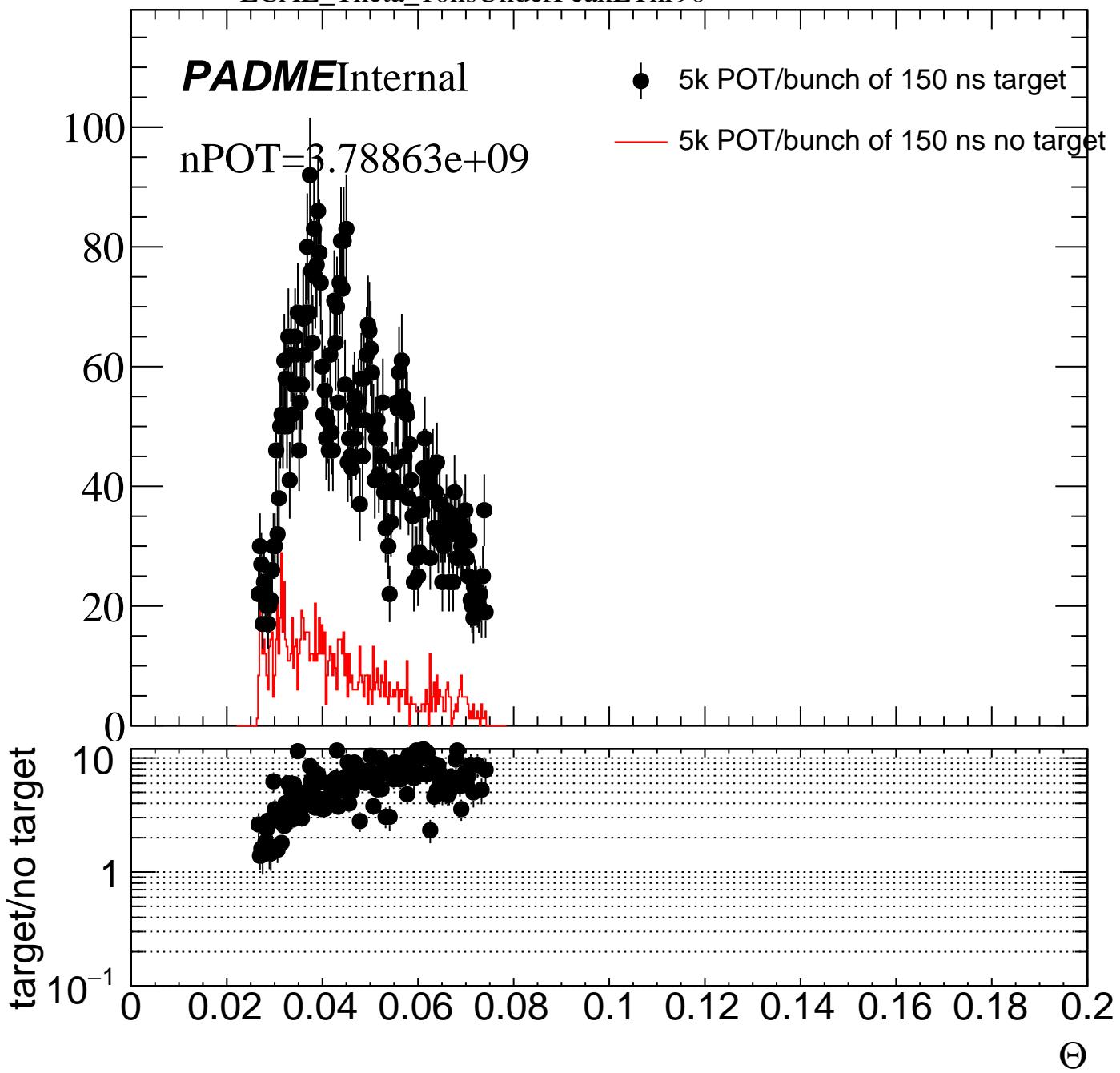
ECAL\_xCoGgg\_10ns5CoGUnderPeakEThr90



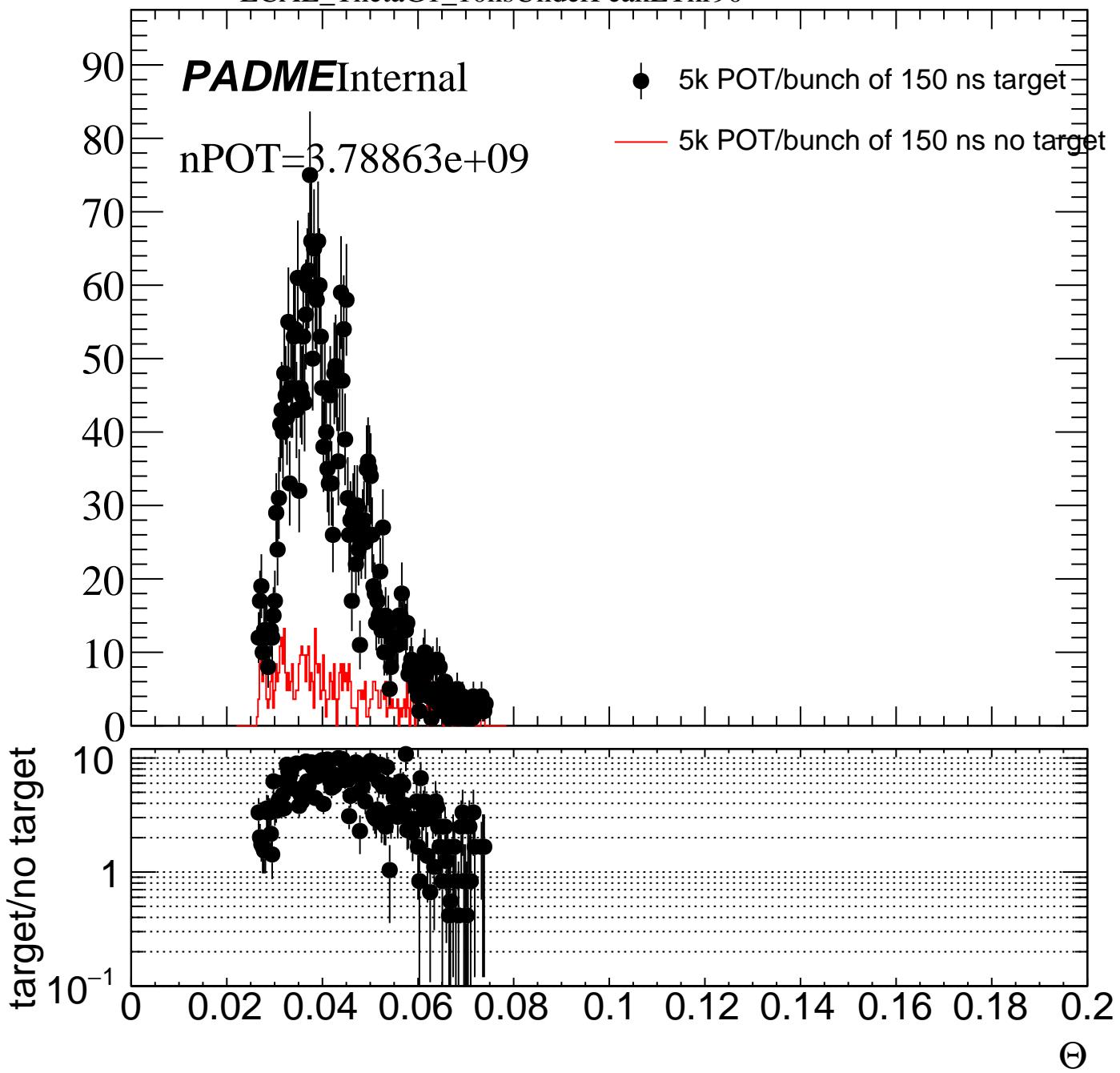
ECAL\_yCoGgg\_10ns5CoGUnderPeakEThr90



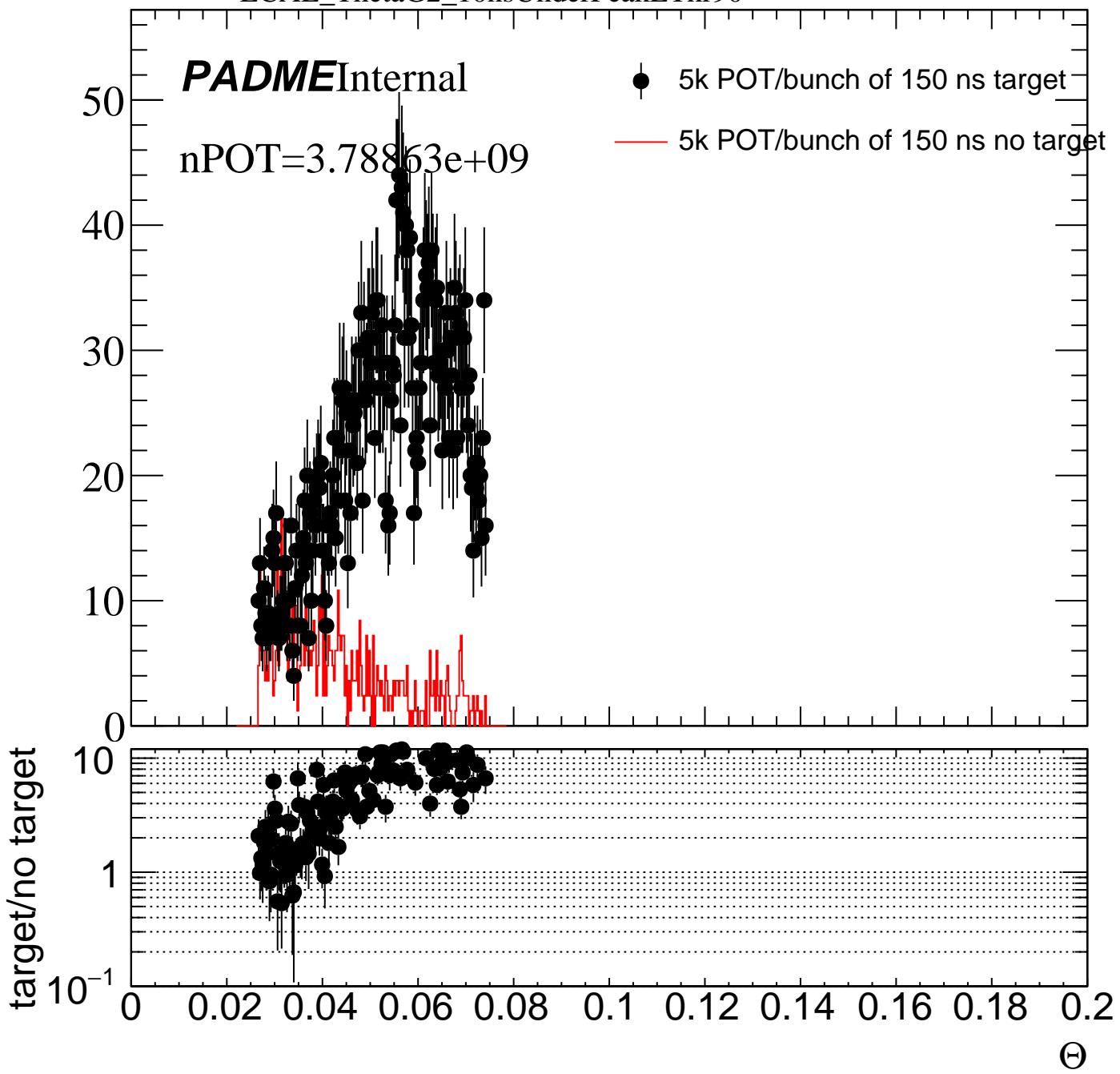
ECAL\_Theta\_10nsUnderPeakEThr90



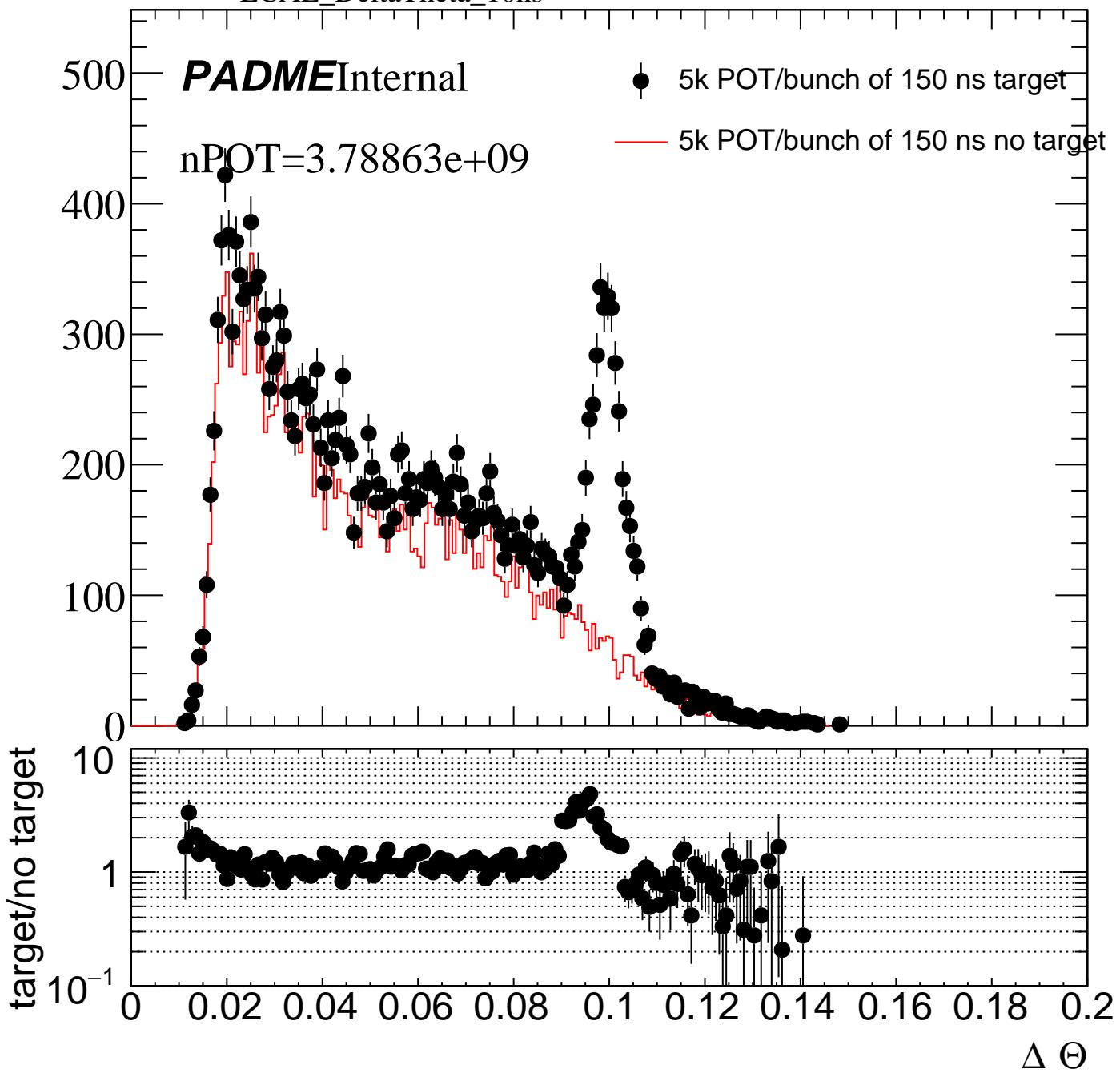
ECAL\_ThetaG1\_10nsUnderPeakEThr90



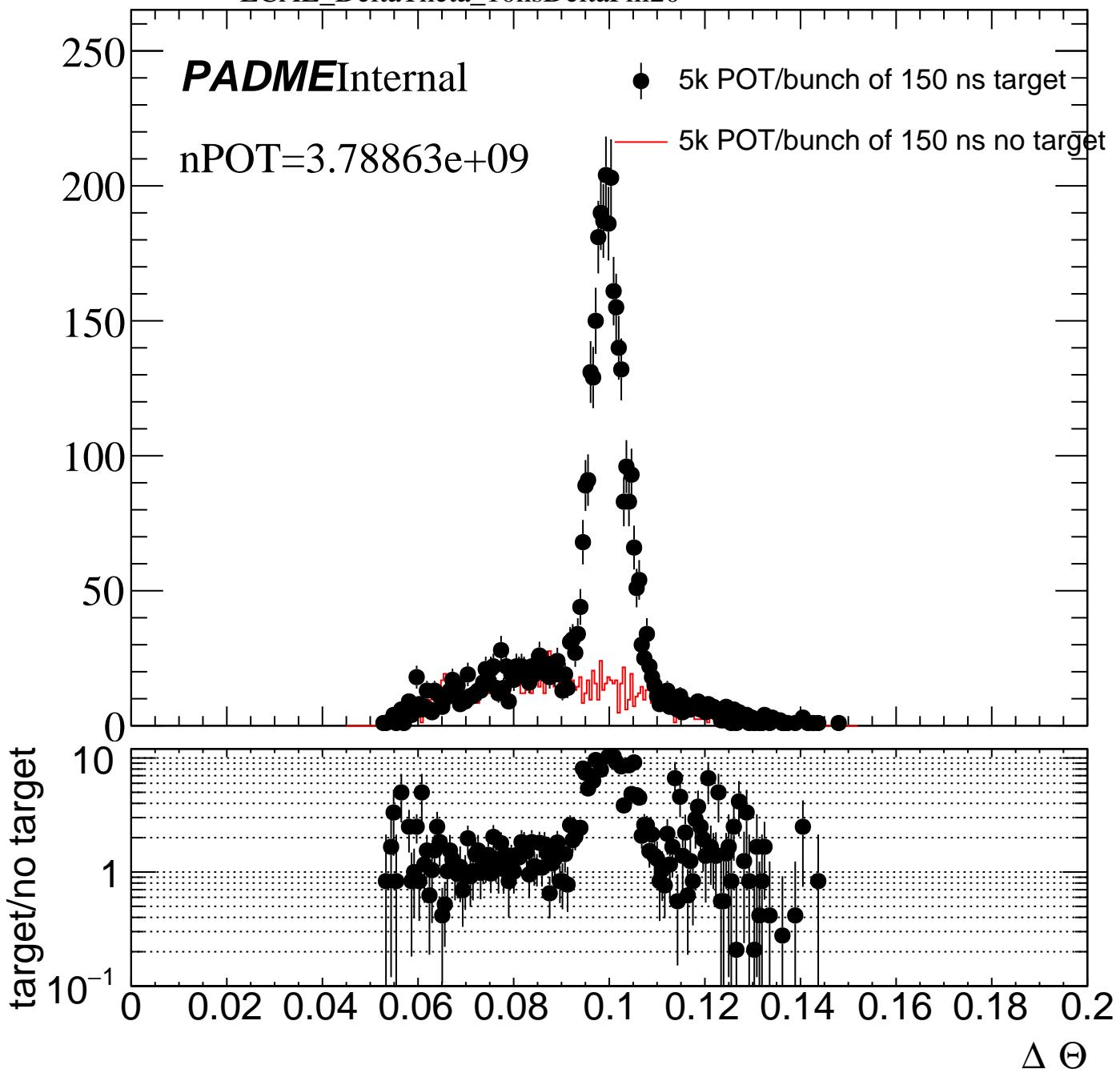
ECAL\_ThetaG2\_10nsUnderPeakEThr90



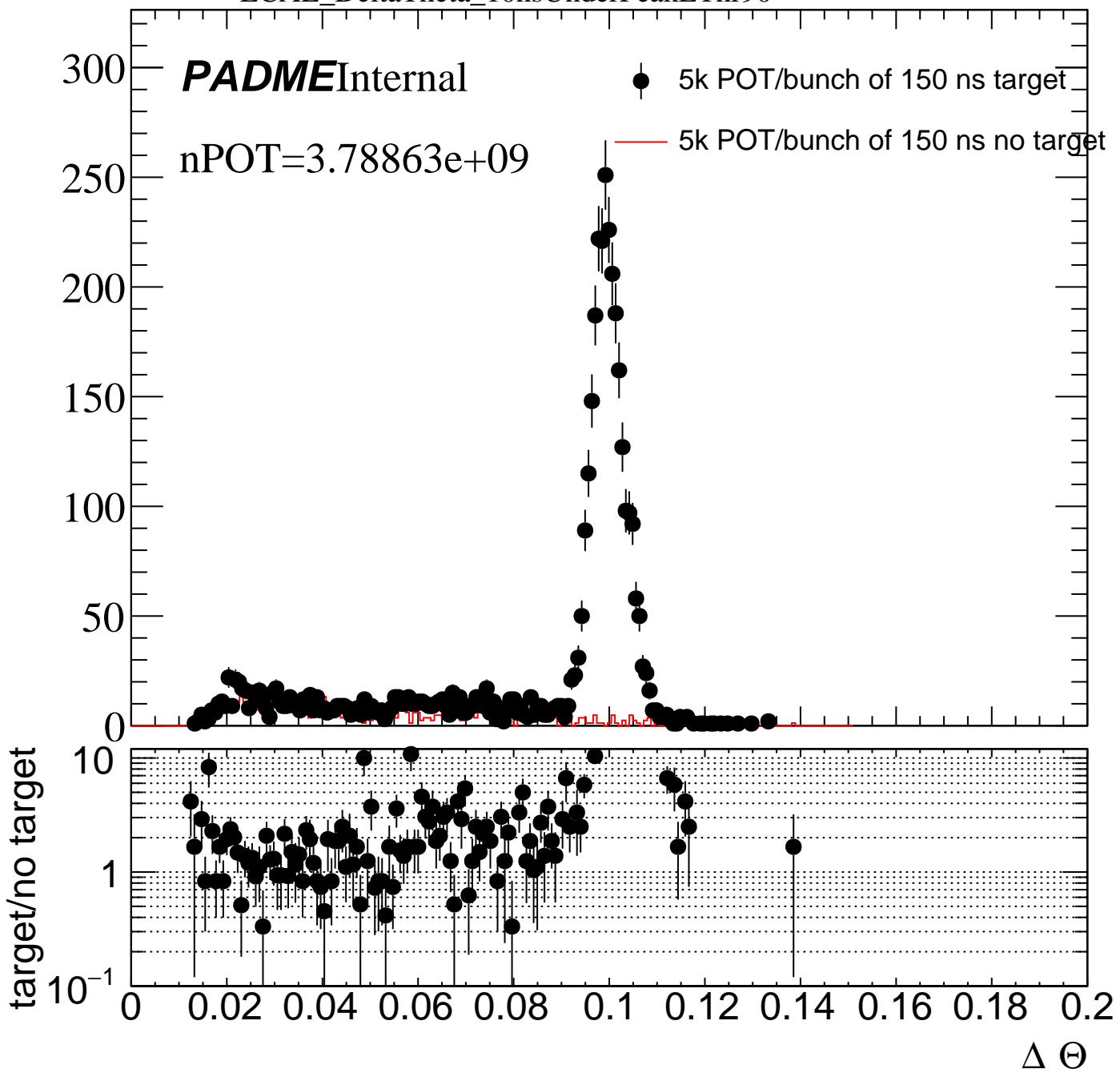
ECAL\_DeltaTheta\_10ns



ECAL\_DeltaTheta\_10nsDeltaPhi20



ECAL\_DeltaTheta\_10nsUnderPeakEThr90



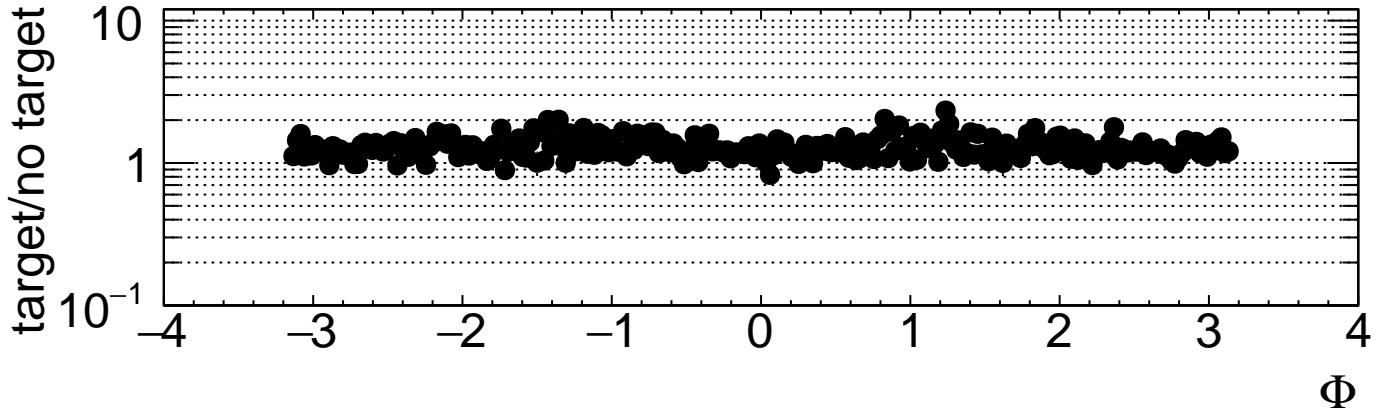
ECAL\_Phi\_10ns

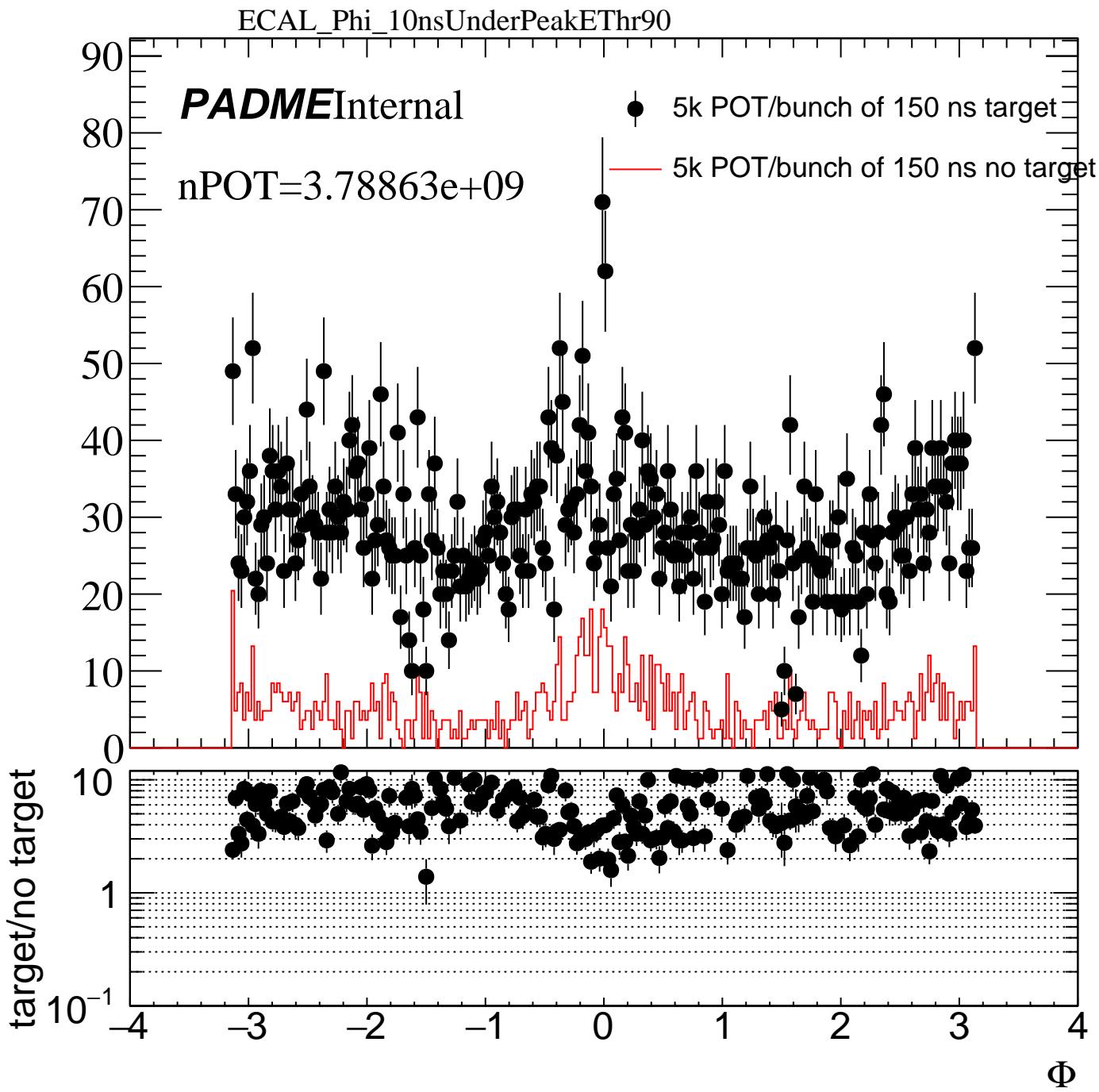
**PADME** Internal

nPOT=3.78863e+09

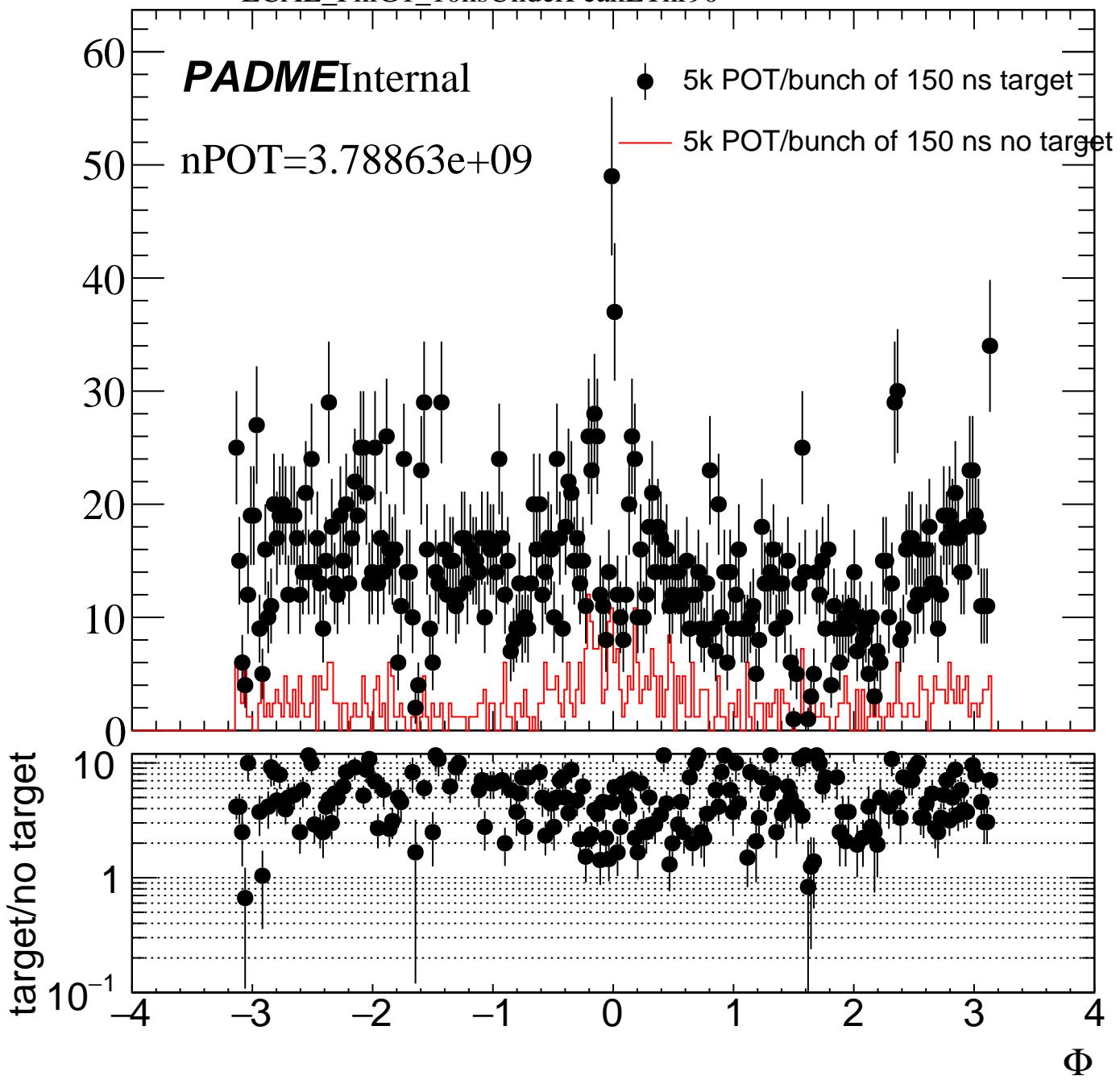
● 5k POT/bunch of 150 ns target

— 5k POT/bunch of 150 ns no target

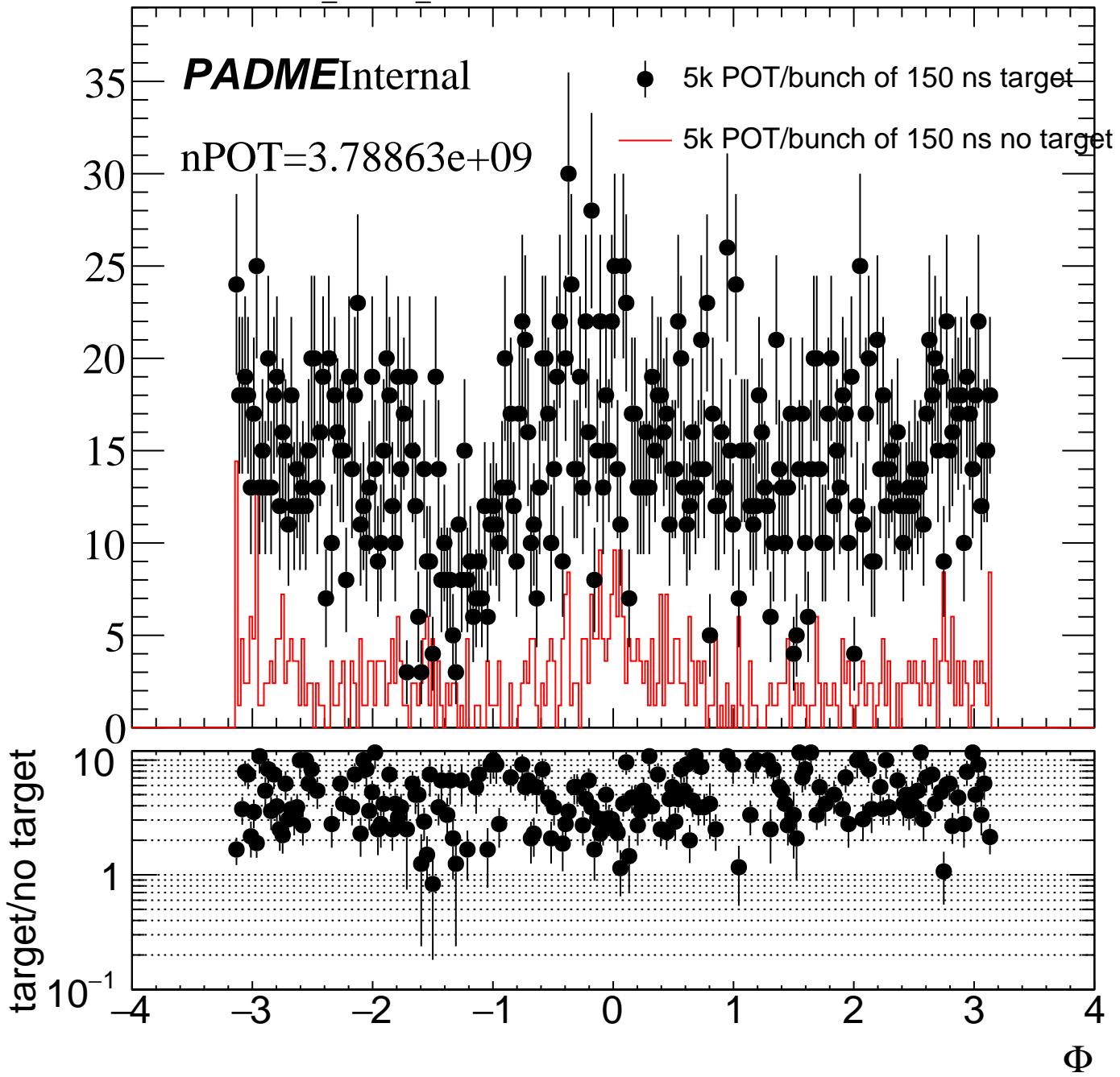




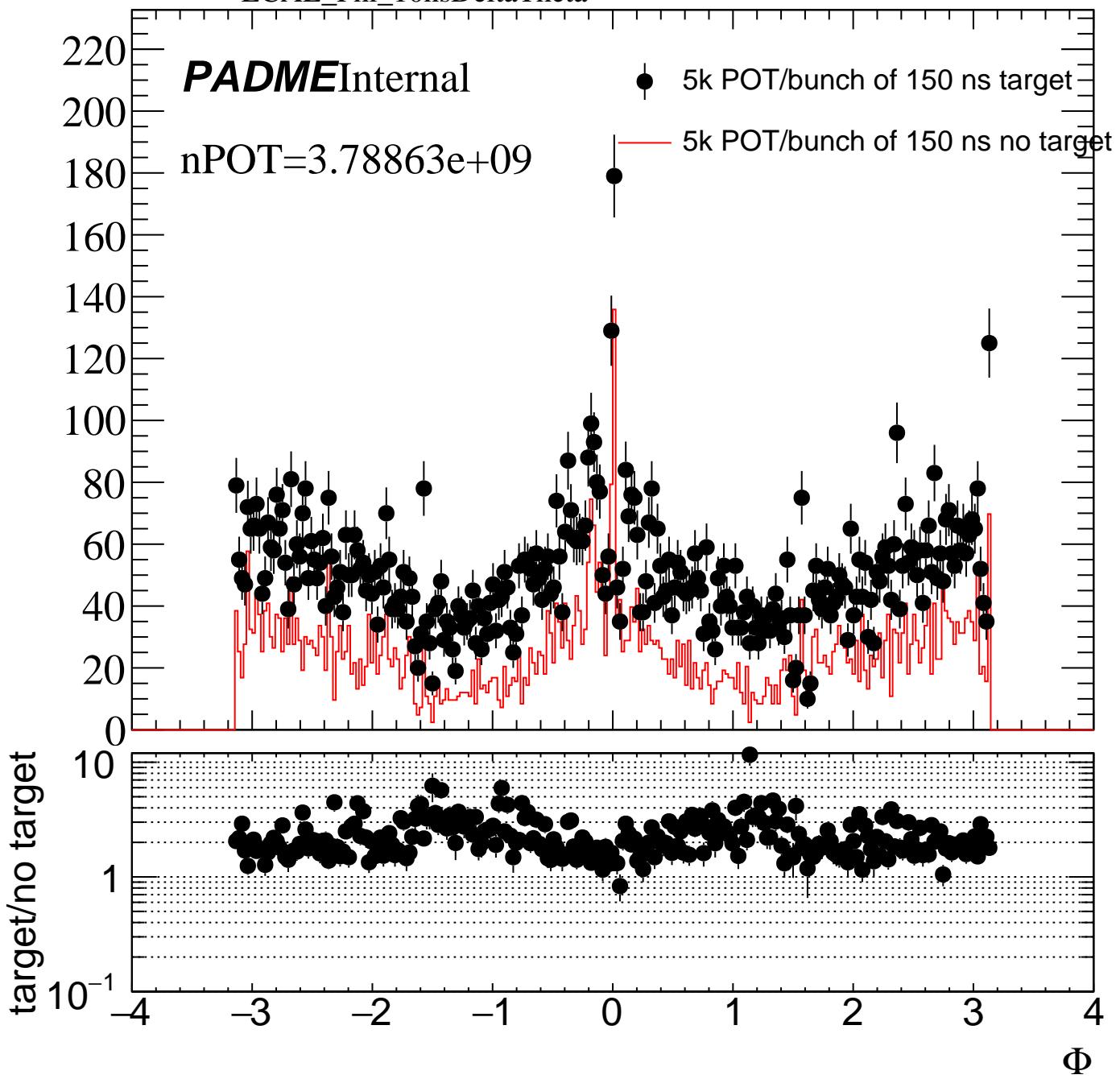
ECAL\_PhiG1\_10nsUnderPeakEThr90



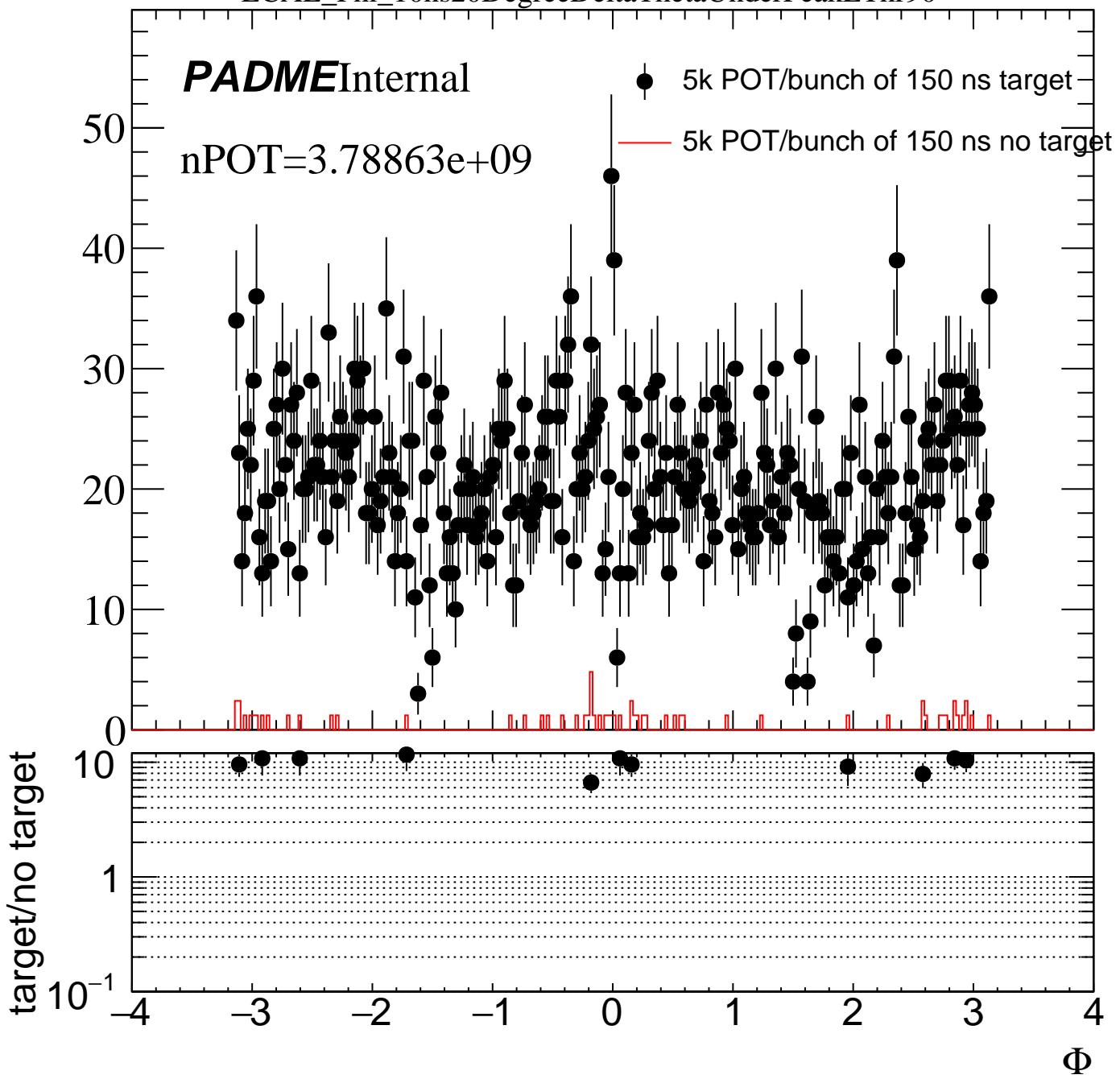
ECAL\_PhiG2\_10nsUnderPeakEThr90

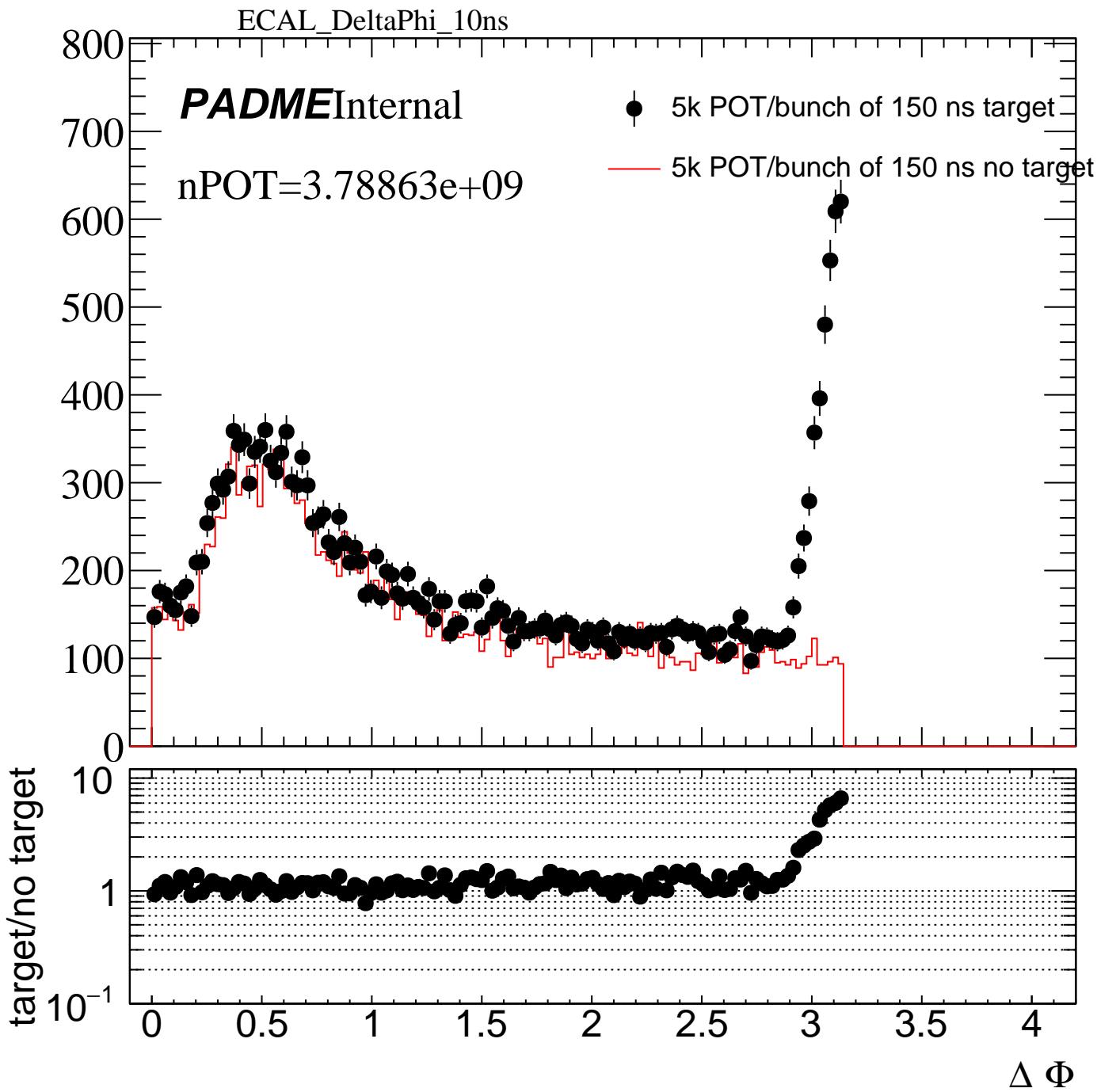


# ECAL\_Phi\_10nsDeltaTheta

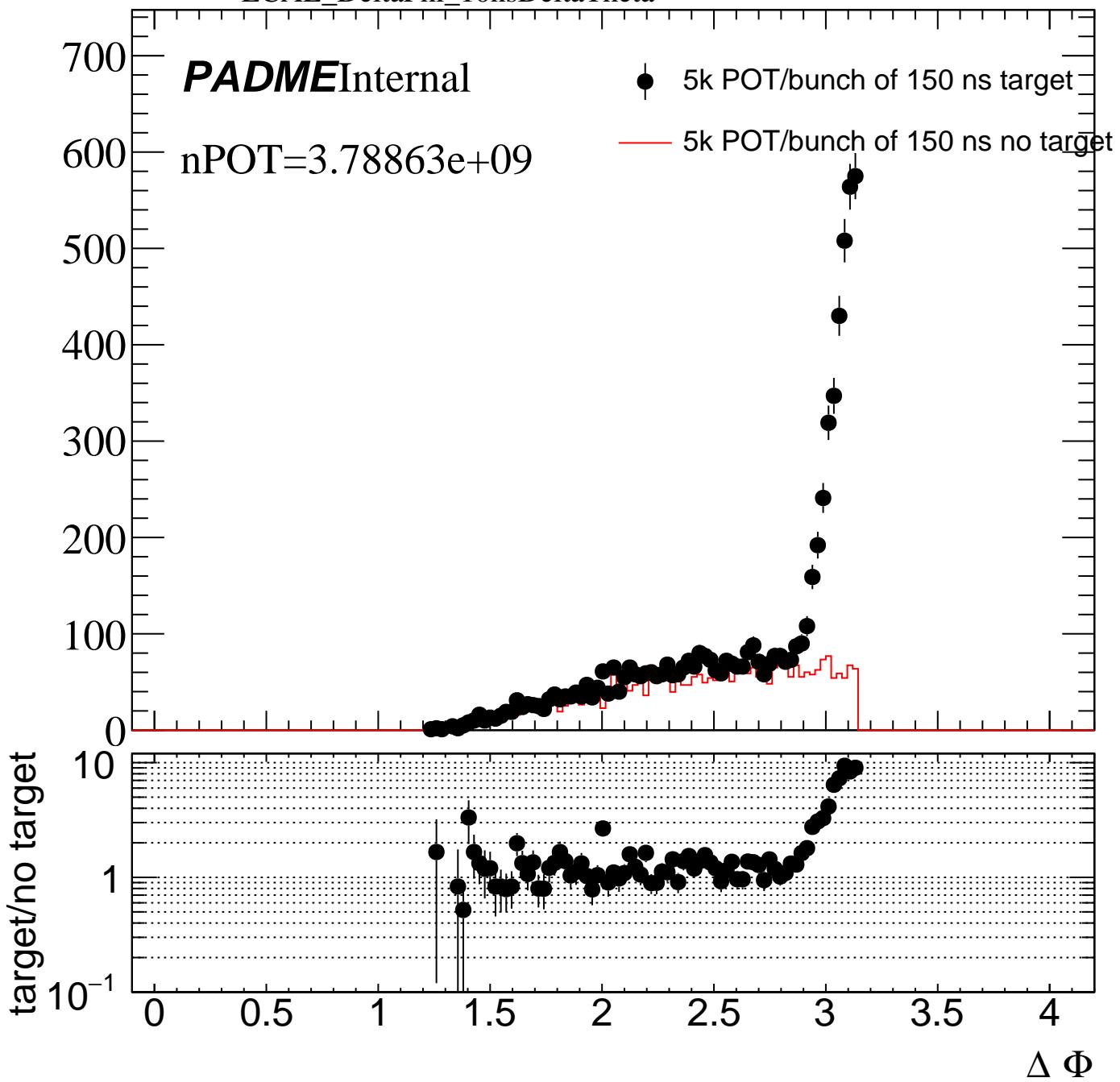


ECAL\_Phi\_10ns20DegreeDeltaThetaUnderPeakEThr90

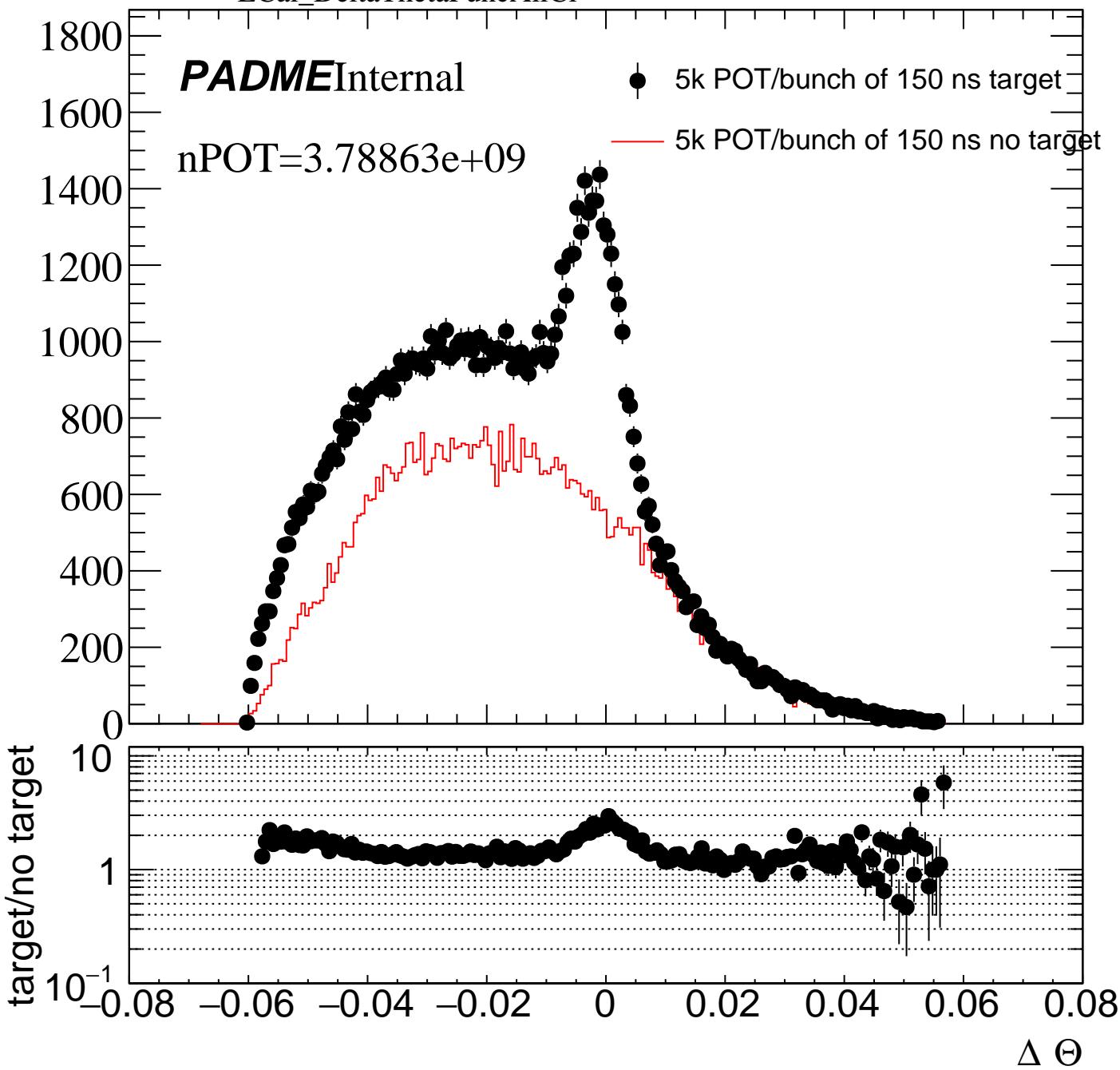




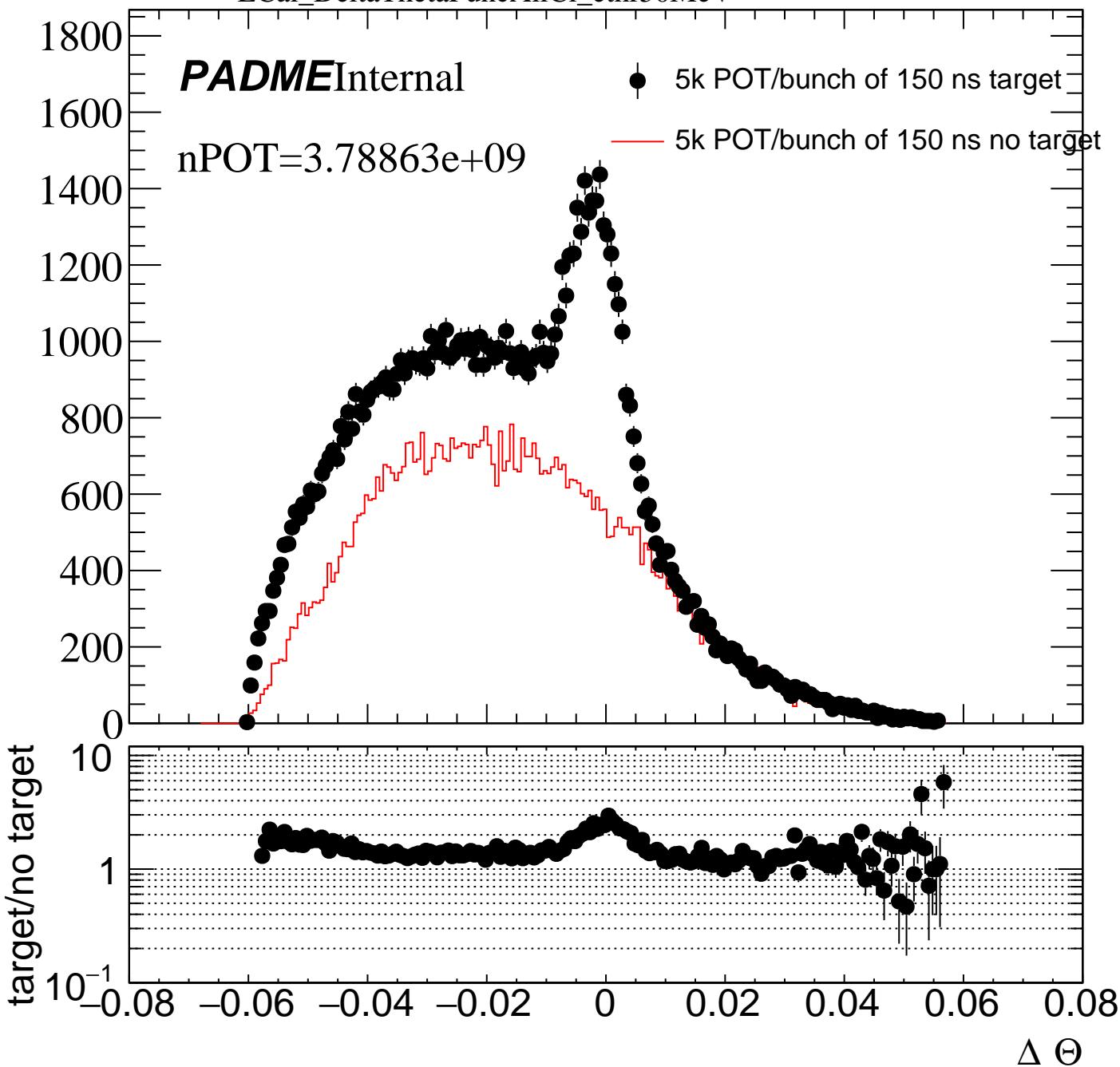
ECAL\_DeltaPhi\_10nsDeltaTheta



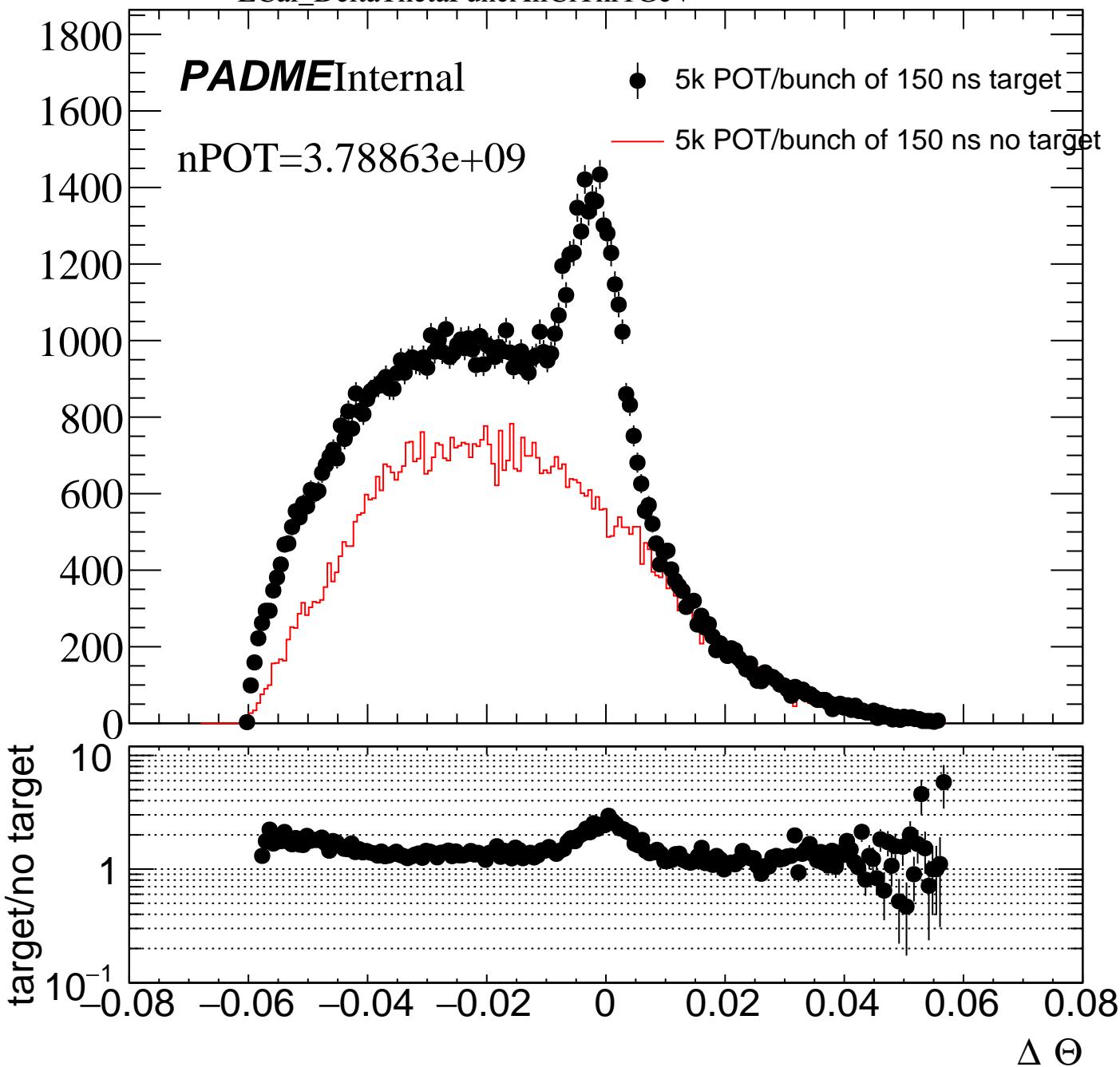
ECal\_DeltaThetaFuncAllCl



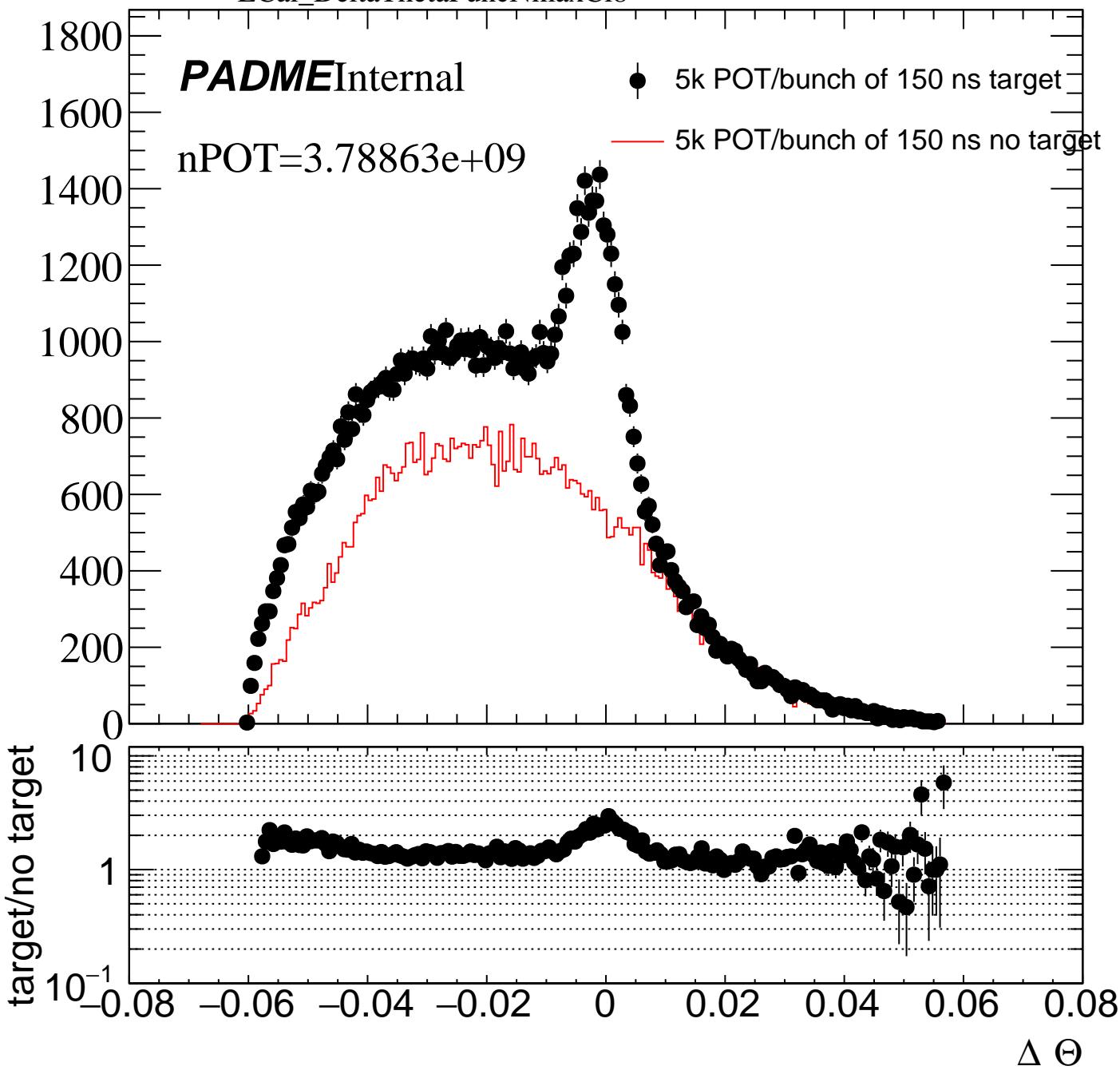
ECal\_DeltaThetaFuncAllCl\_ethyl50MeV



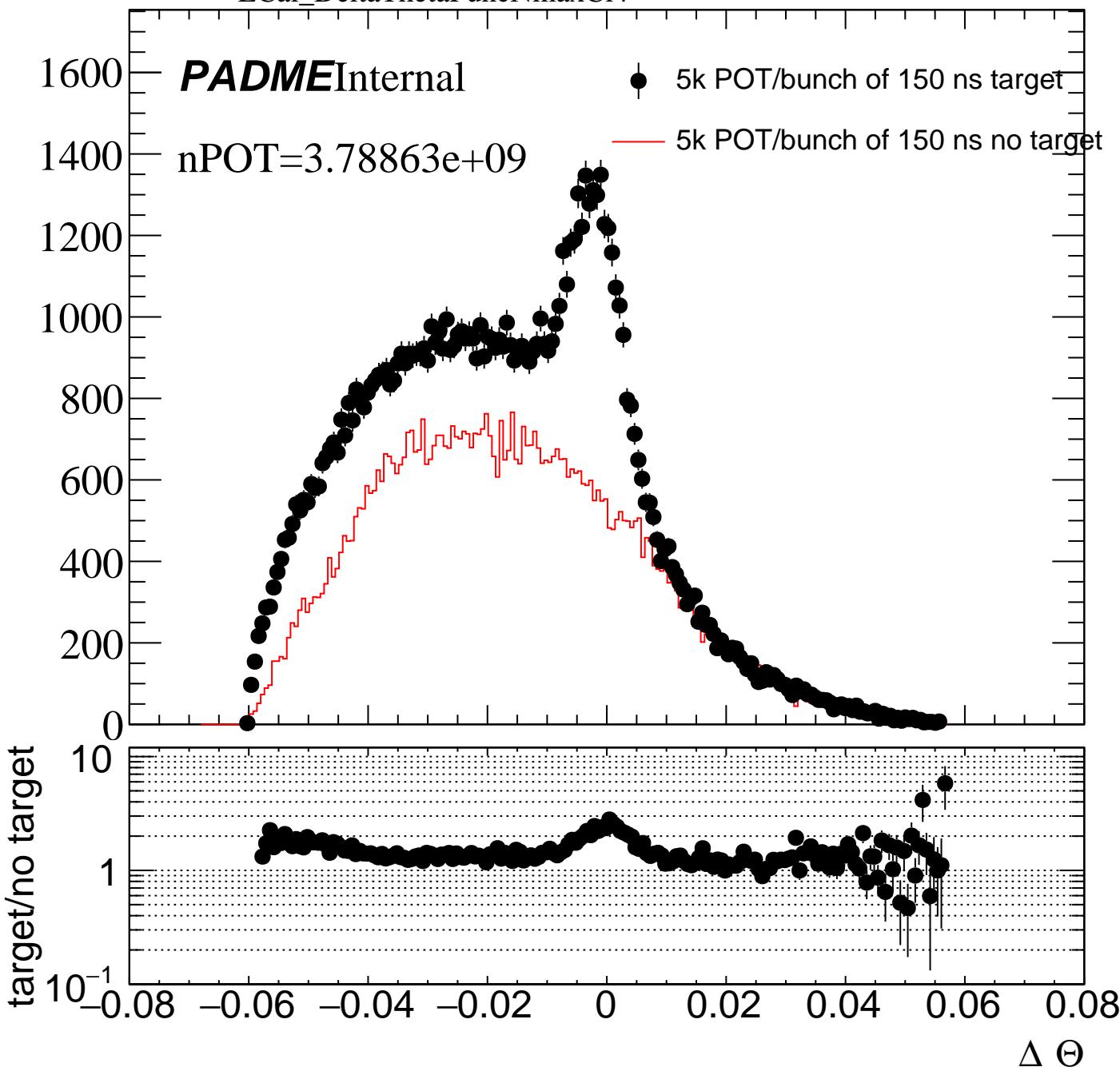
ECal\_DeltaThetaFuncAllClThr1GeV



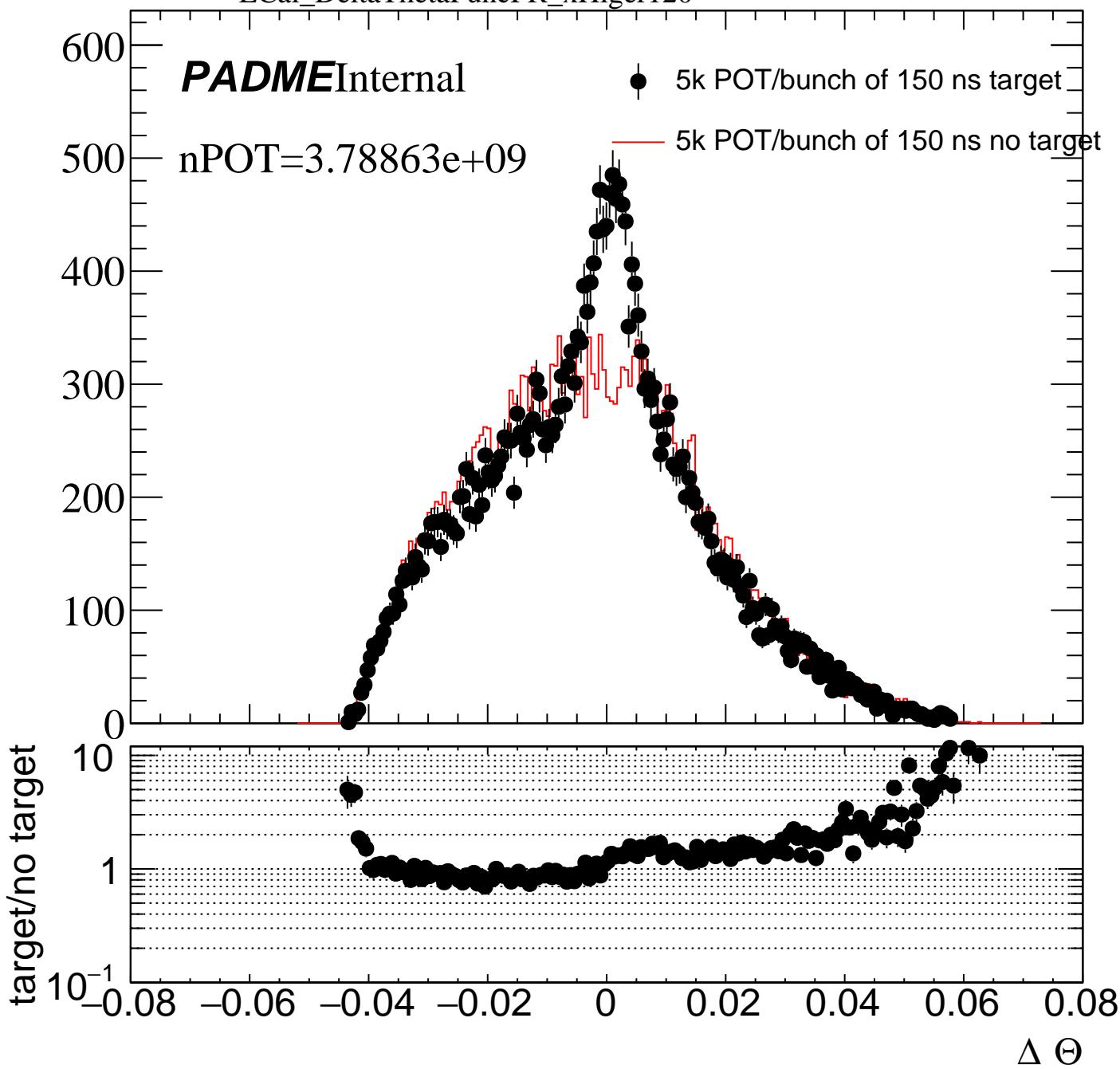
# ECal\_DeltaThetaFuncNmaxC18



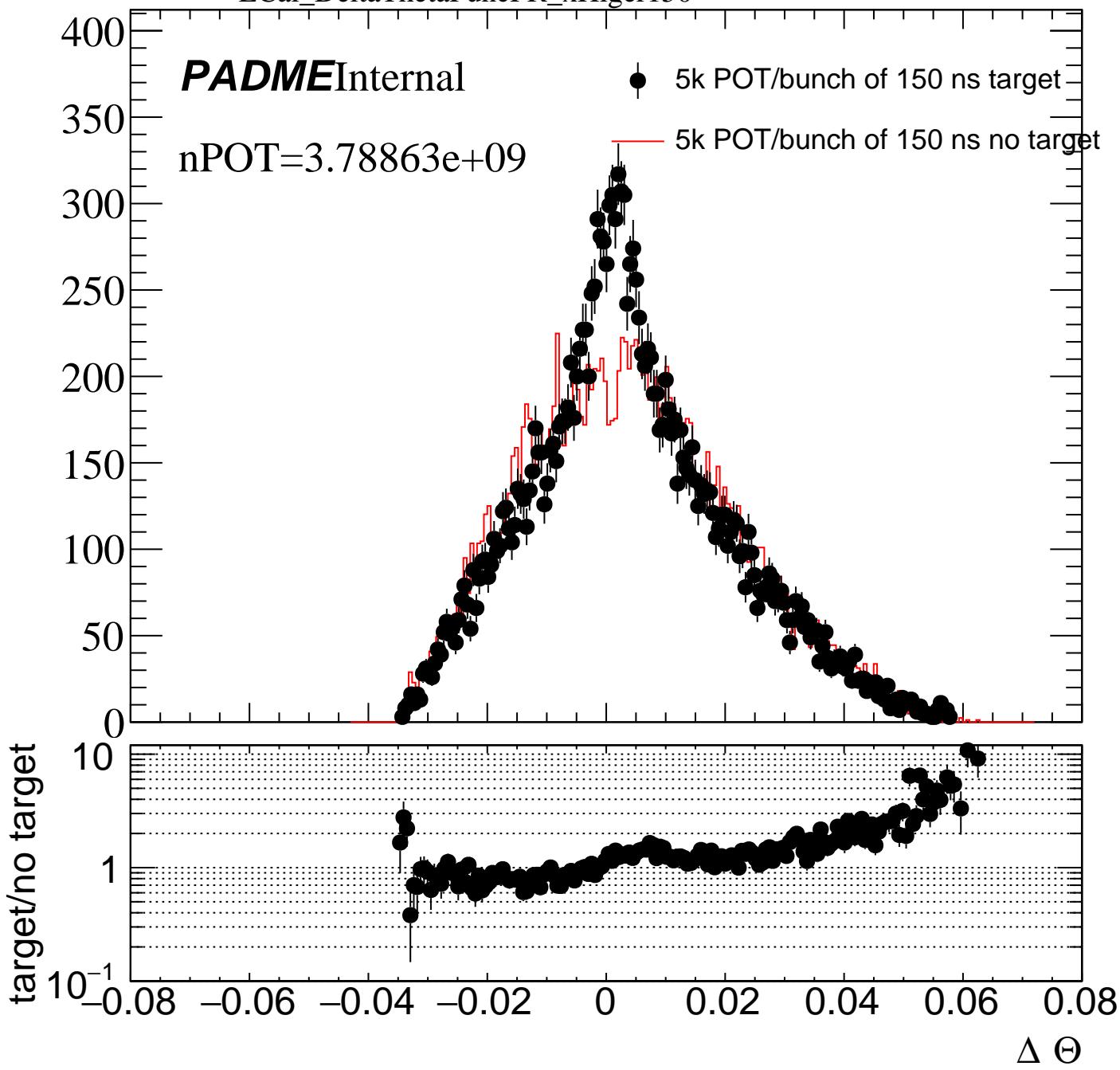
# ECal\_DeltaThetaFuncNmaxC14



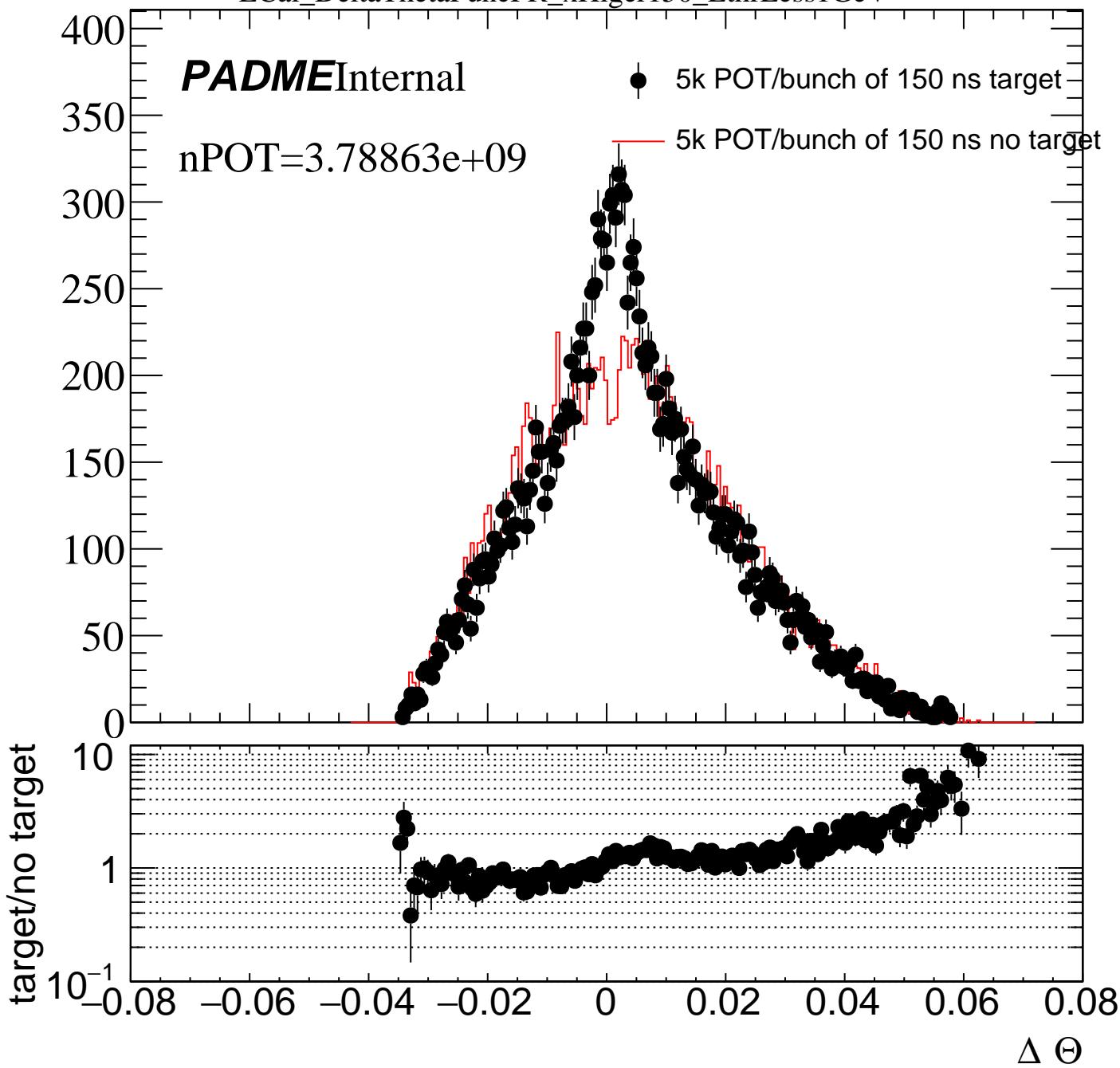
ECal\_DeltaThetaFuncFR\_xHiger120



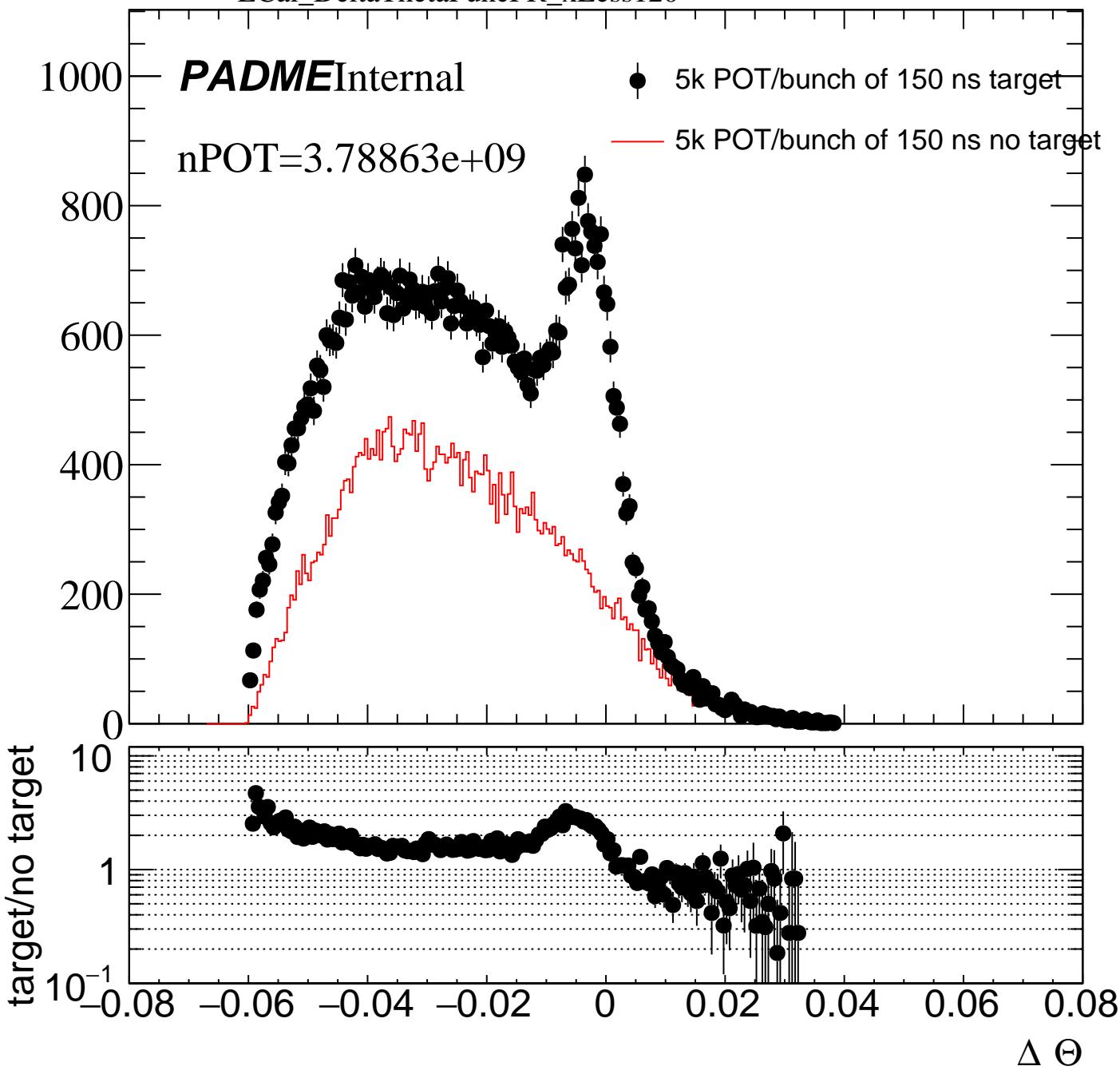
ECal\_DeltaThetaFuncFR\_xHiger150

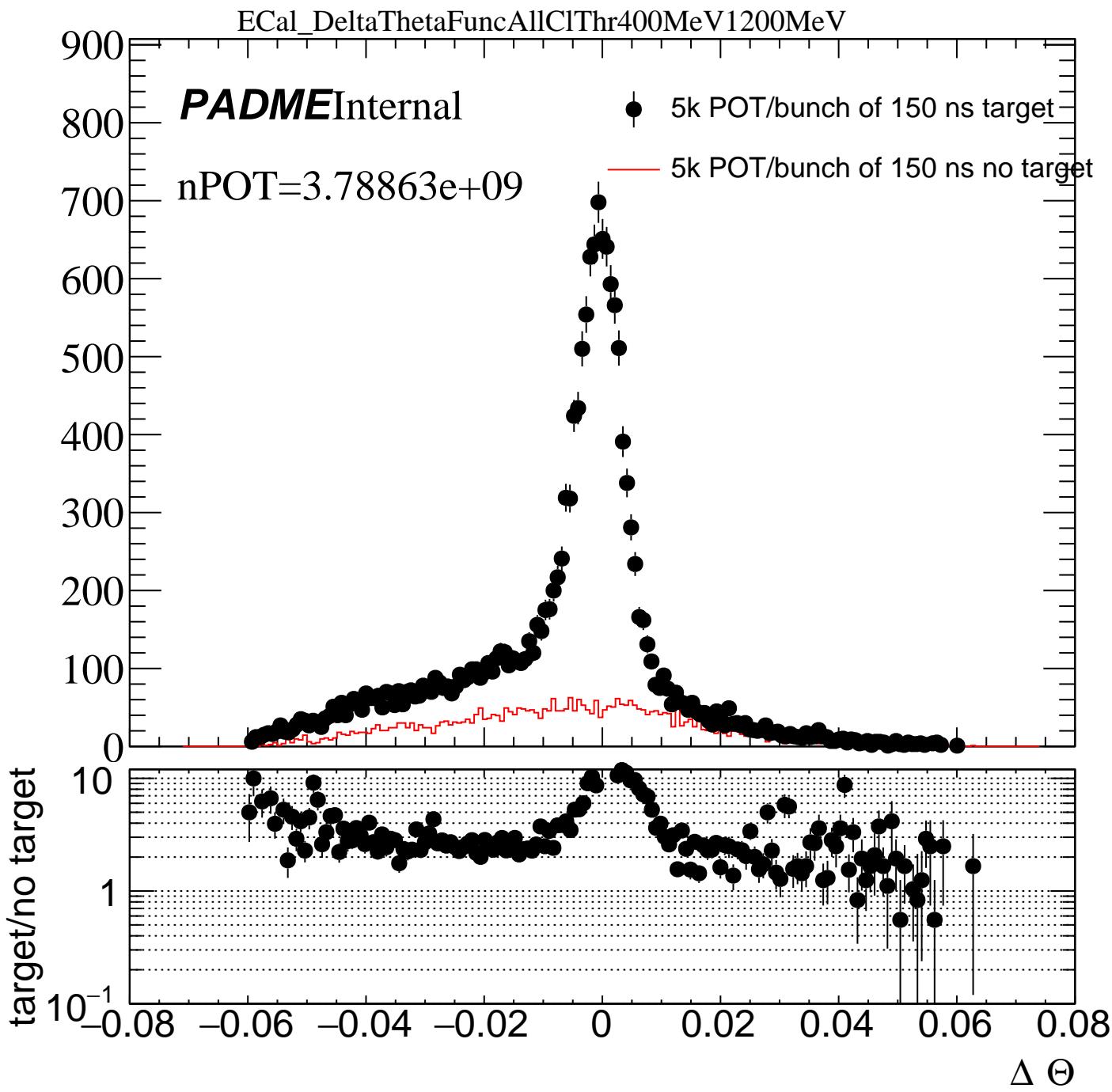


ECal\_DeltaThetaFuncFR\_xHiger150\_EthrLess1GeV

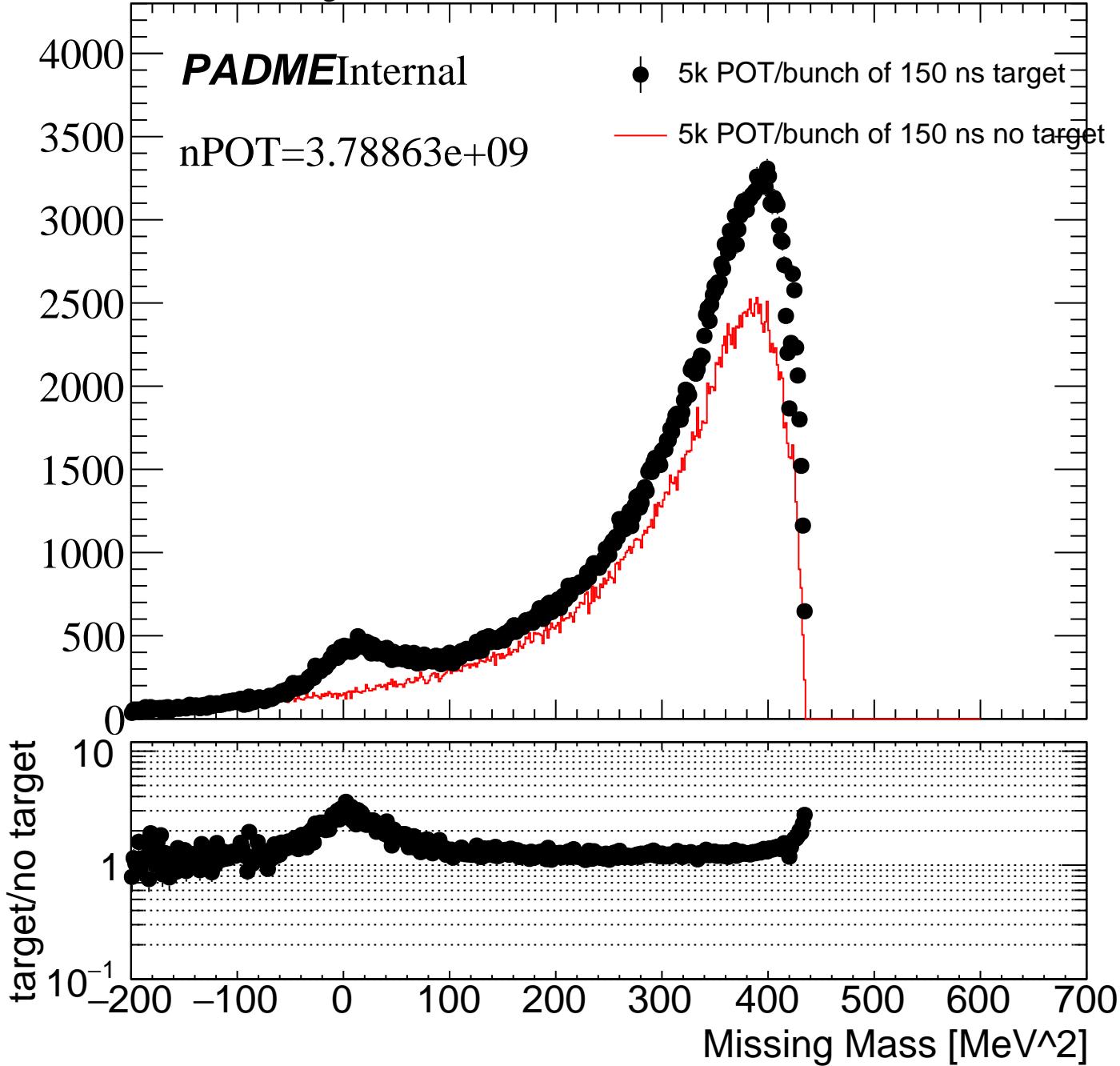


# ECal\_DeltaThetaFuncFR\_xLess120

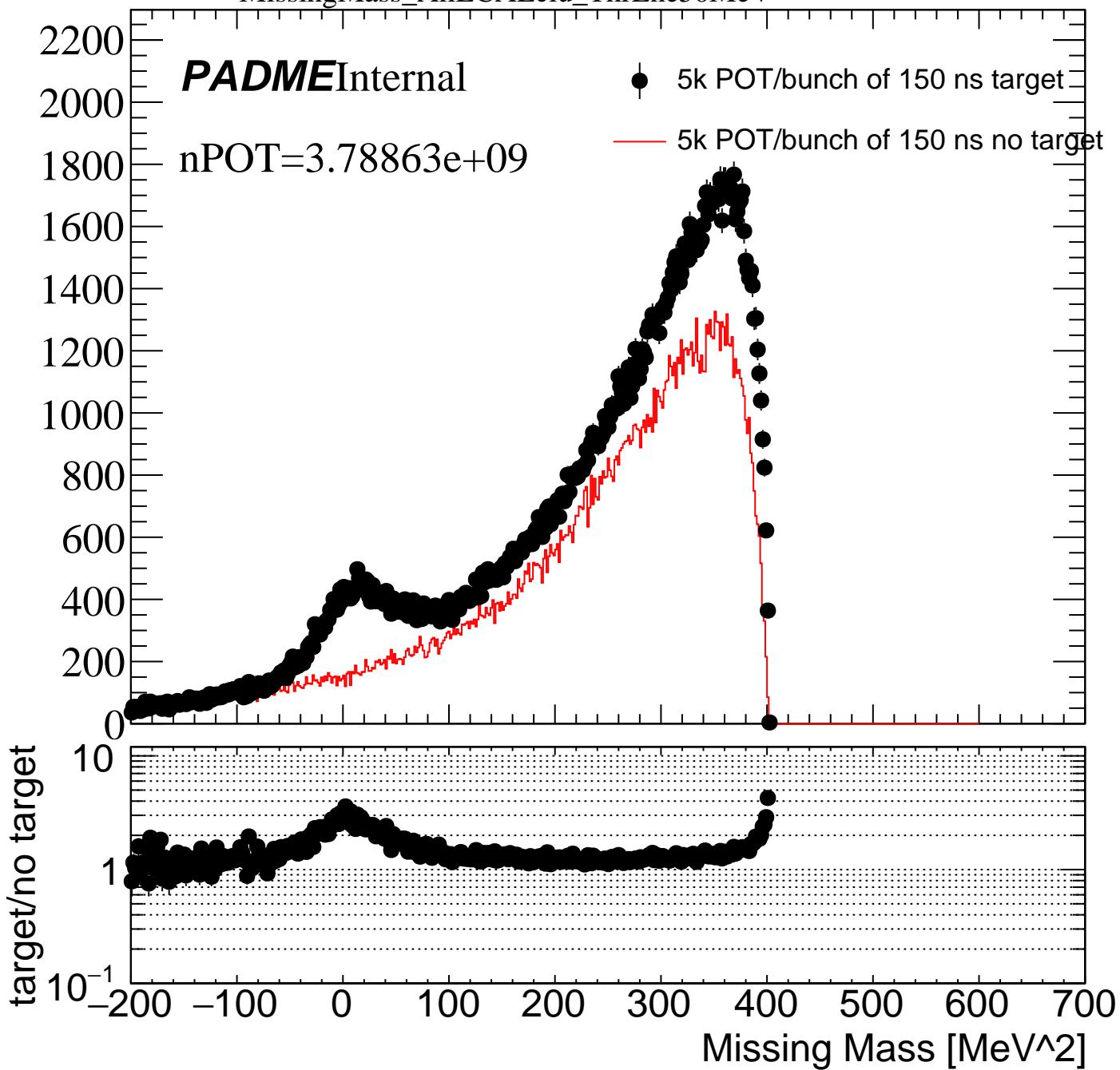




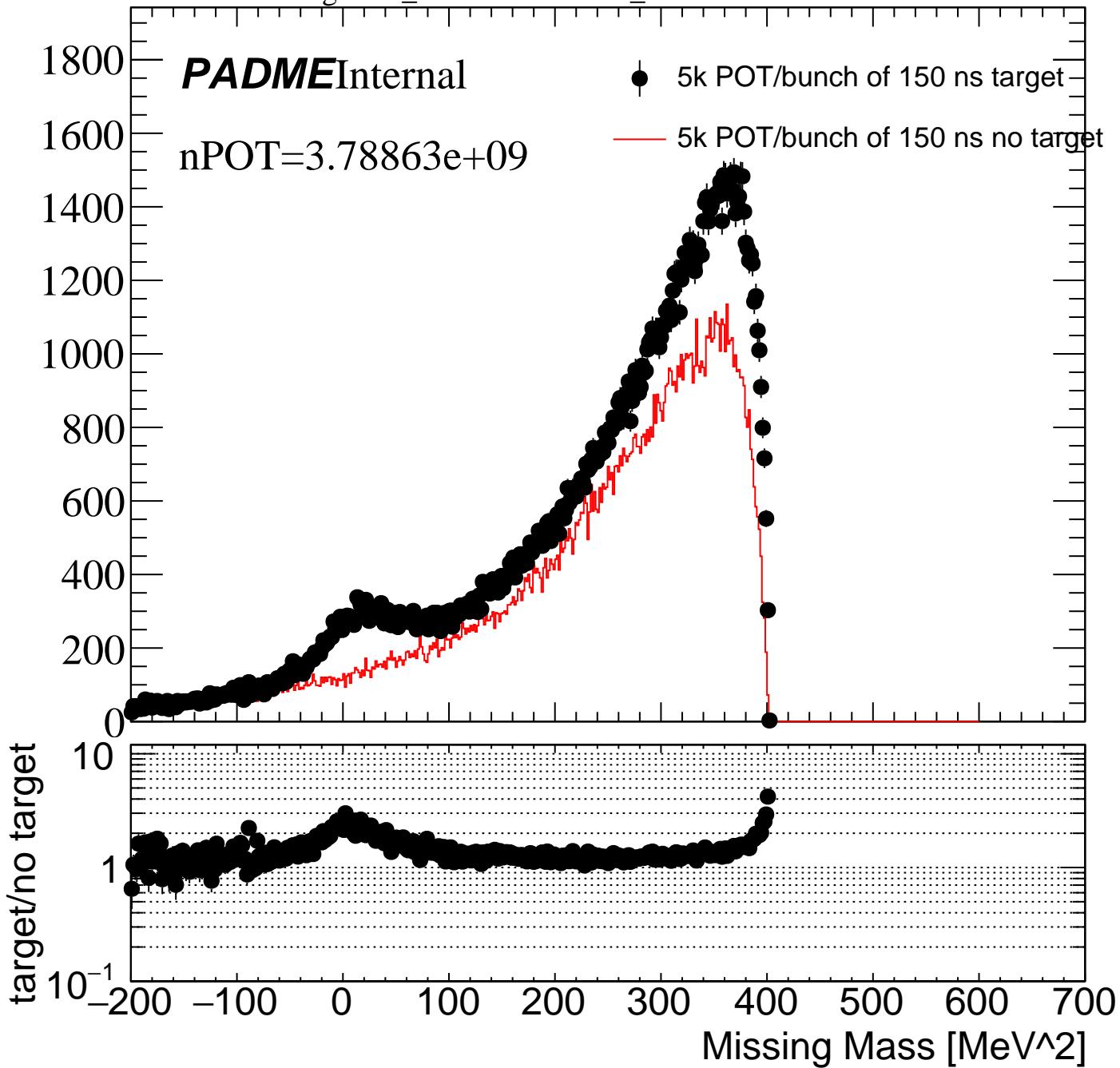
# MissingMass\_AllECALclu

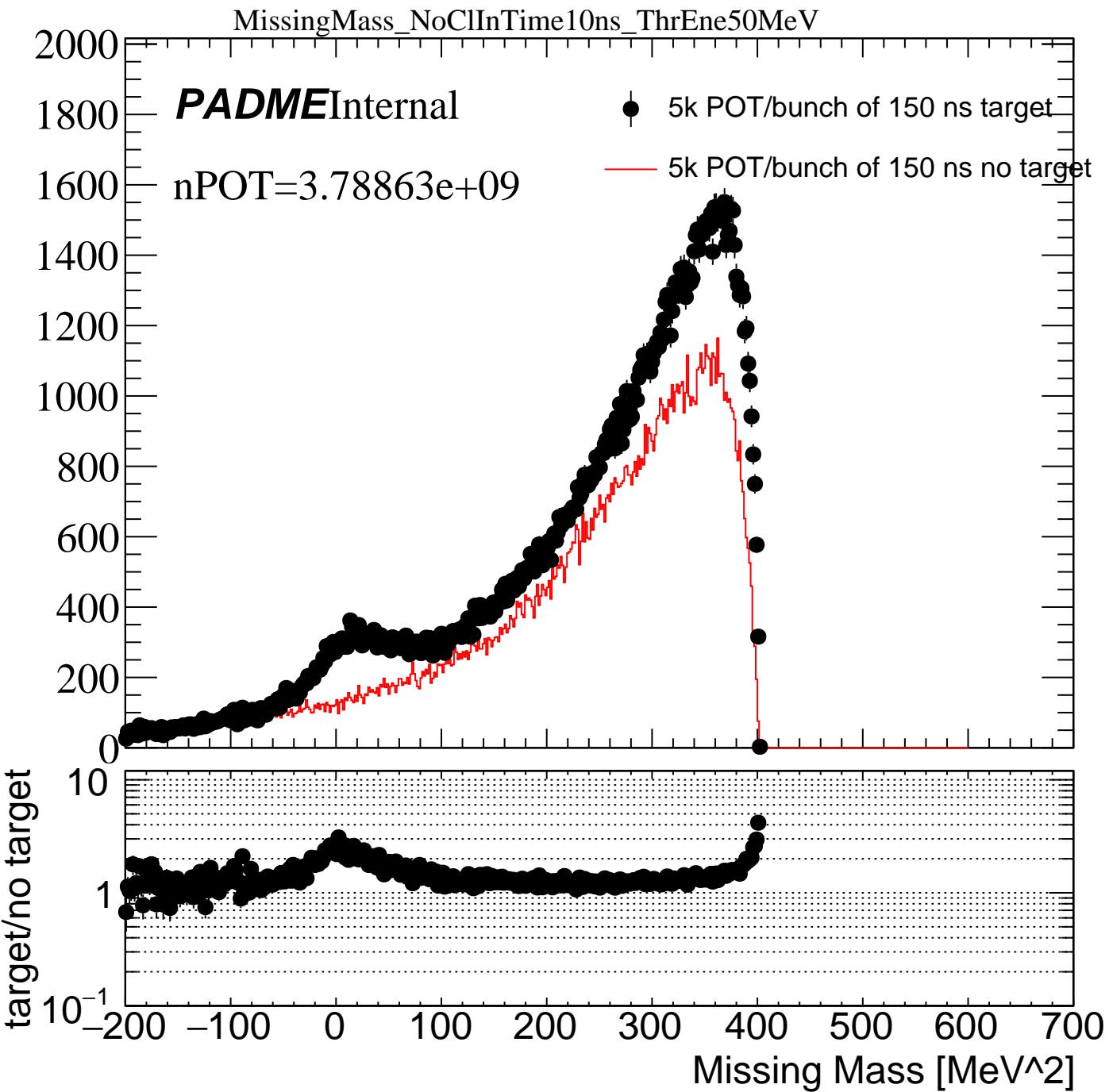


MissingMass\_AllECALclu\_ThrEne50MeV

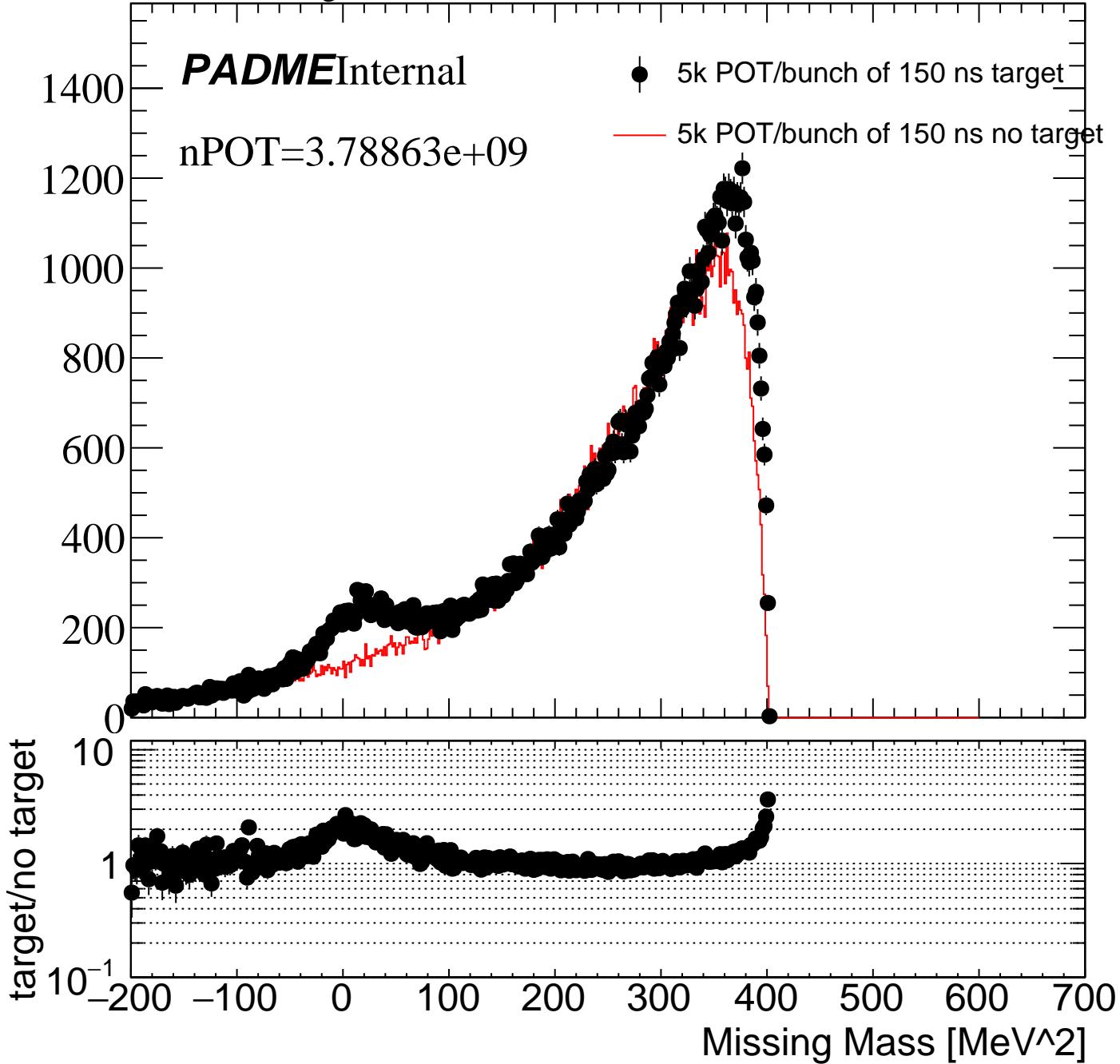


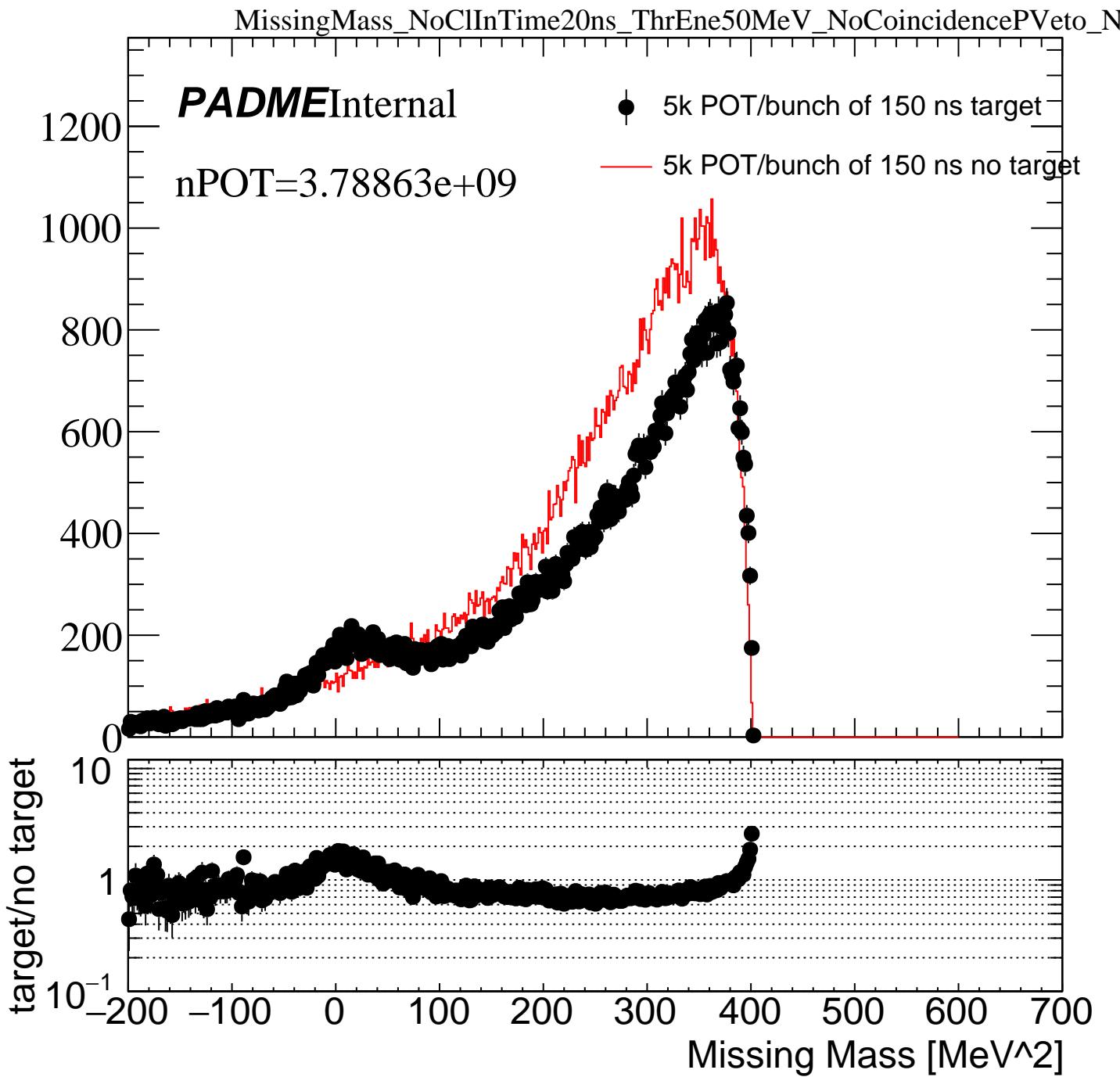
MissingMass\_NoClInTime20ns\_ThrEne50MeV



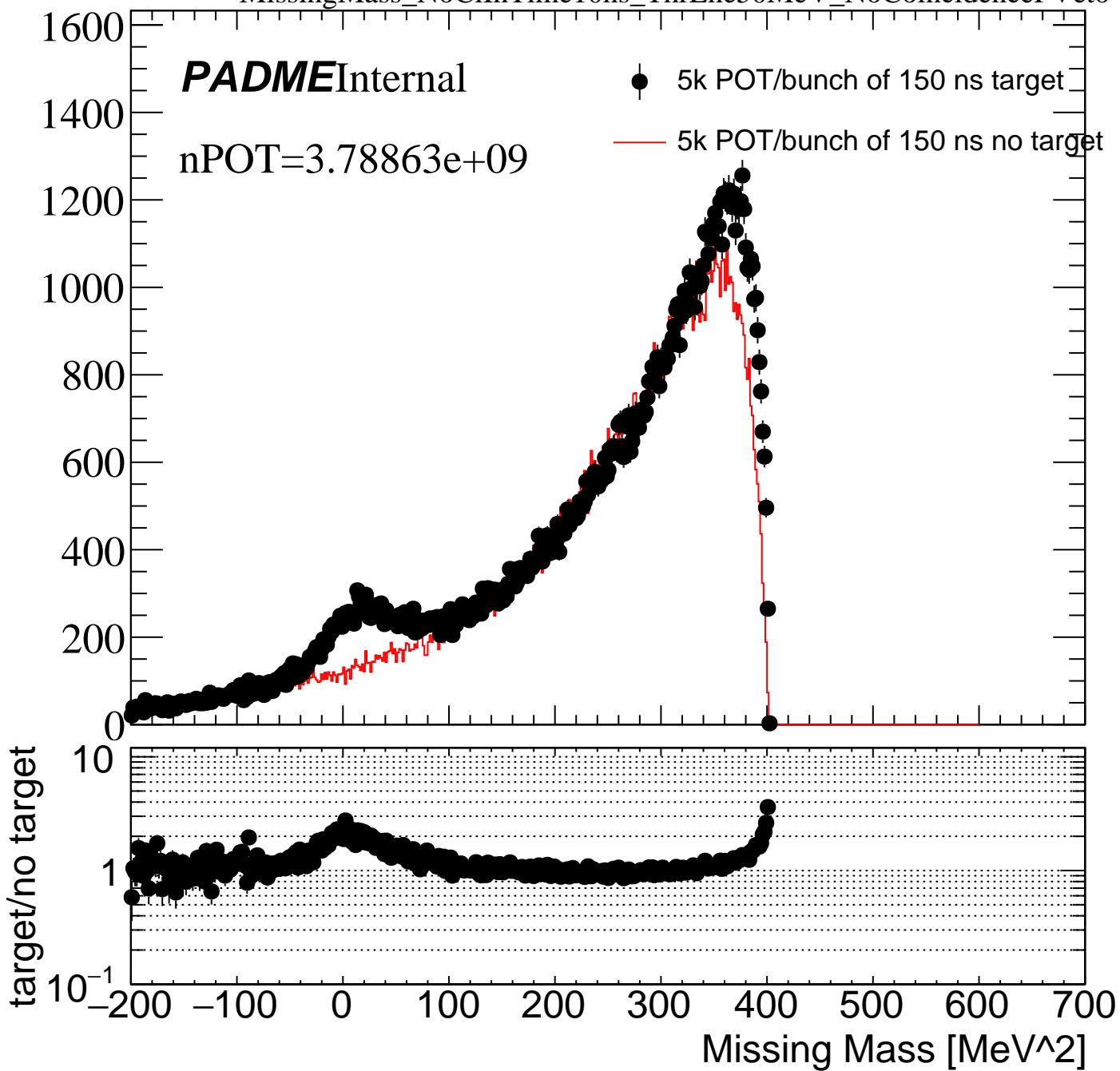


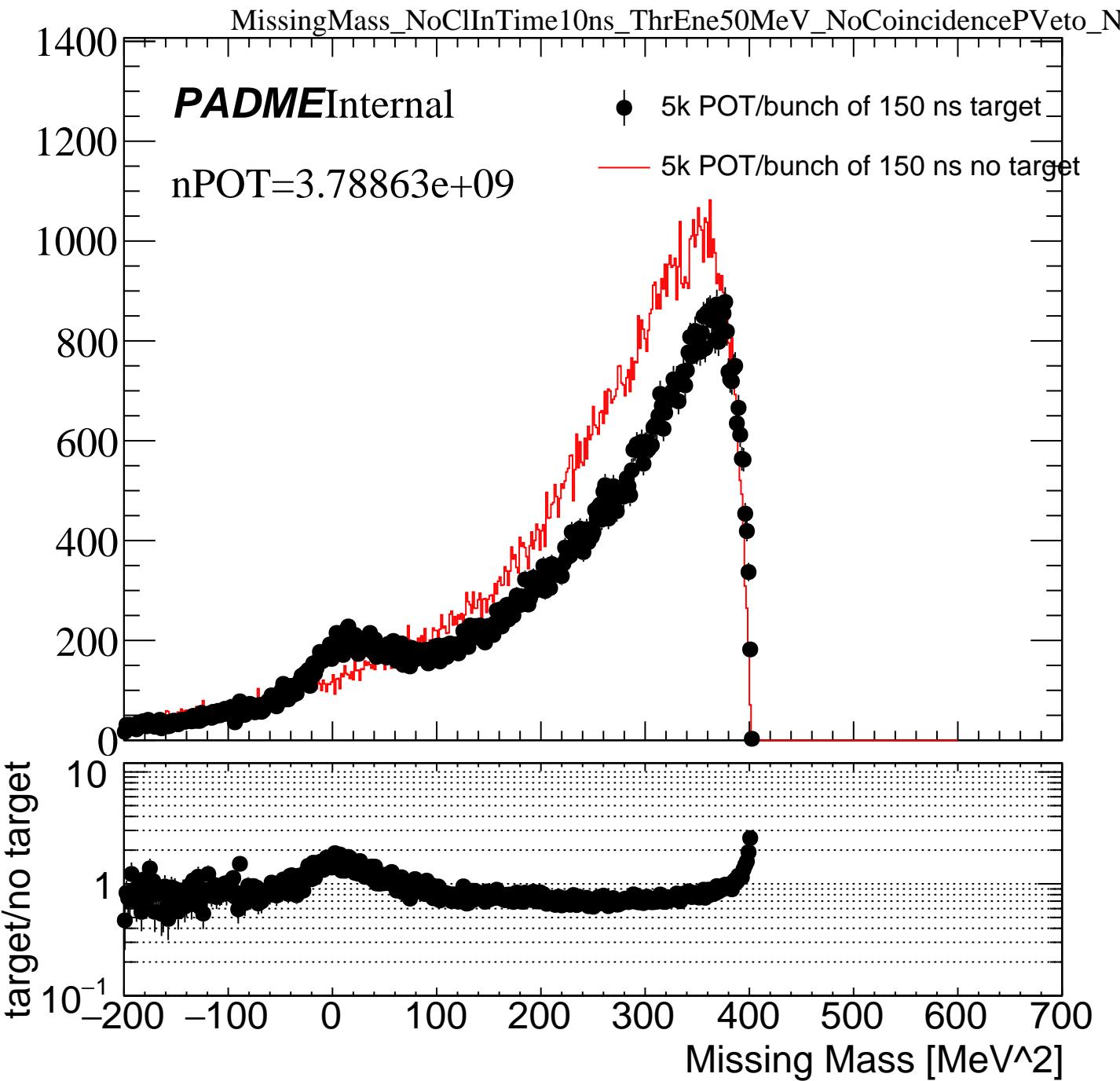
MissingMass\_NoClInTime20ns\_ThrEne50MeV\_NoCoincidencePVeto



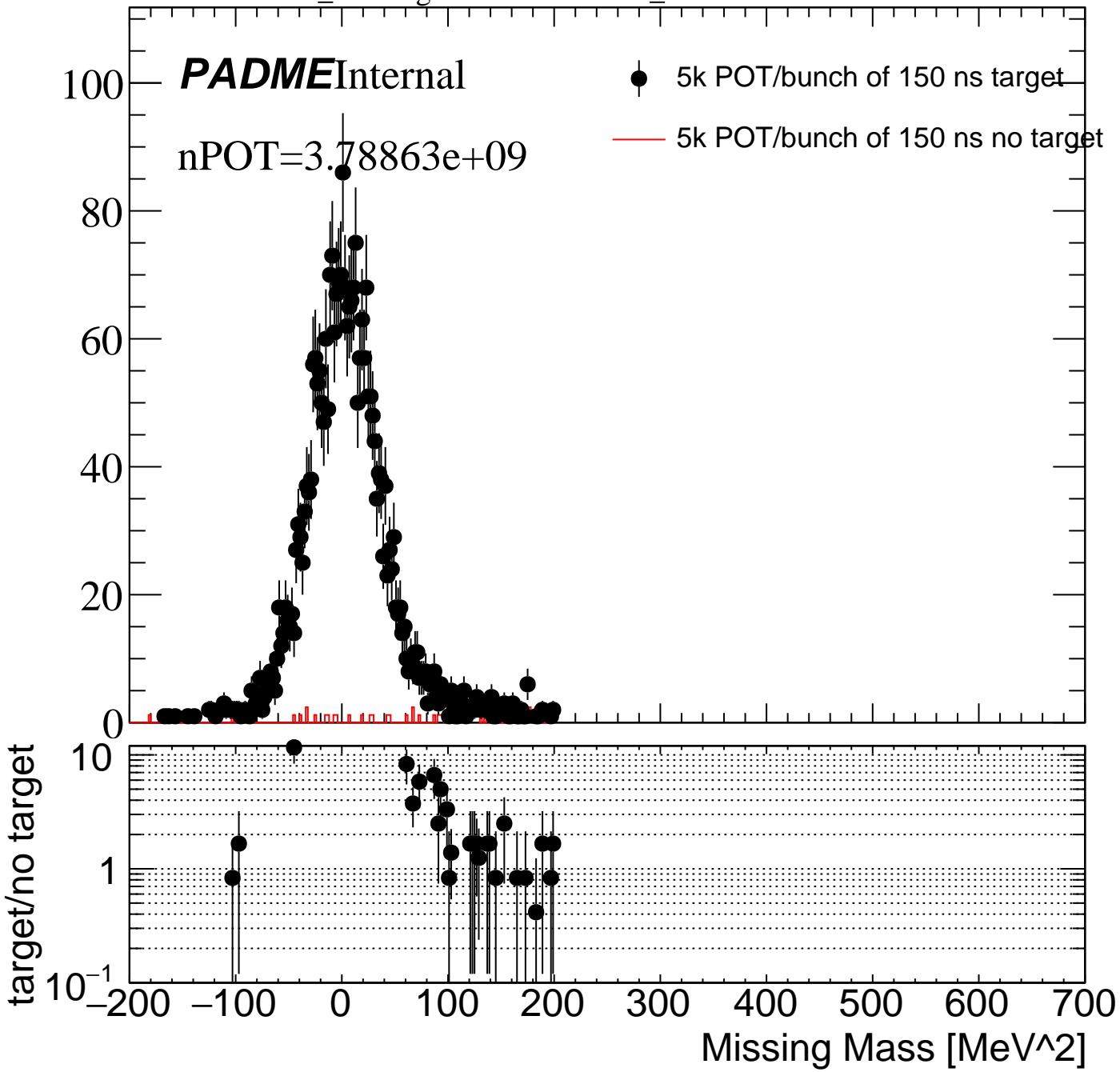


MissingMass\_NoClInTime10ns\_ThrEne50MeV\_NoCoincidencePVeto





ECAL\_MissingMassAnnihilation\_10ns5CoGUnderPeakEThr90



ECAL\_MissingMassAnnihilation\_10ns5CoGUnderPeakEThr90

