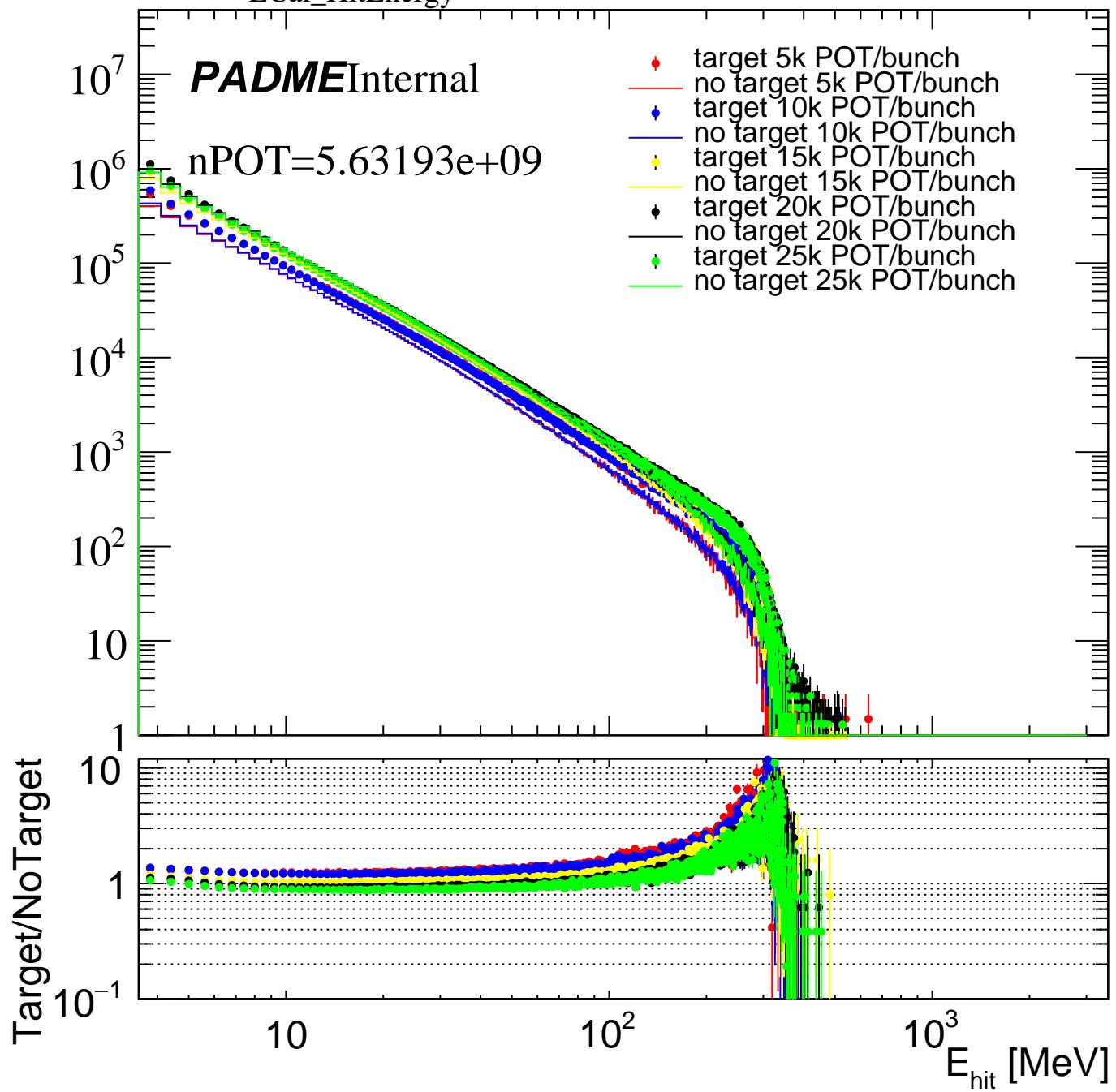
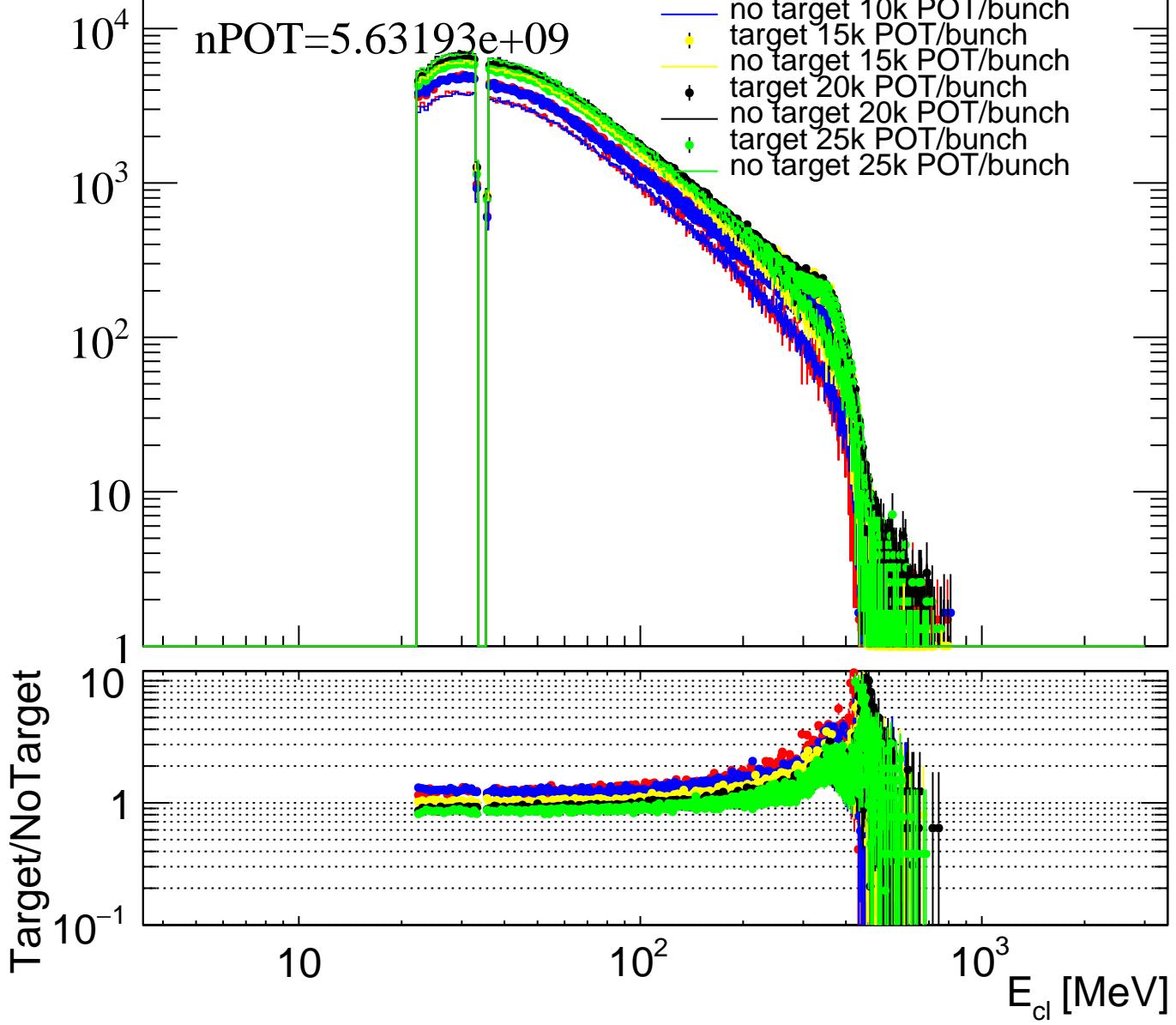


## ECal\_HitEnergy

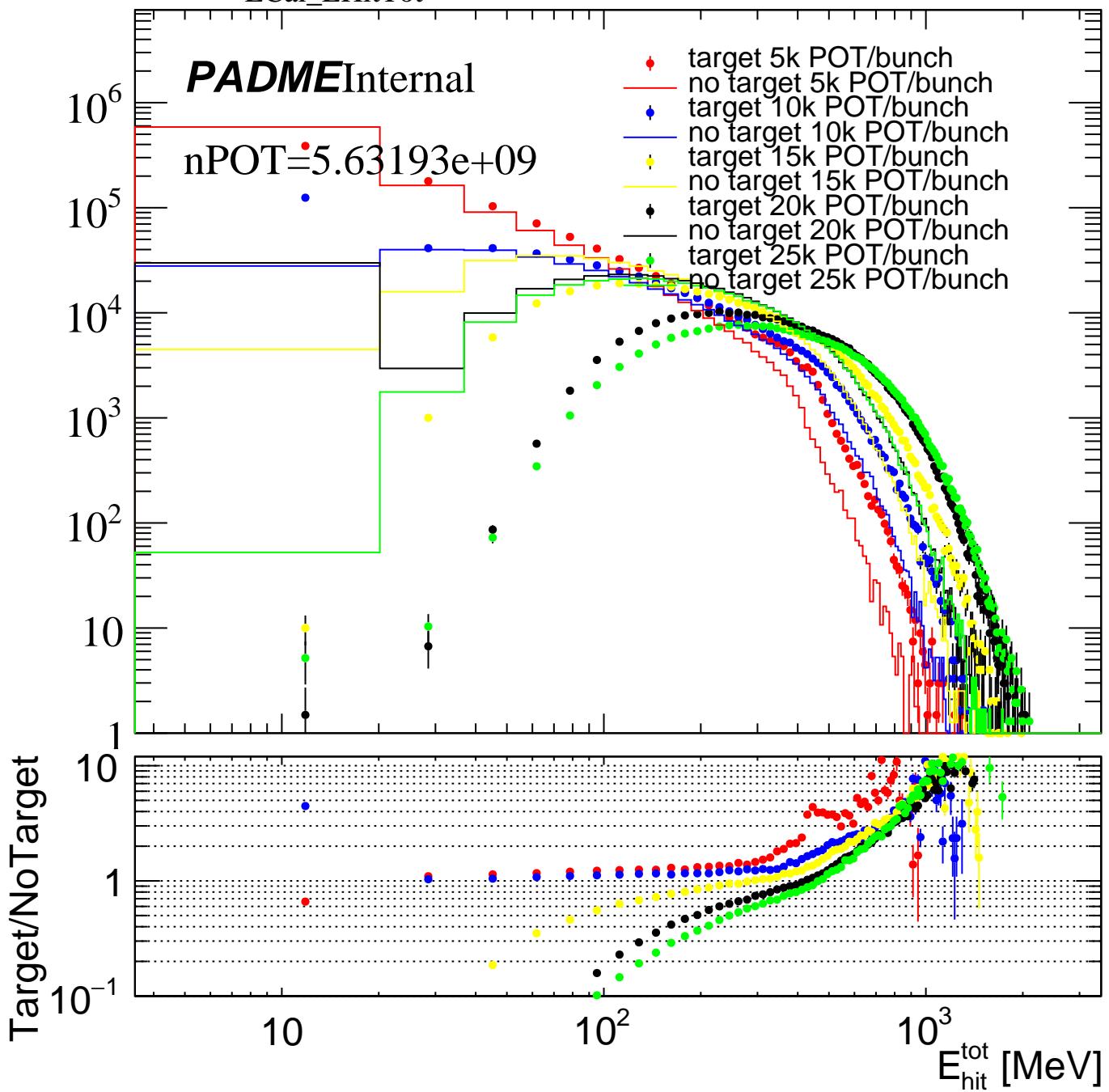


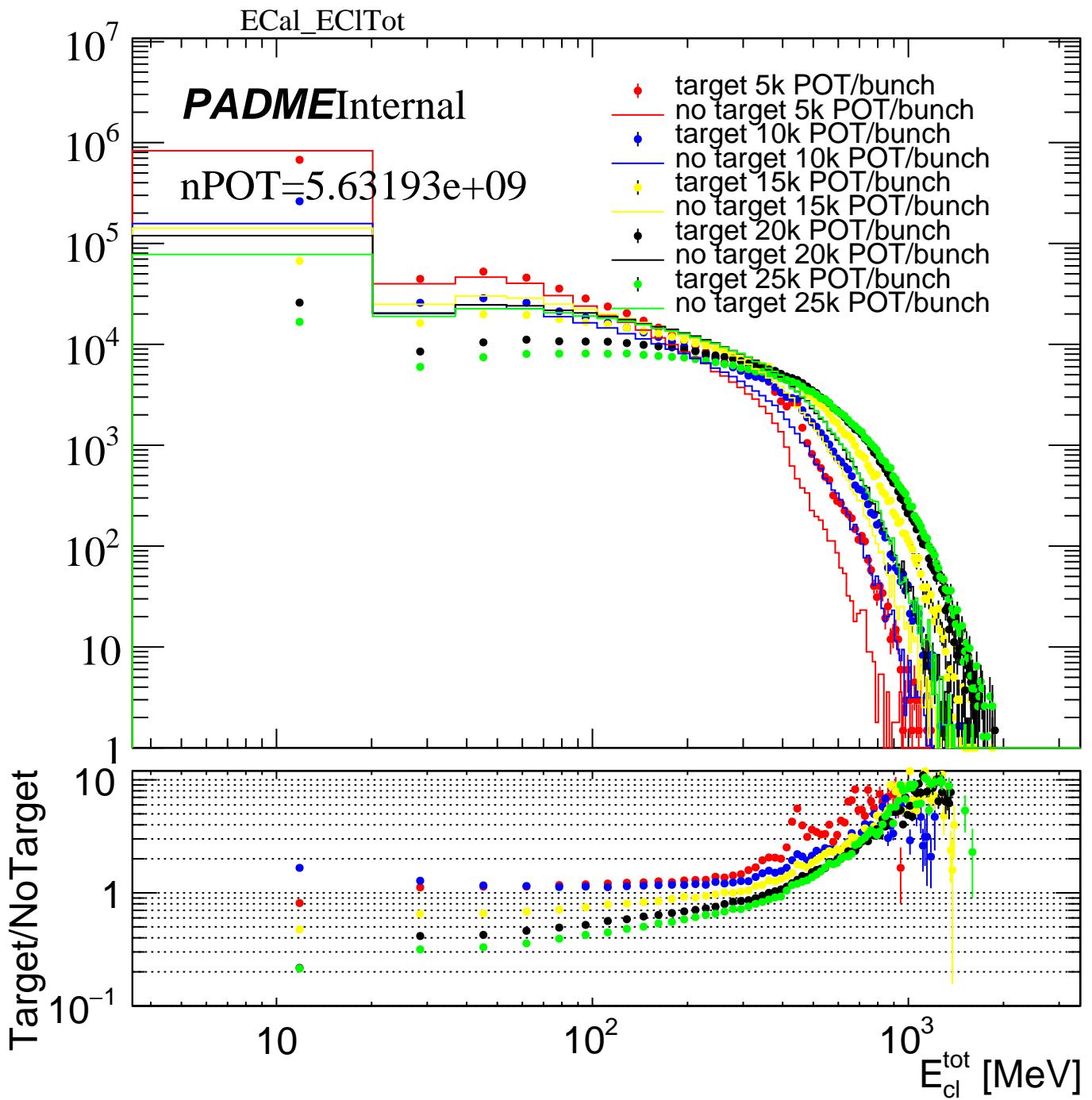
ECal\_ClusterEnergy

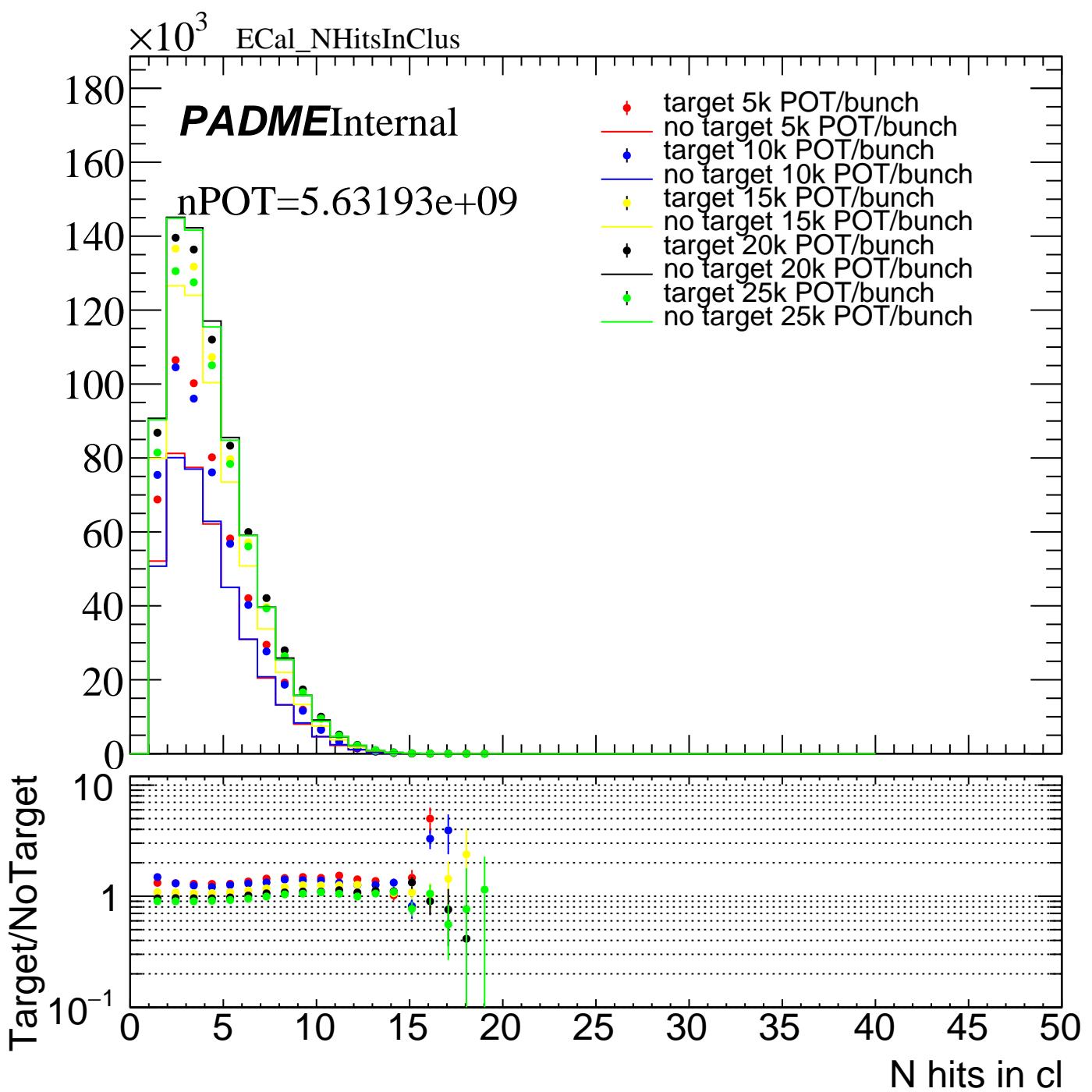
**PADME**Internal

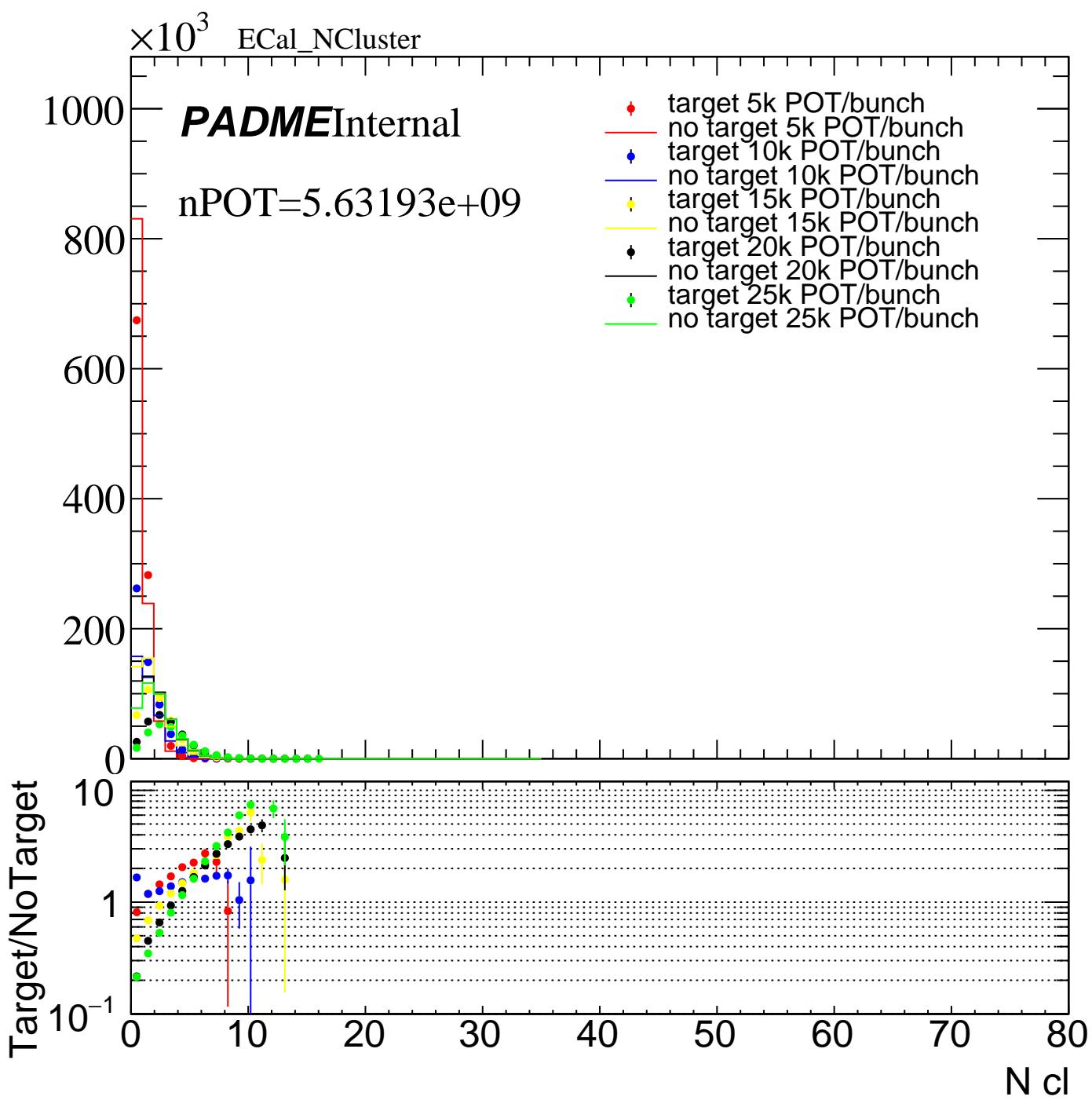


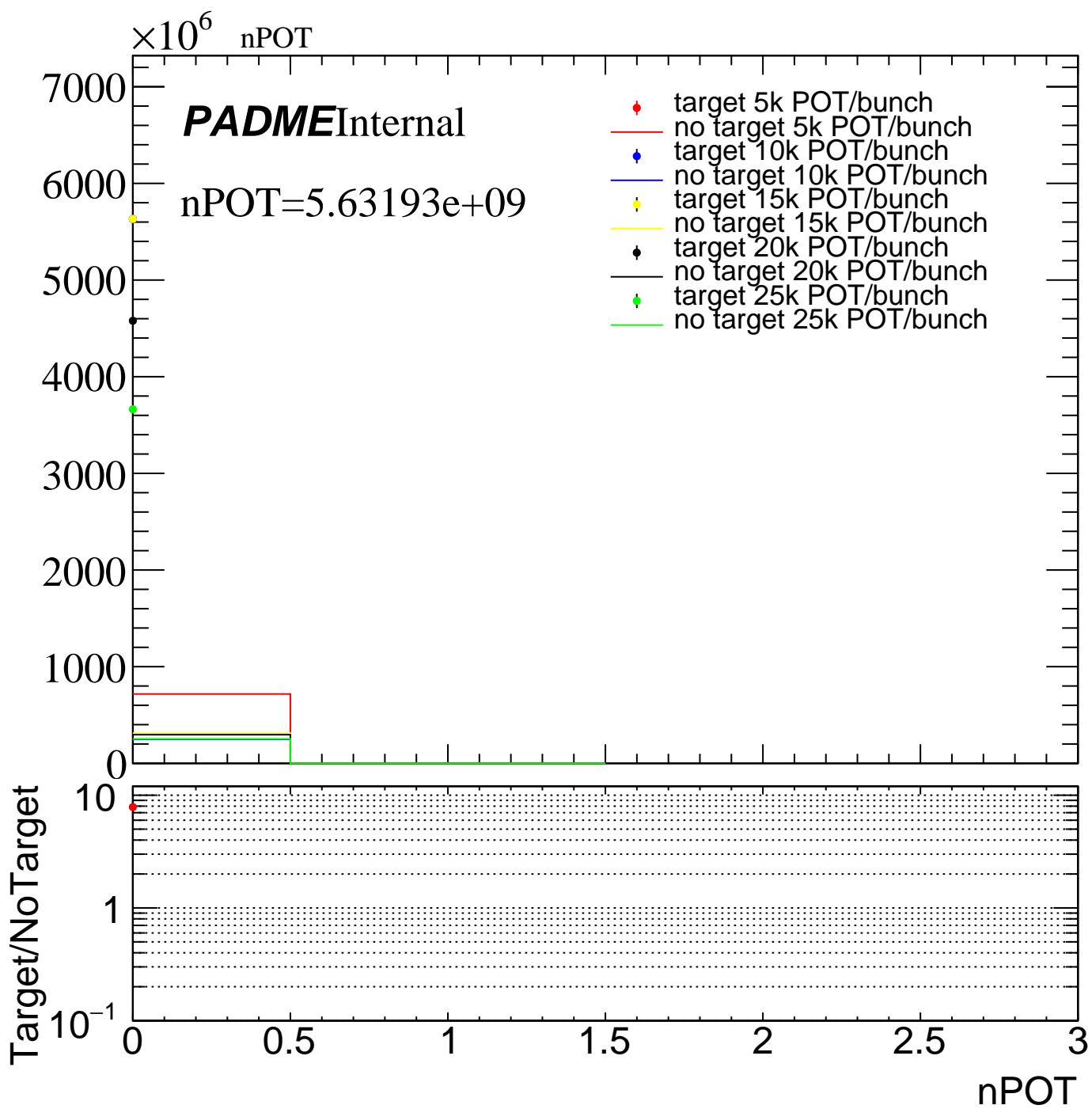
ECal\_EHitTot

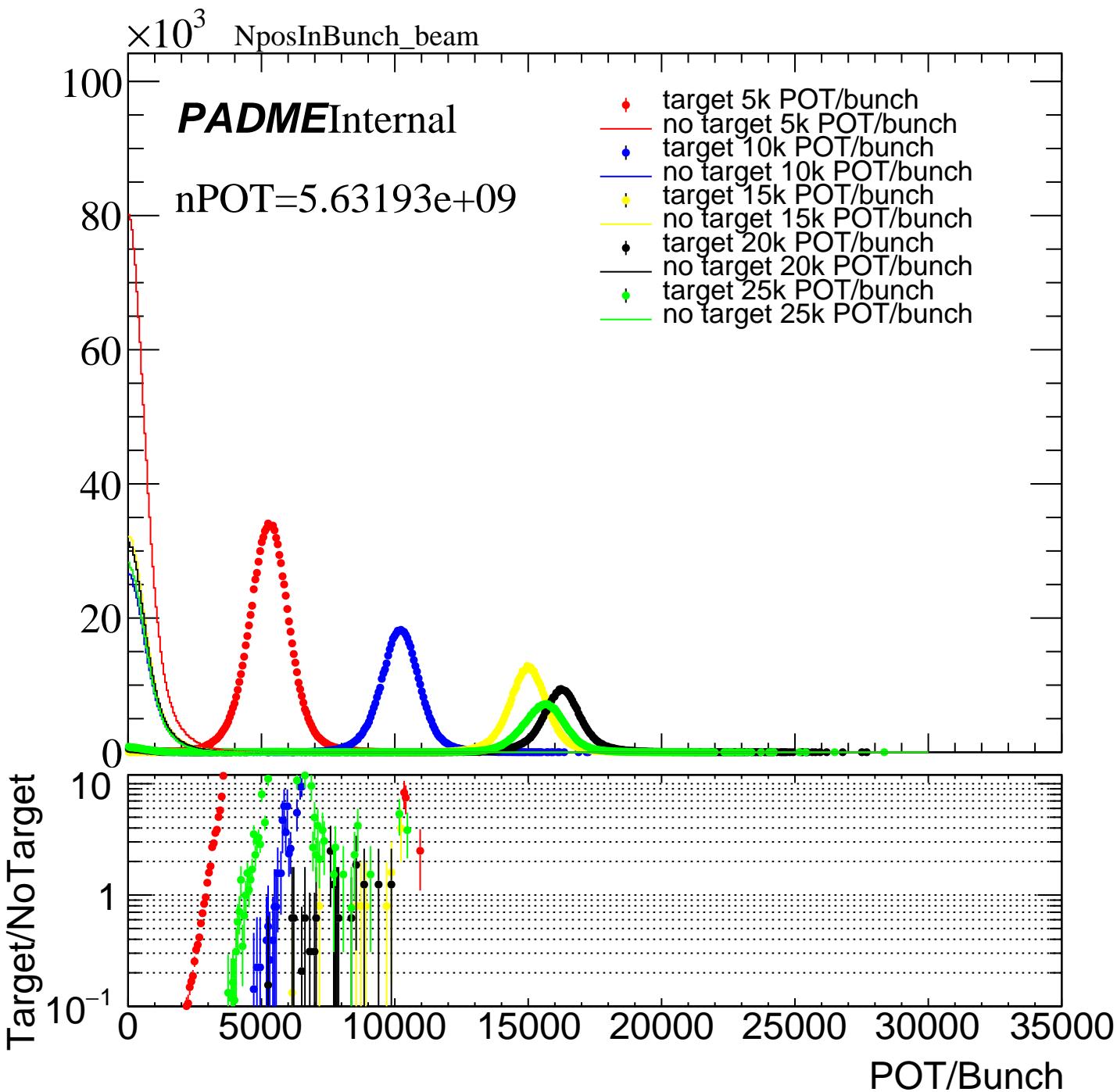




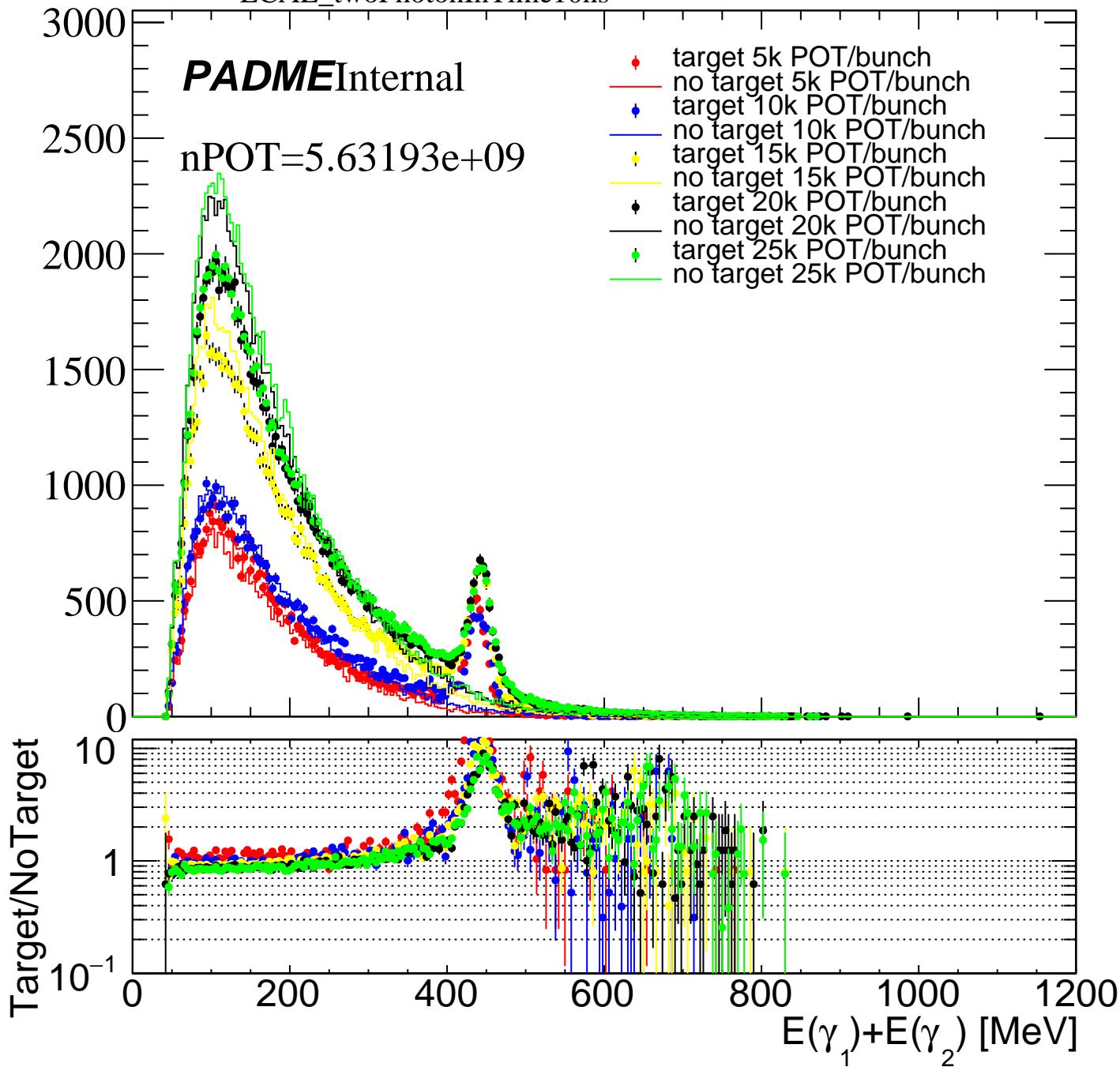




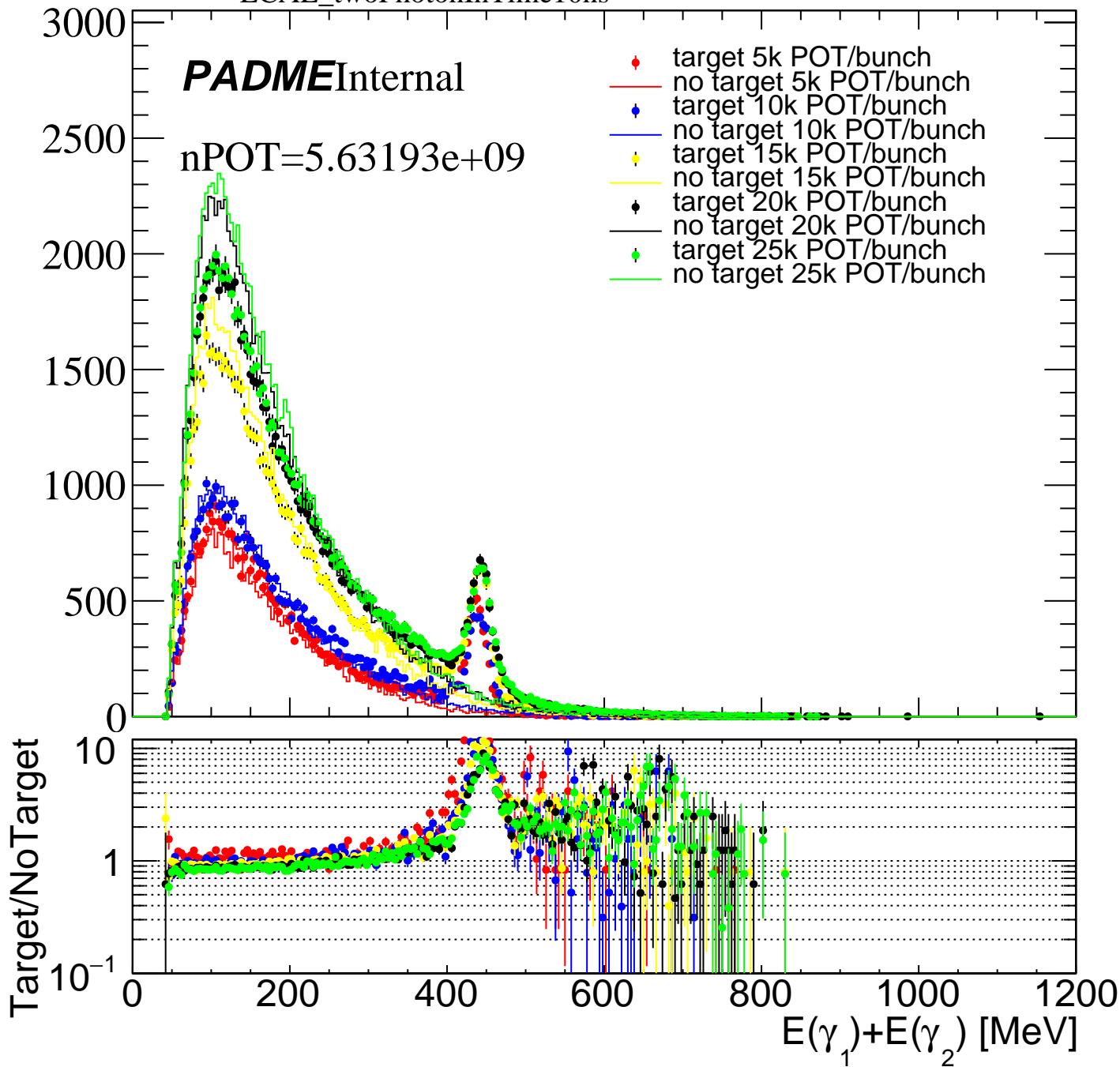




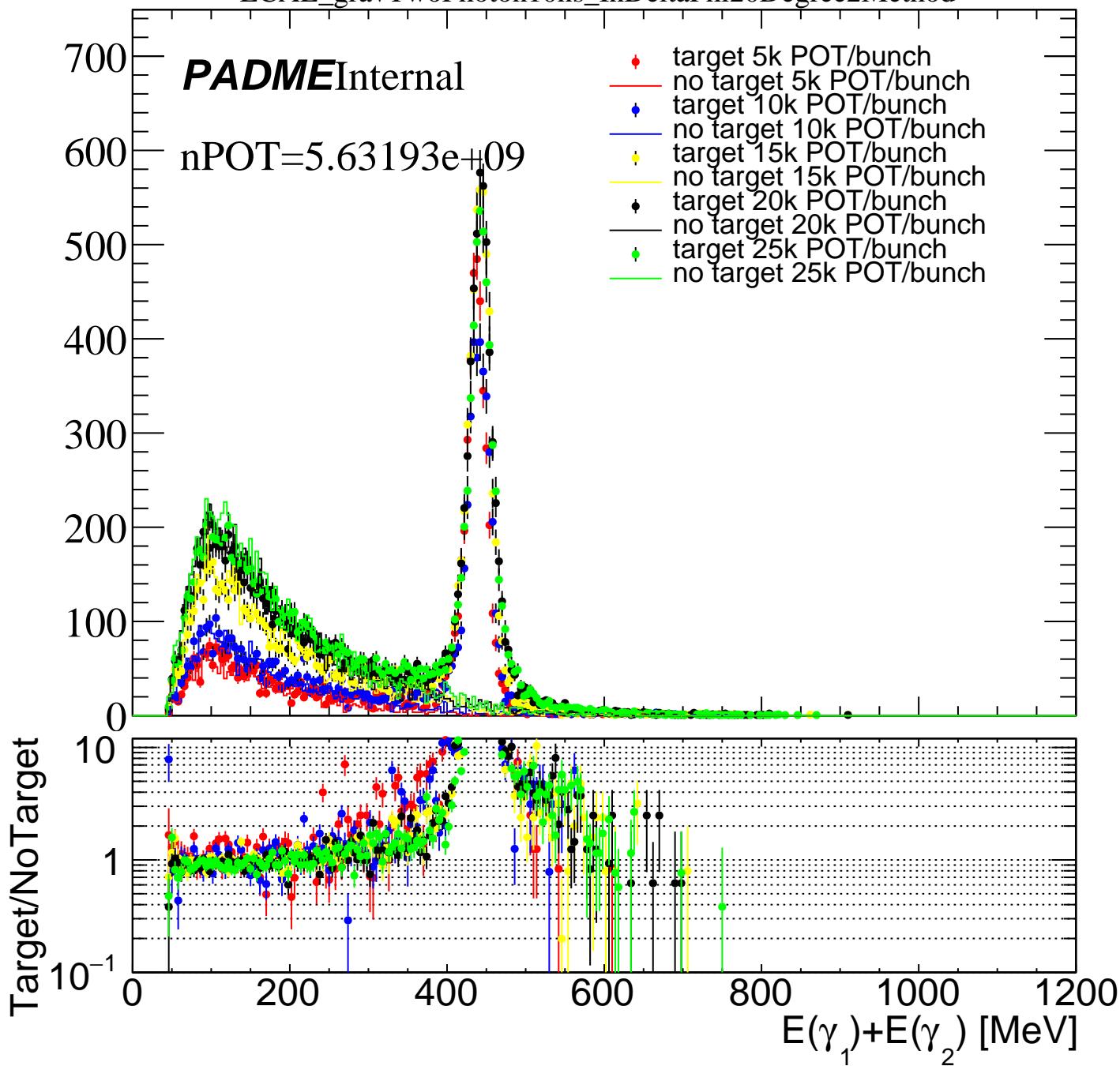
ECAL\_twoPhotonInTime10ns



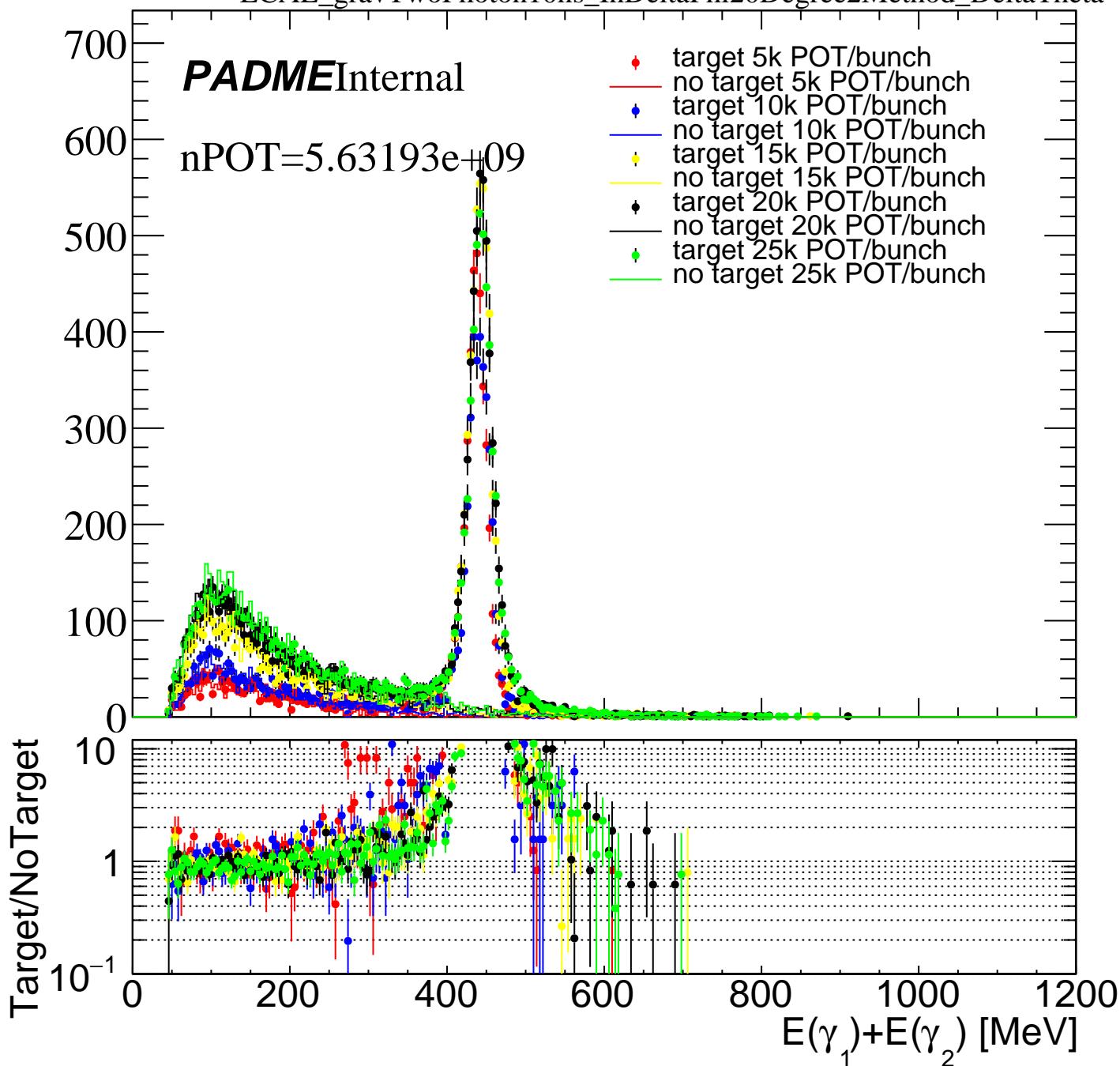
ECAL\_twoPhotonInTime10ns



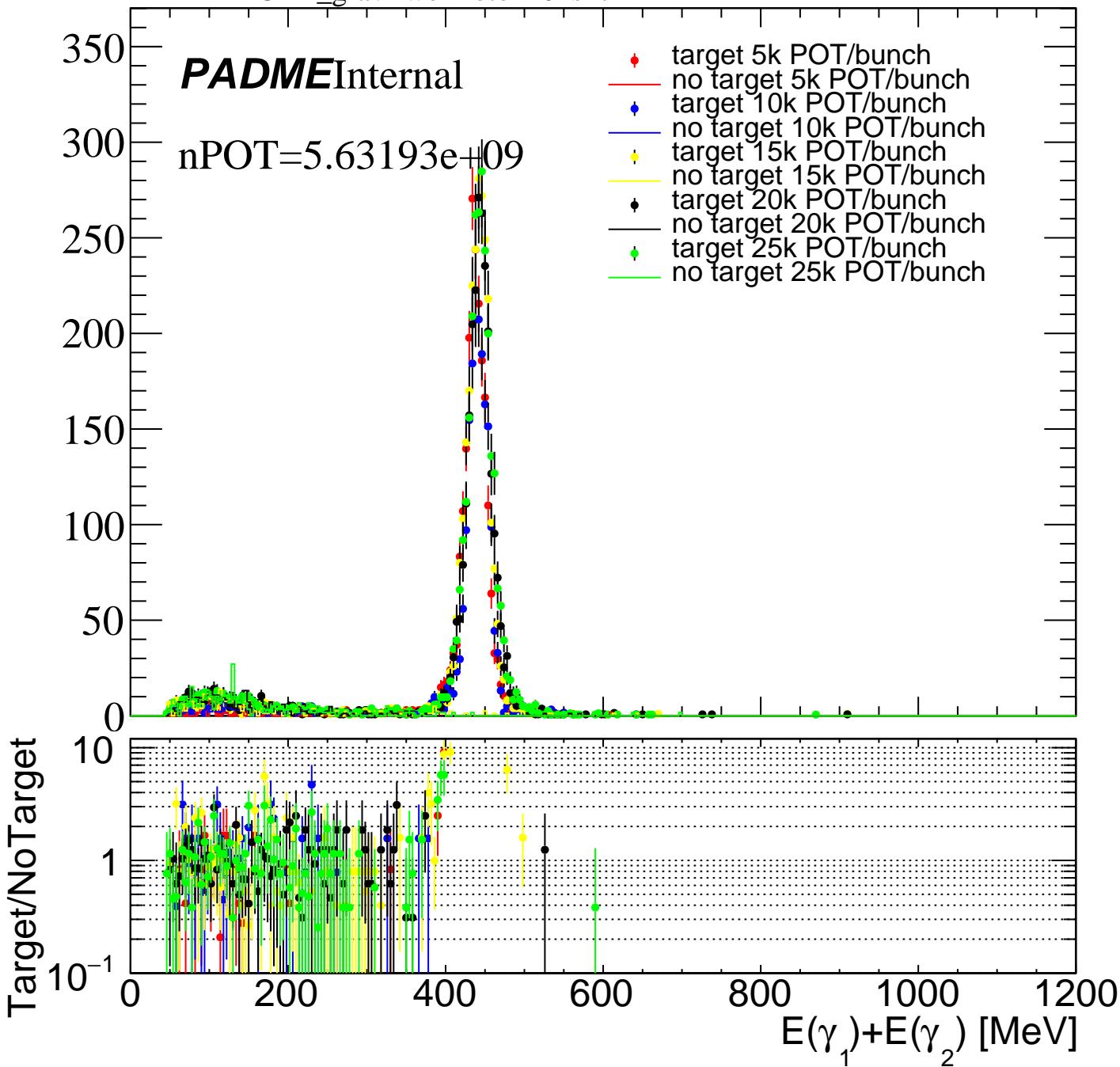
ECAL\_gravTwoPhoton10ns\_InDeltaPhi20Degree2Method



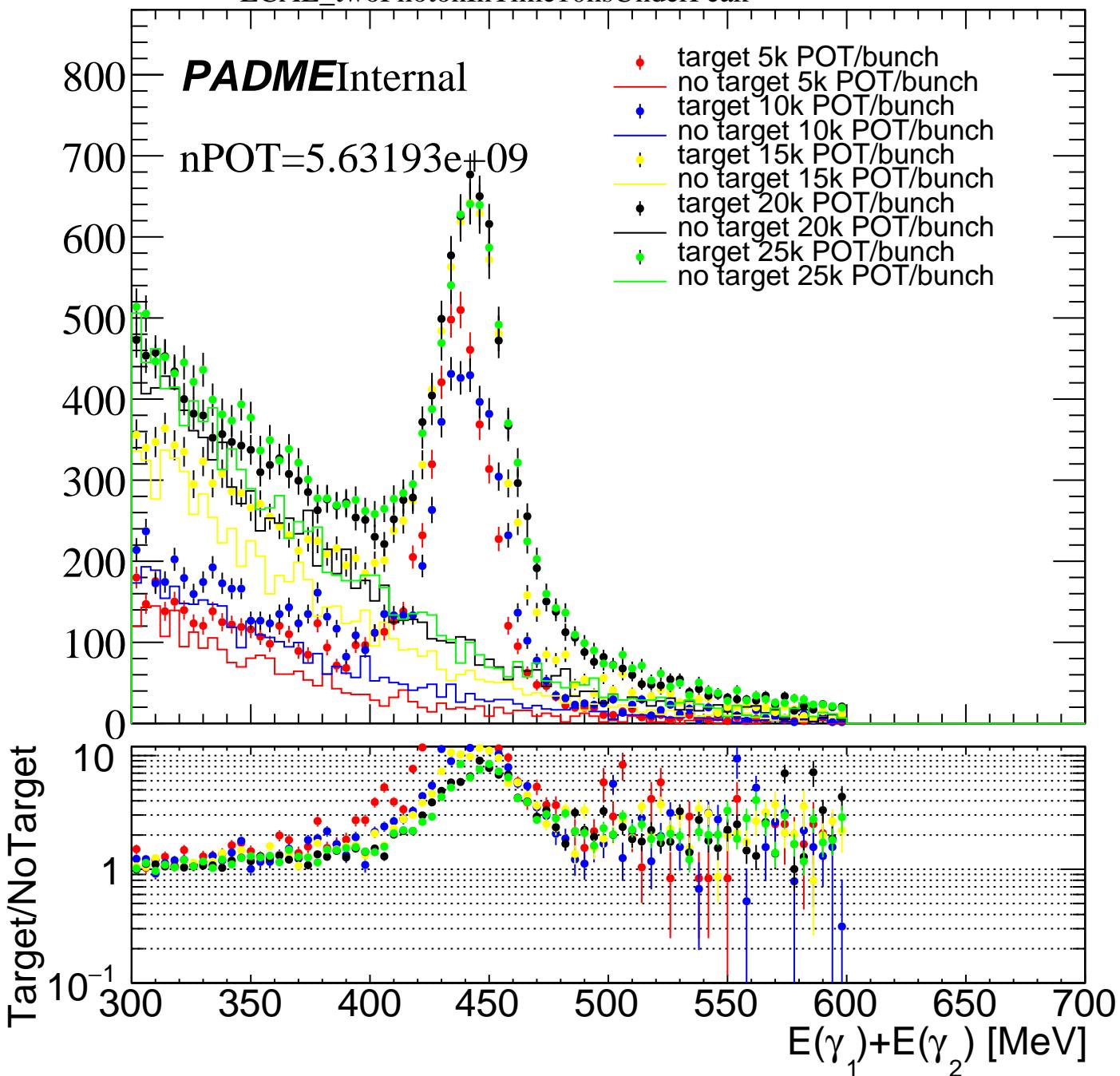
ECAL\_gravTwoPhoton10ns\_InDeltaPhi20Degree2Method\_DeltaTheta



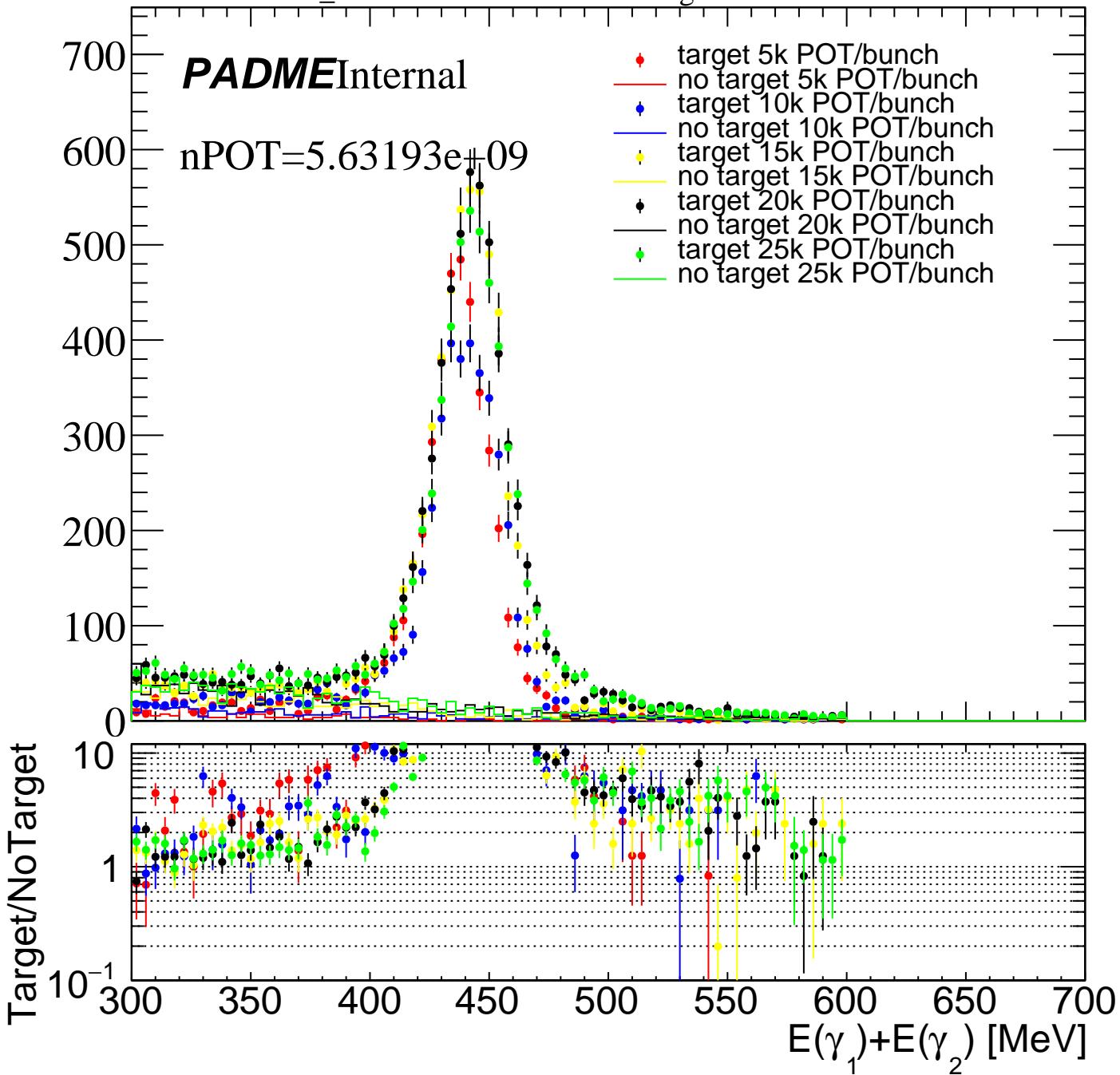
ECAL\_gravTwoPhoton10ns1cm



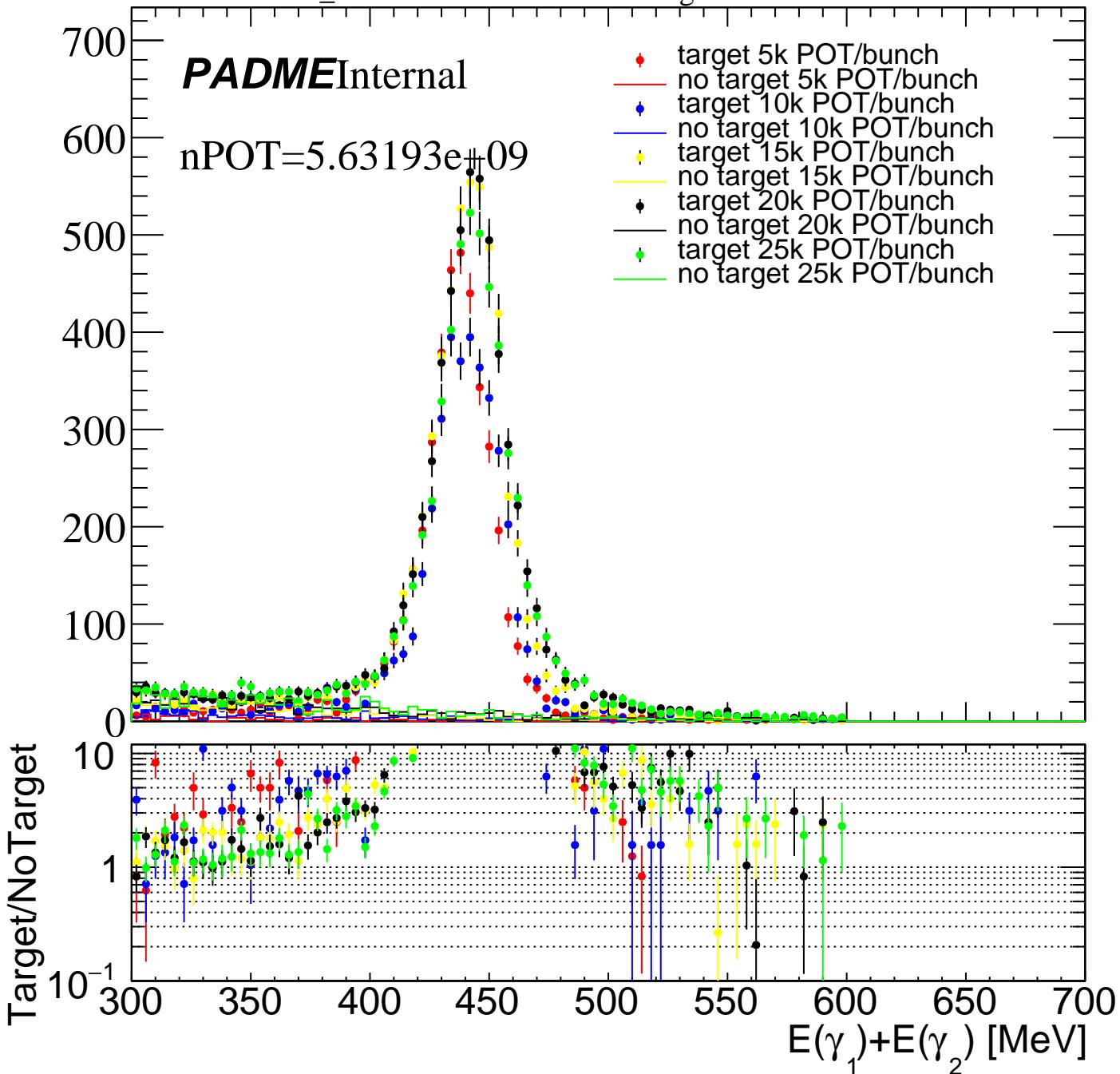
# ECAL\_twoPhotonInTime10nsUnderPeak



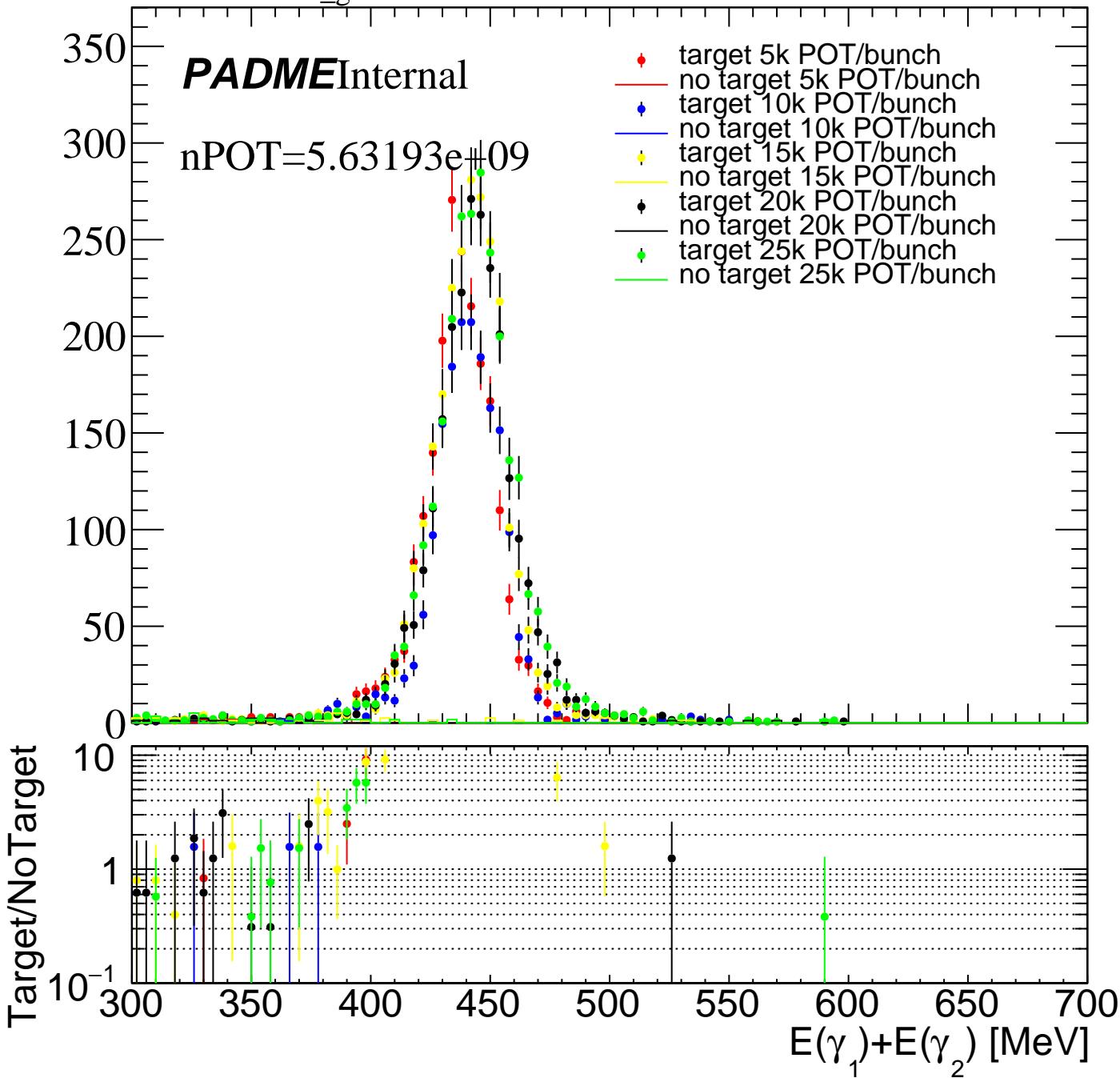
ECAL\_twoPhotonInTime10ns20DegreeUnderPeak



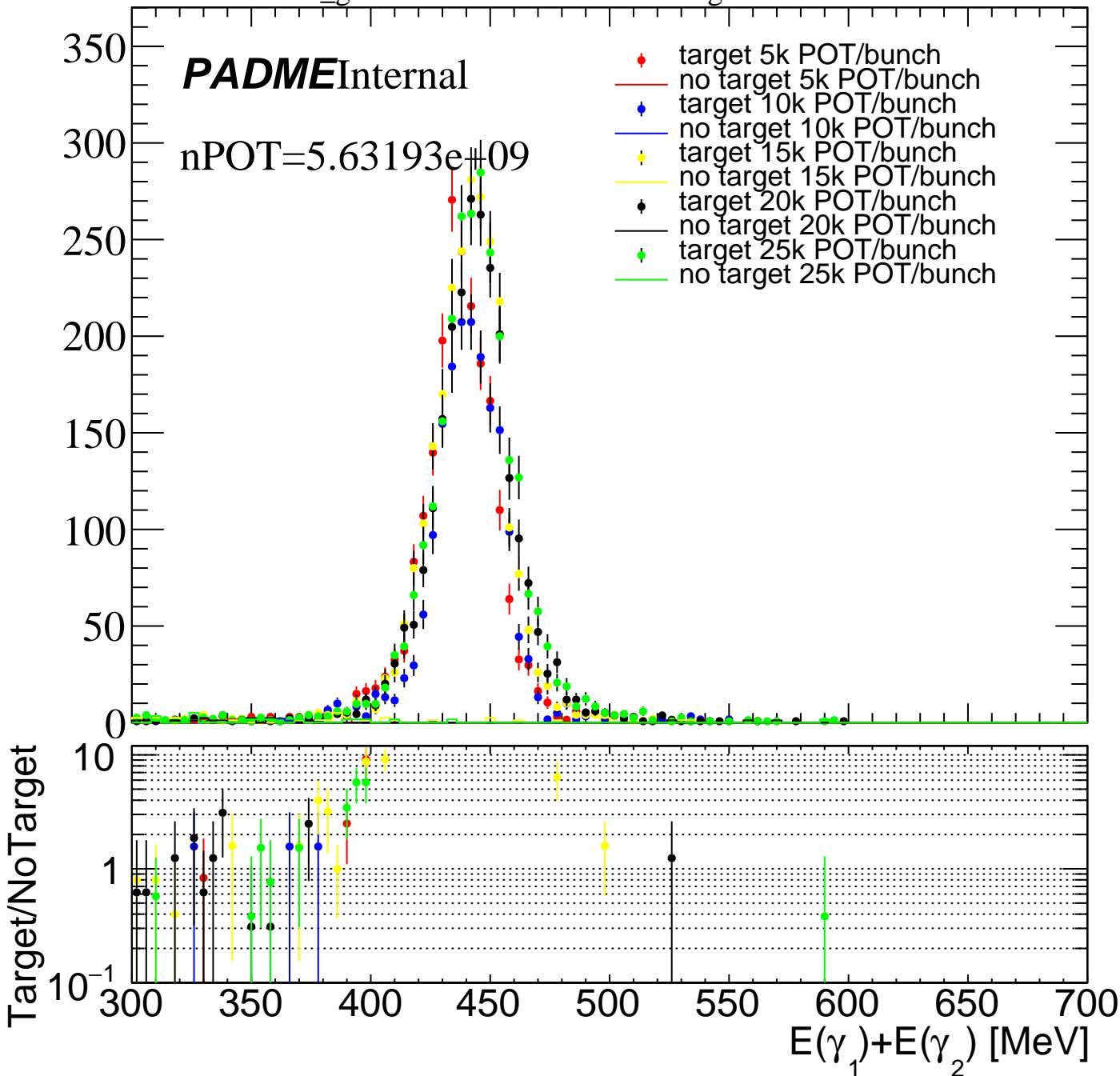
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaUnderPeak



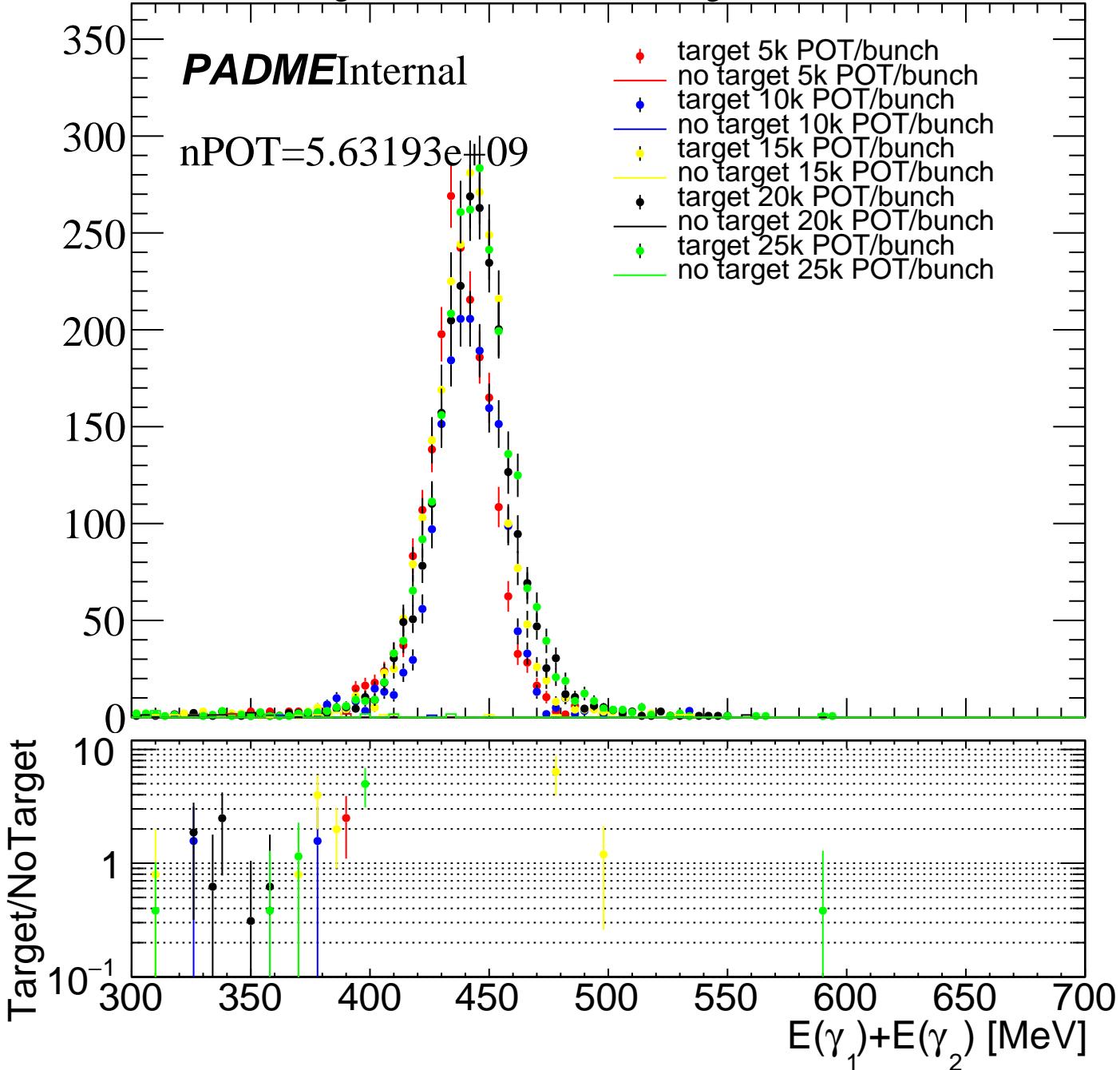
ECAL\_gravTwoPhoton10ns1cmUnderPeak



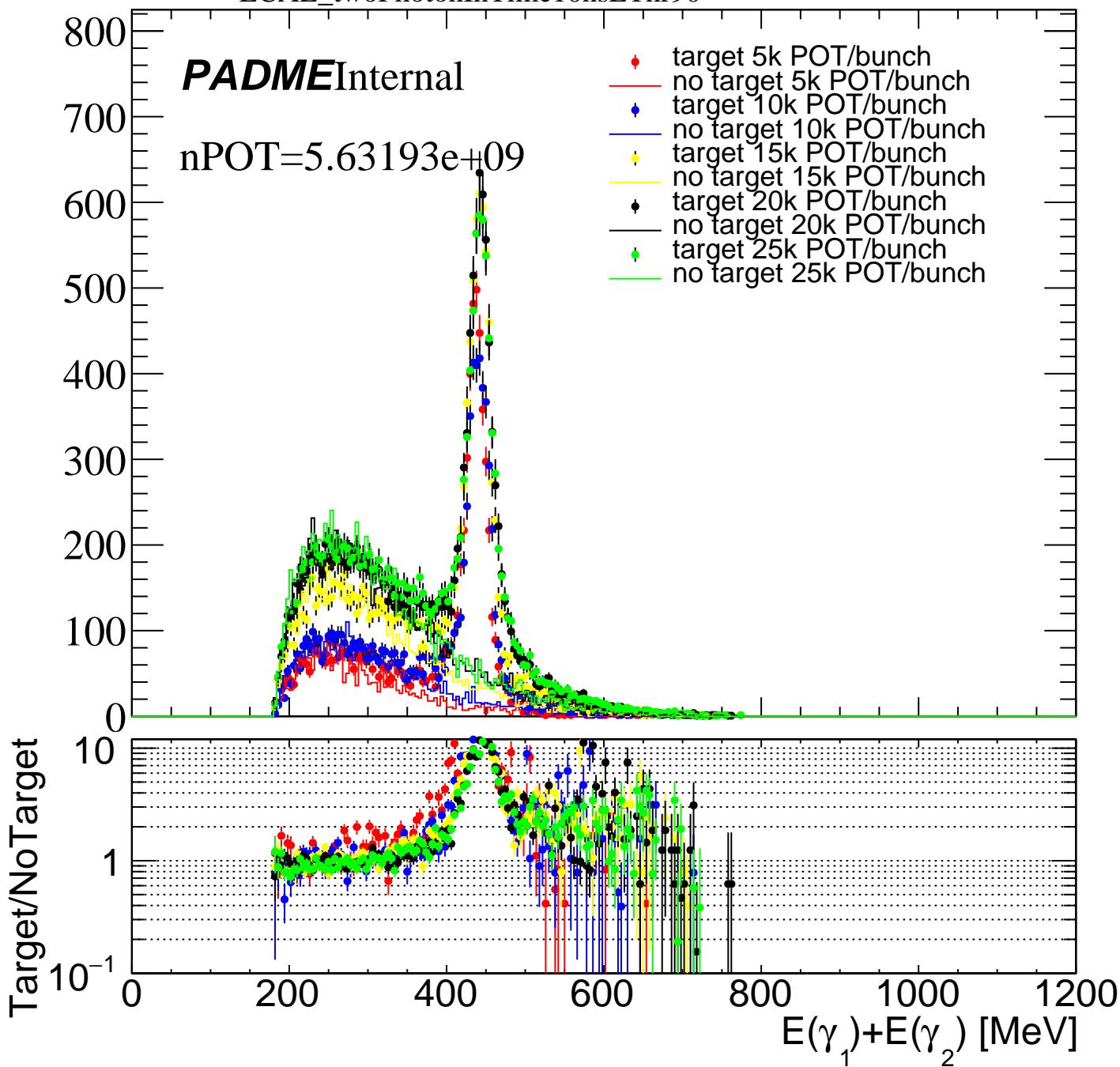
ECAL\_gravTwoPhoton10ns1cm20DegreeUnderPeak



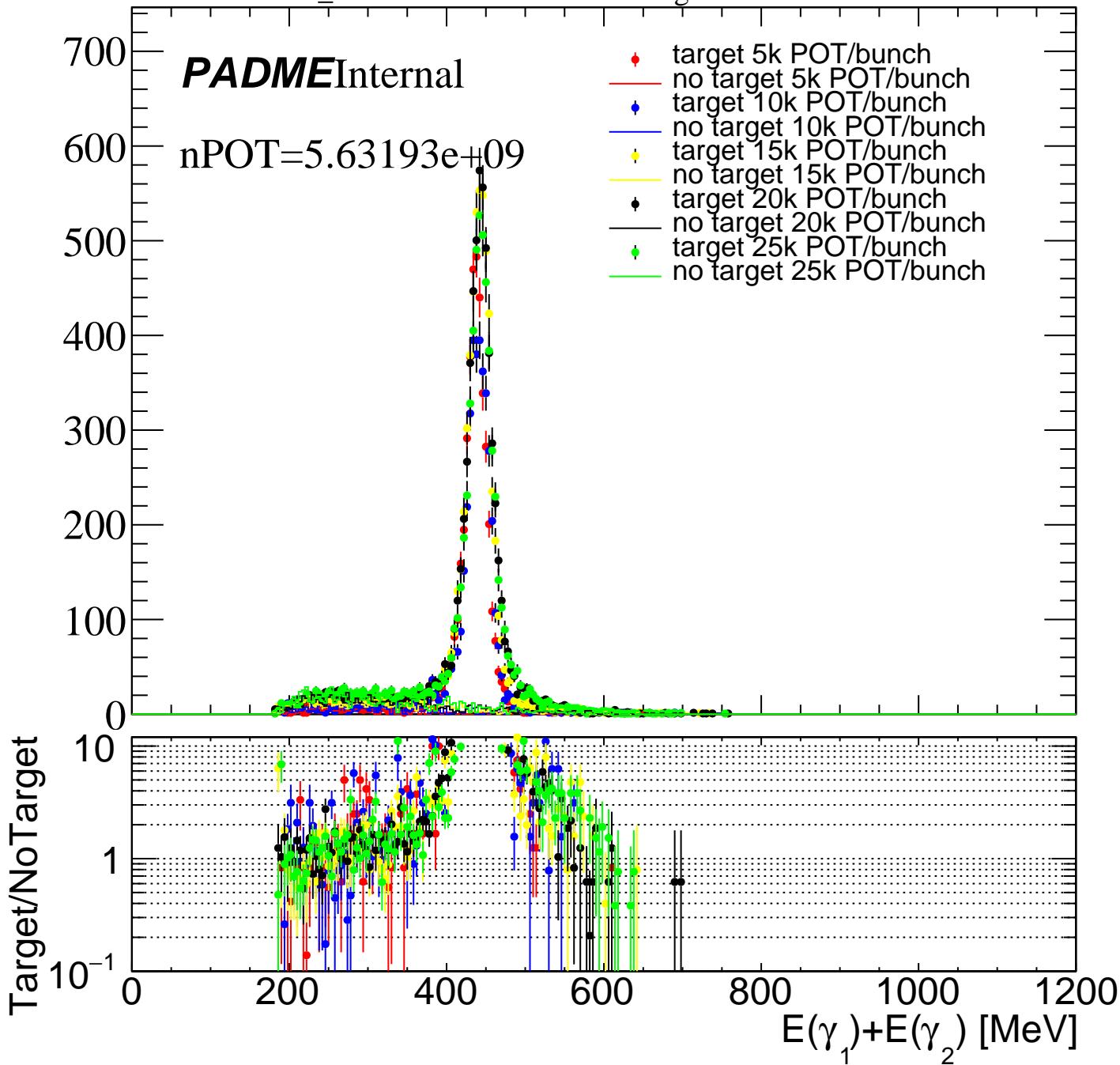
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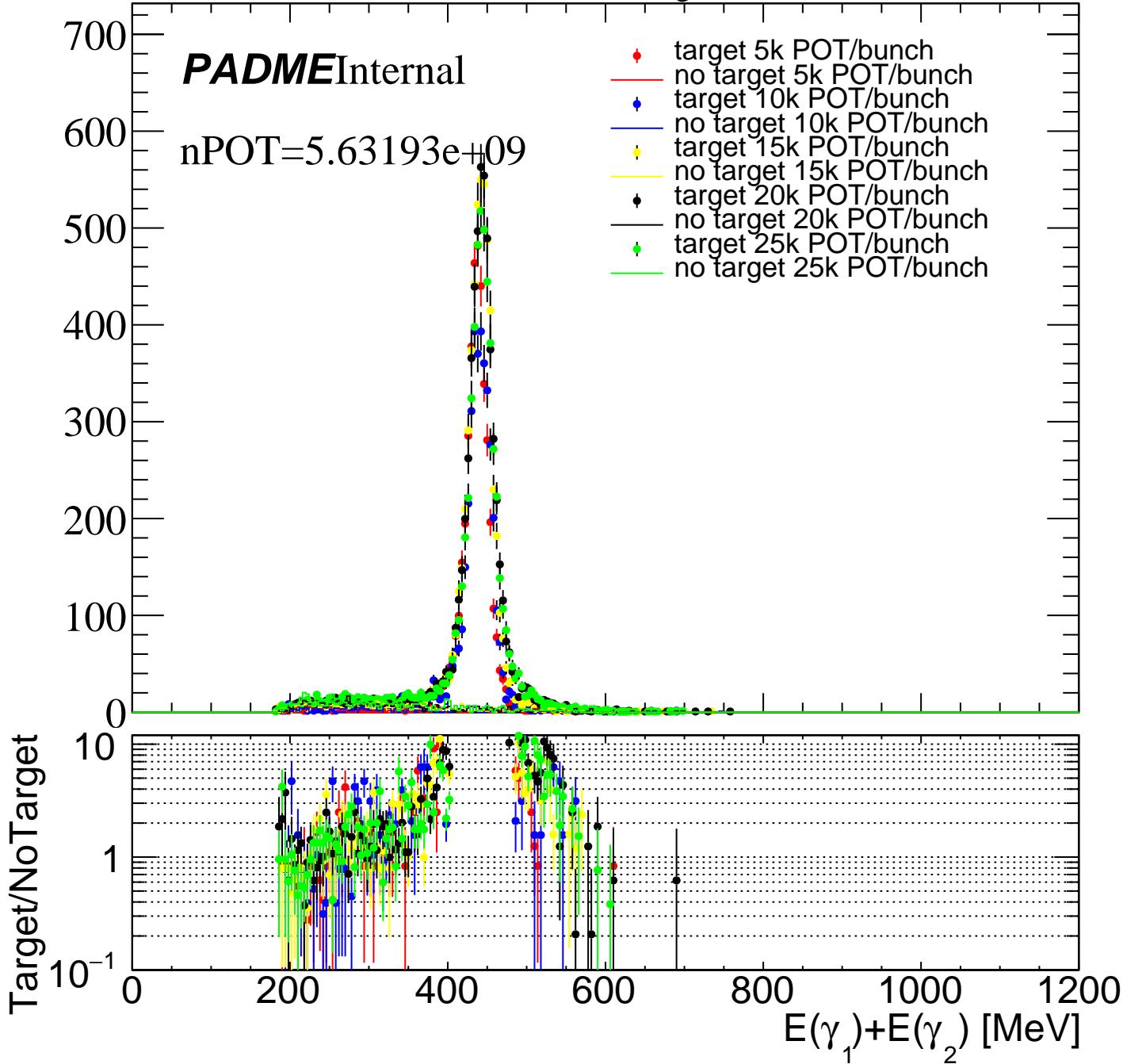
ECAL\_twoPhotonInTime10nsEThr90



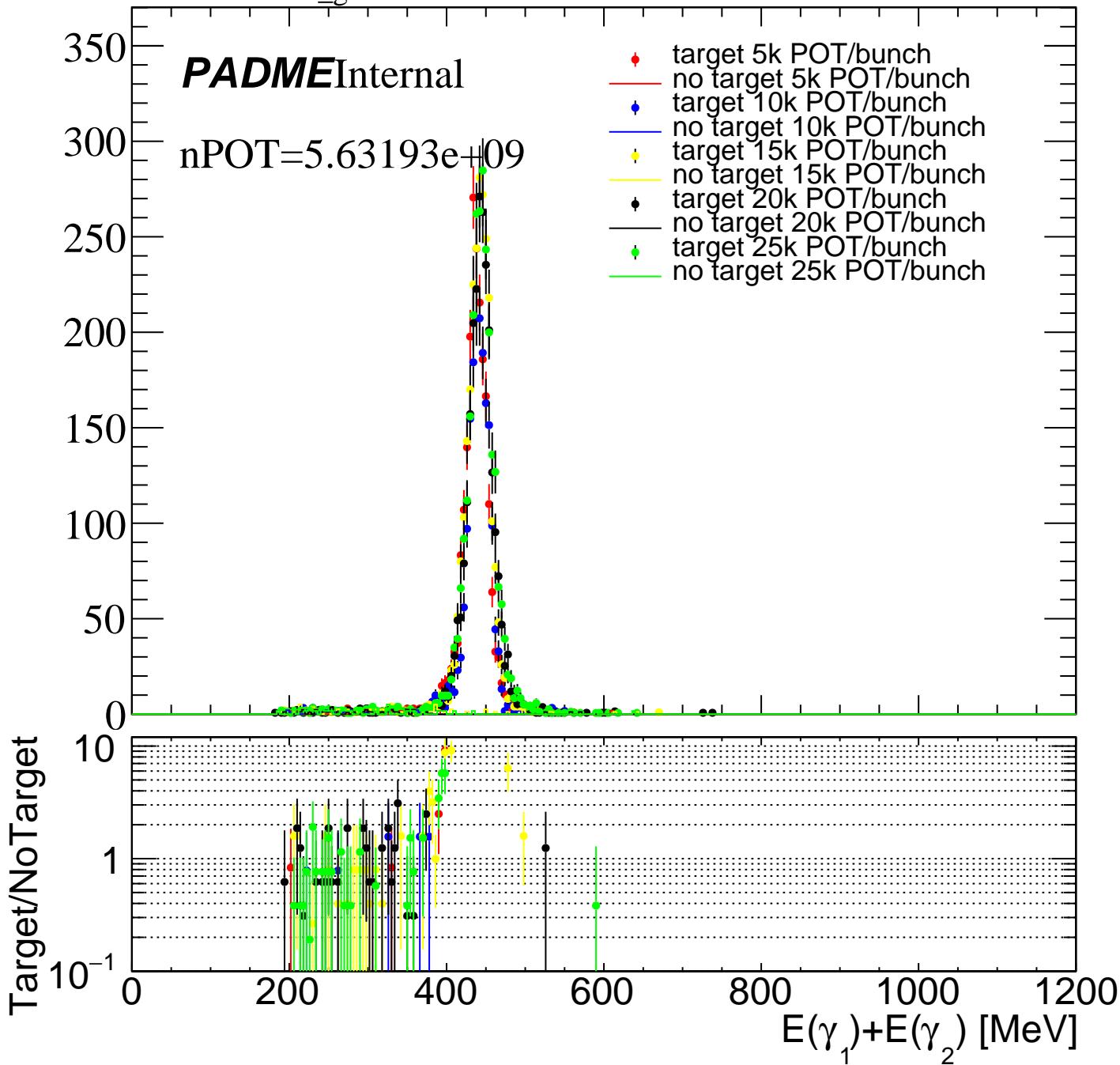
ECAL\_twoPhotonInTime10ns20DegreeEThr90



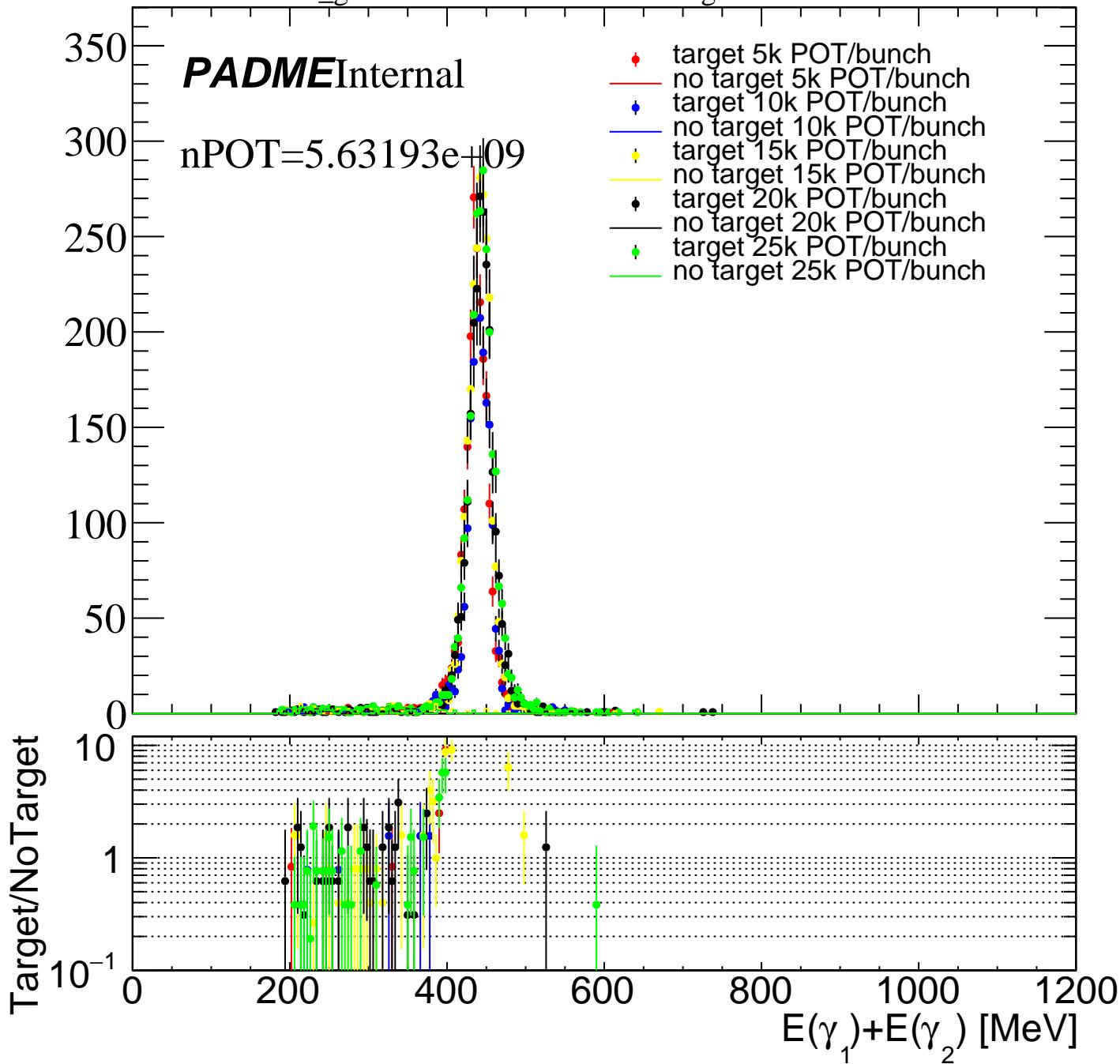
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaETHr90



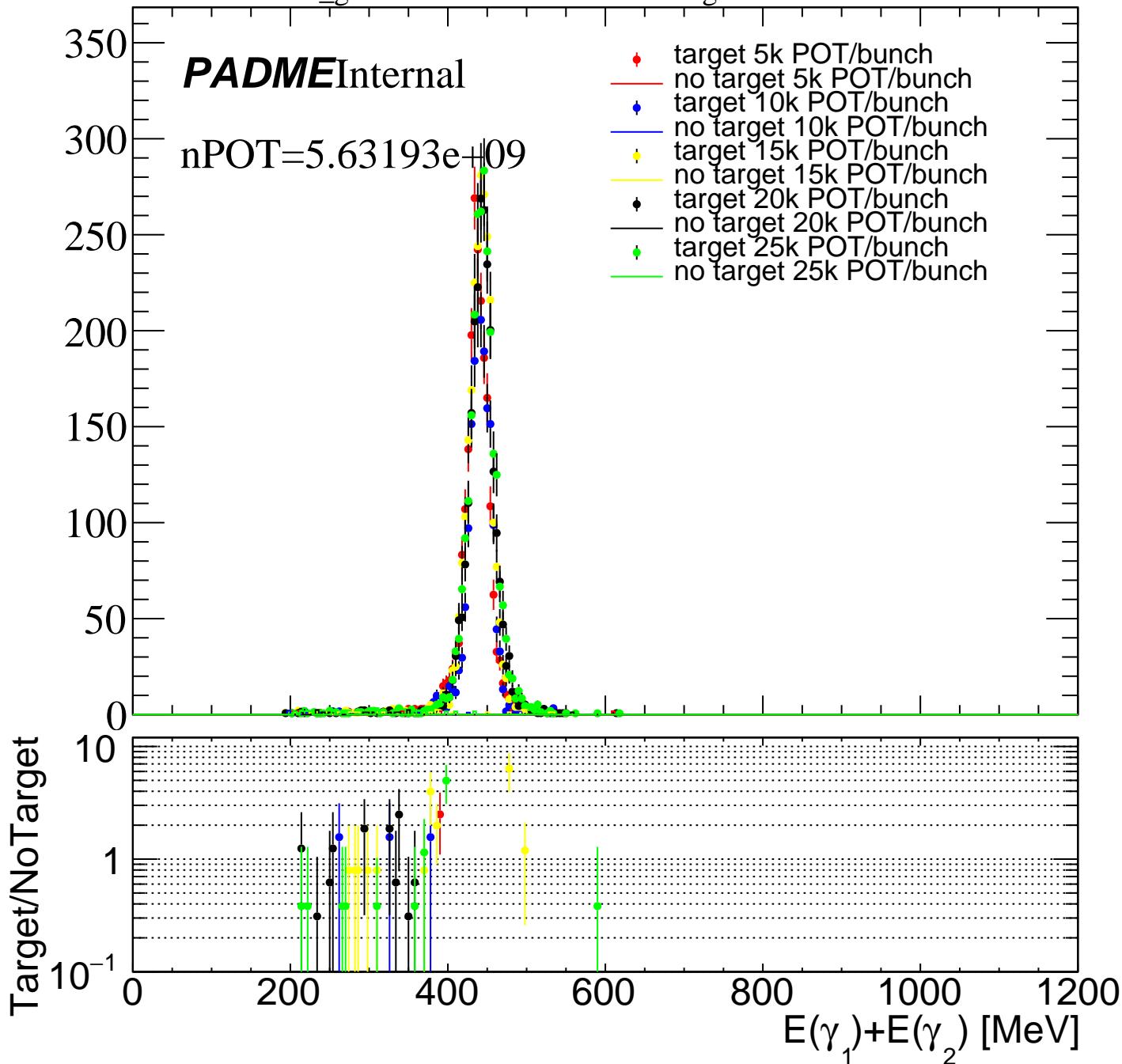
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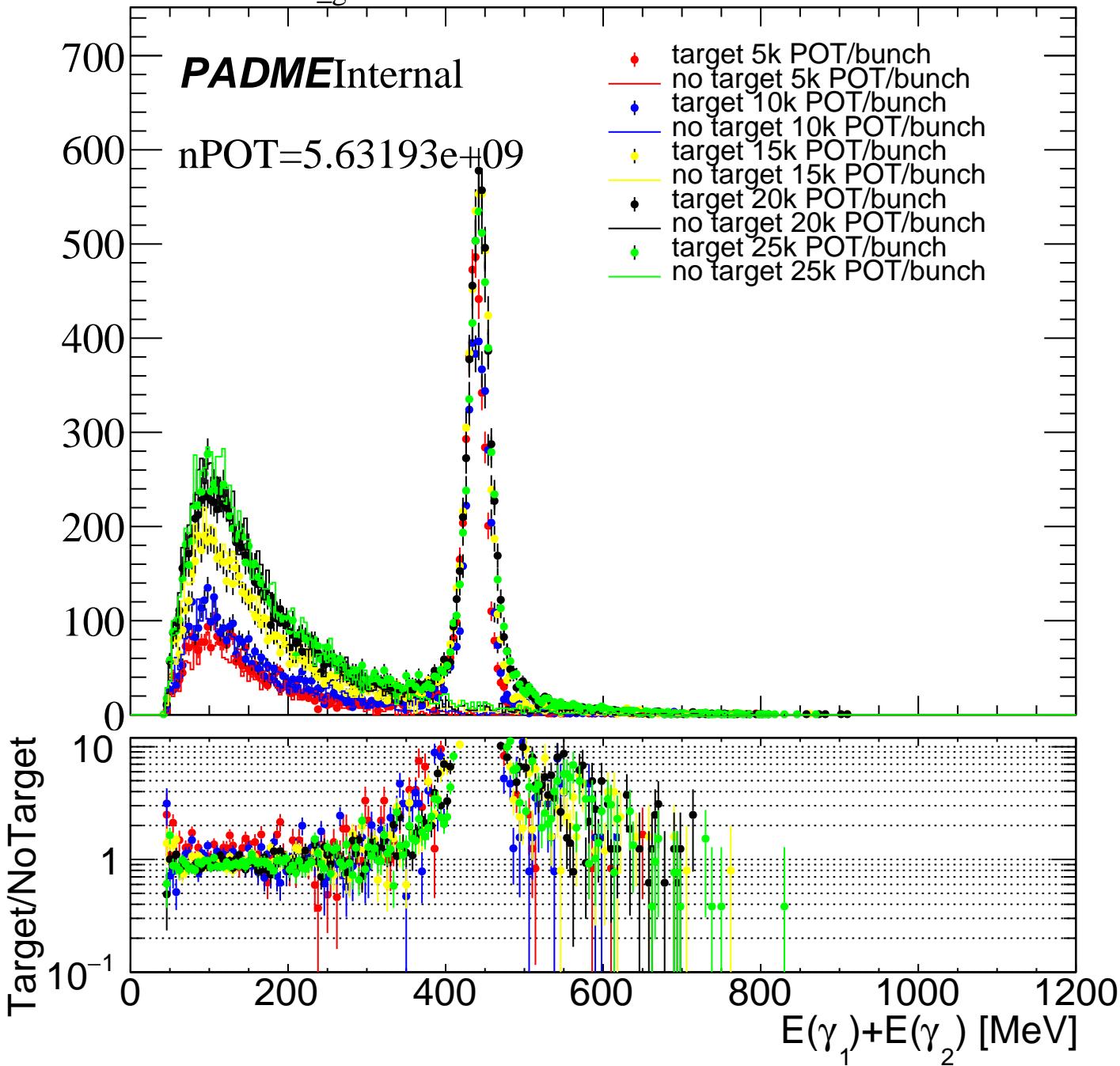
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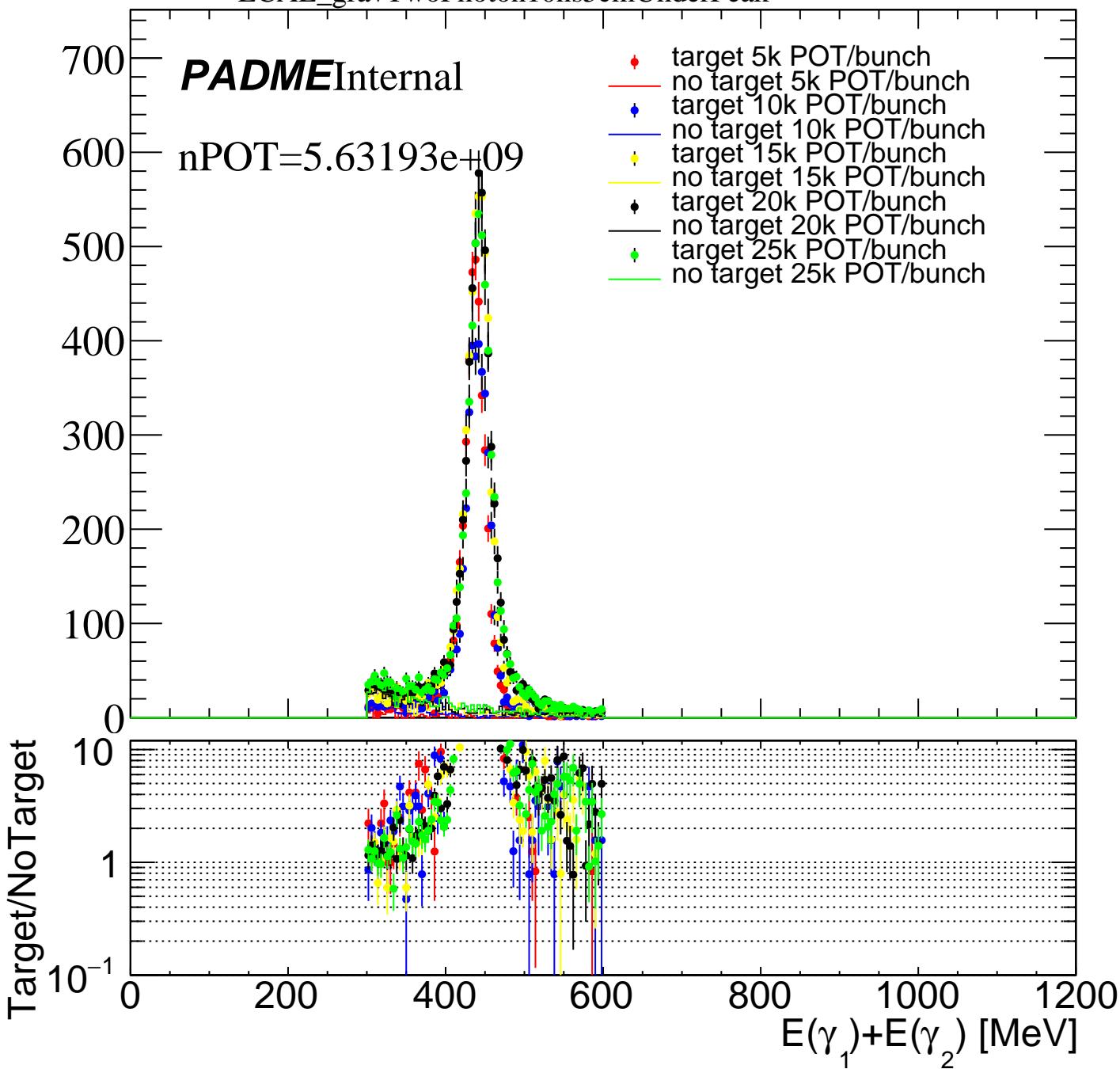
ECAL\_gravTwoPhoton10ns1cm20DegreeDeltaThetaEThr90



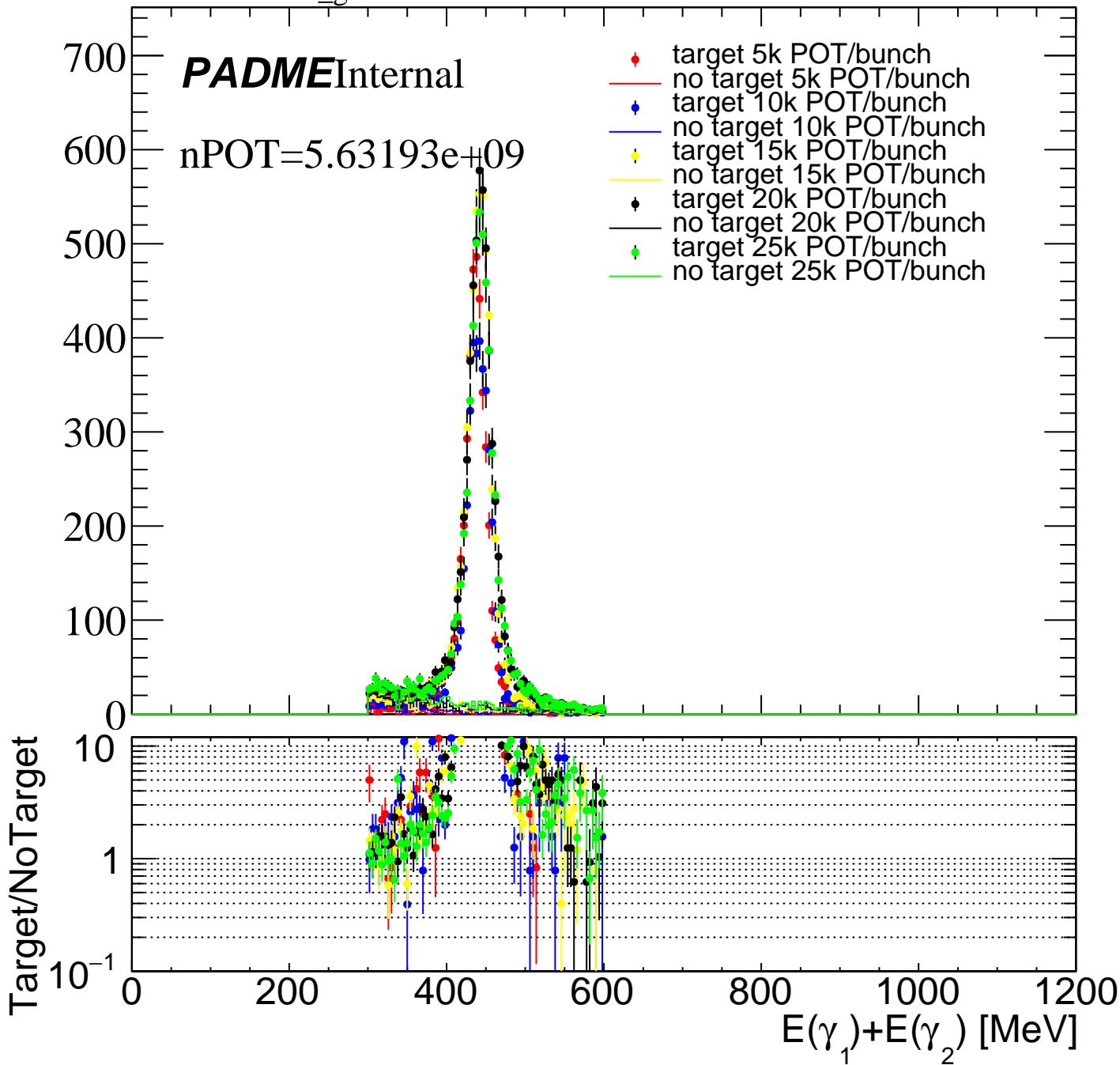
ECAL\_gravTwoPhoton10ns5cm



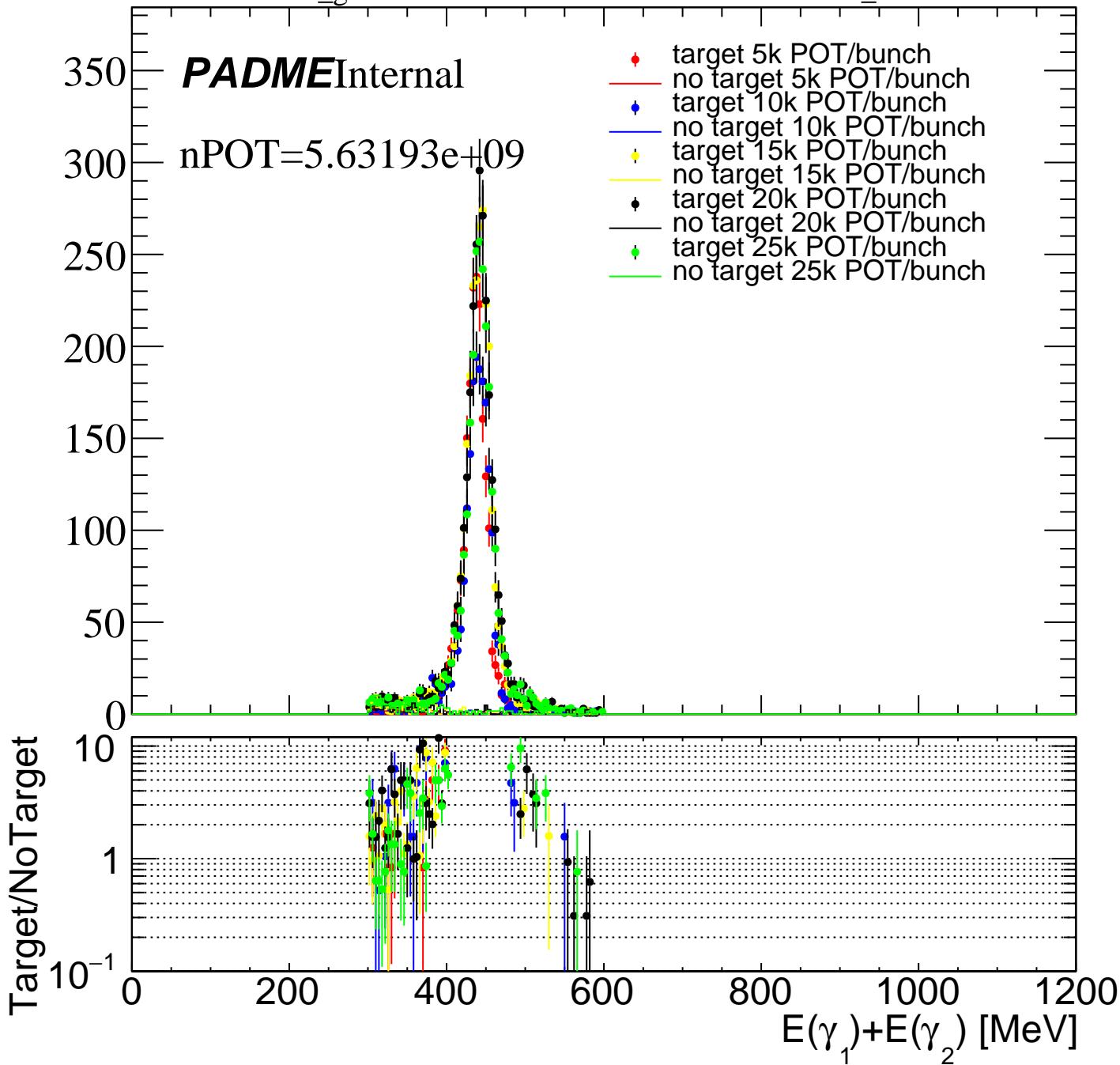
ECAL\_gravTwoPhoton10ns5cmUnderPeak



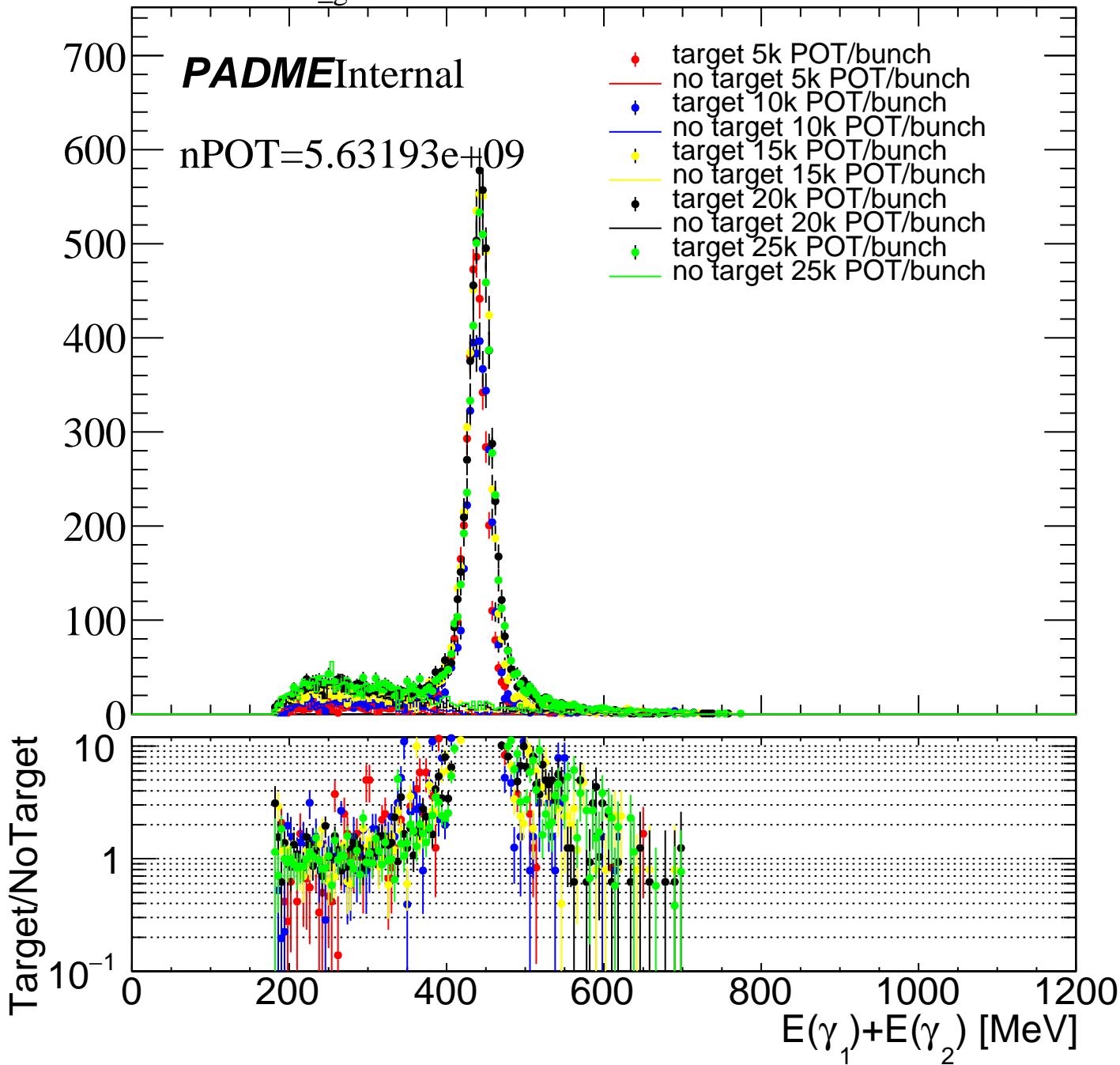
ECAL\_gravTwoPhoton10ns5cmUnderPeakEThr90



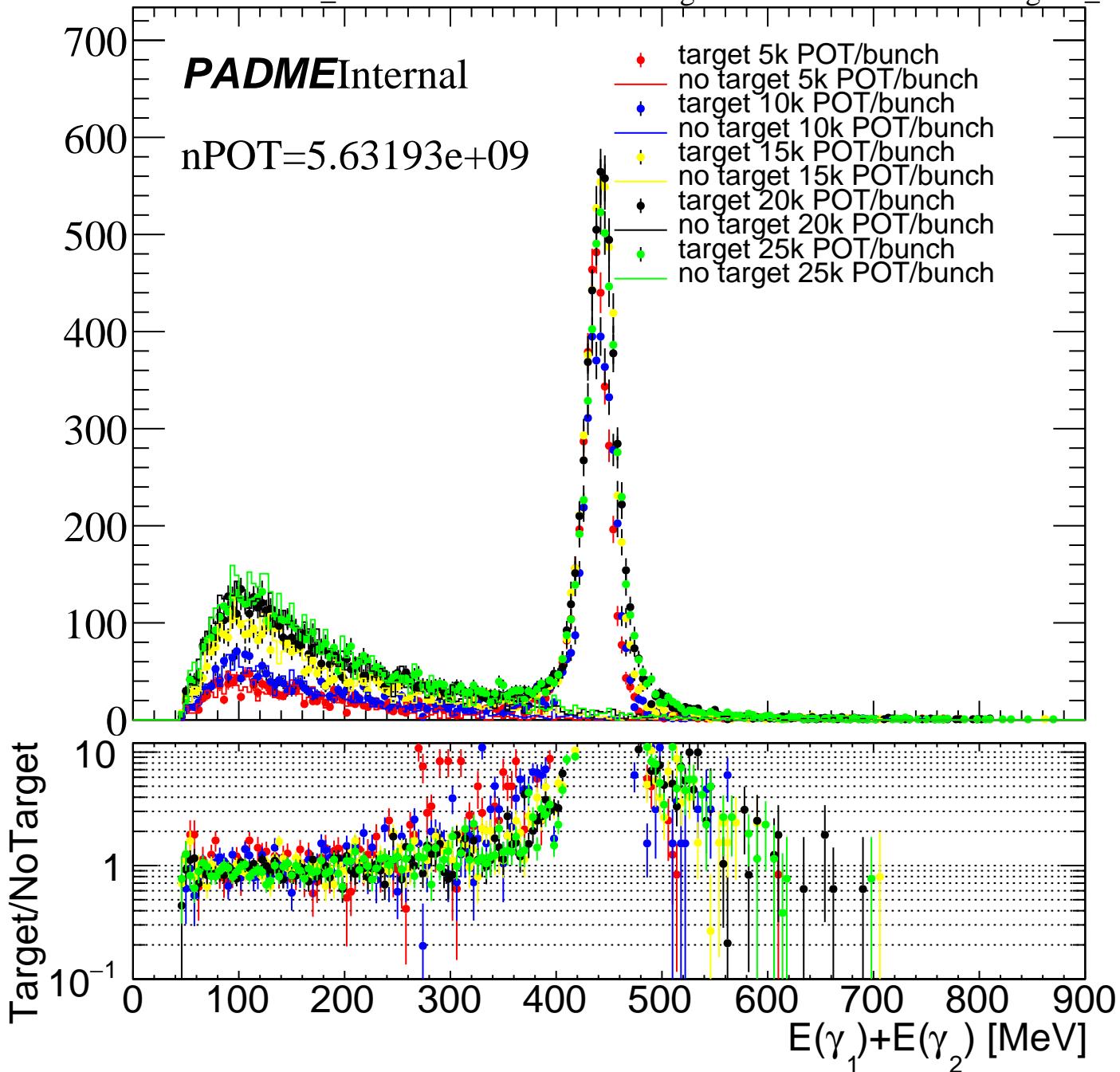
ECAL\_gravTwoPhoton10ns5cmUnderPeakEThr90\_FRY



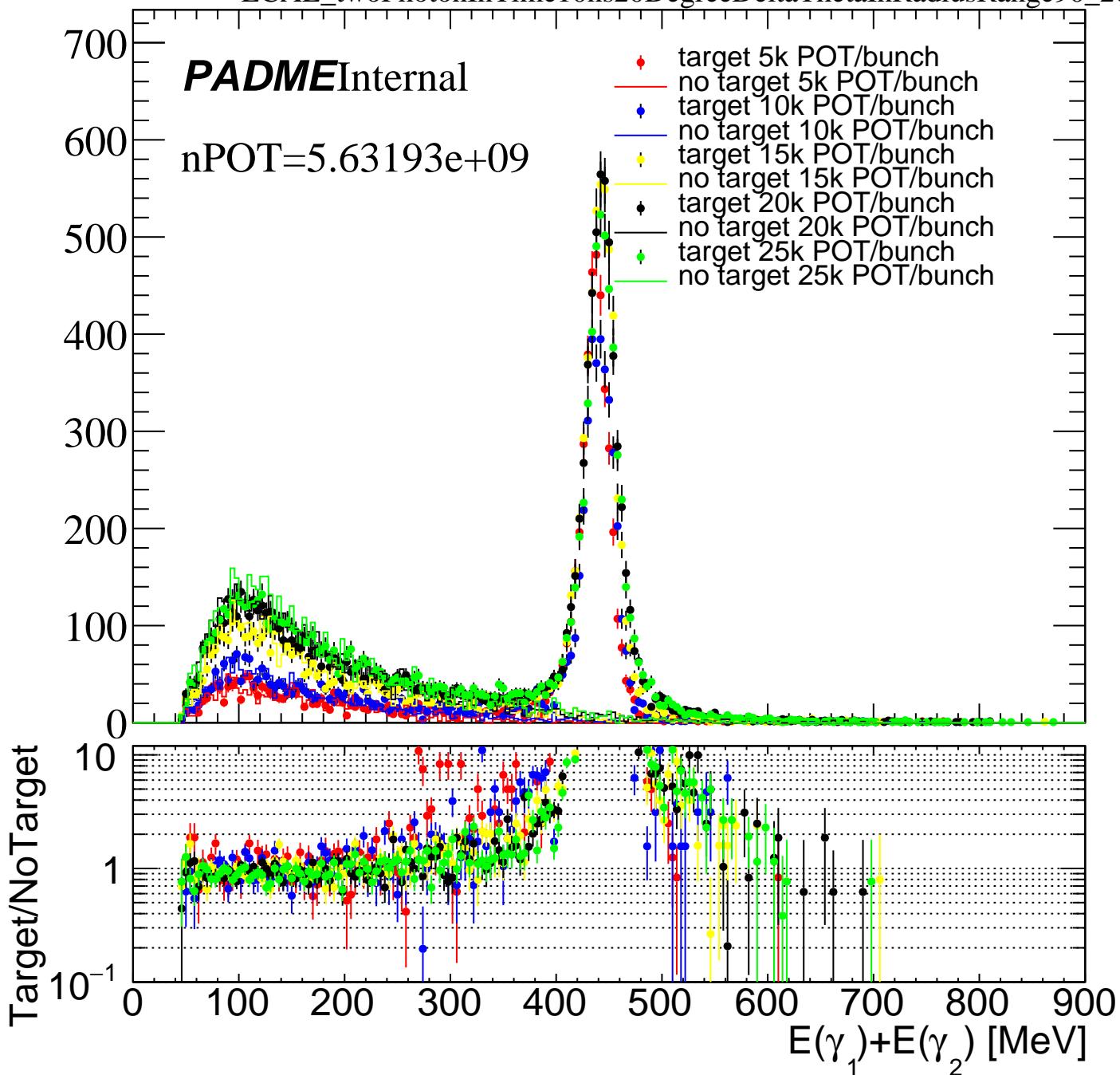
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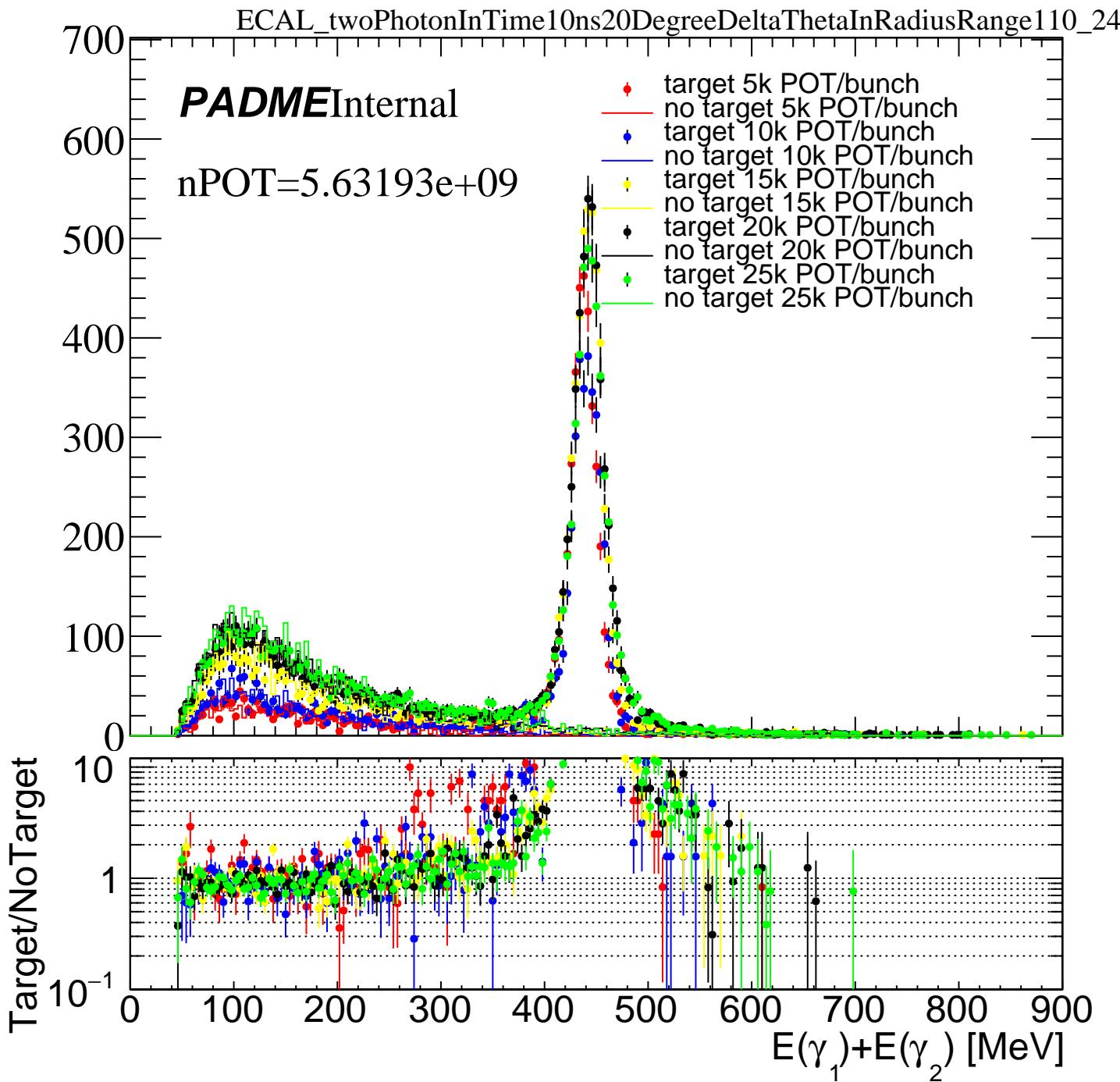


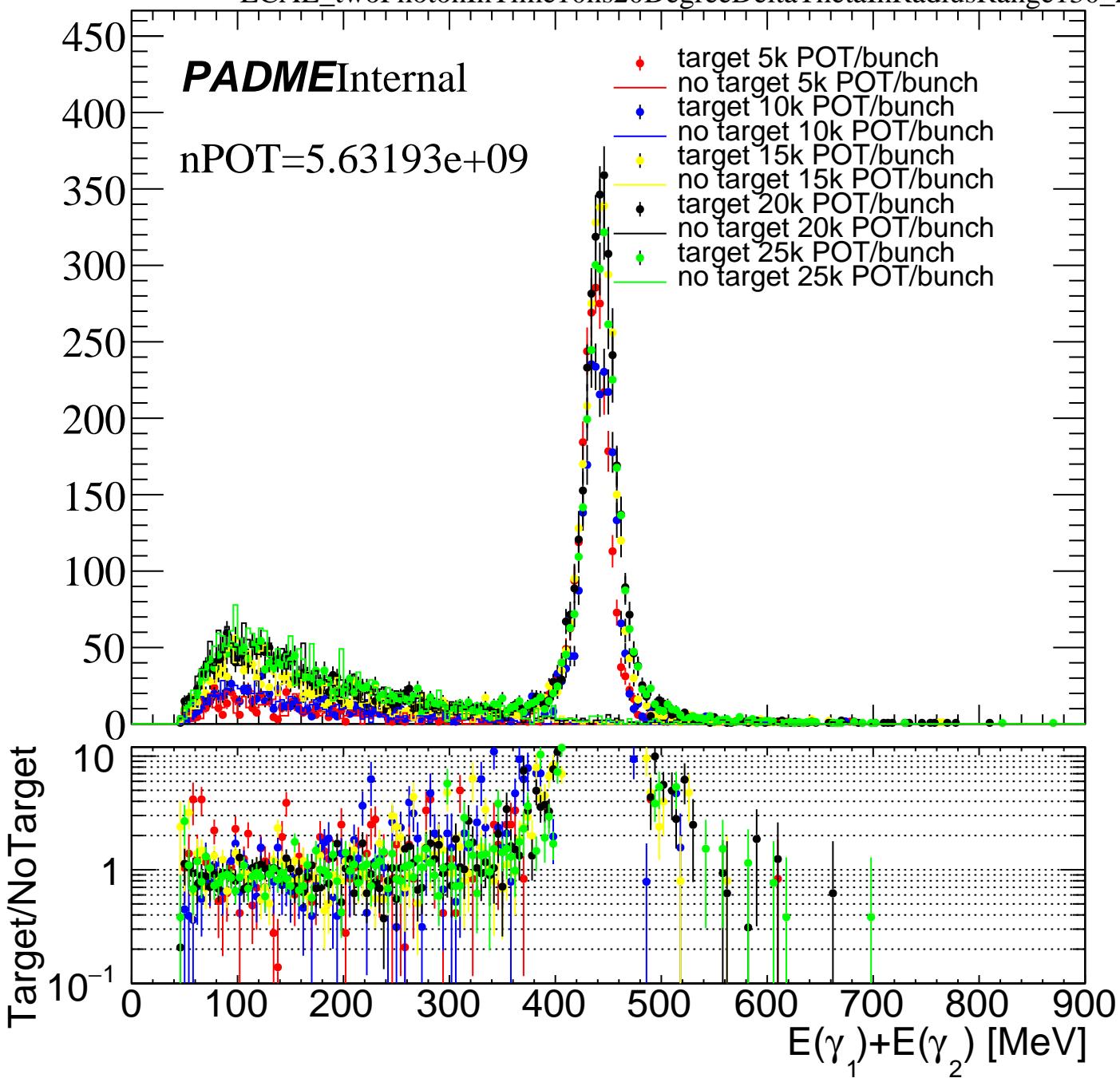
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70\_280



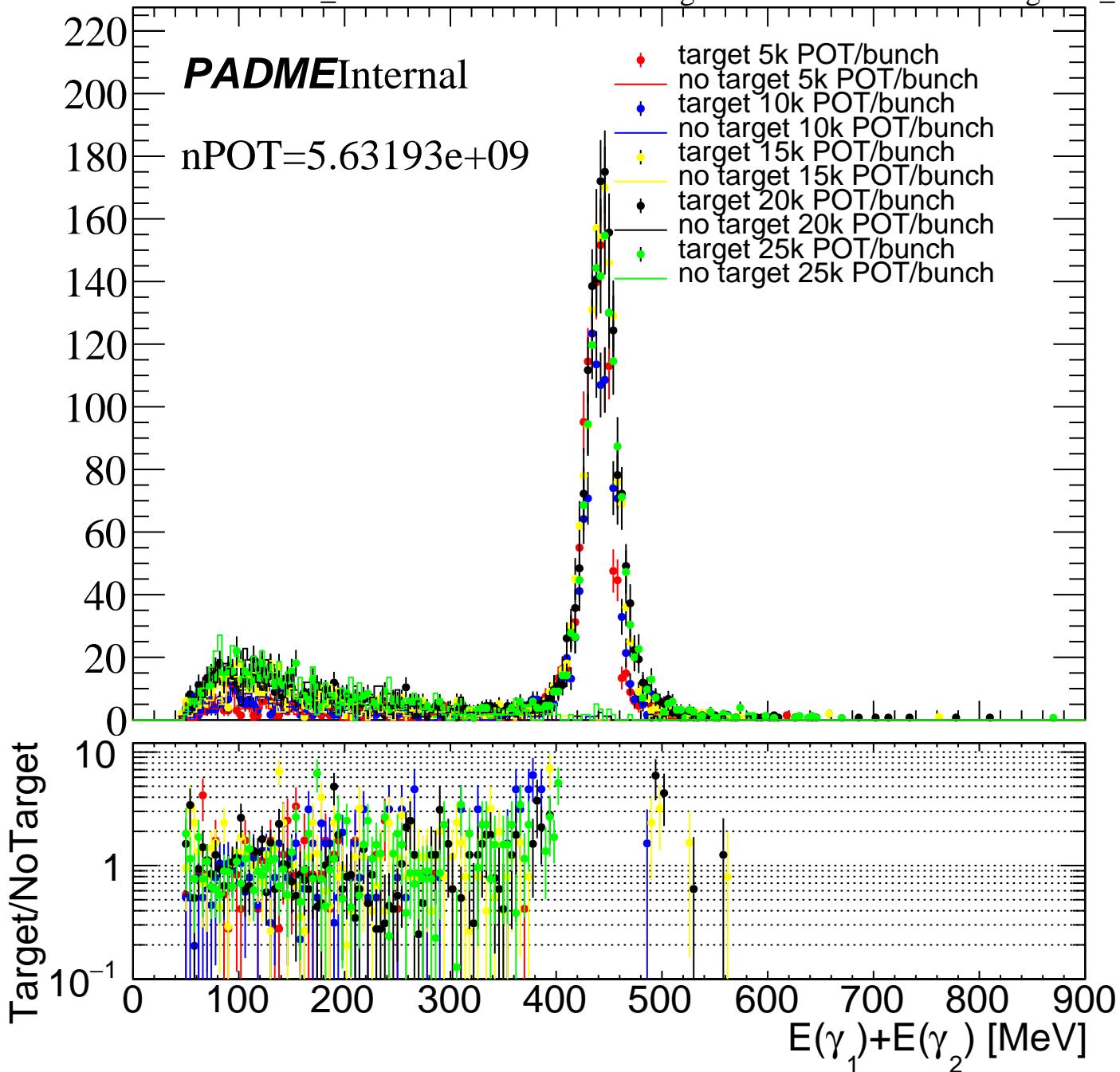
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90\_260



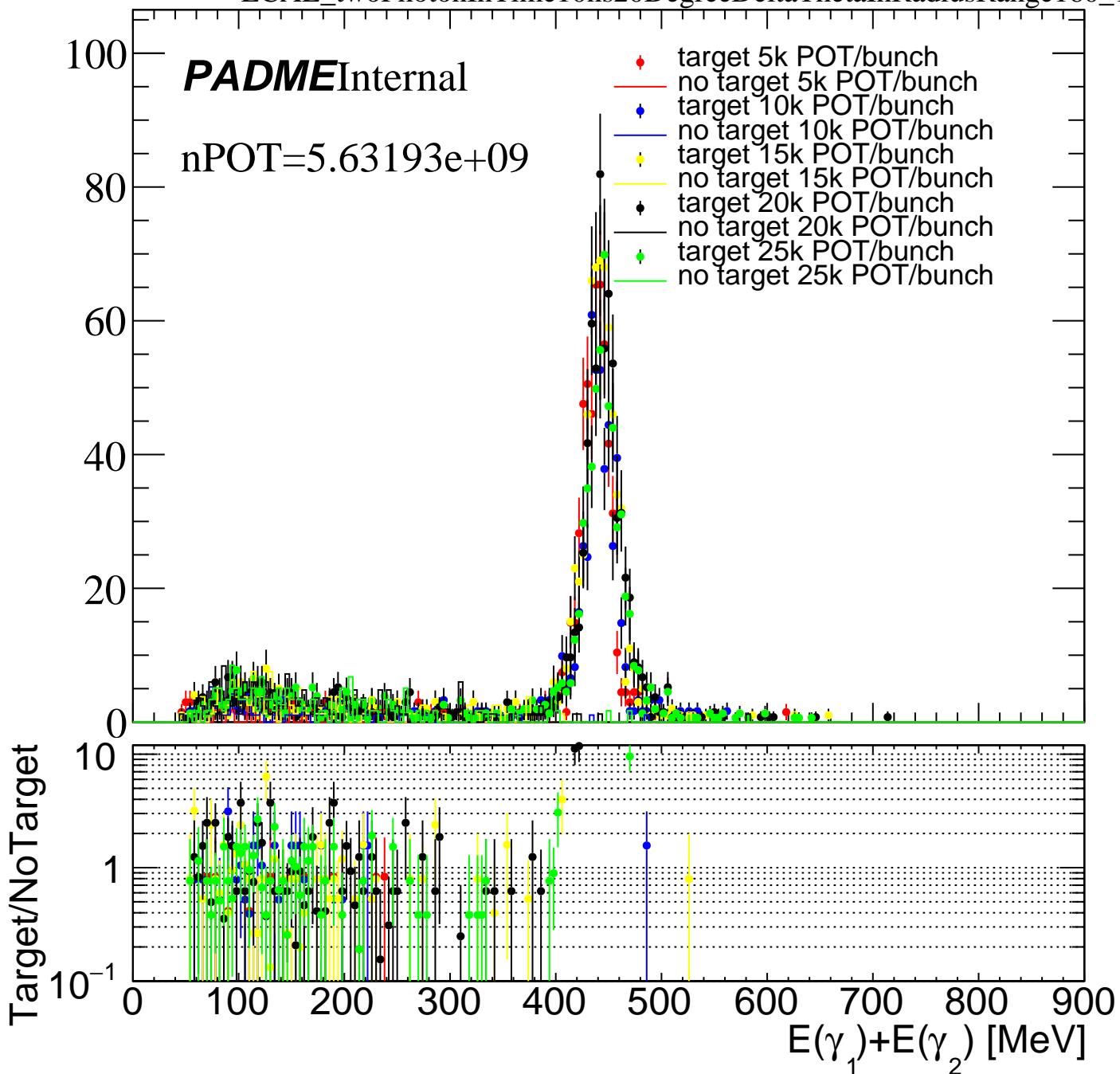




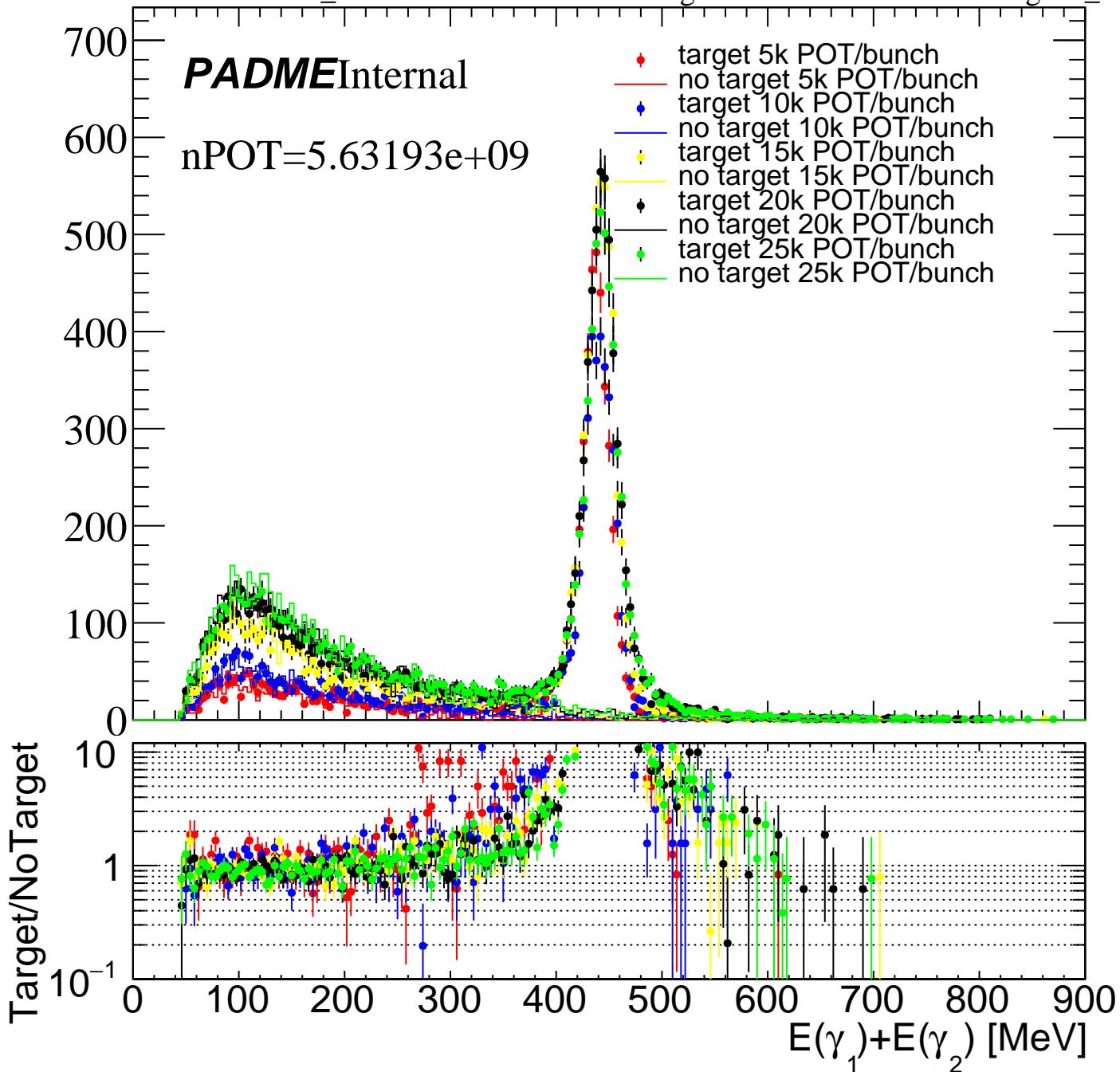
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150\_20

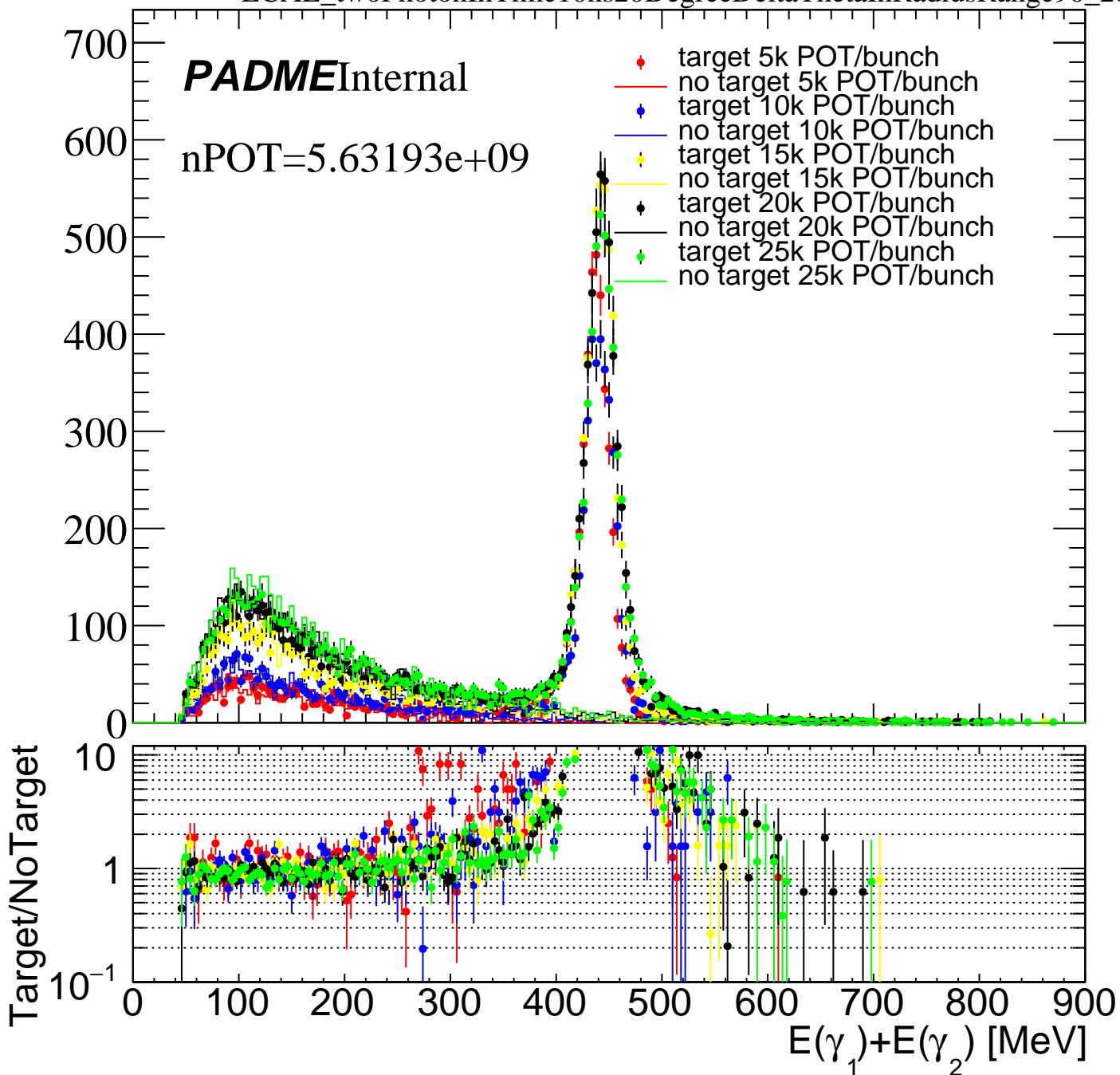


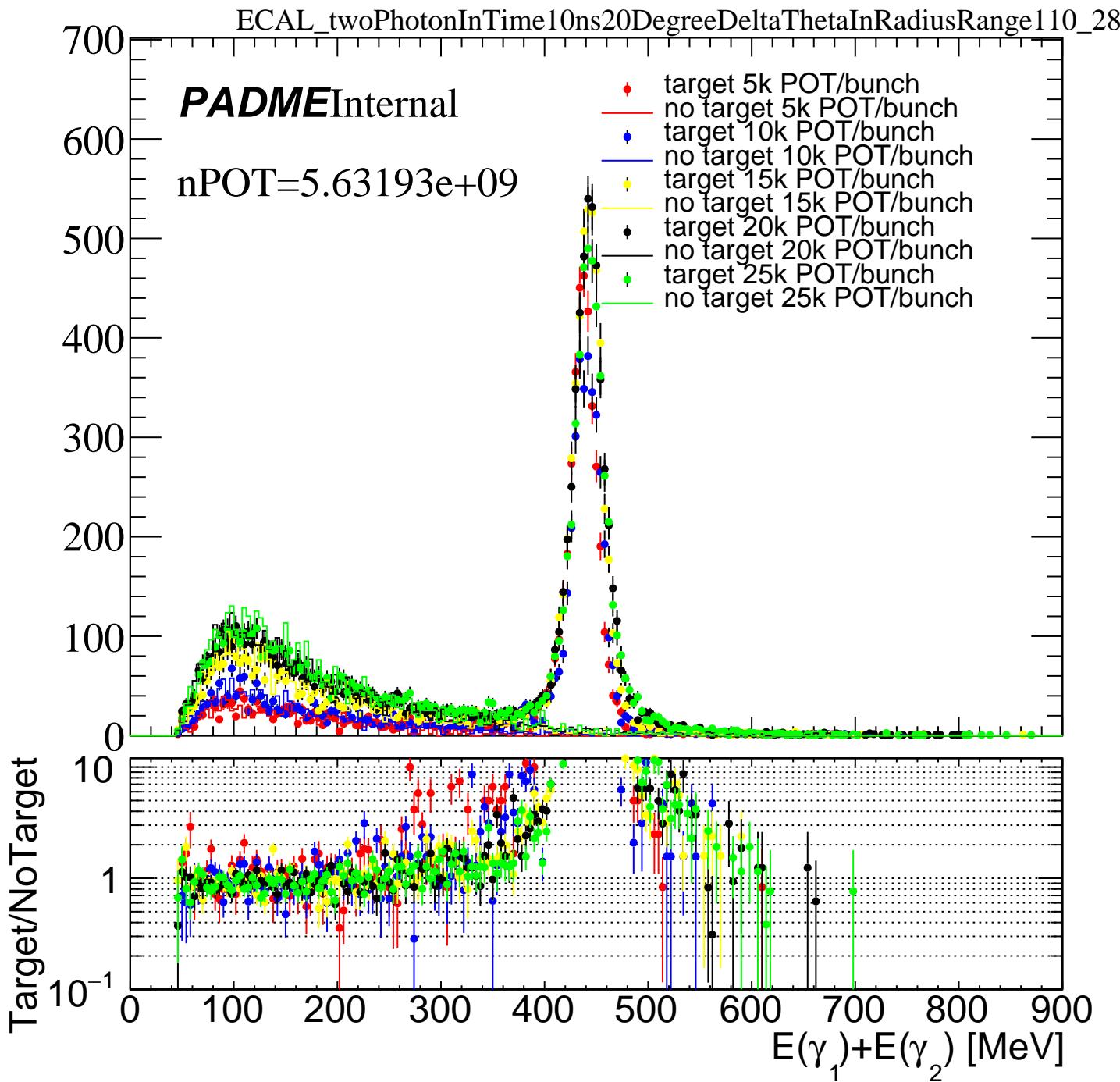
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160\_19

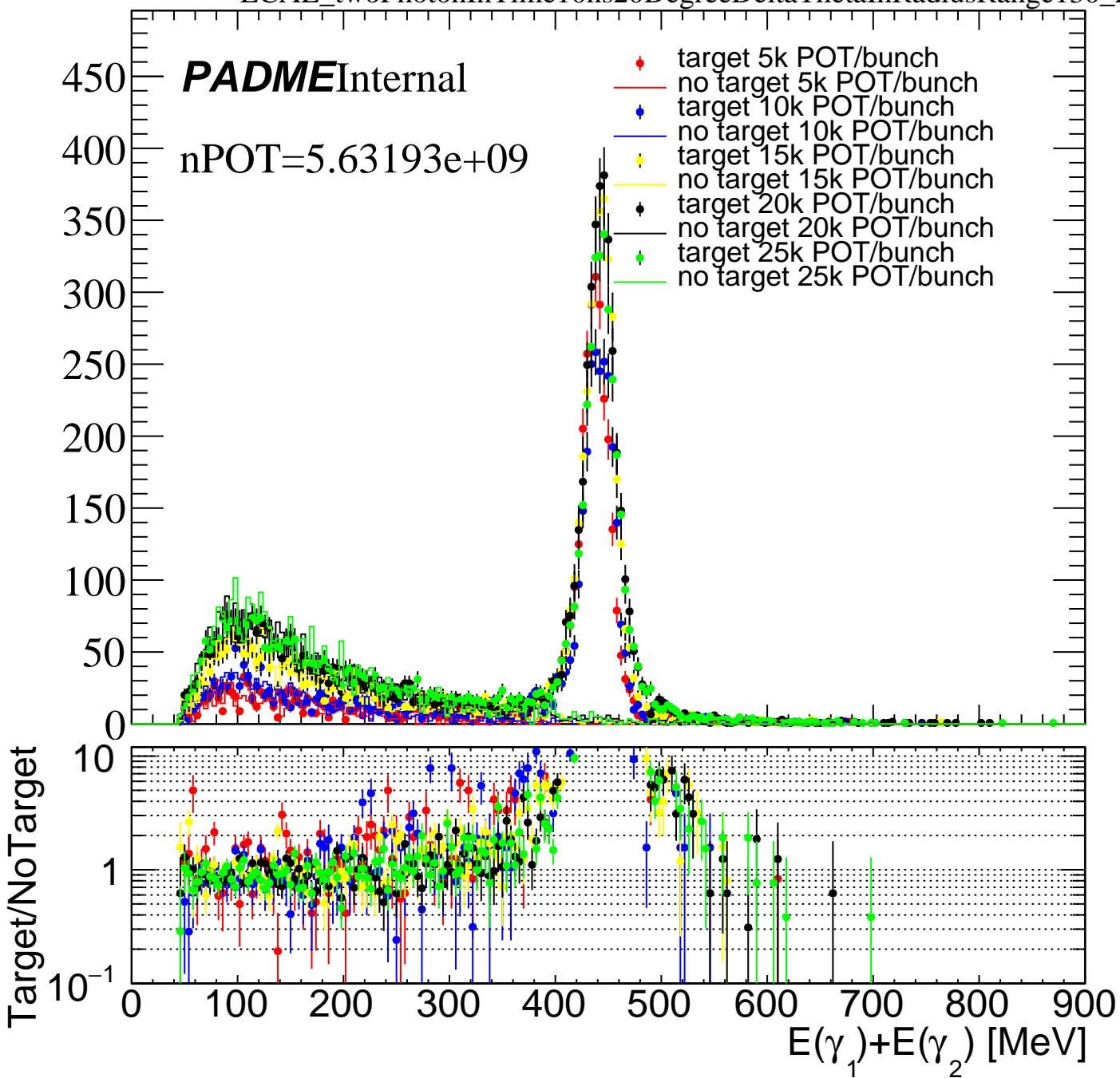


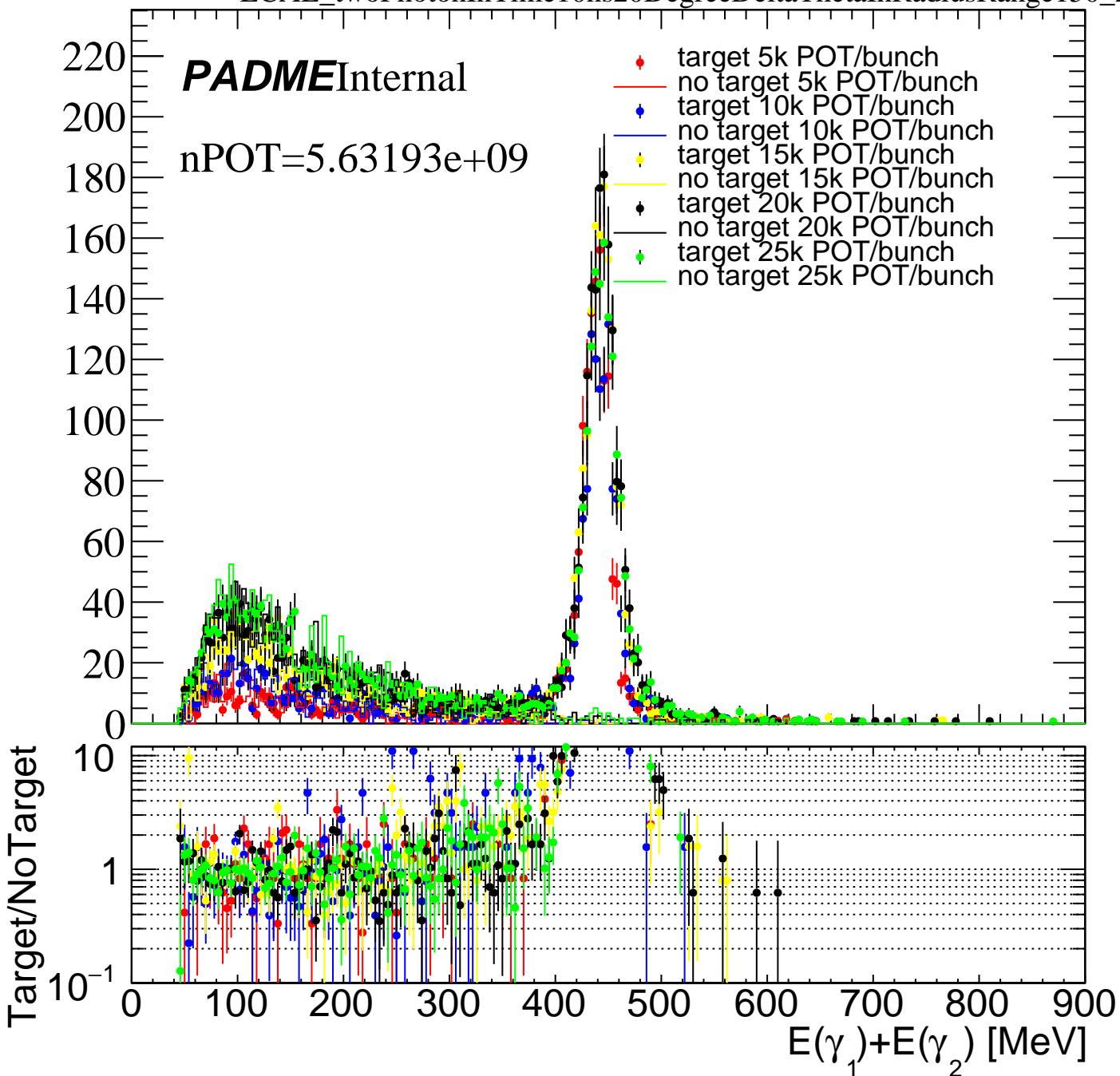
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70\_280

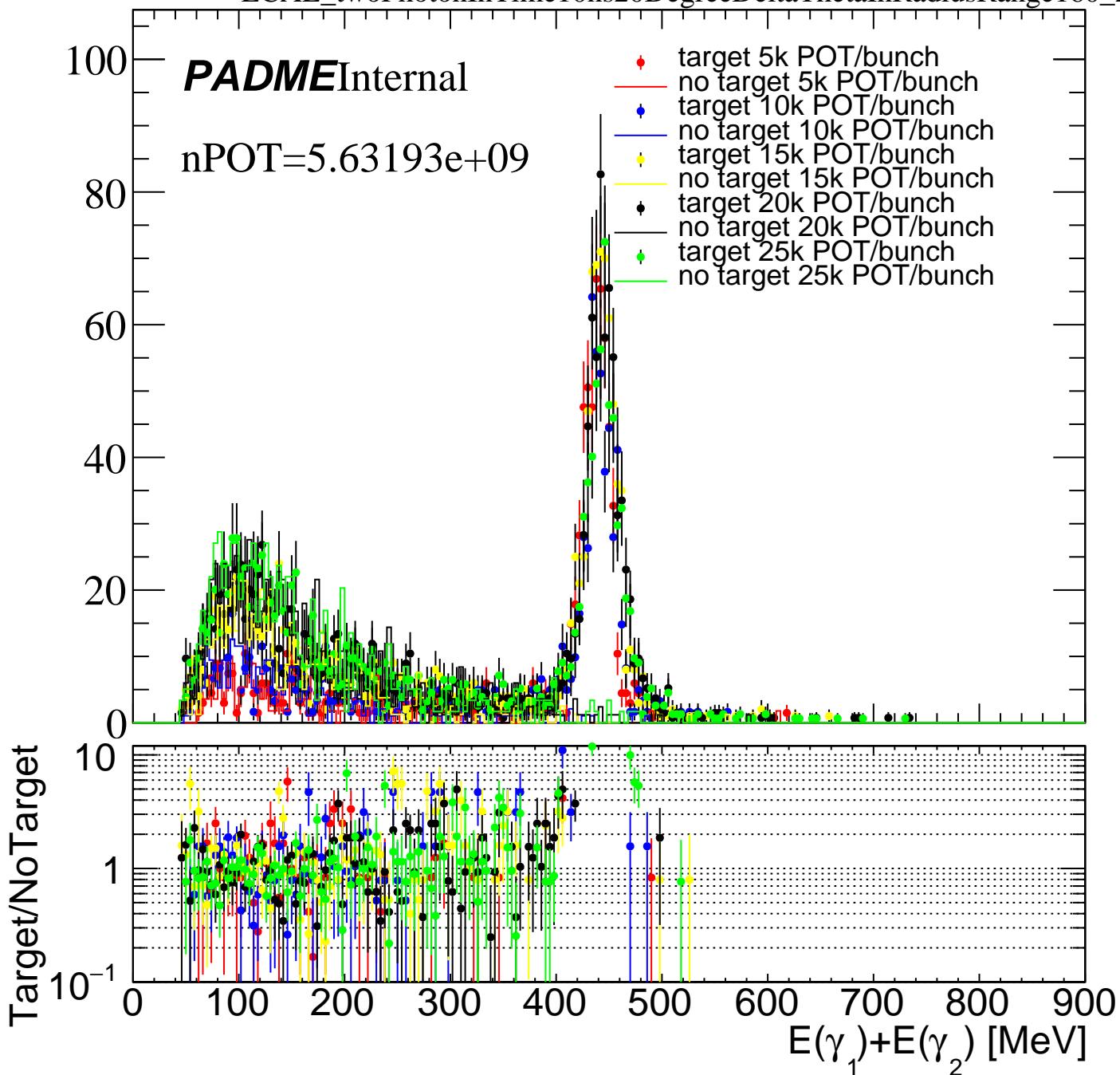




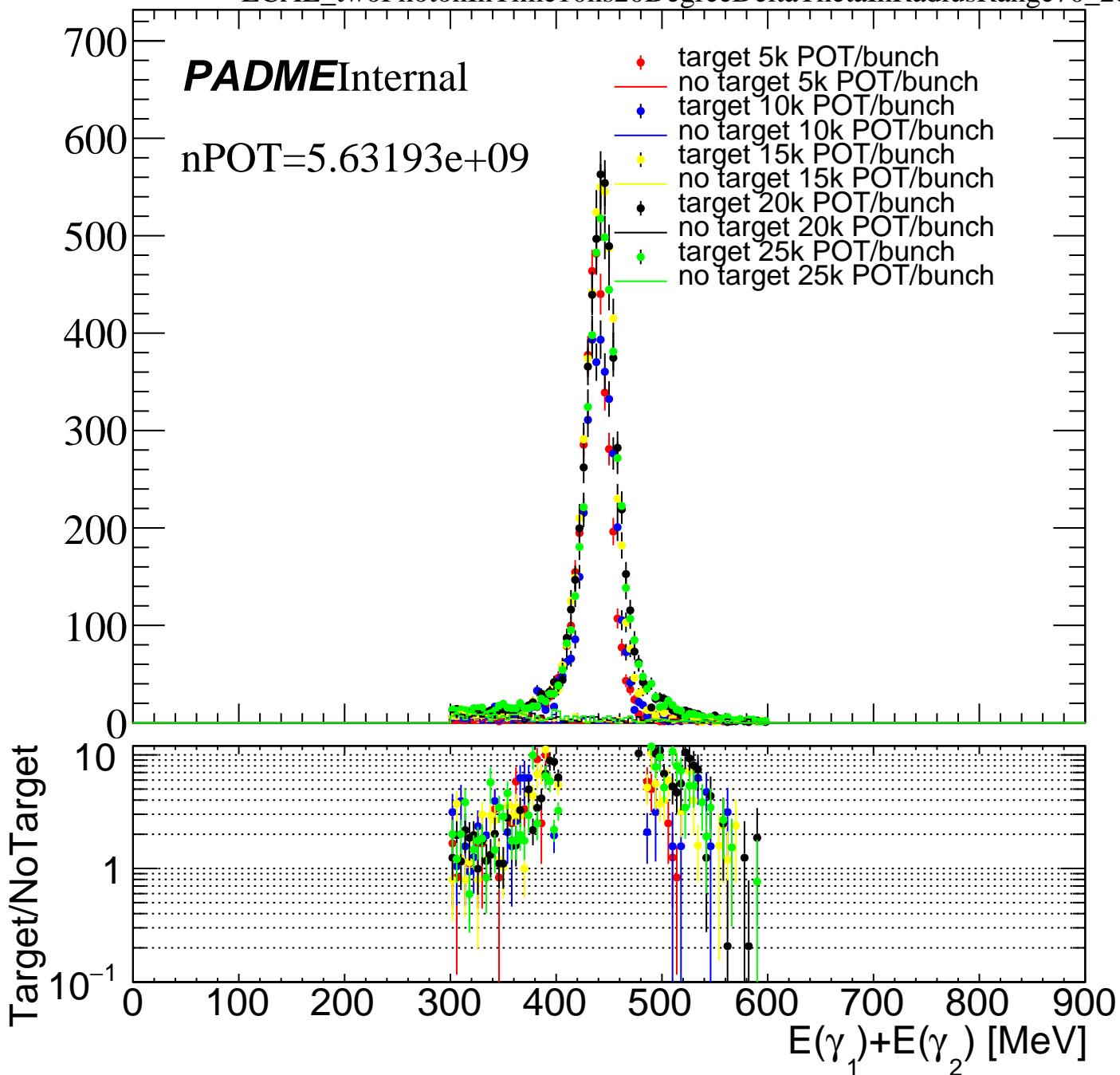




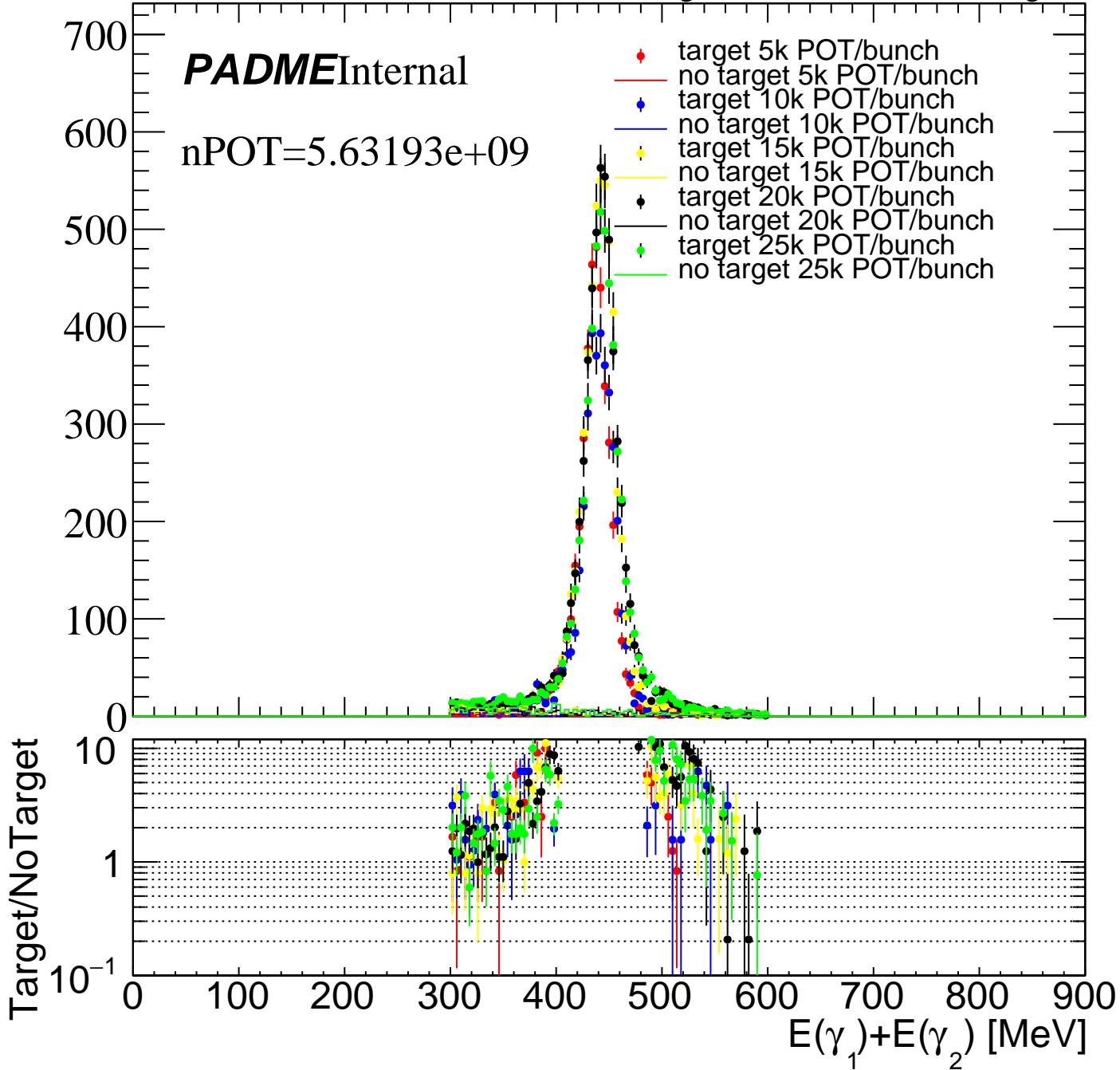


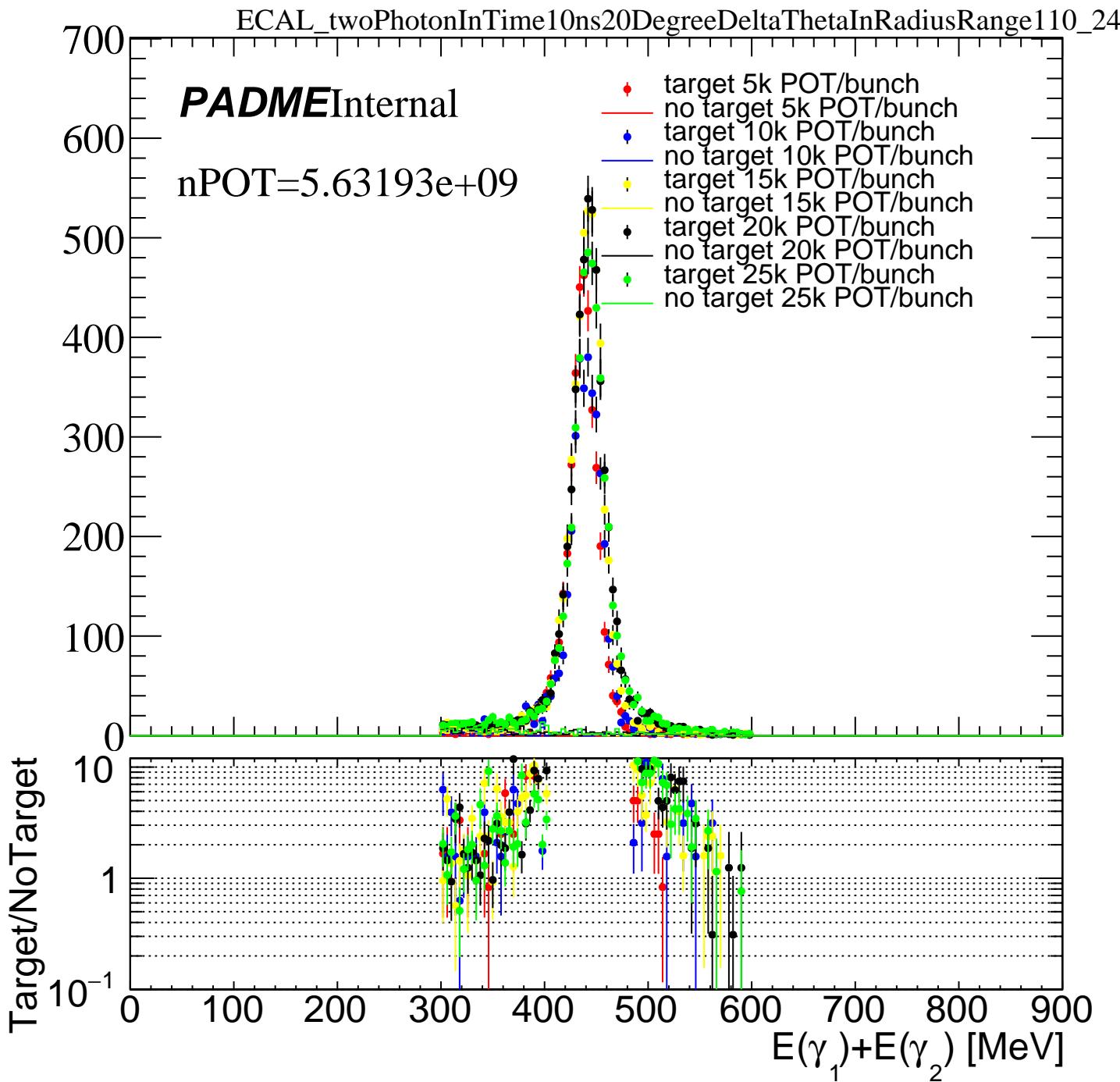


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70\_280

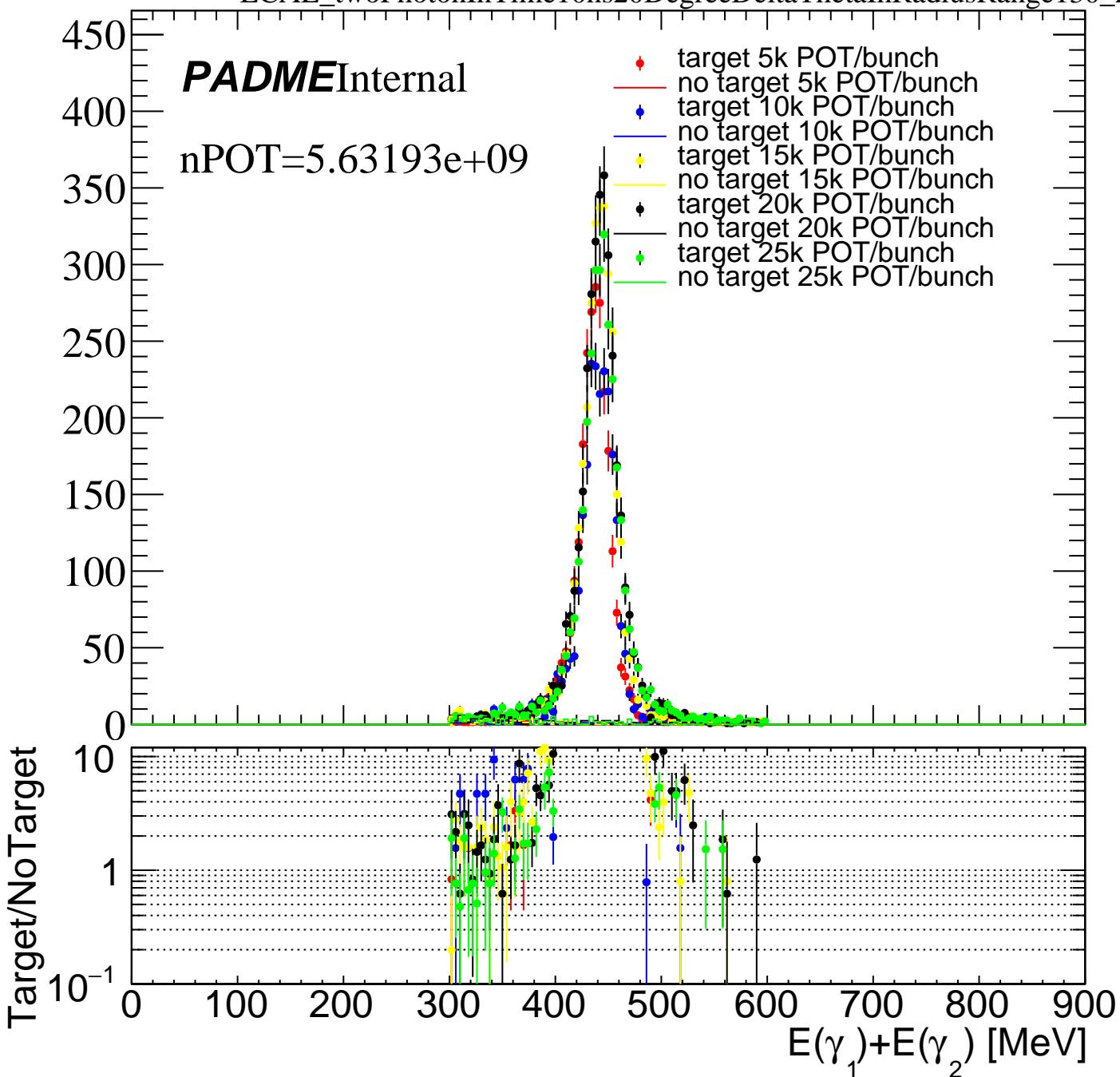


ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90\_260

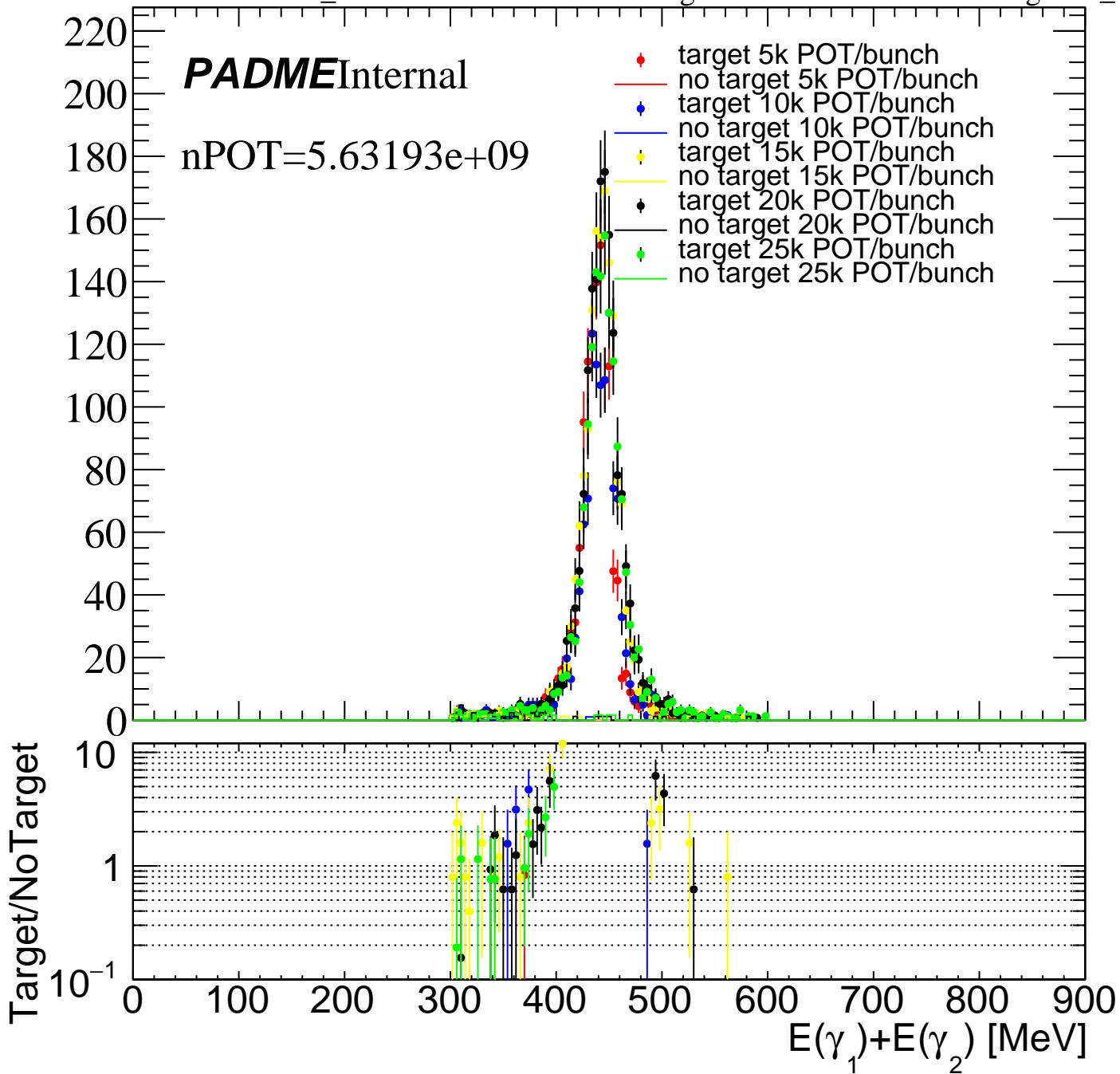




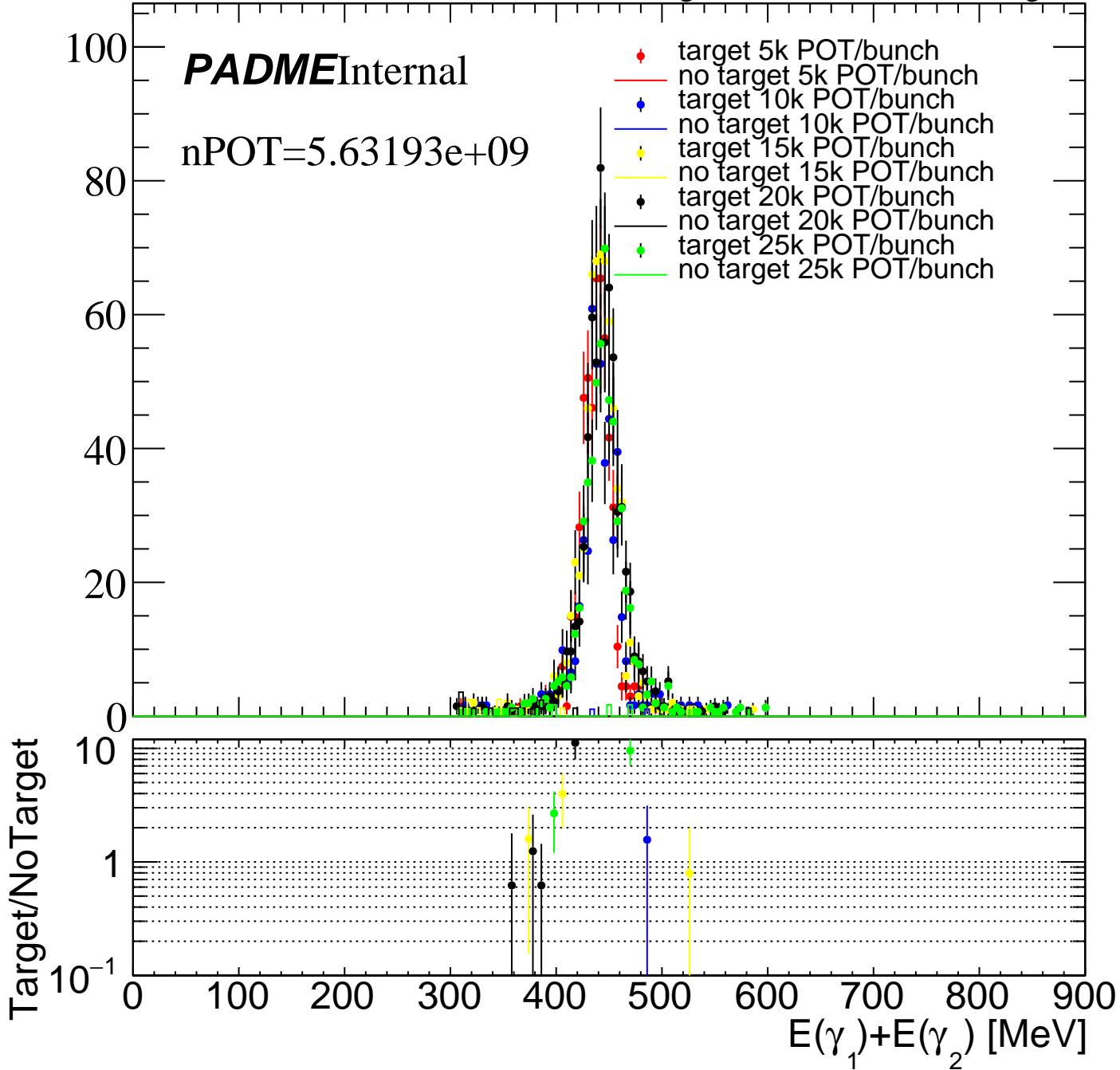
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130\_22



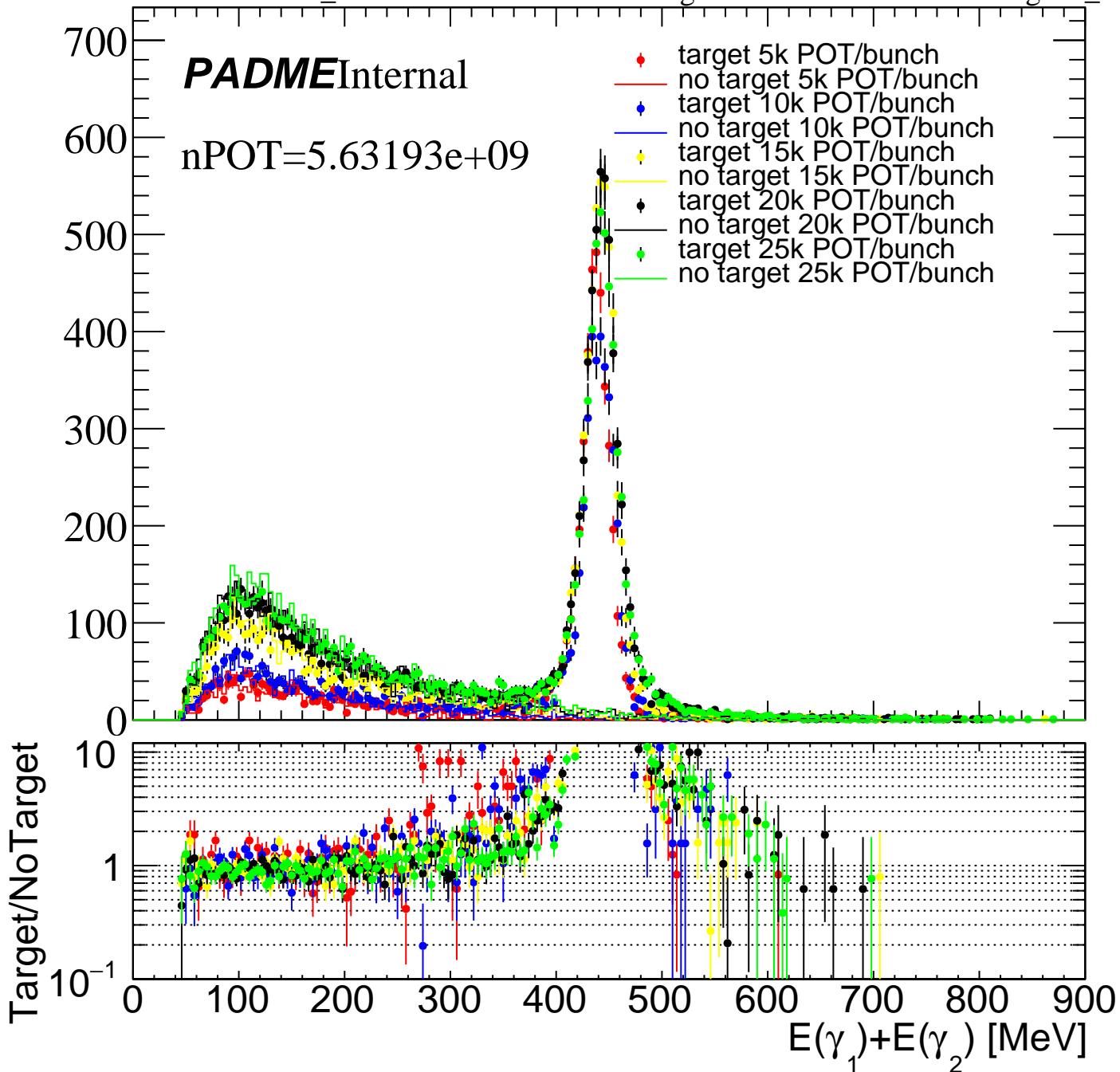
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150\_20



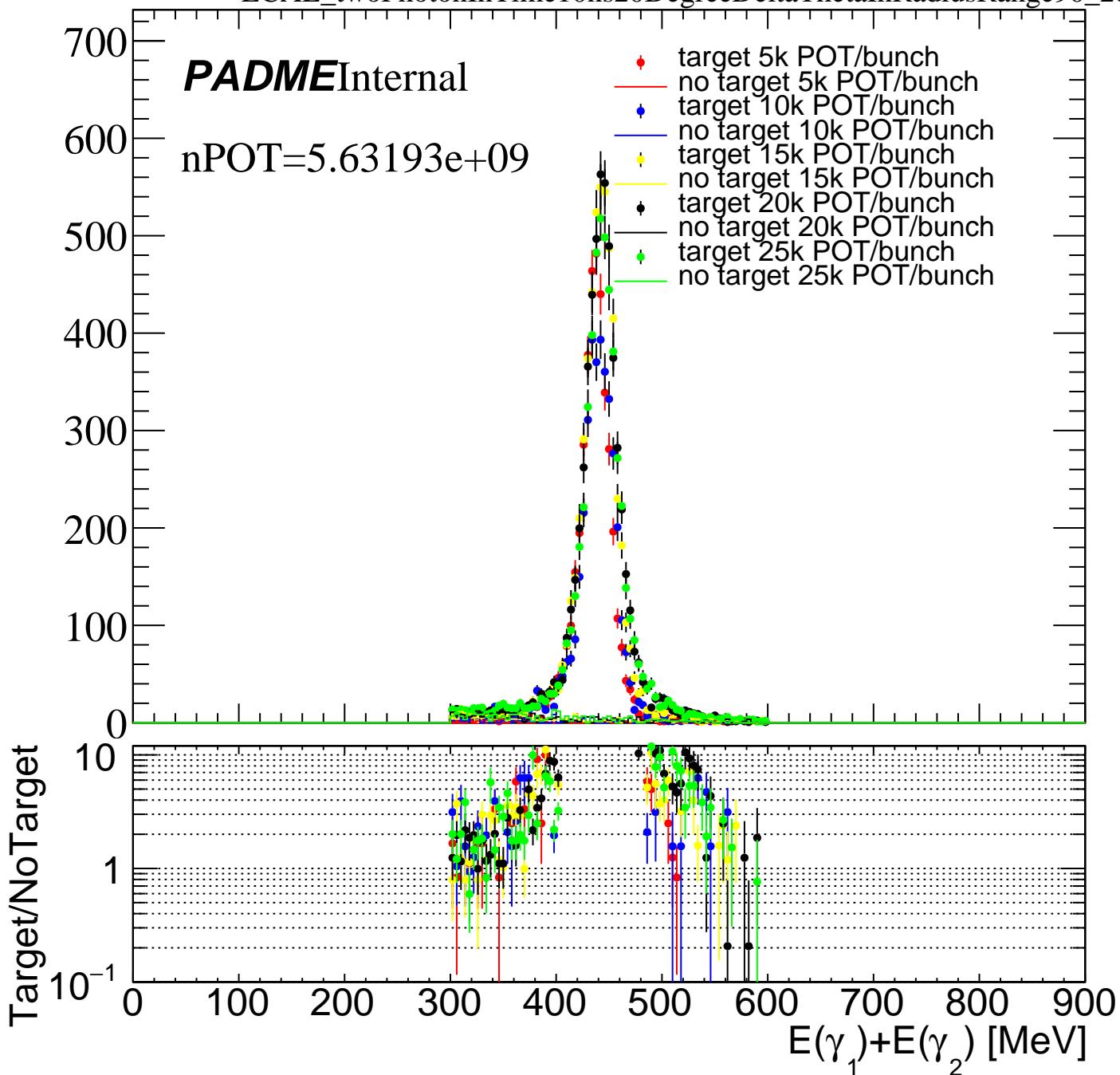
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160\_19

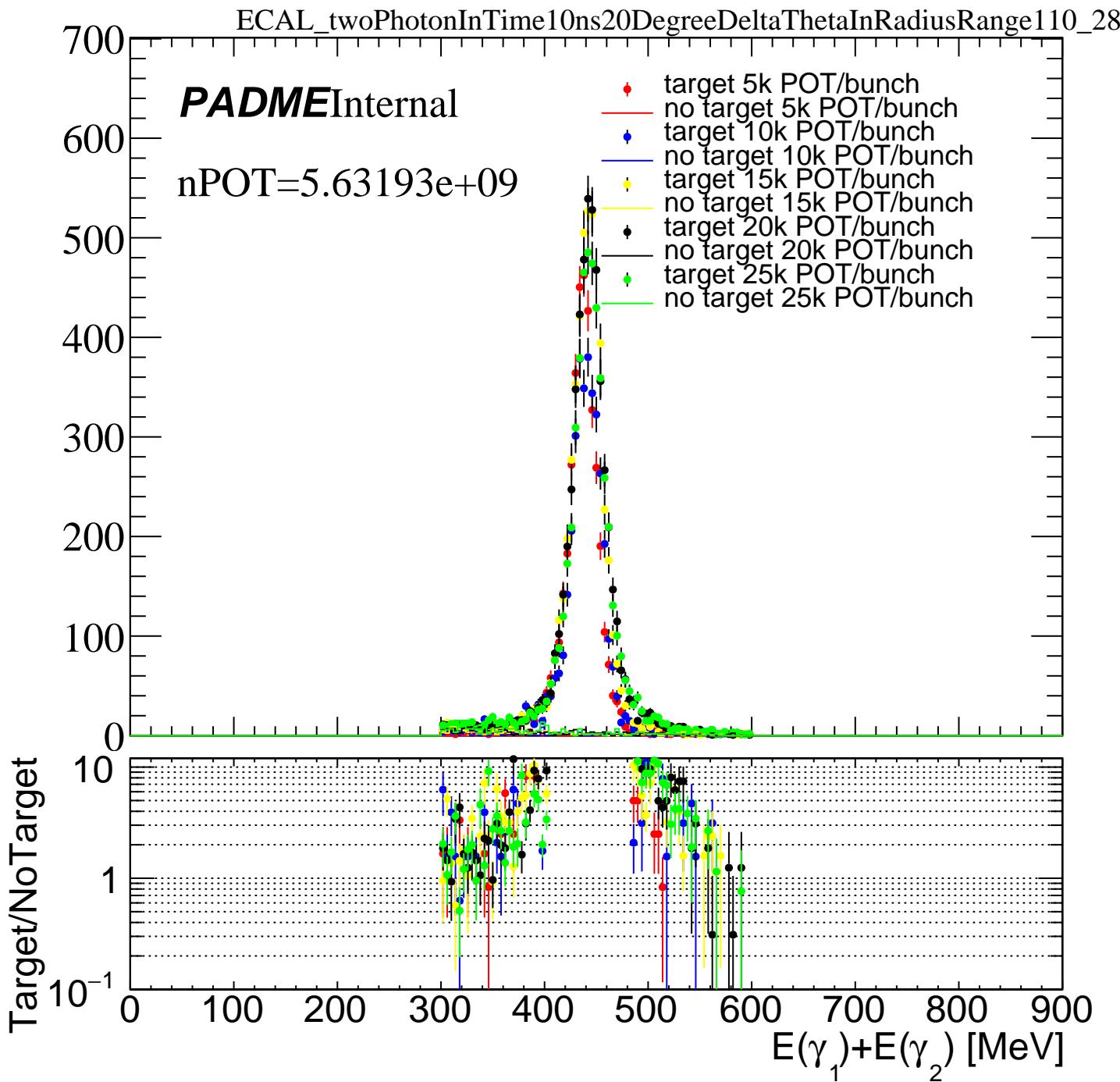


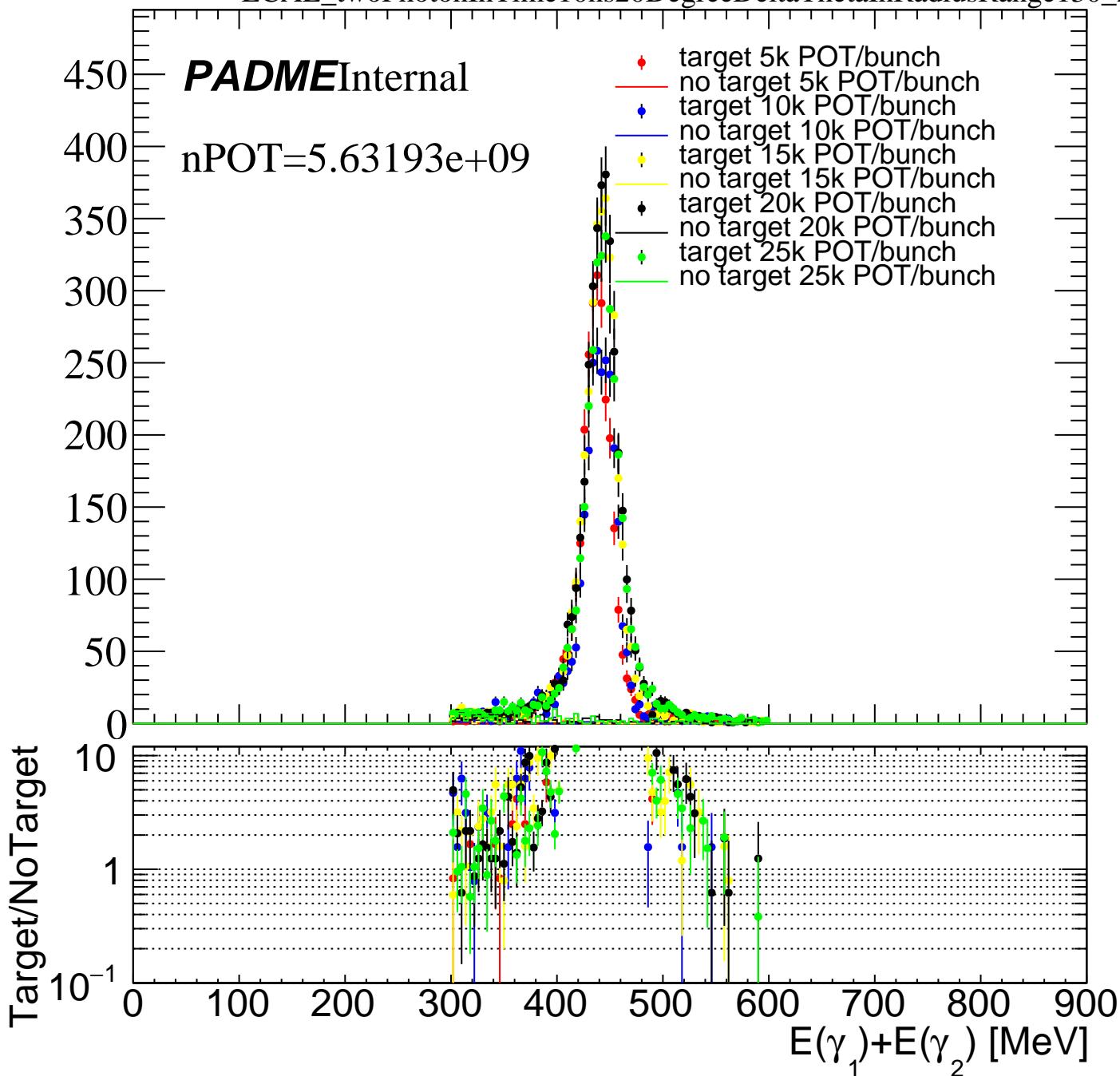
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70\_280

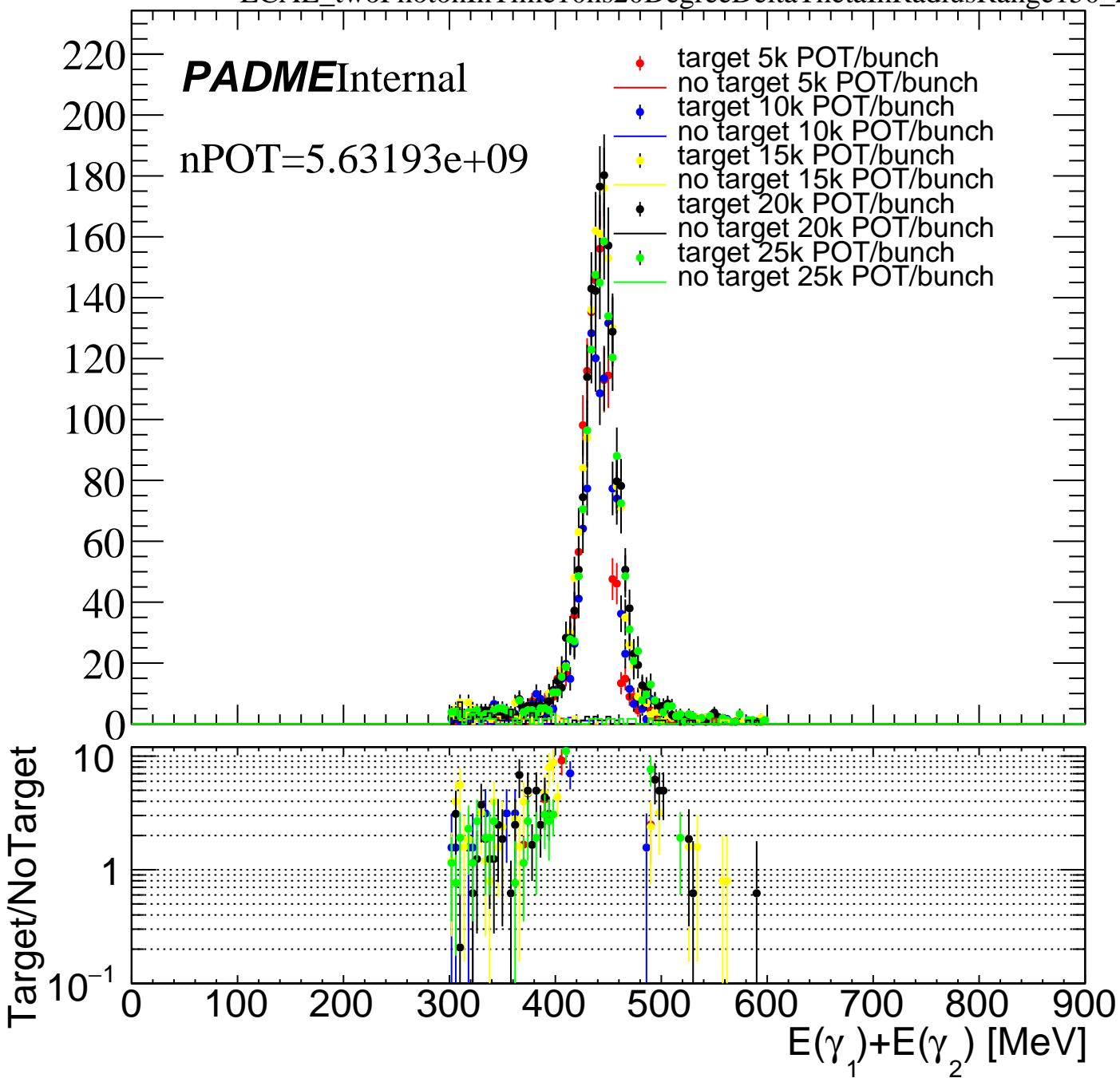


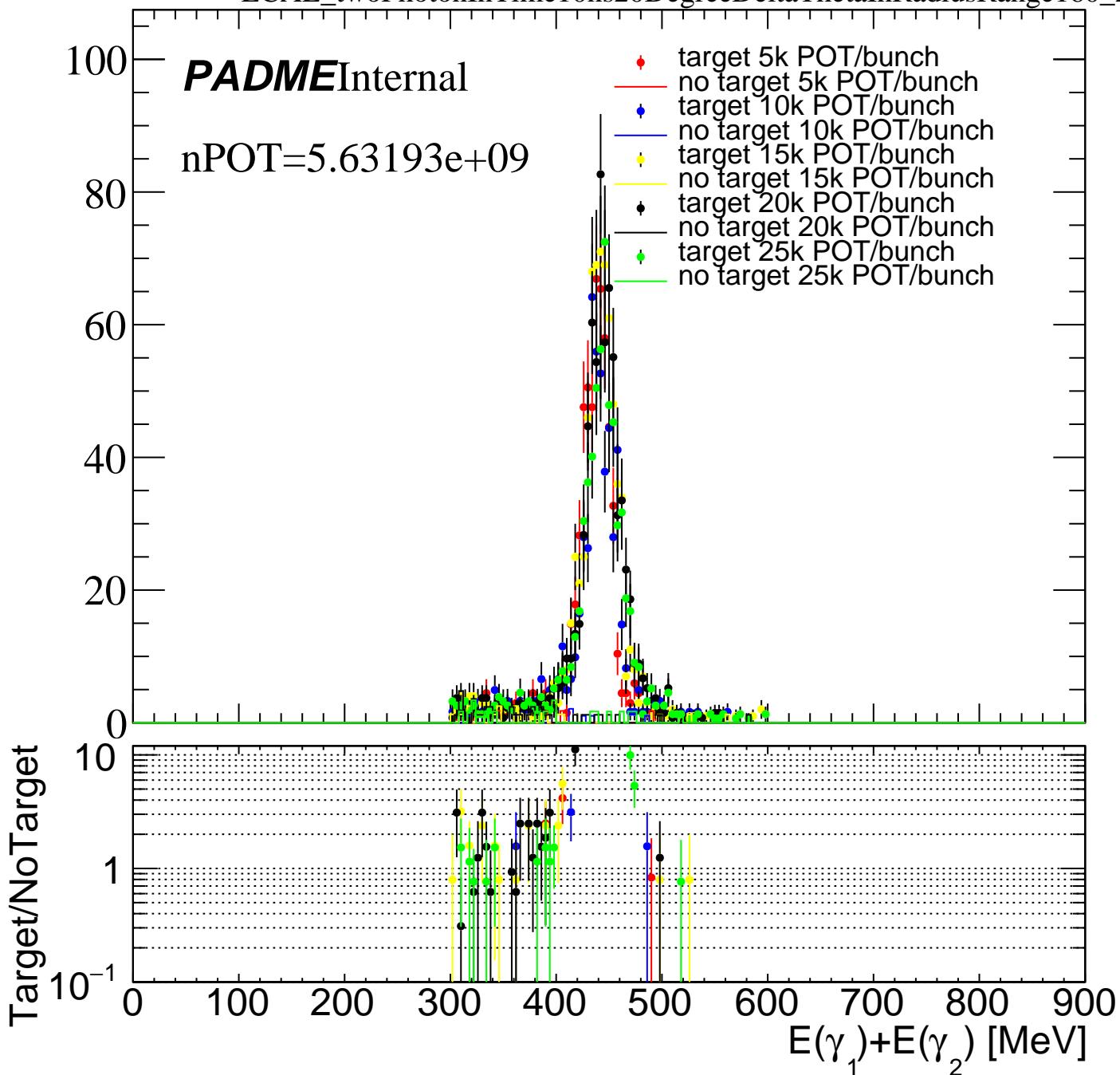
ECAL\_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90\_280



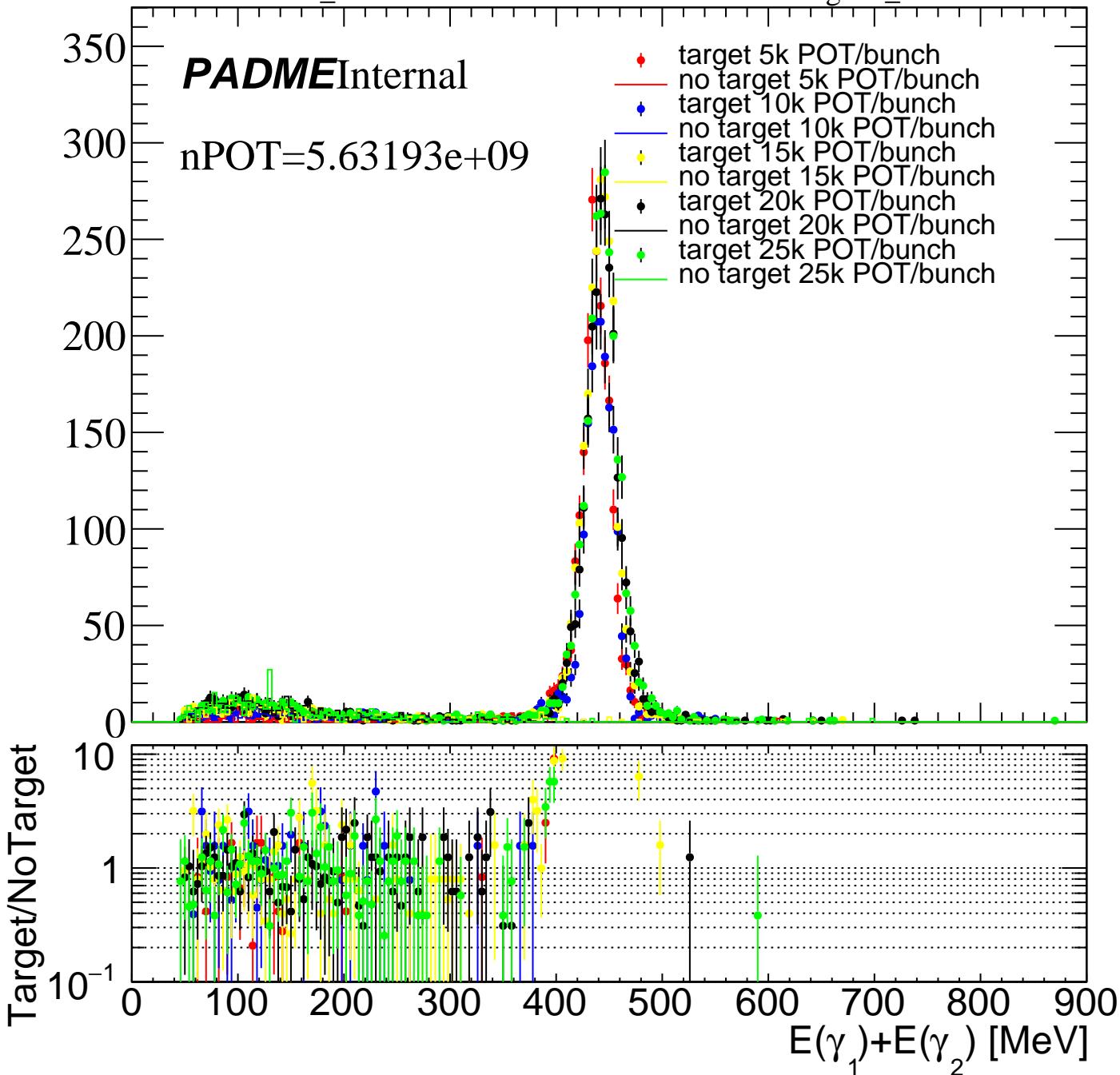




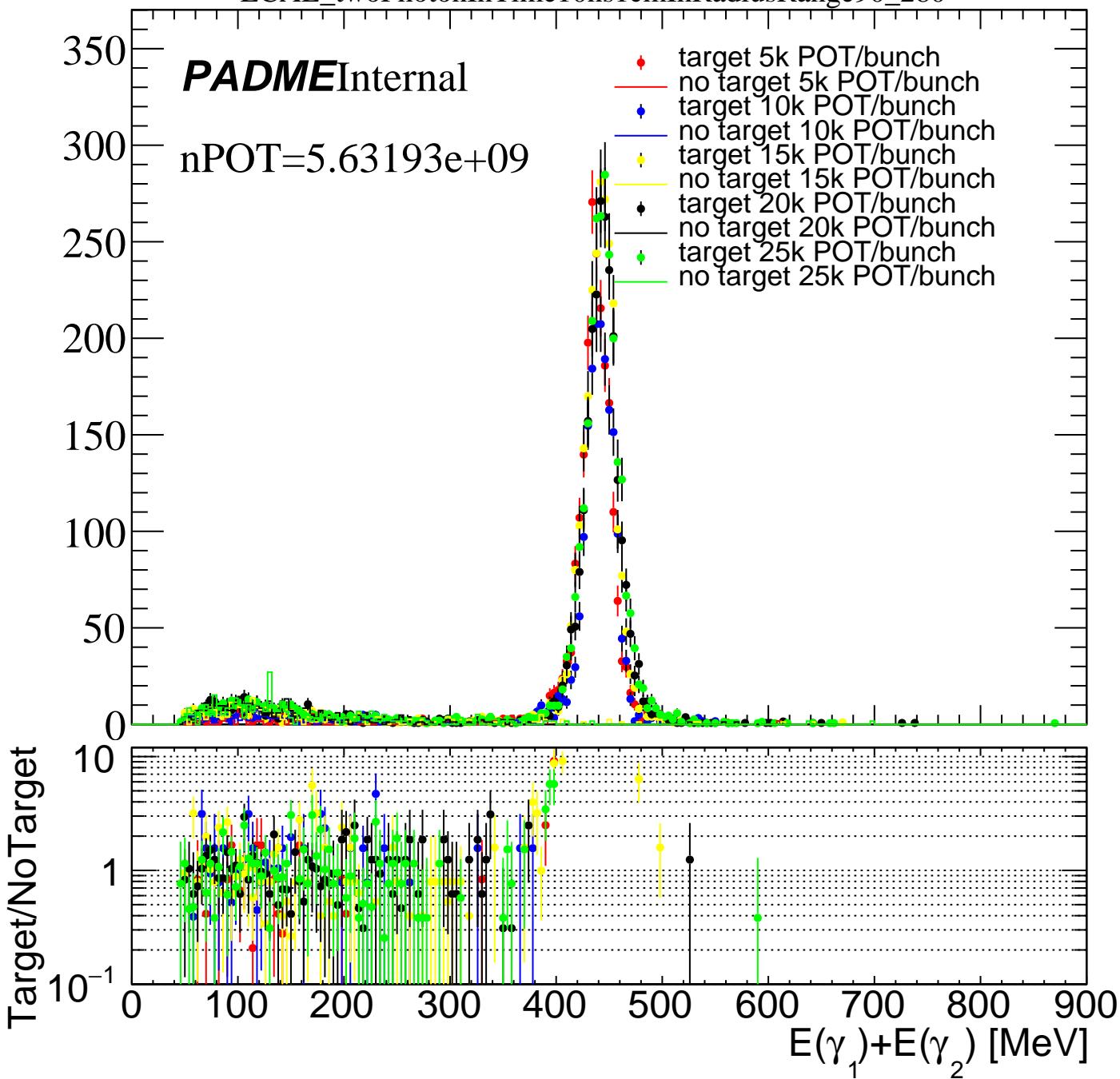




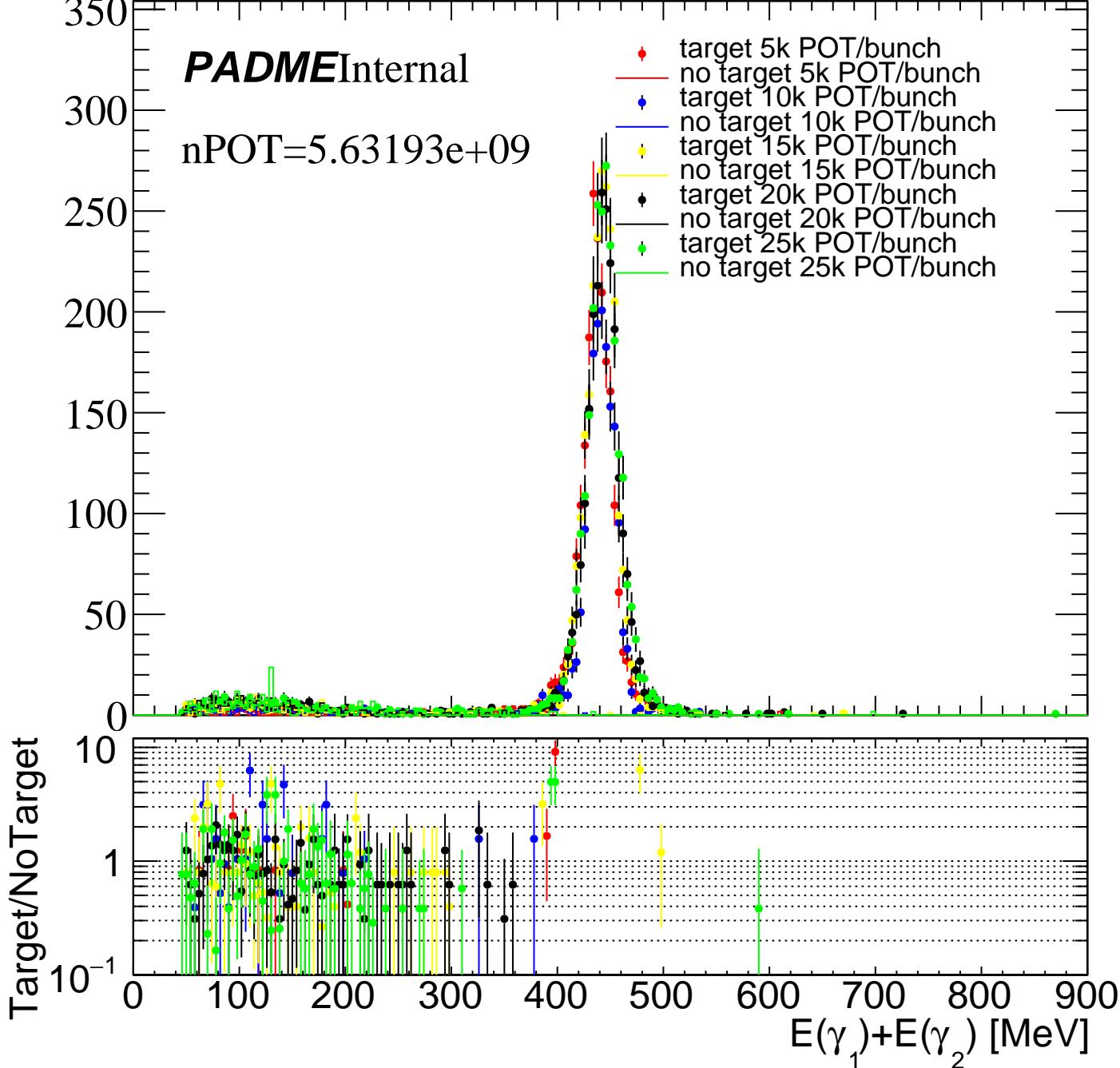
ECAL\_twoPhotonInTime10ns1cmInRadiusRange70\_280



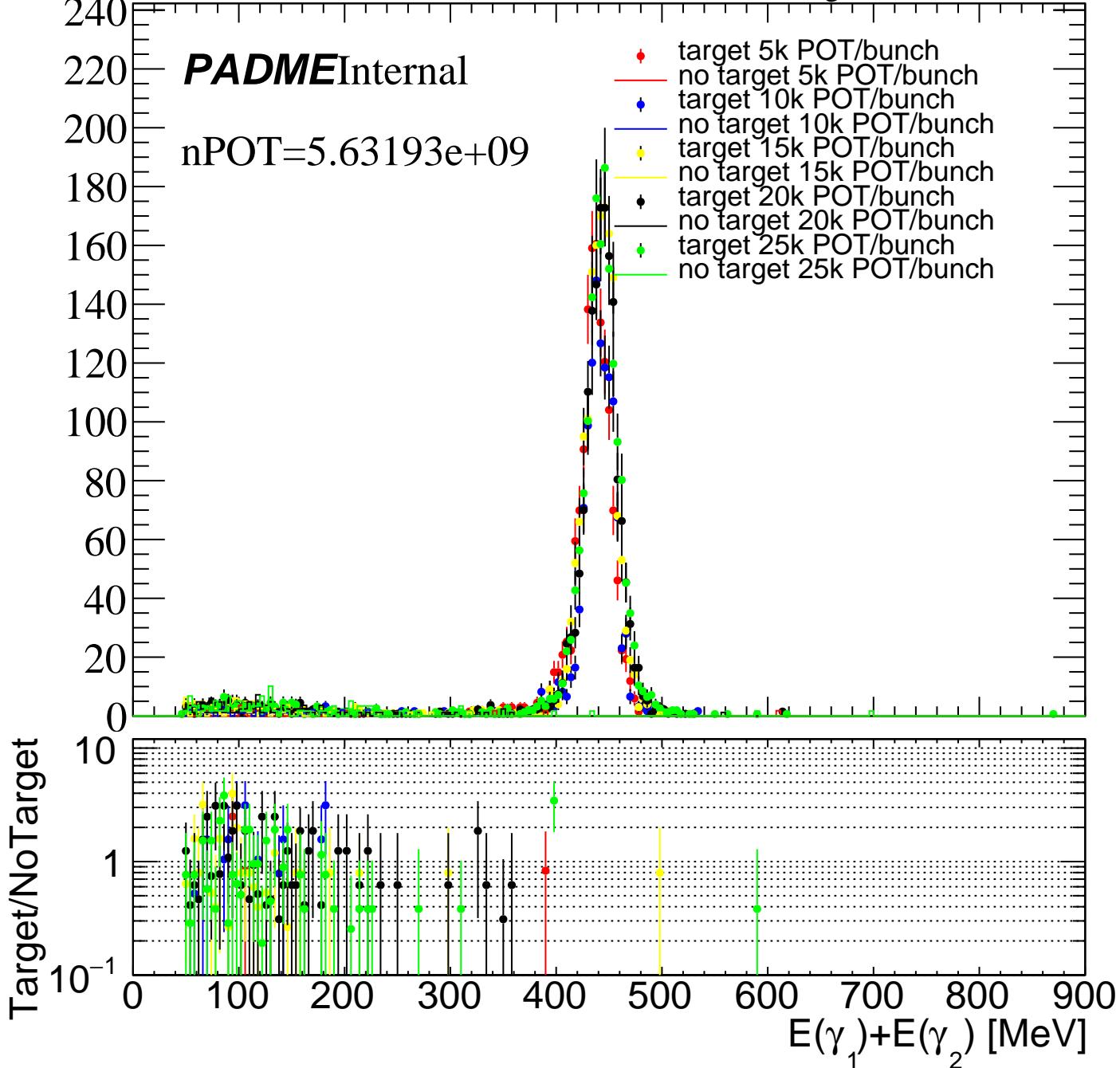
ECAL\_twoPhotonInTime10ns1cmInRadiusRange90\_280



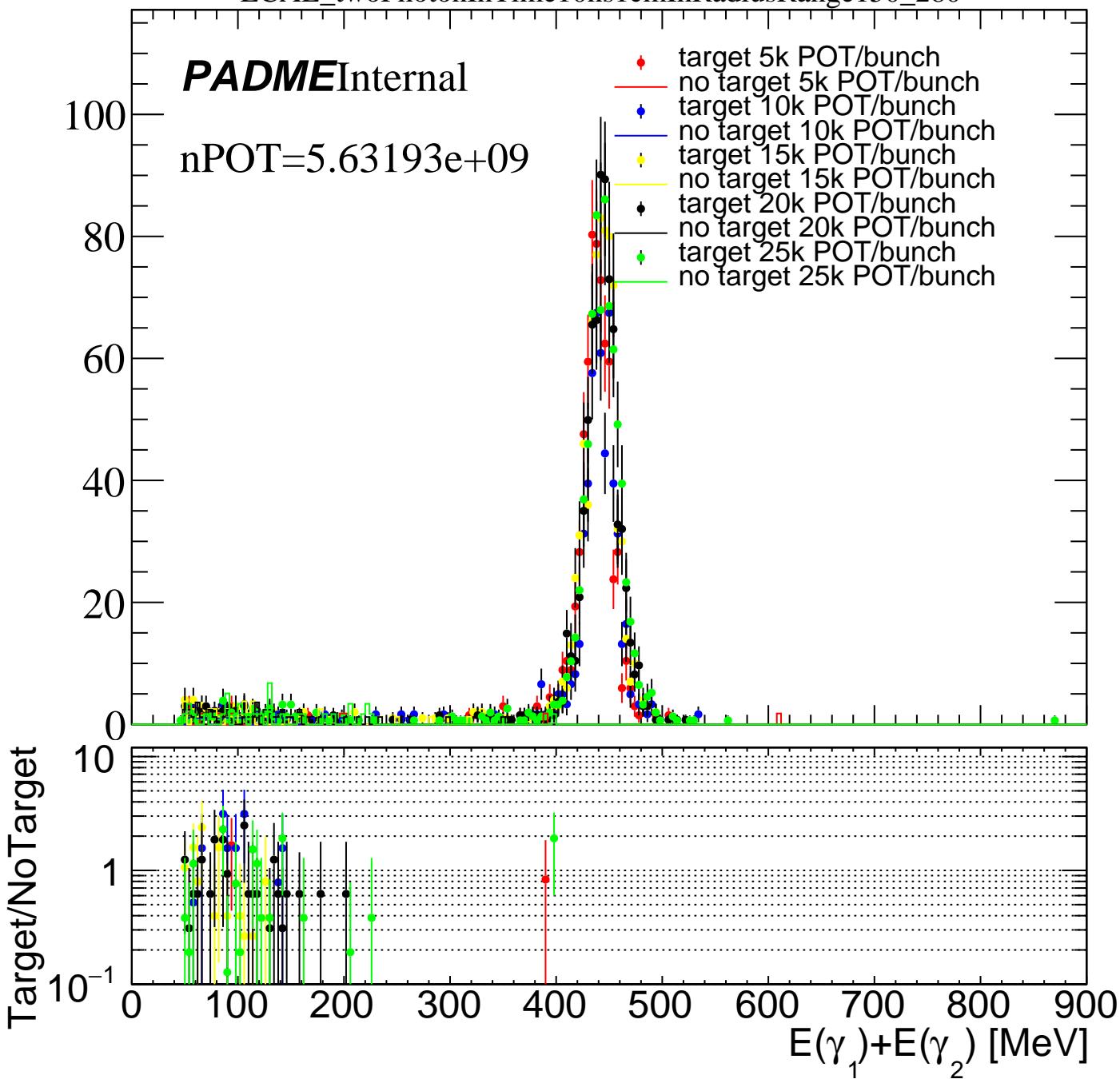
ECAL\_twoPhotonInTime10ns1cmInRadiusRange110\_280



ECAL\_twoPhotonInTime10ns1cmInRadiusRange130\_280



ECAL\_twoPhotonInTime10ns1cmInRadiusRange150\_280



ECAL\_twoPhotonInTime10ns1cmInRadiusRange160\_280

50

***PADME***Internal

nPOT=5.63193e+09

- target 5k POT/bunch
- no target 5k POT/bunch
- target 10k POT/bunch
- no target 10k POT/bunch
- target 15k POT/bunch
- no target 15k POT/bunch
- target 20k POT/bunch
- no target 20k POT/bunch
- target 25k POT/bunch
- no target 25k POT/bunch

30

20

10

0

Target/NoTarget

10

1

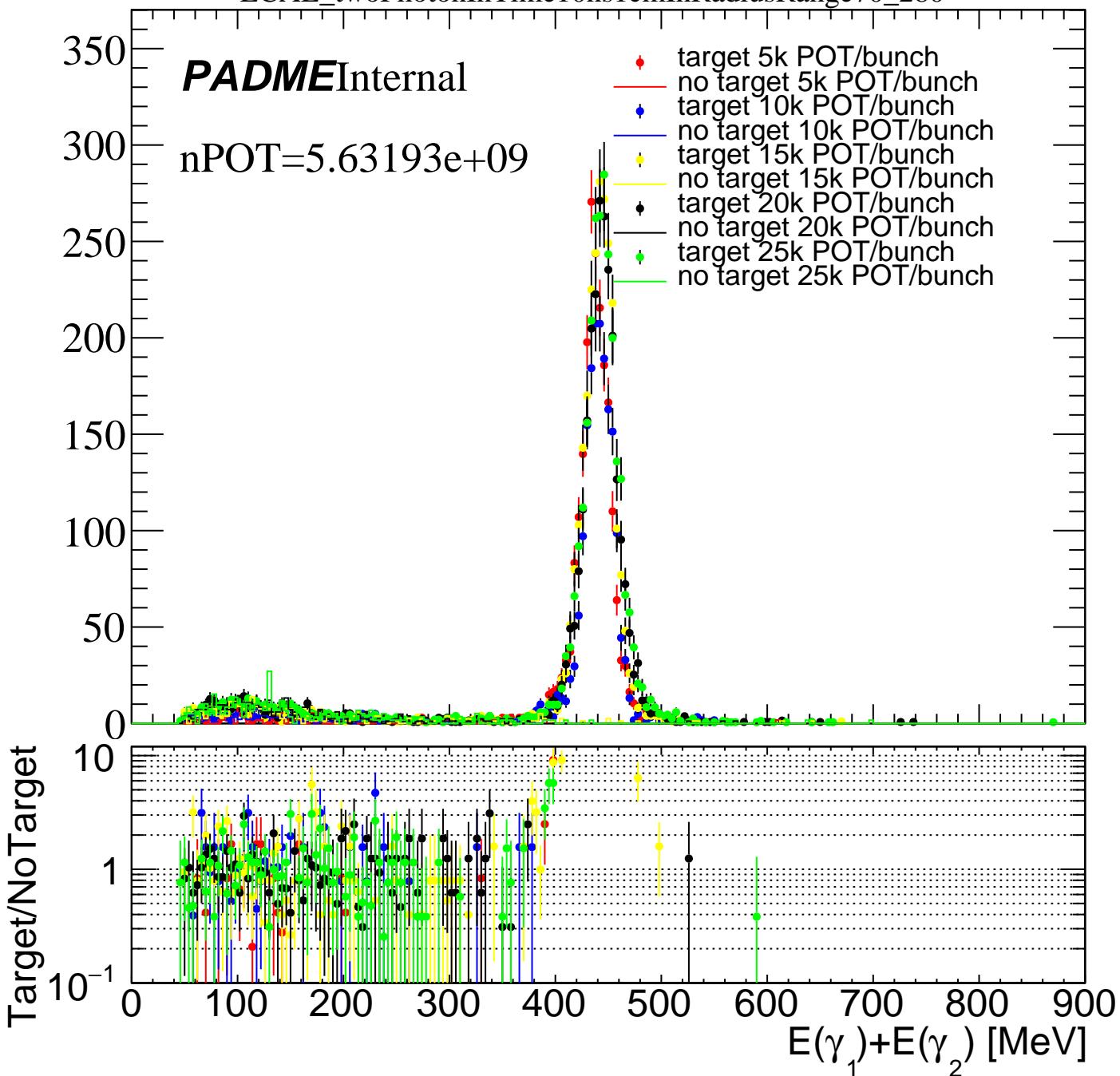
10<sup>-1</sup>

0 100 200 300 400 500 600 700 800 900

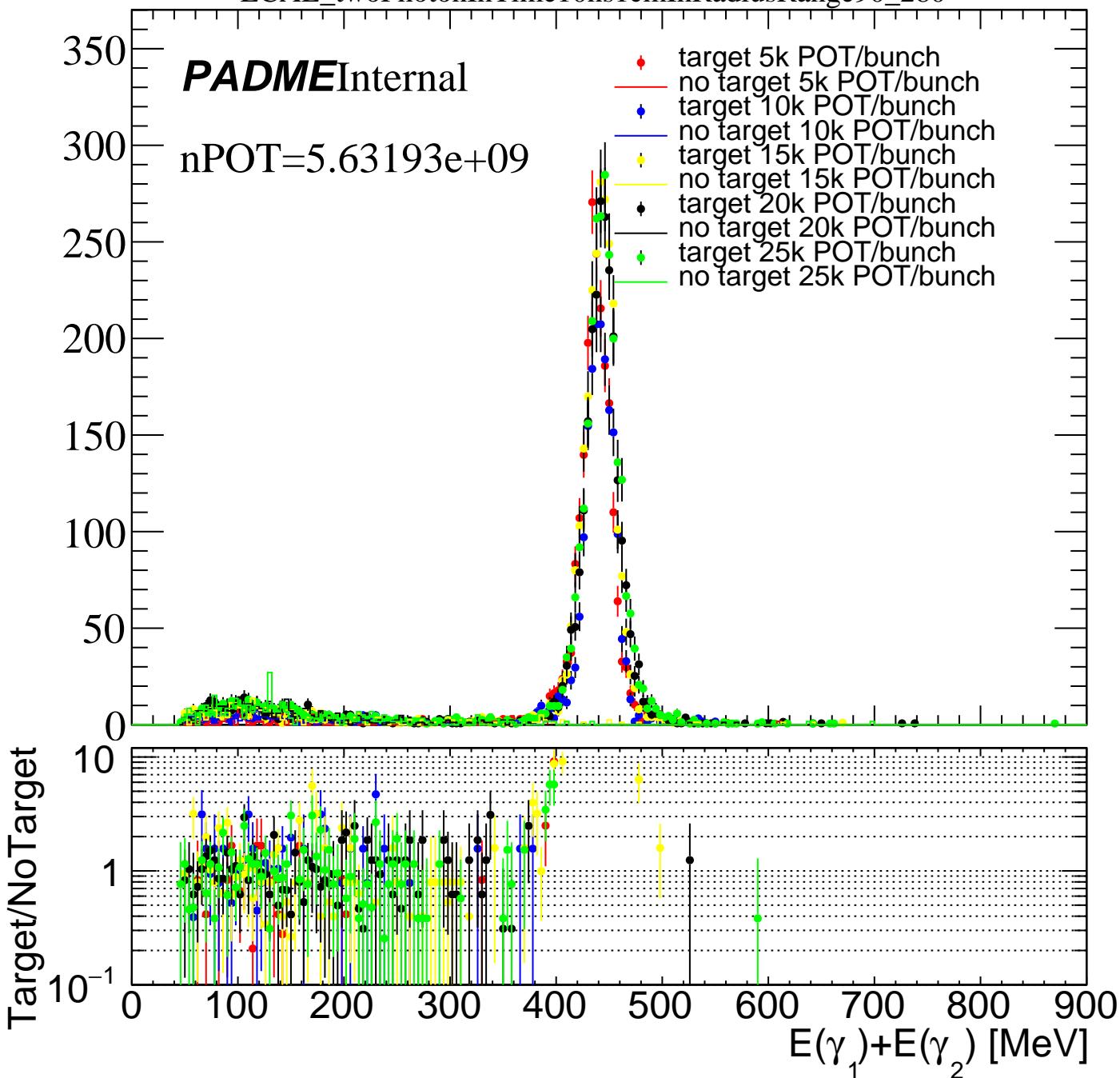
$E(\gamma_1) + E(\gamma_2)$  [MeV]

$E(\gamma_1) + E(\gamma_2)$  [MeV]

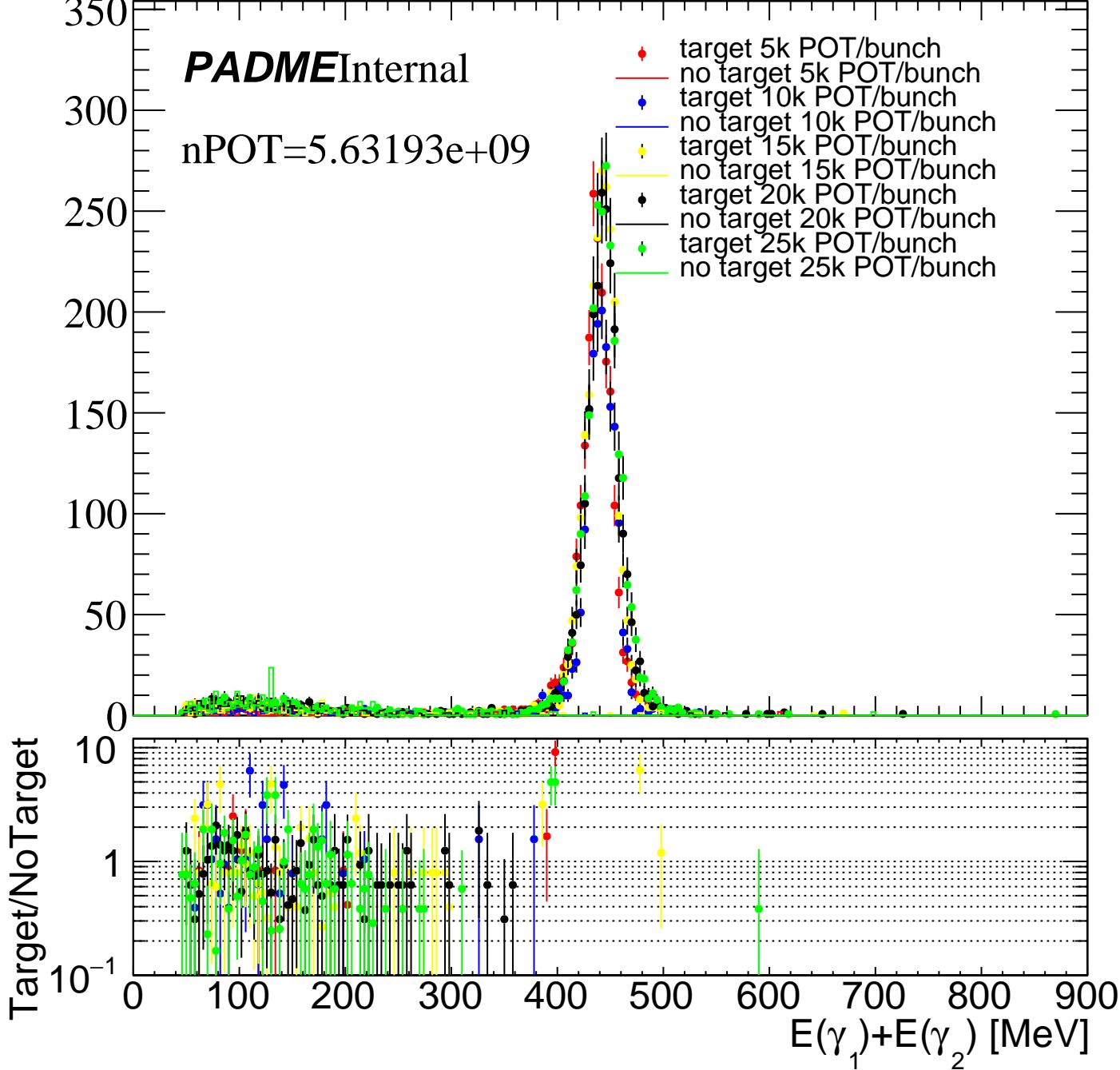
ECAL\_twoPhotonInTime10ns1cmInRadiusRange70\_280



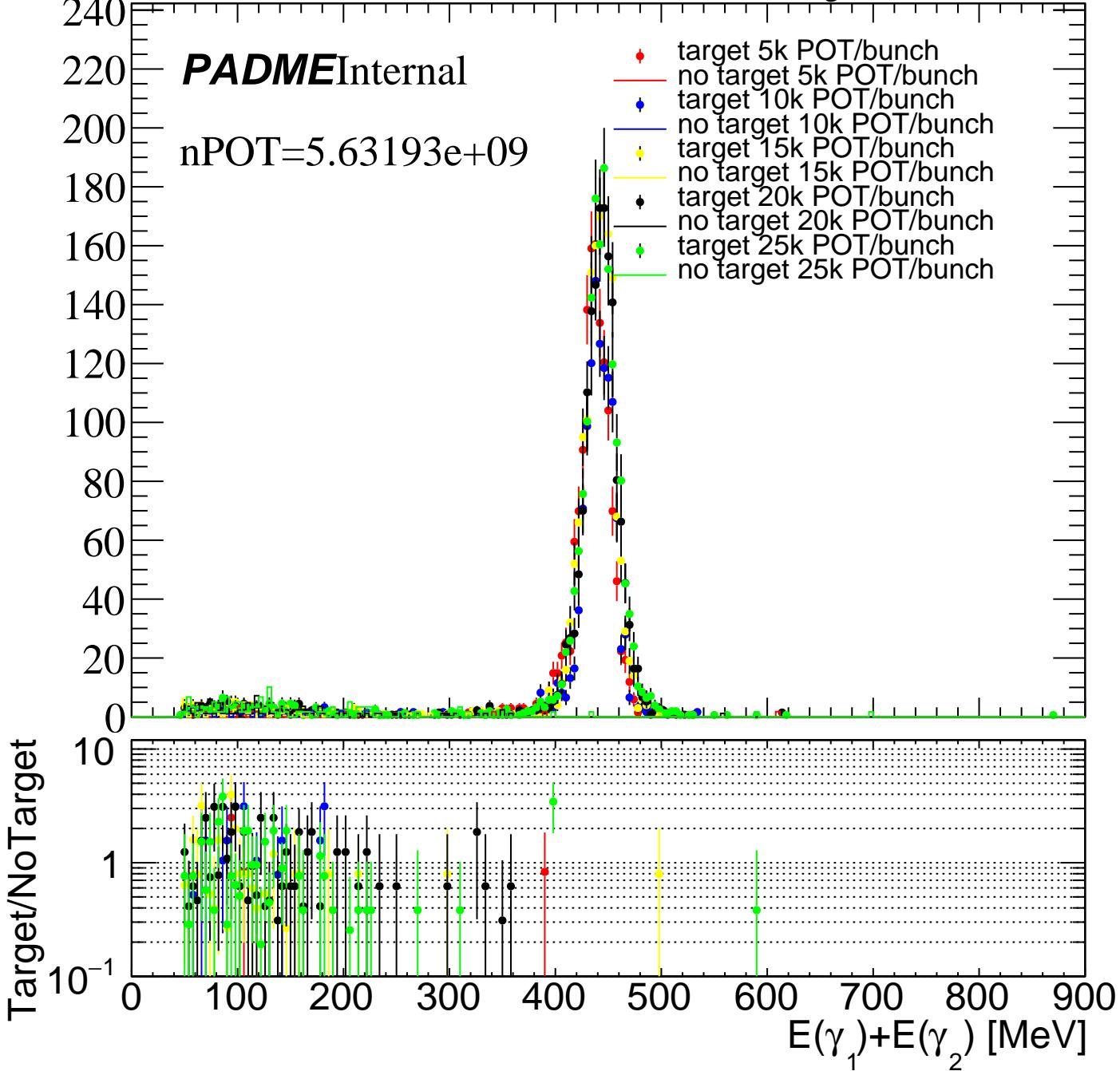
ECAL\_twoPhotonInTime10ns1cmInRadiusRange90\_280



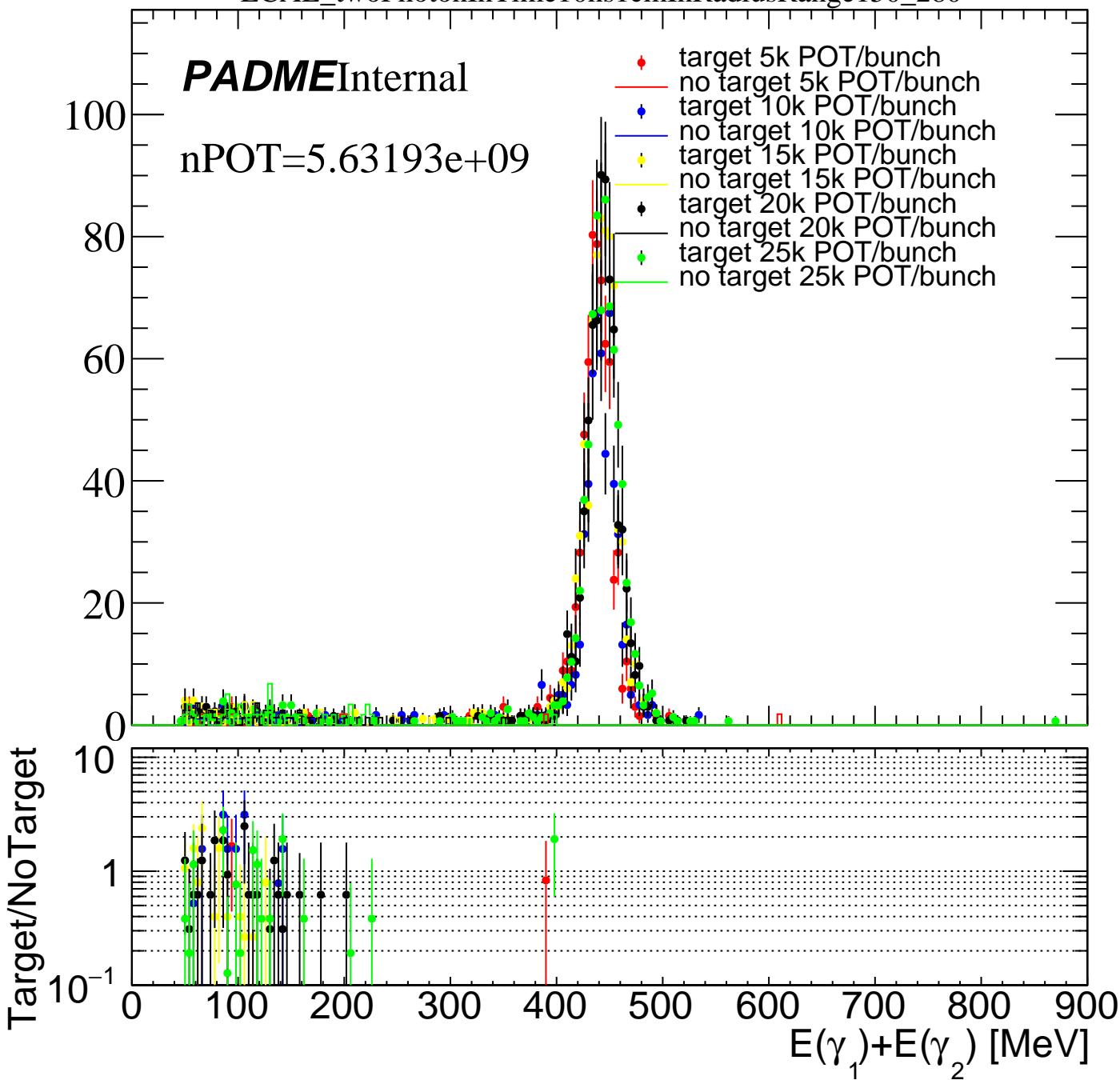
ECAL\_twoPhotonInTime10ns1cmInRadiusRange110\_280



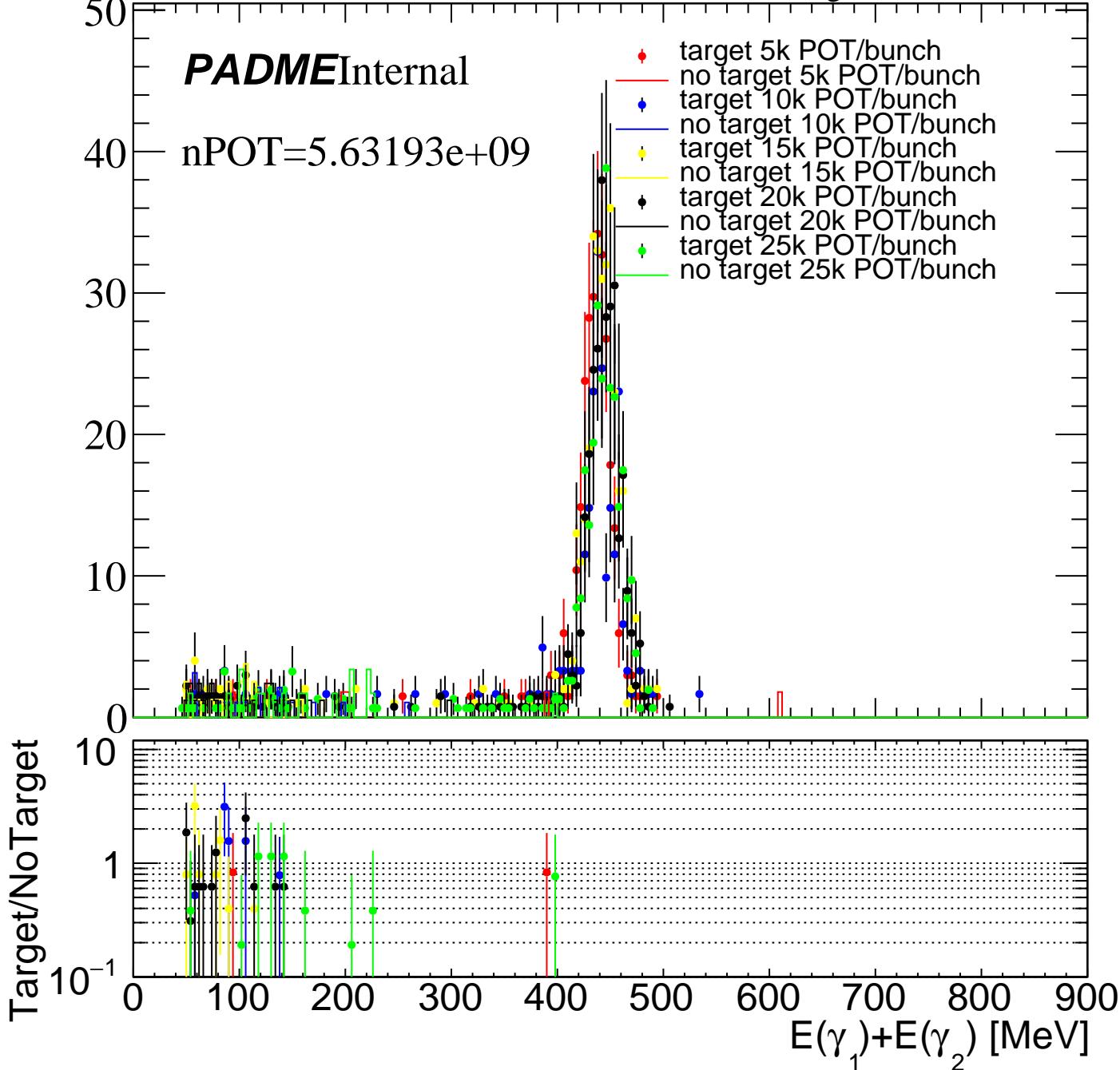
ECAL\_twoPhotonInTime10ns1cmInRadiusRange130\_280



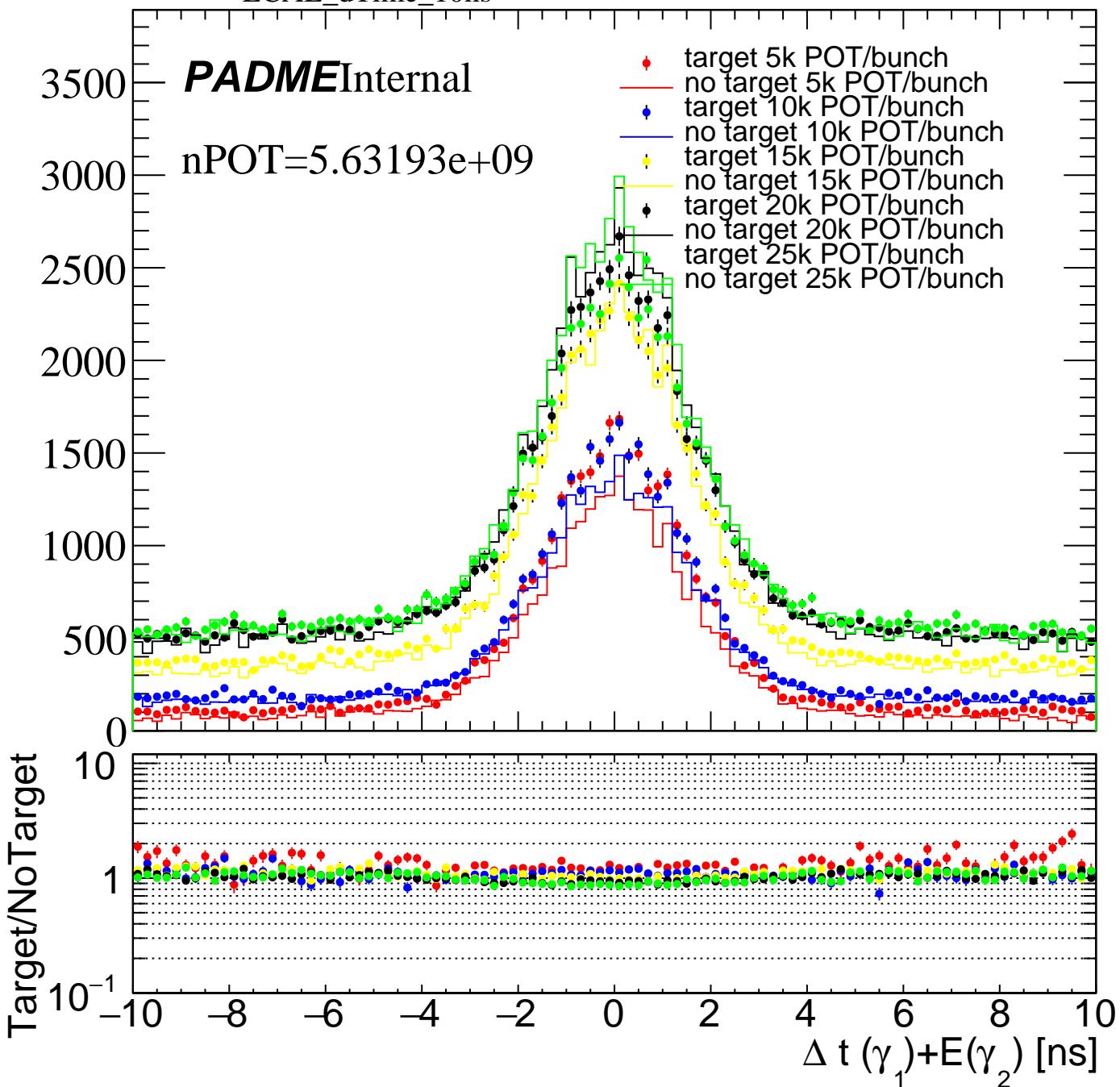
ECAL\_twoPhotonInTime10ns1cmInRadiusRange150\_280



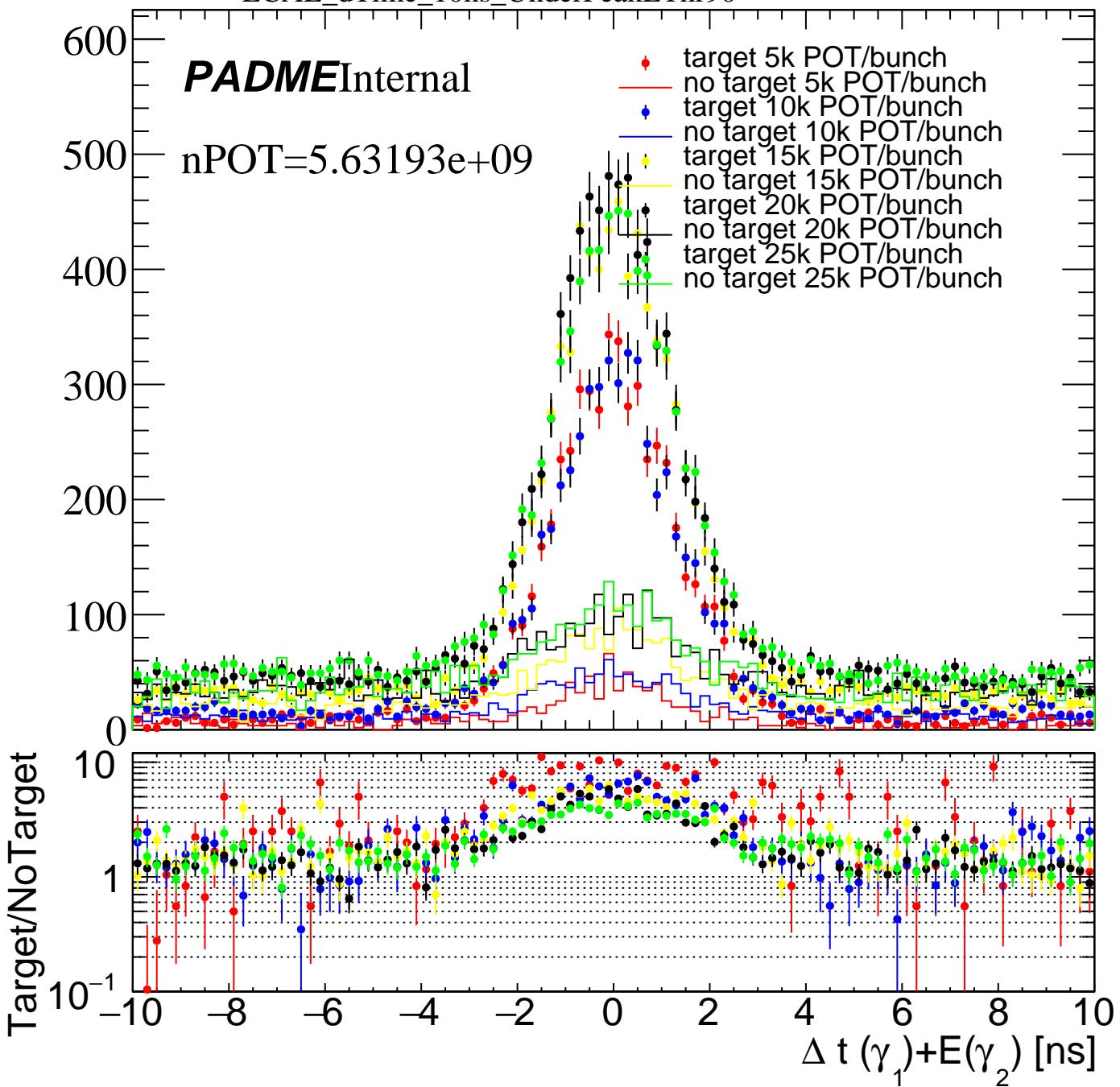
ECAL\_twoPhotonInTime10ns1cmInRadiusRange160\_280

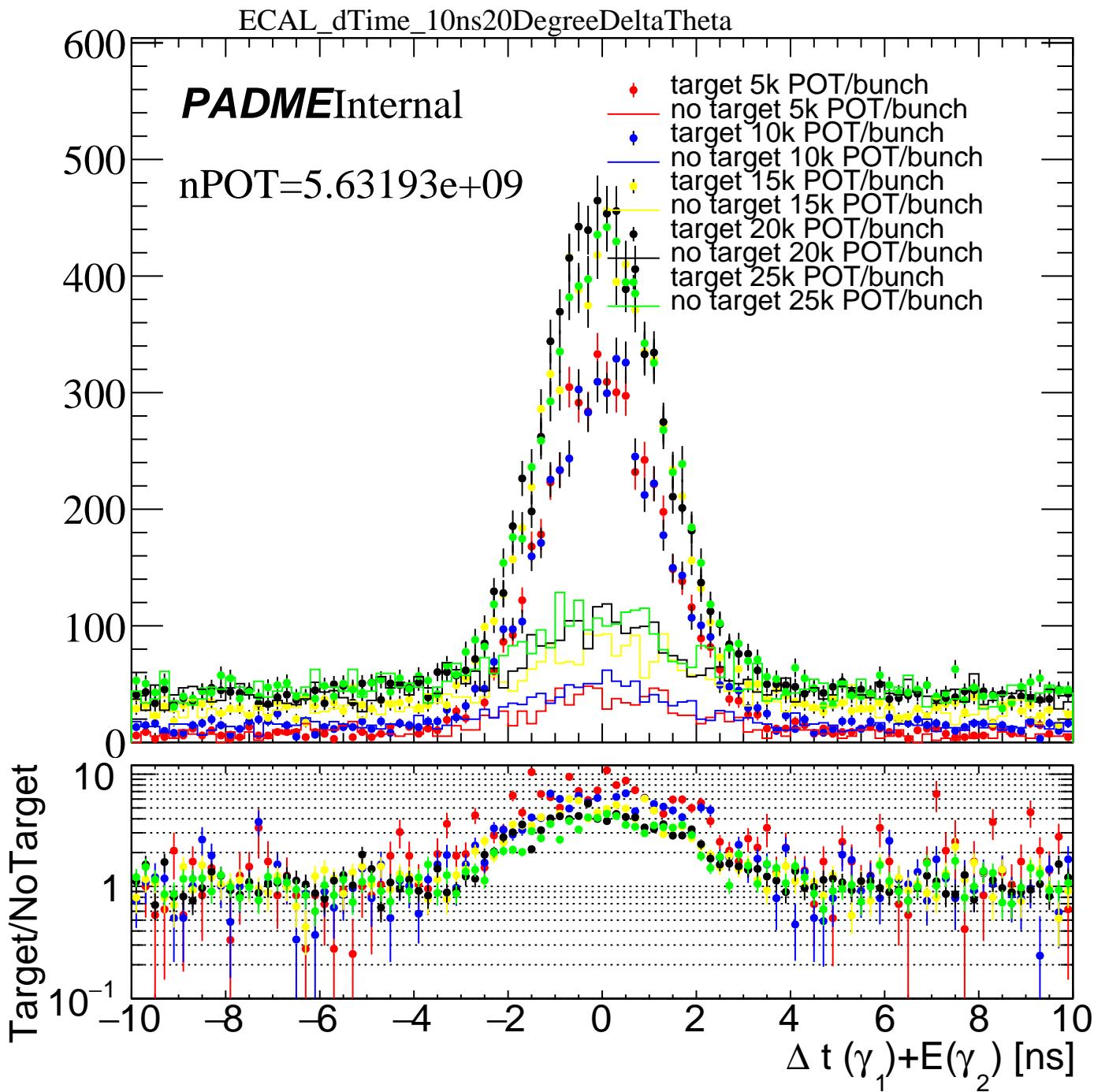


ECAL\_dTime\_10ns

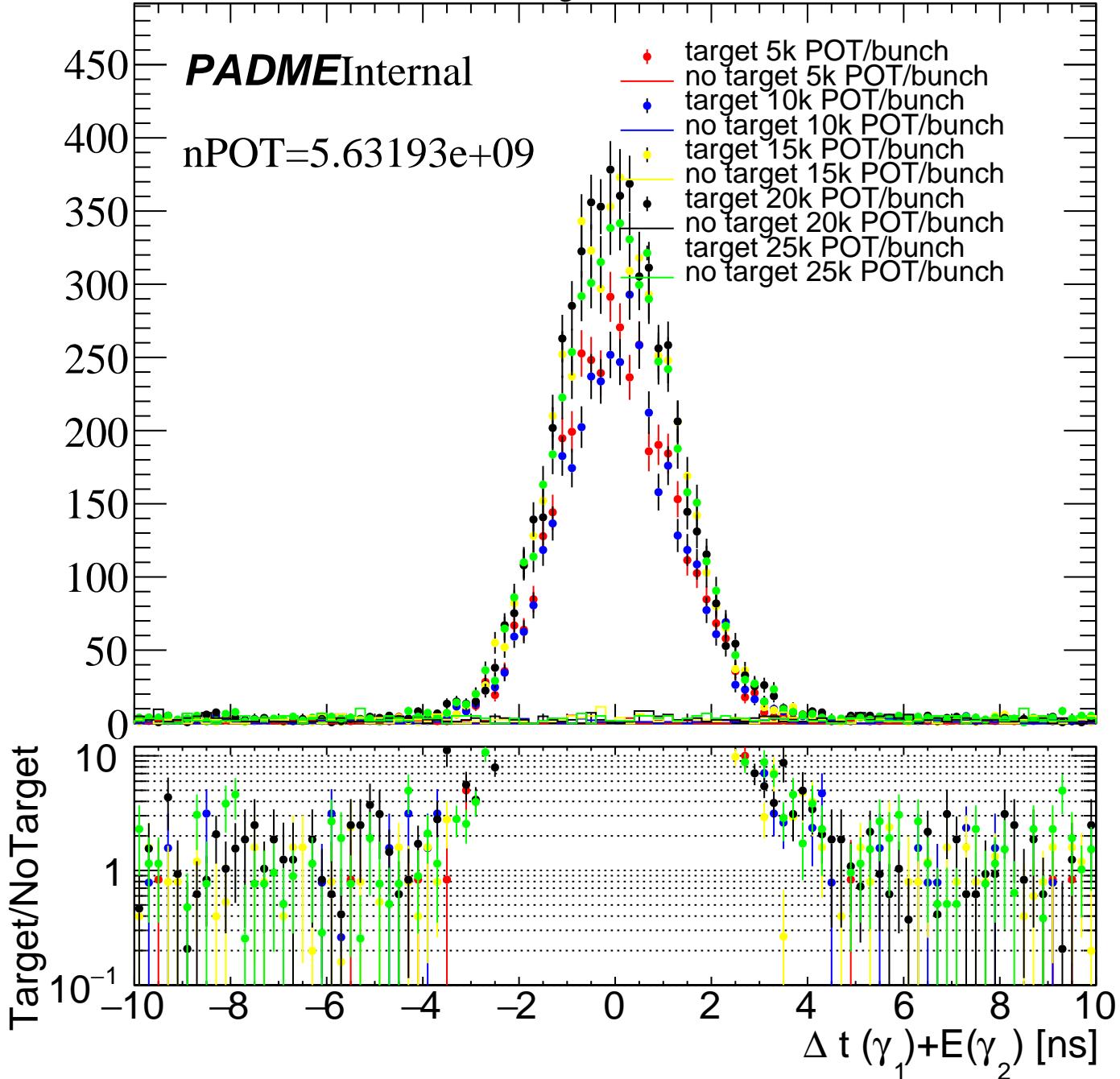


ECAL\_dTime\_10ns\_UnderPeakETHr90

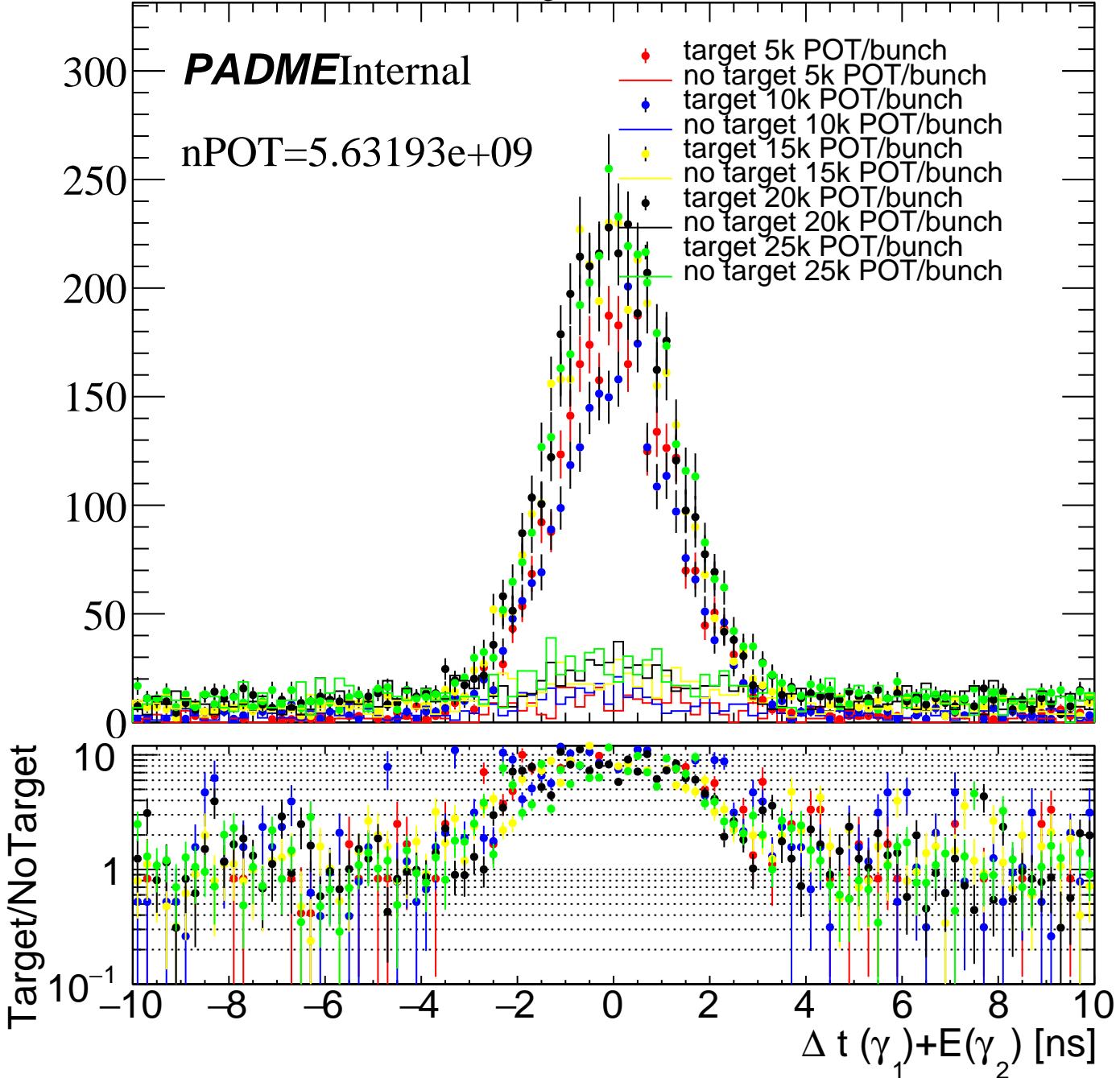




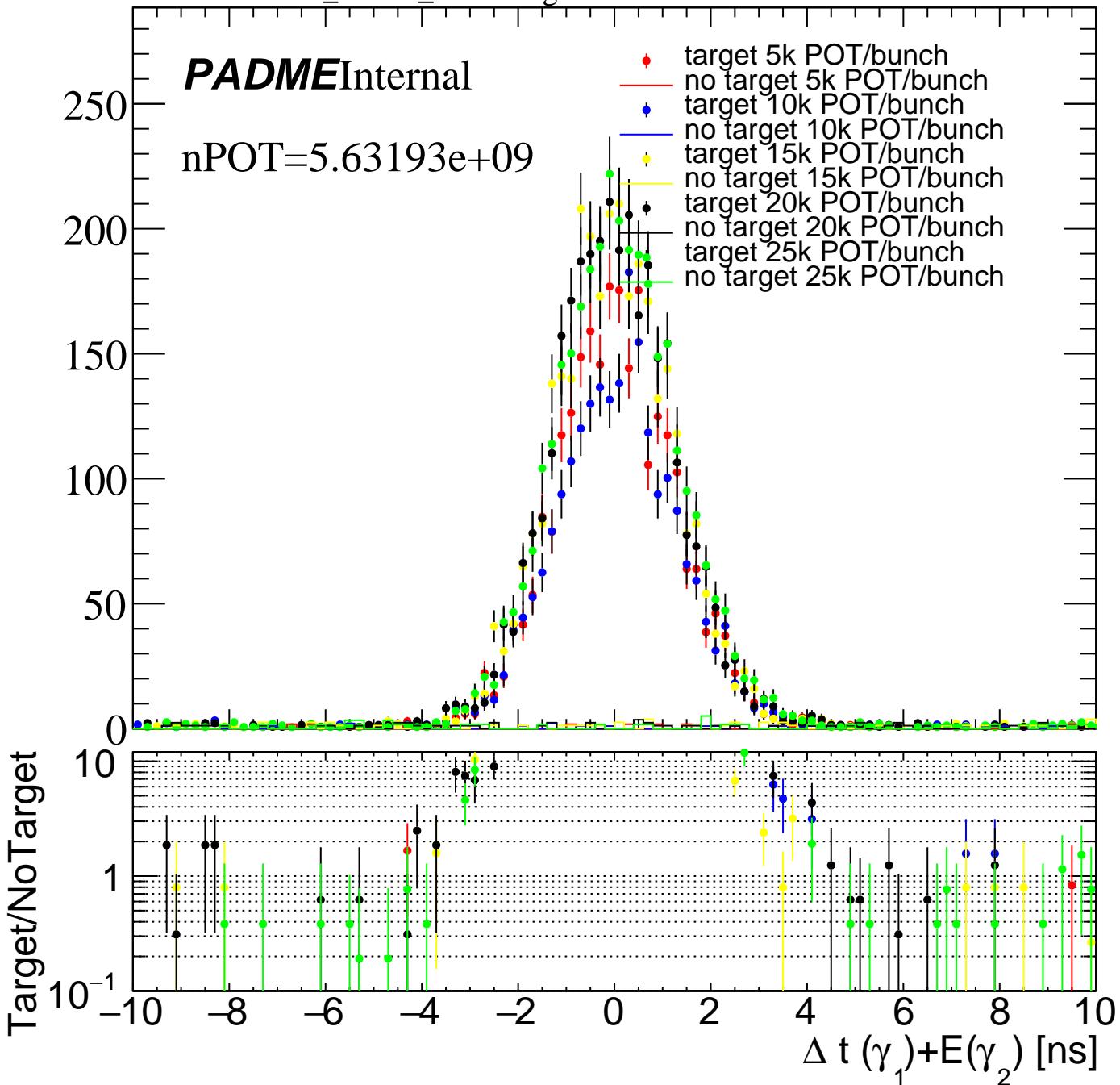
ECAL\_dTime\_10ns20DegreeDeltaThetaUnderPeakEThr90



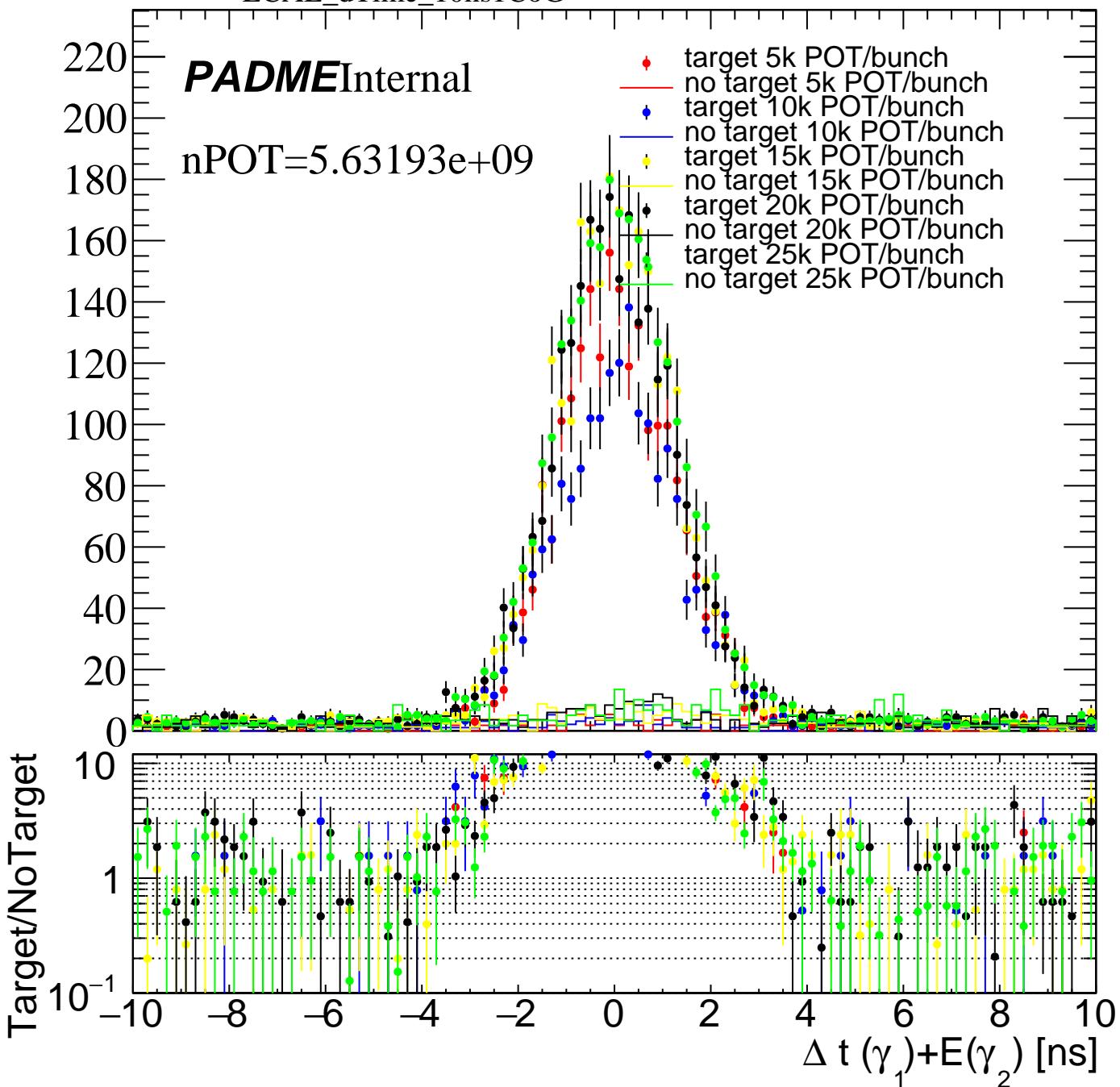
# ECAL\_dTime\_10ns5DegreeDeltaTheta



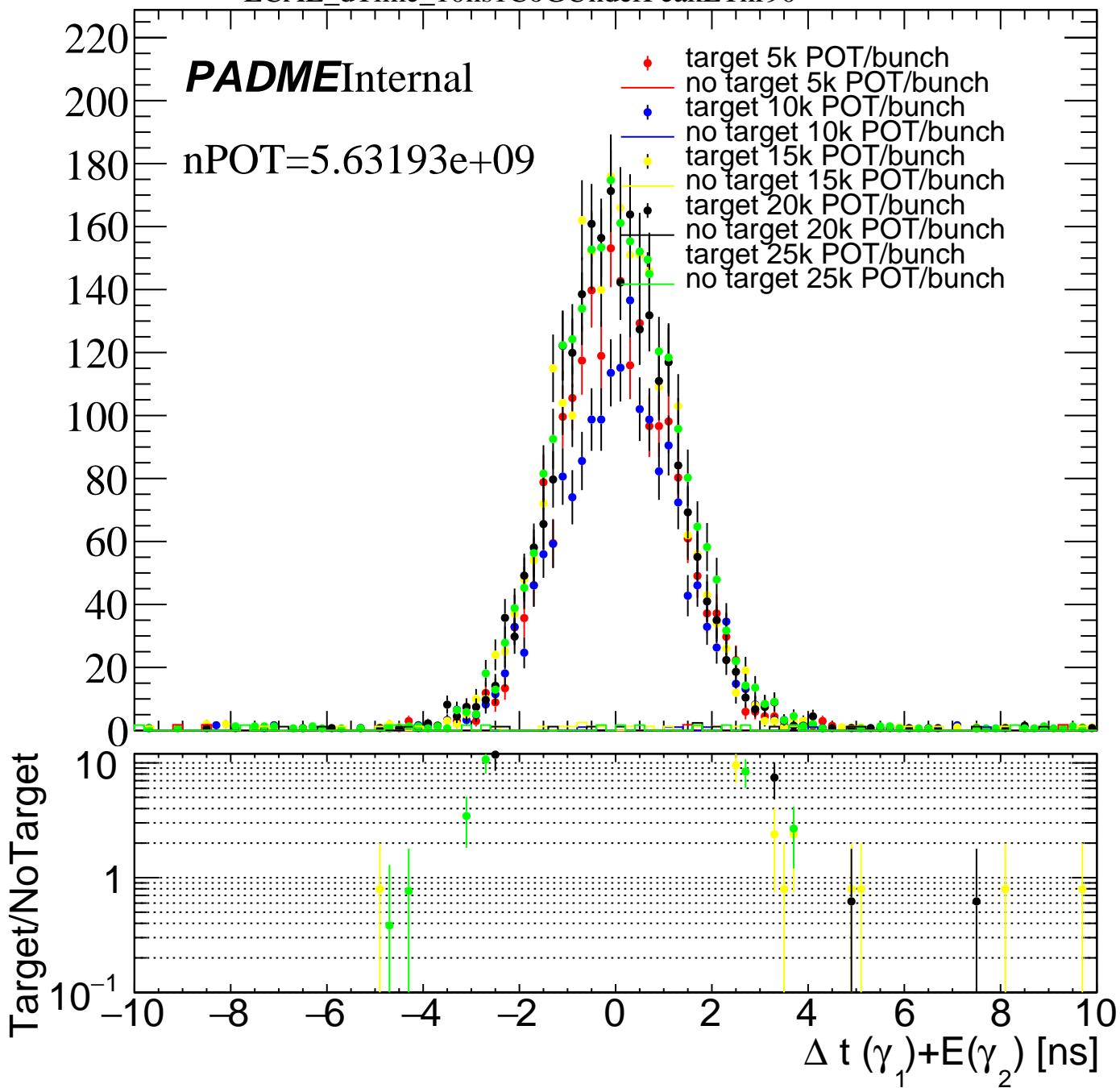
ECAL\_dTime\_10ns5DegreeDeltaThetaUnderPeakEThr90



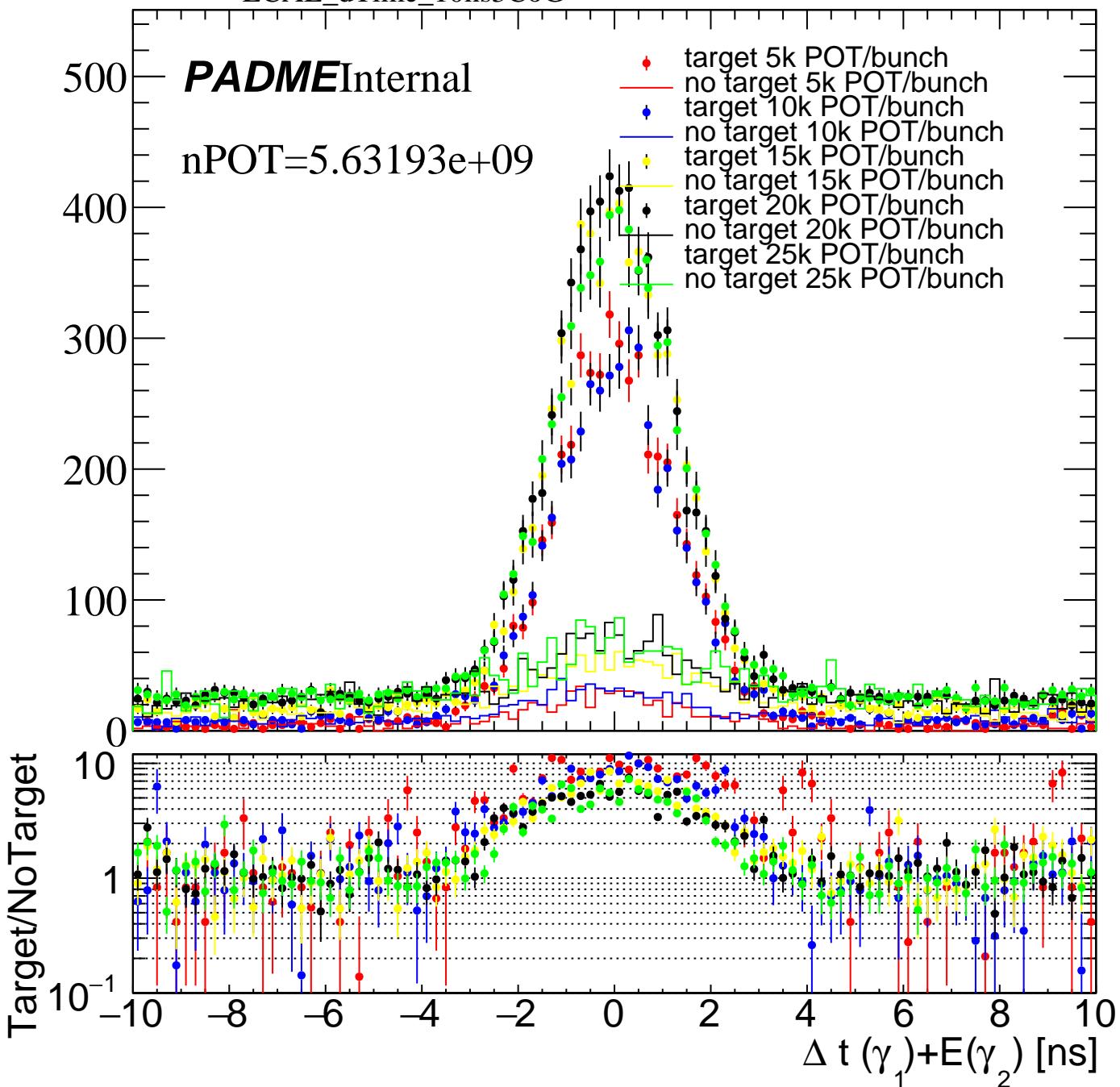
ECAL\_dTime\_10ns1CoG



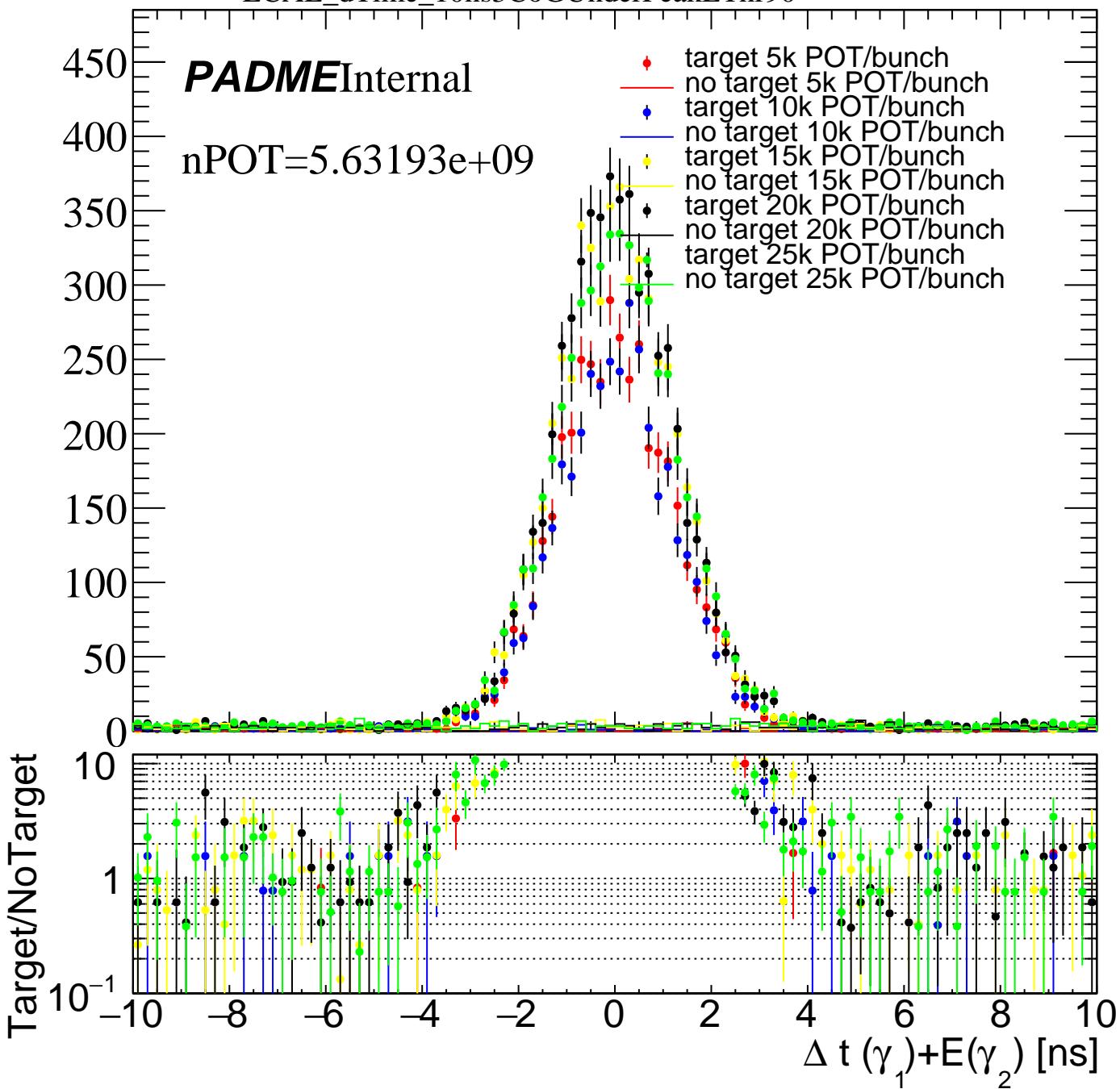
ECAL\_dTime\_10ns1CoGUnderPeakETHr90

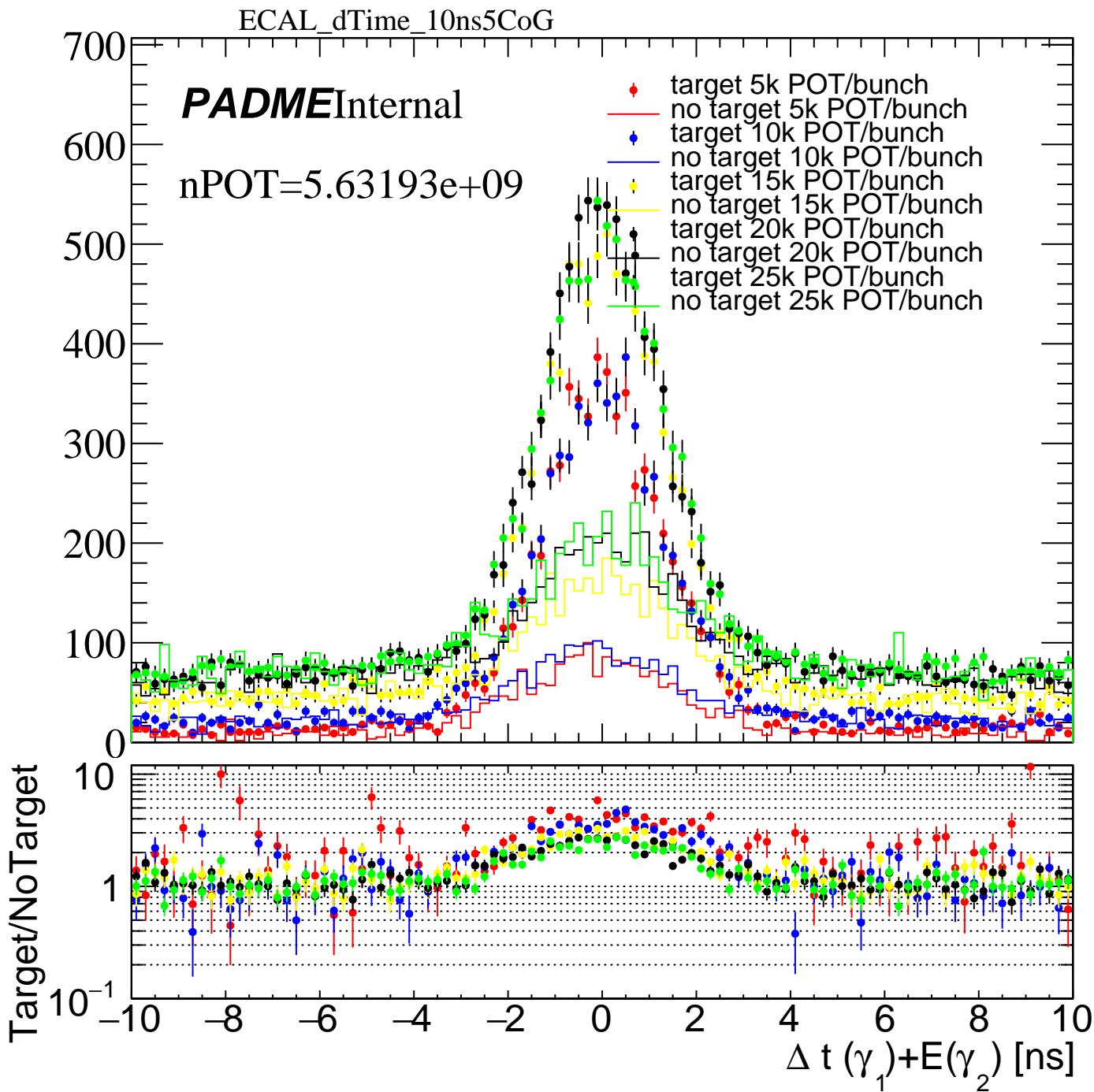


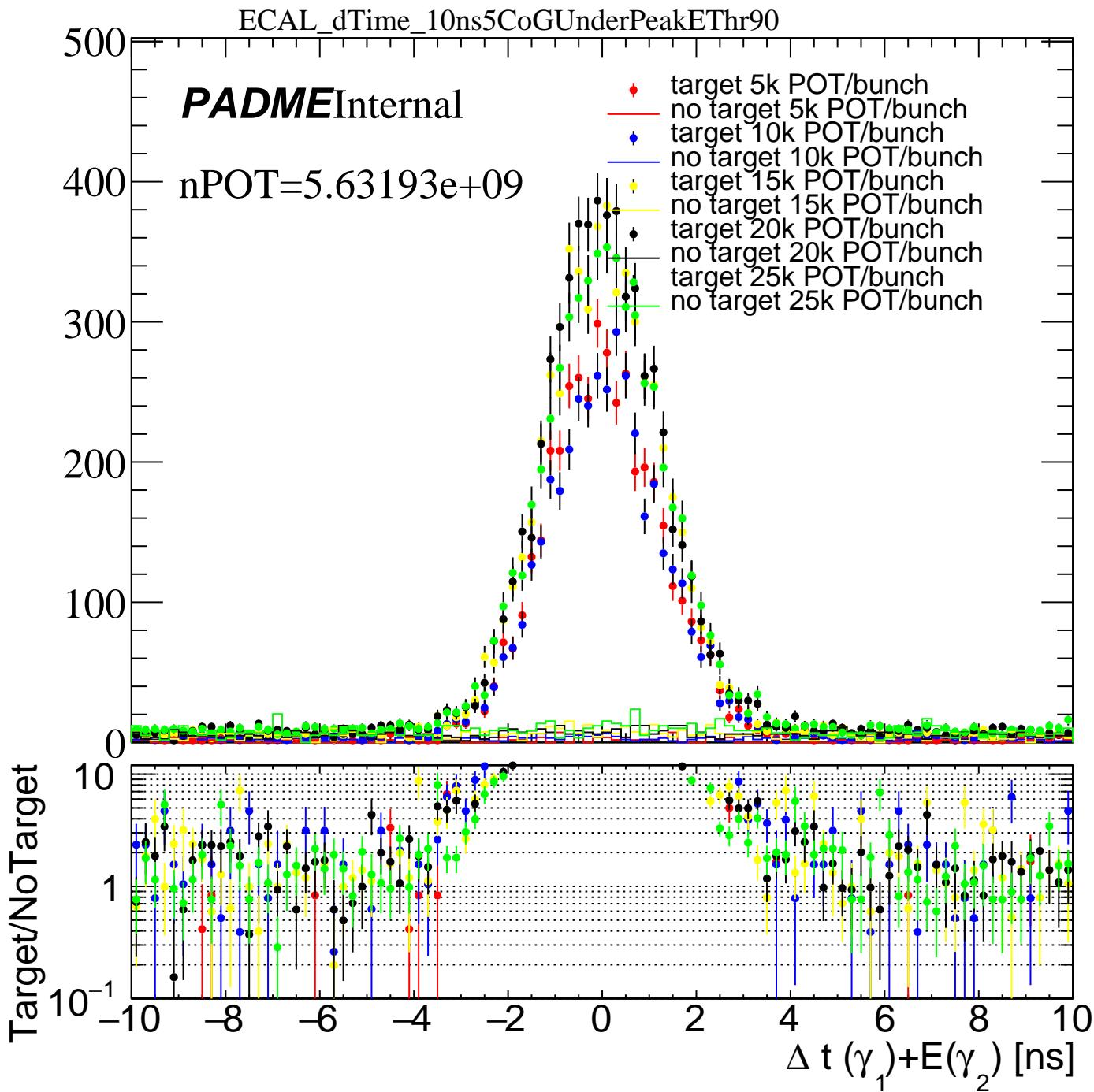
ECAL\_dTime\_10ns3CoG



ECAL\_dTime\_10ns3CoGUnderPeakEThr90



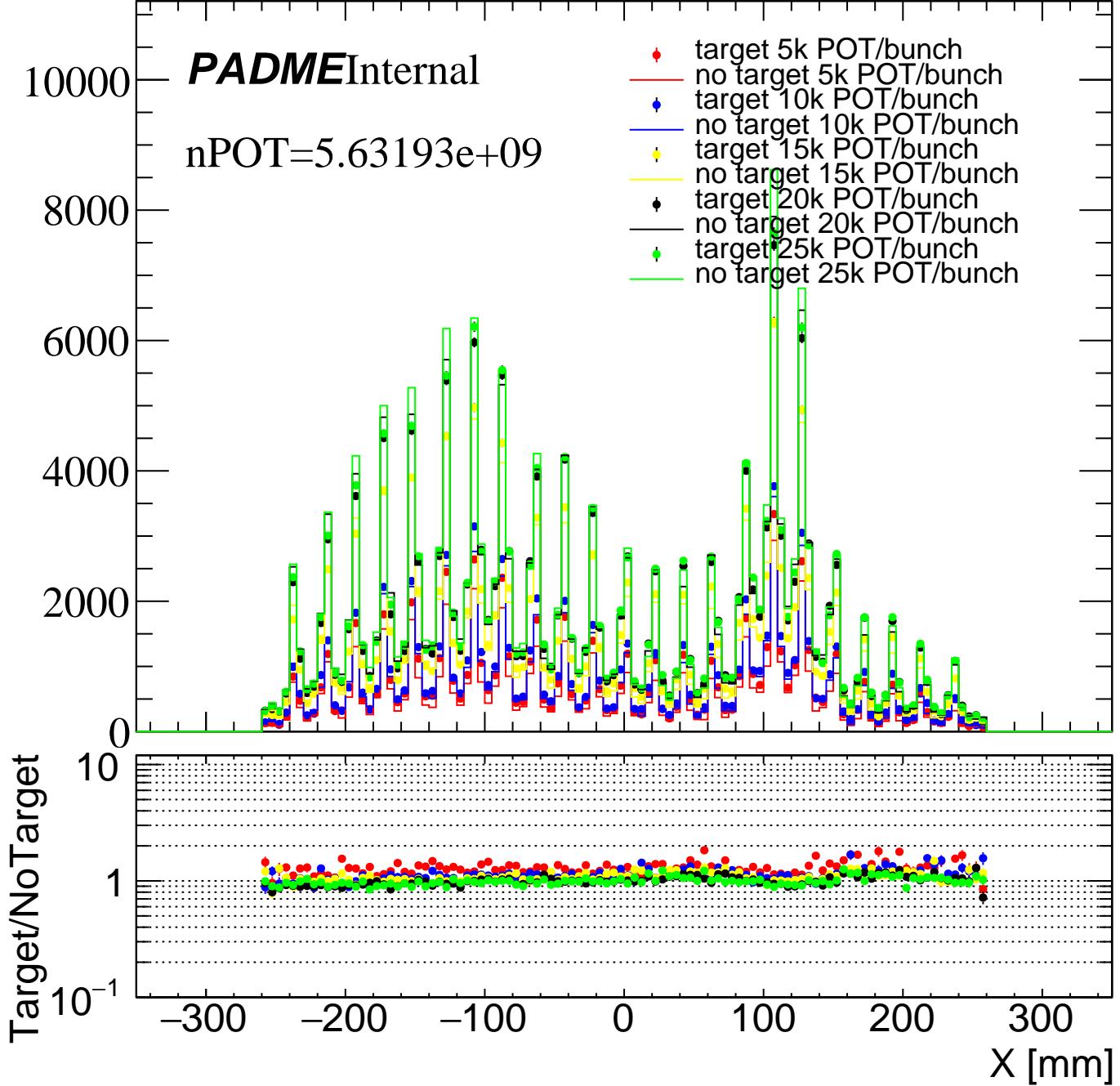




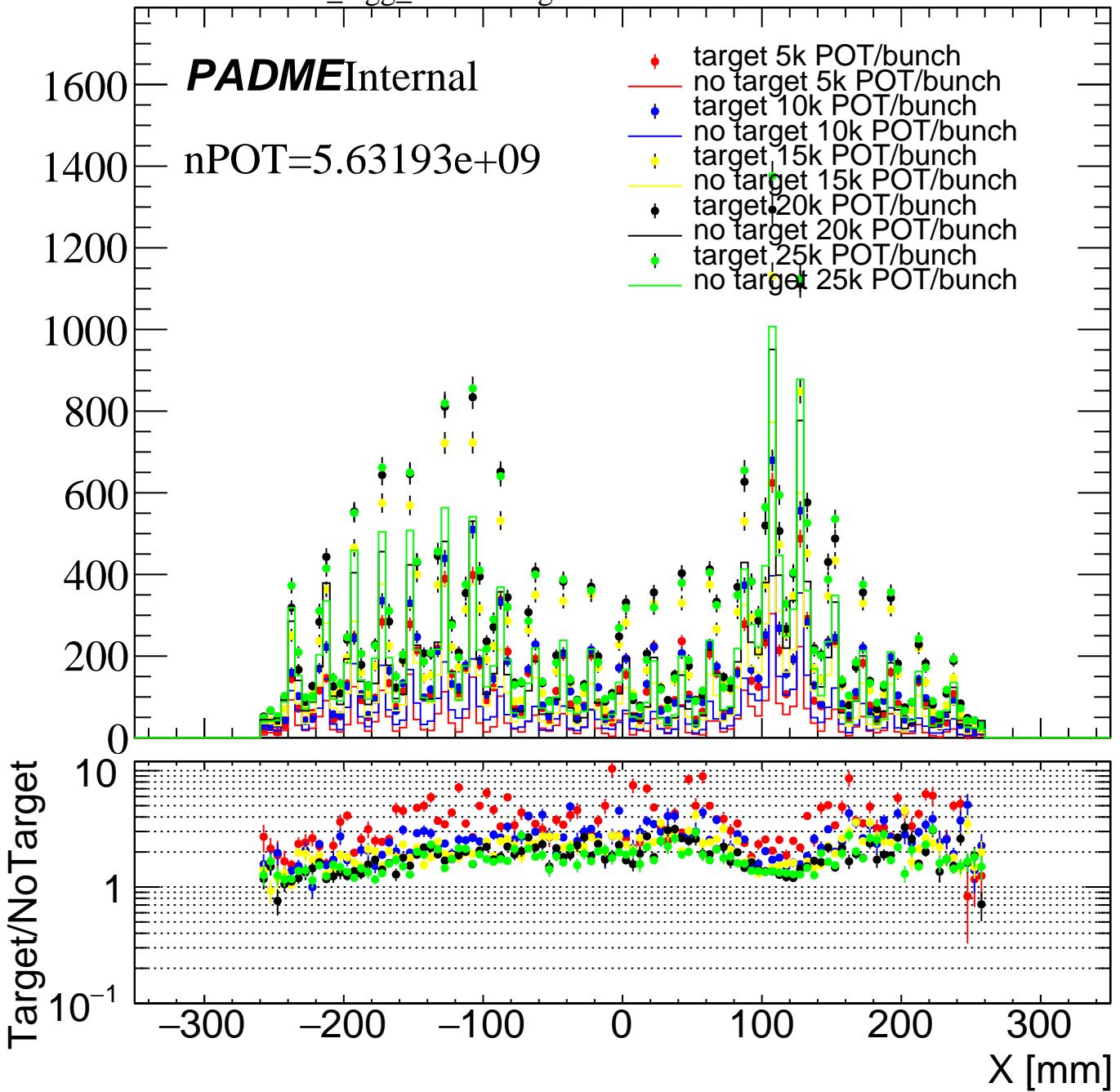
ECAL\_Xgg\_10ns

**PADME**Internal  
nPOT=5.63193e+09

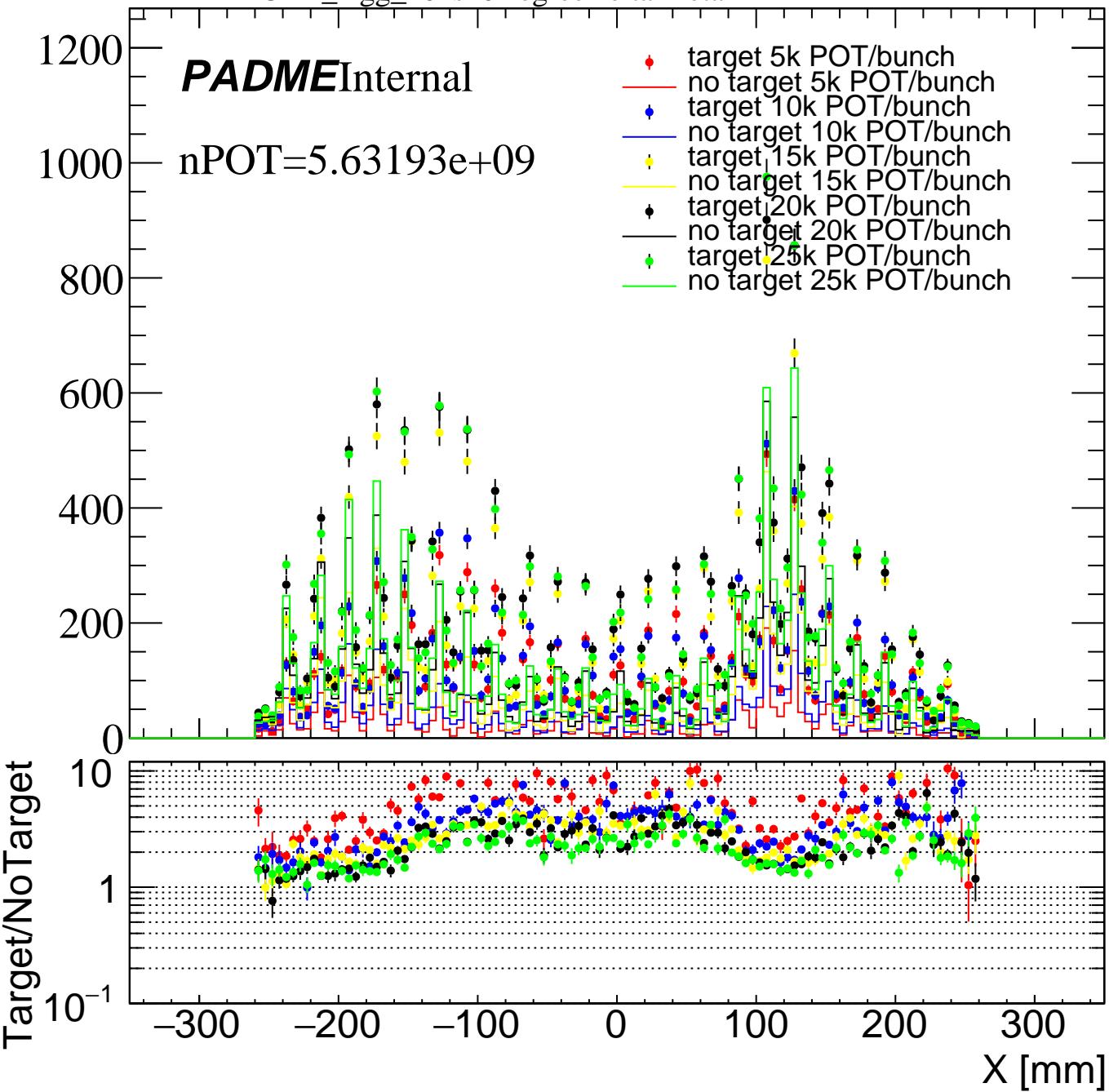
- target 5k POT/bunch
- no target 5k POT/bunch
- target 10k POT/bunch
- no target 10k POT/bunch
- target 15k POT/bunch
- no target 15k POT/bunch
- target 20k POT/bunch
- no target 20k POT/bunch
- target 25k POT/bunch
- no target 25k POT/bunch



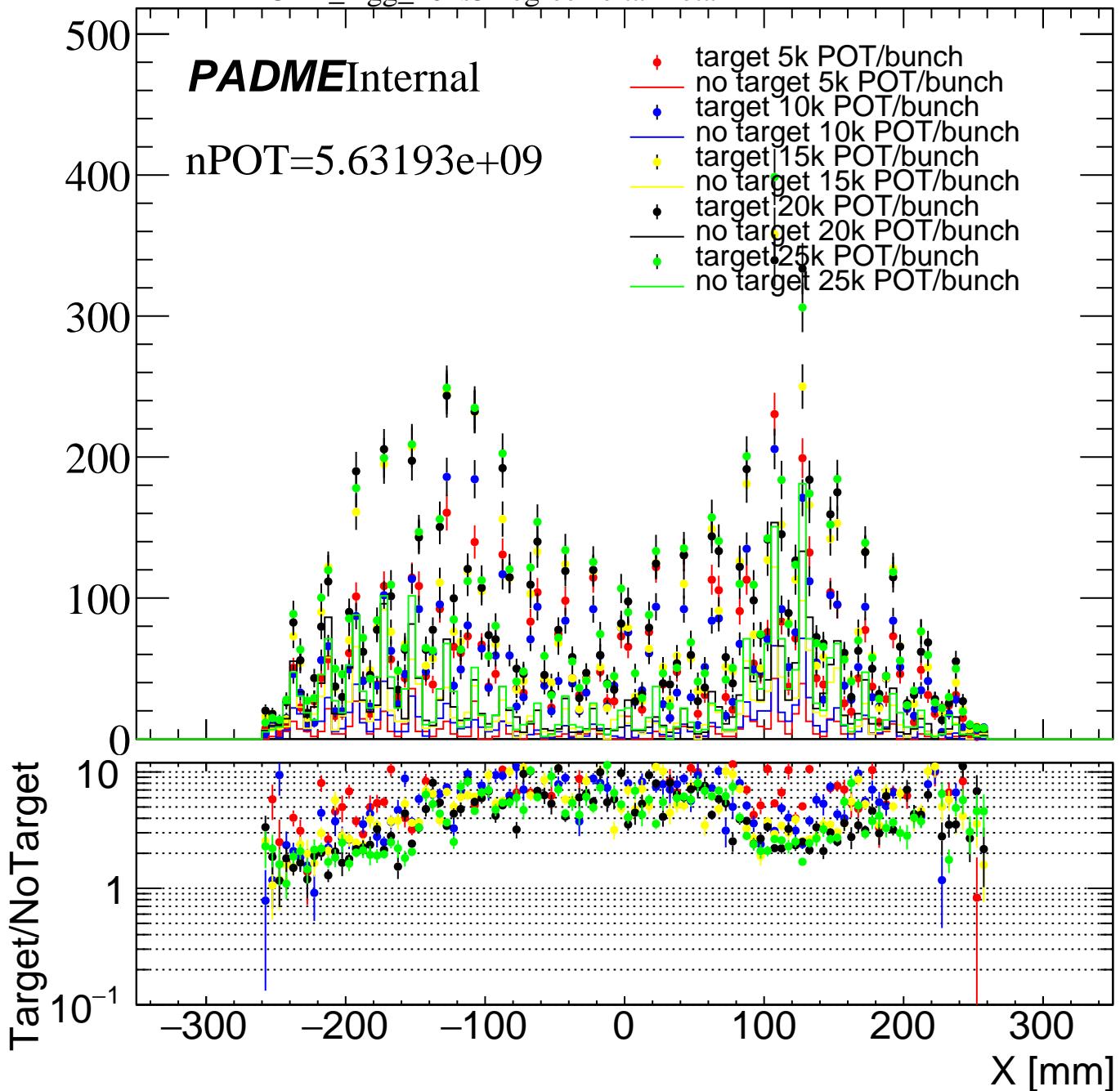
ECAL\_Xgg\_10ns20Degree



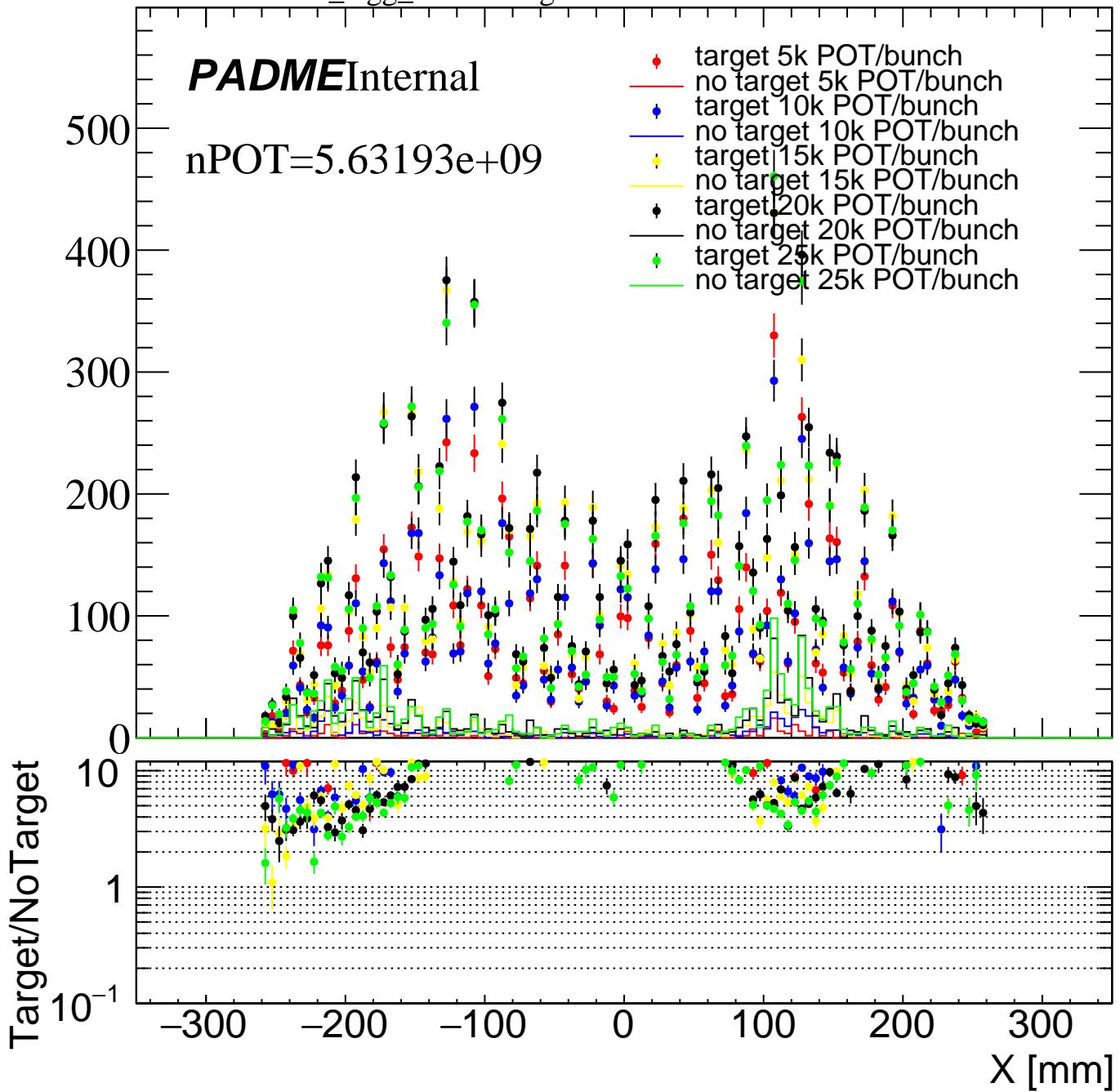
ECAL\_Xgg\_10ns20DegreeDeltaTheta



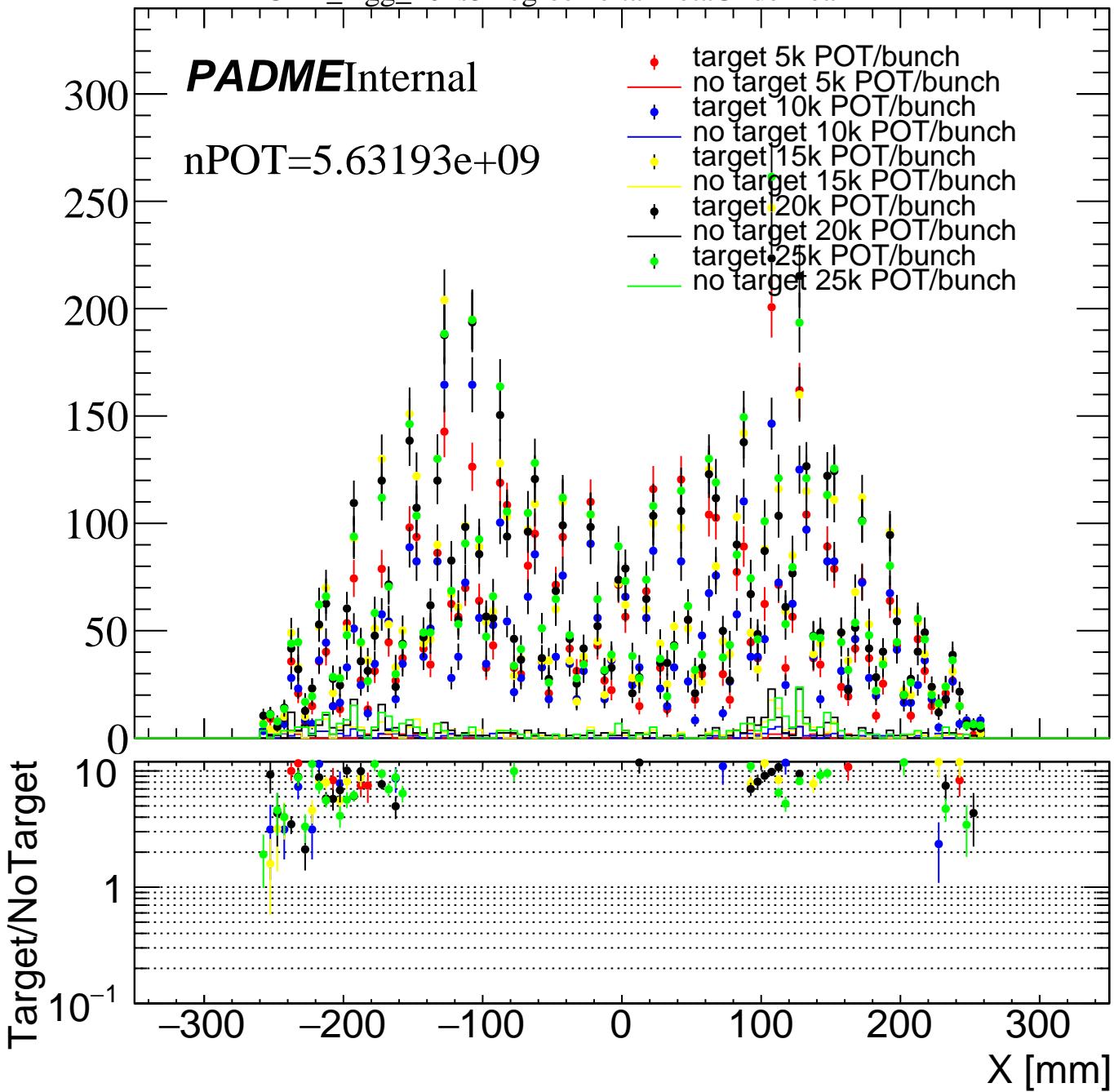
ECAL\_Xgg\_10ns5DegreeDeltaTheta



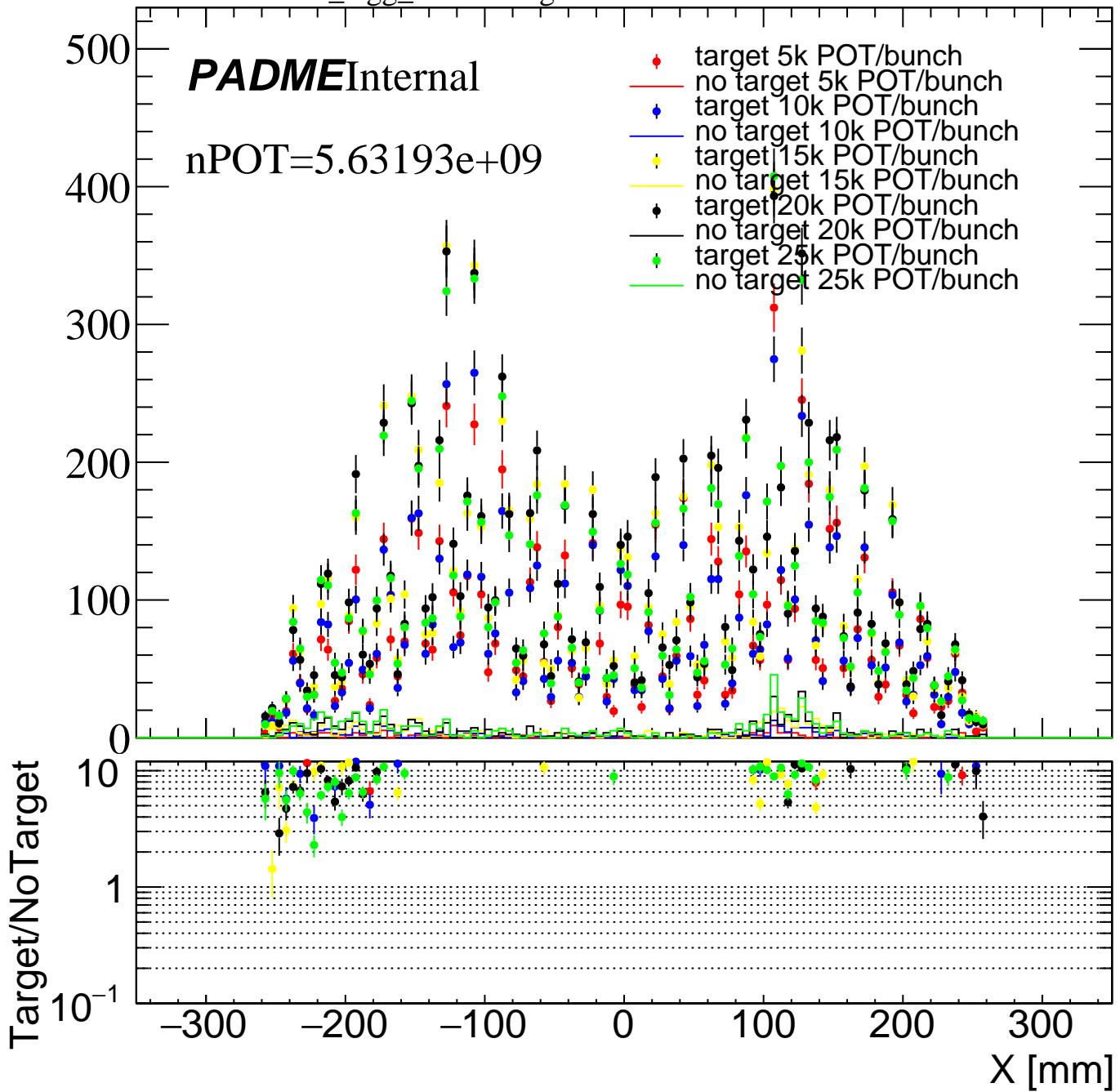
# ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeak



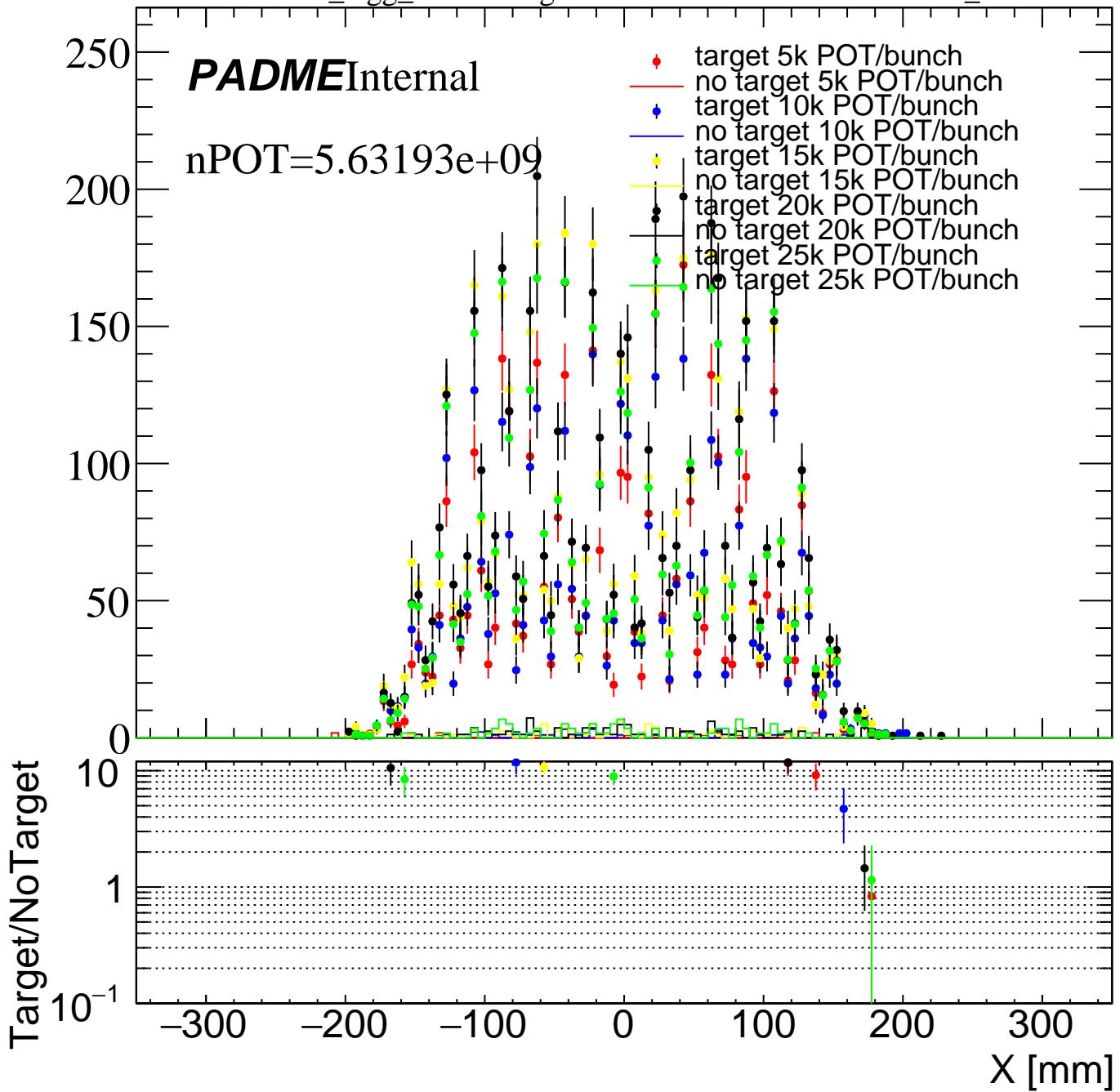
# ECAL\_Xgg\_10ns5DegreeDeltaThetaUnderPeak



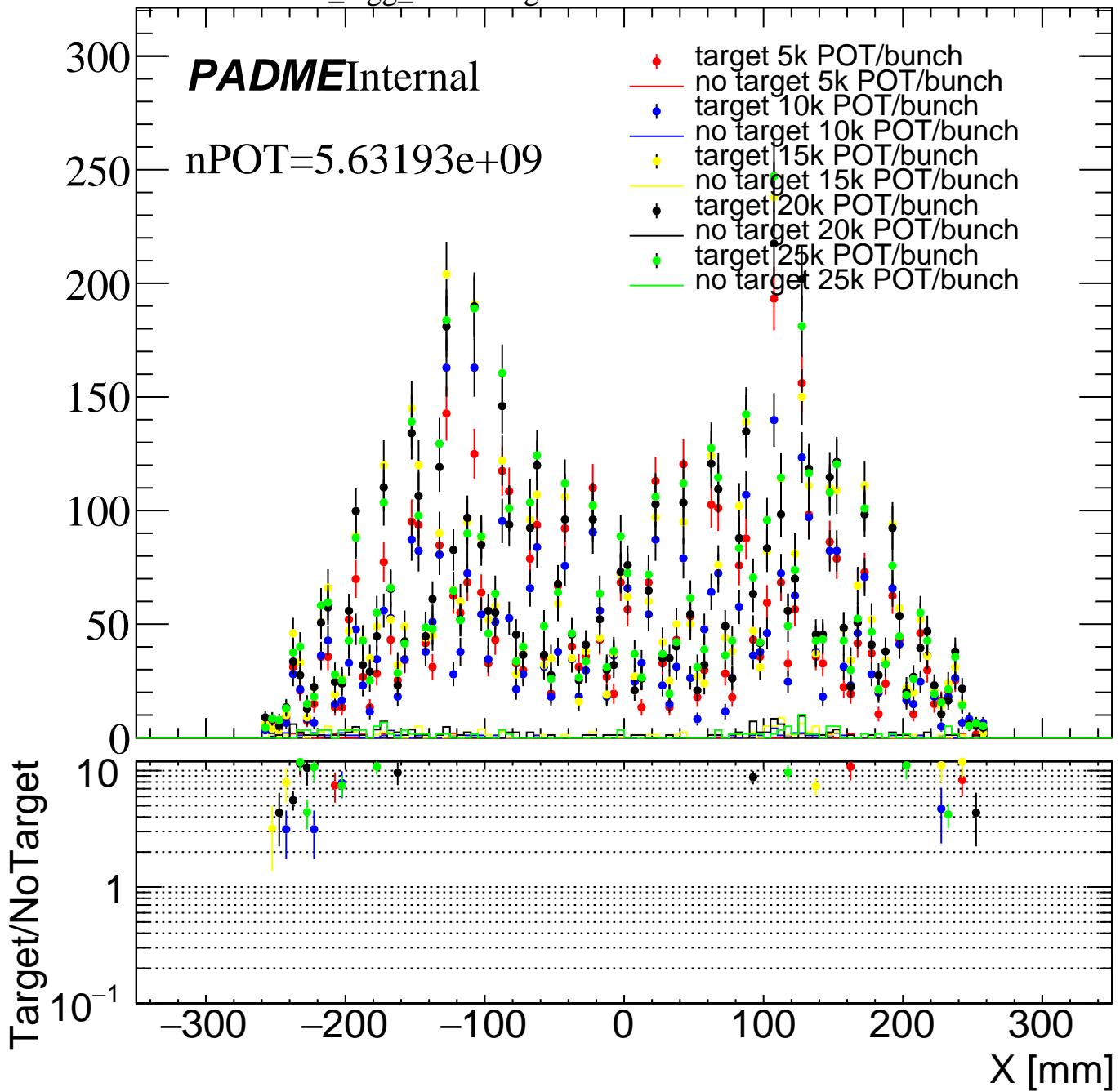
ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeakEThr90



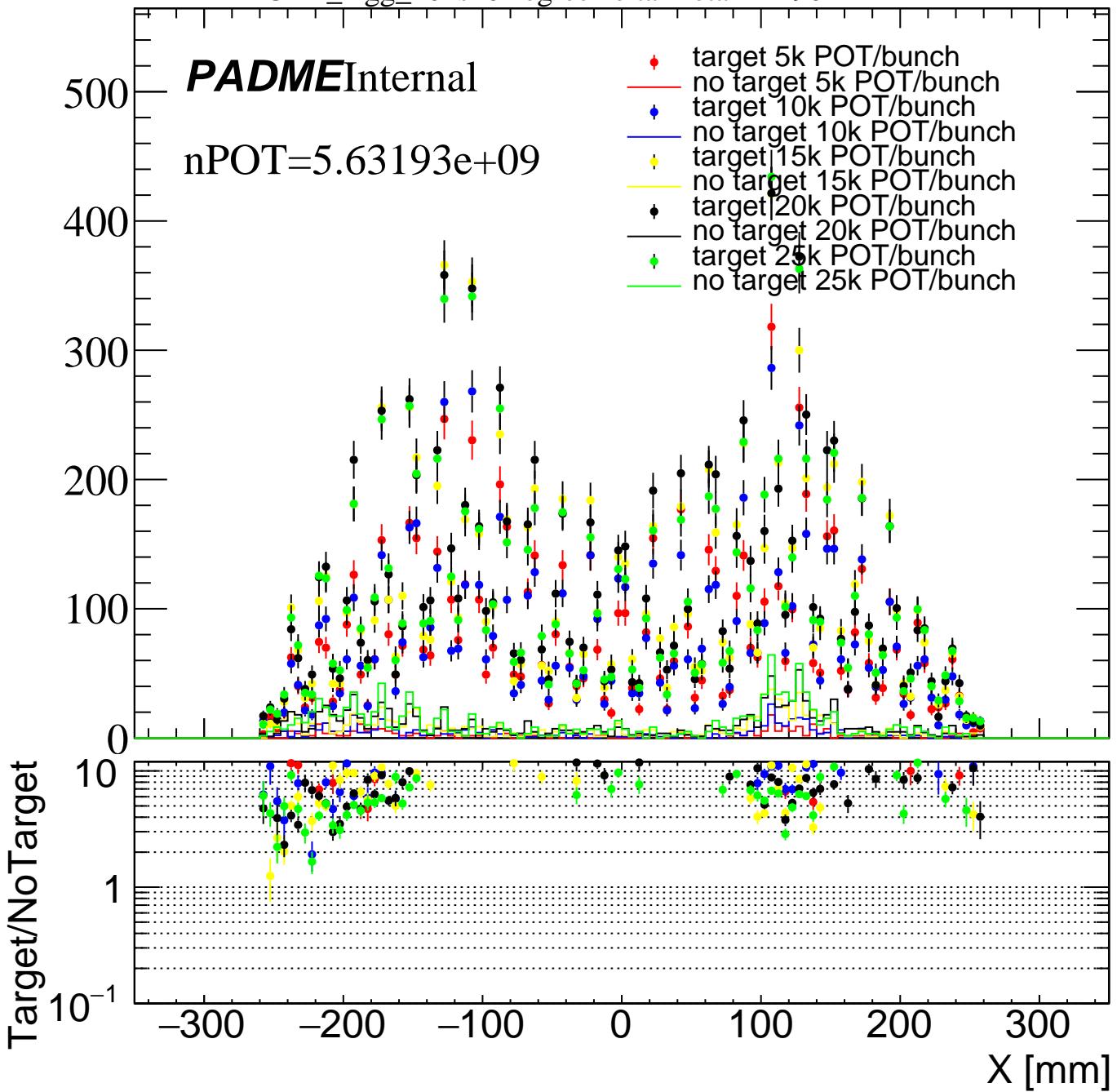
ECAL\_Xgg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY



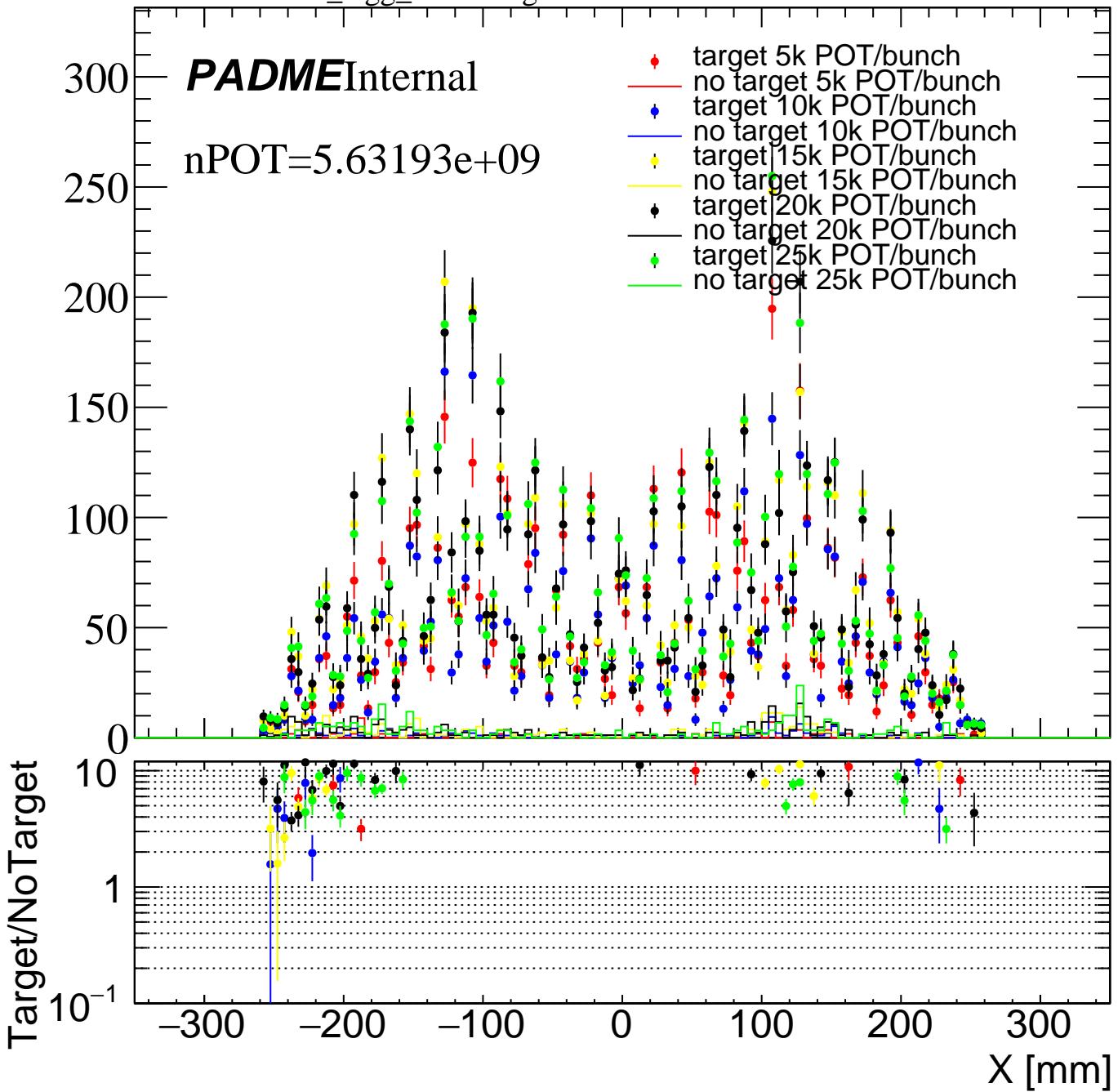
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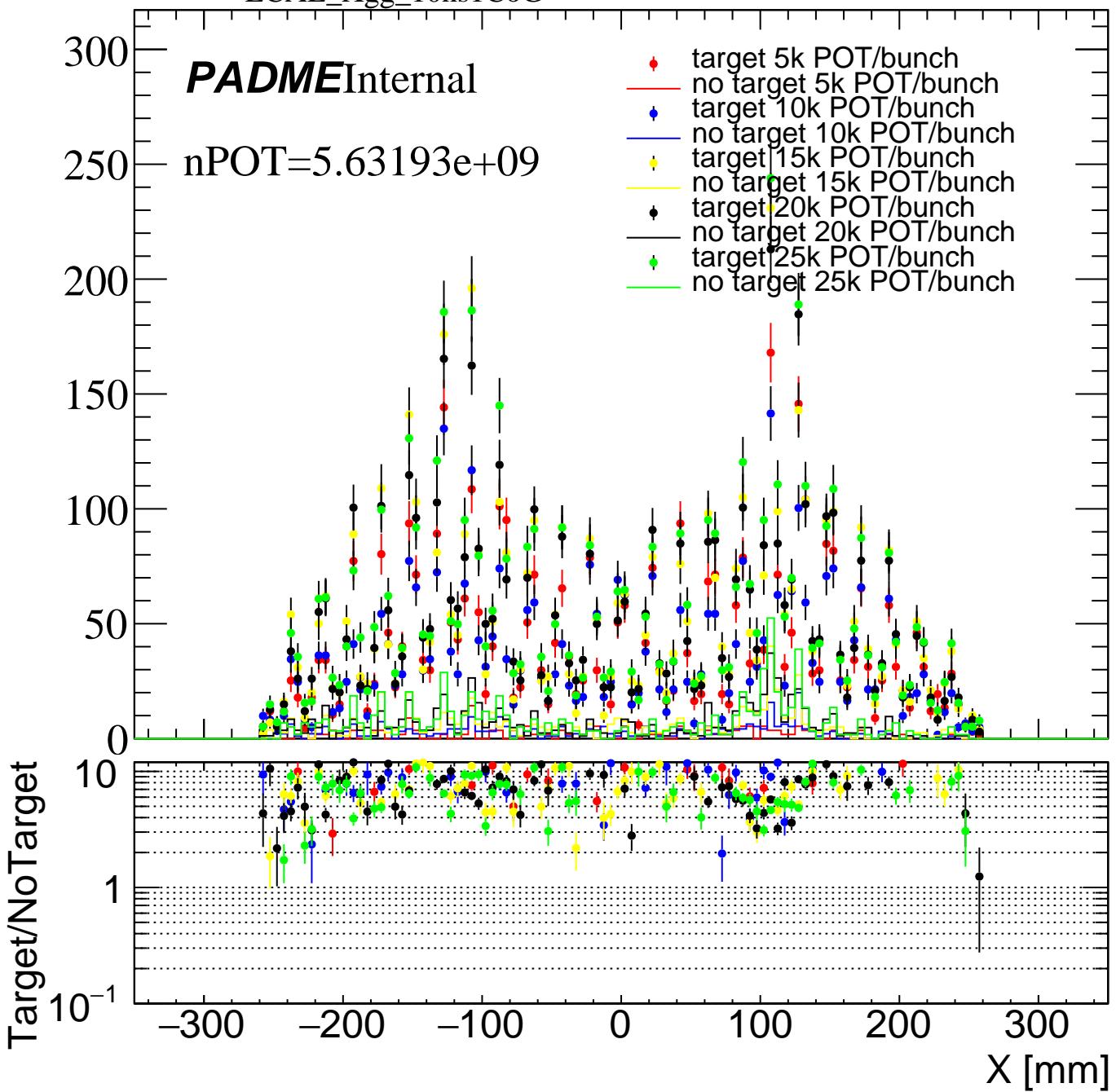
# ECAL\_Xgg\_10ns20DegreeDeltaThetaEThr90



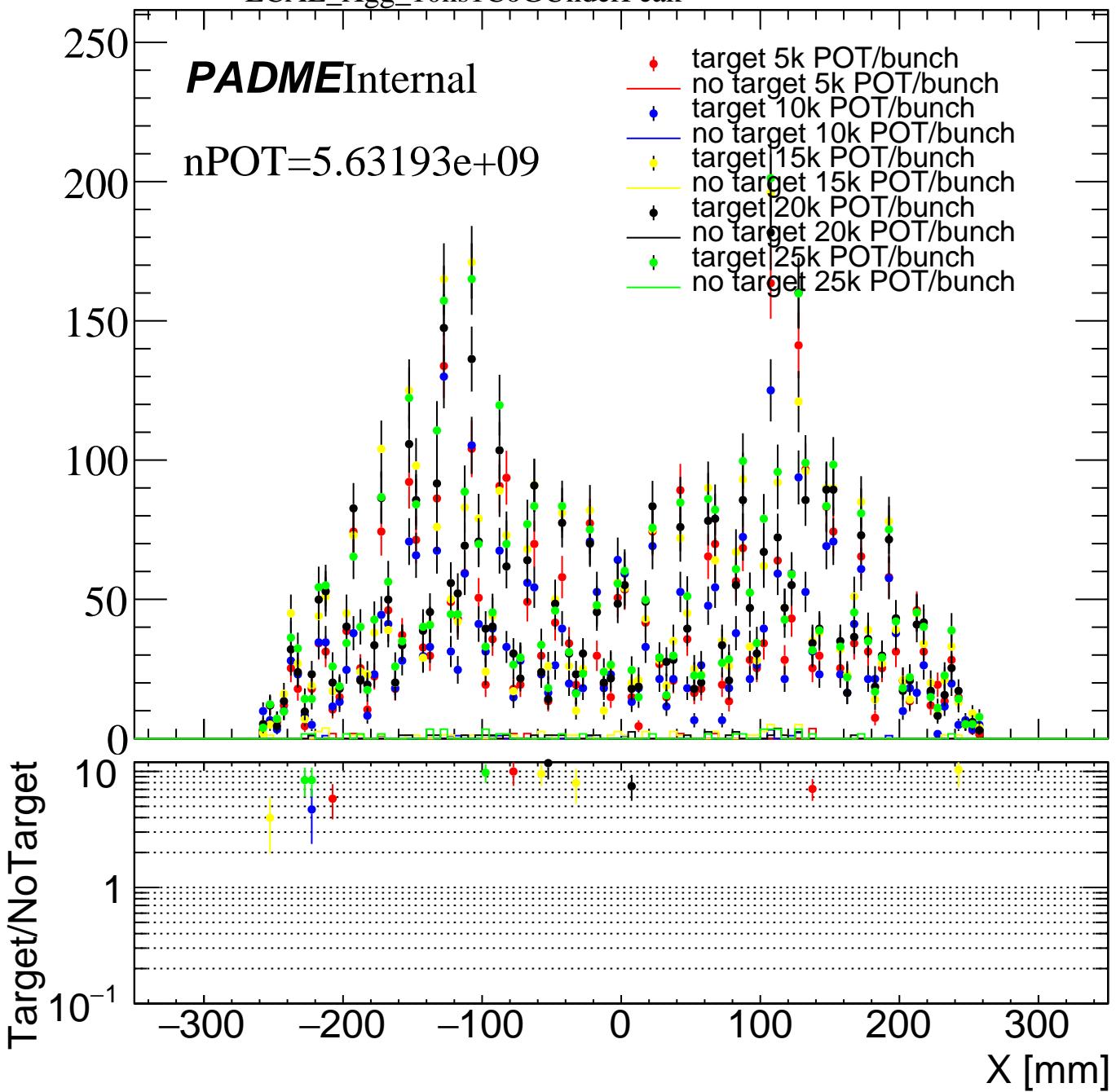
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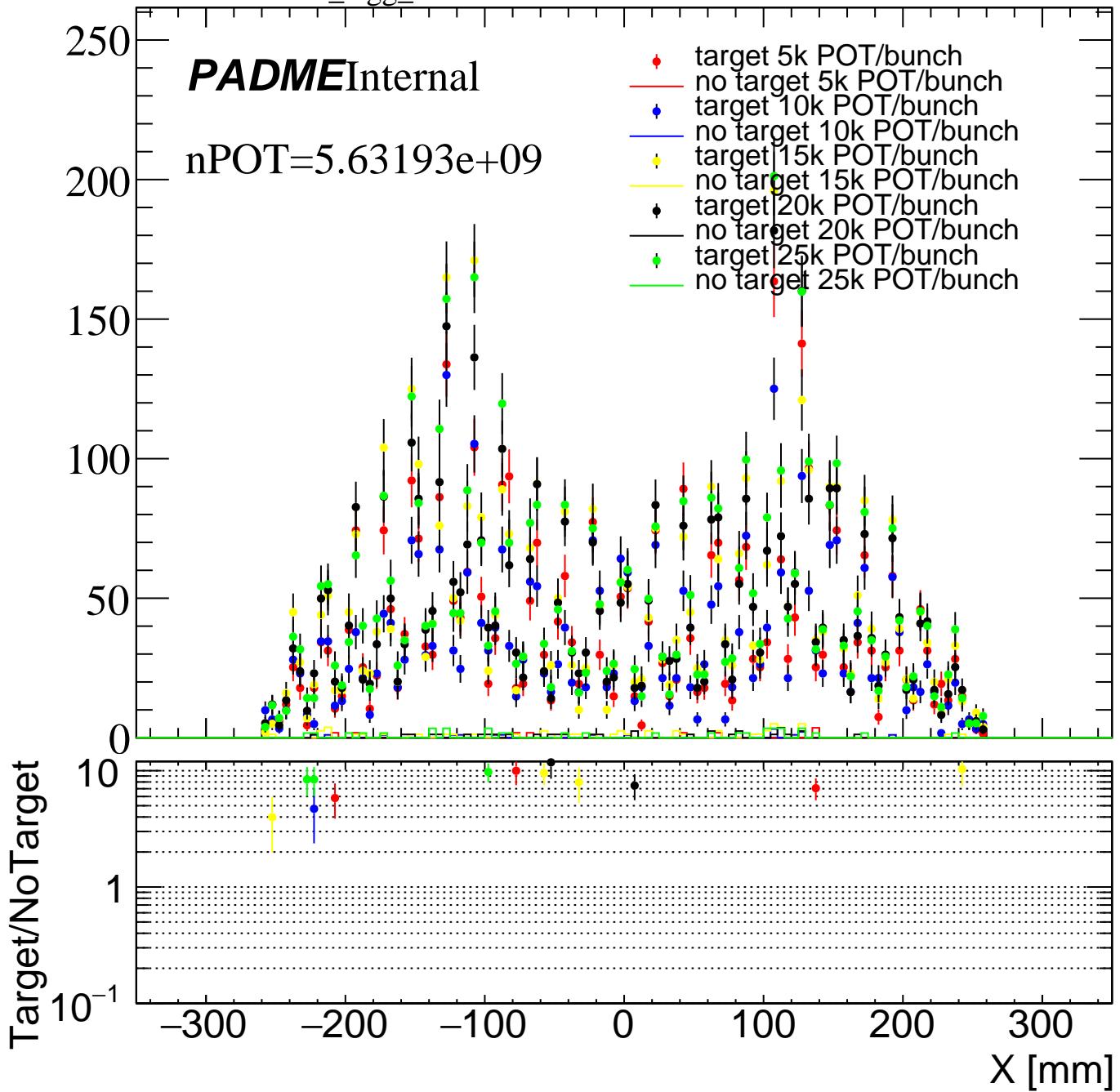
ECAL\_Xgg\_10ns1CoG



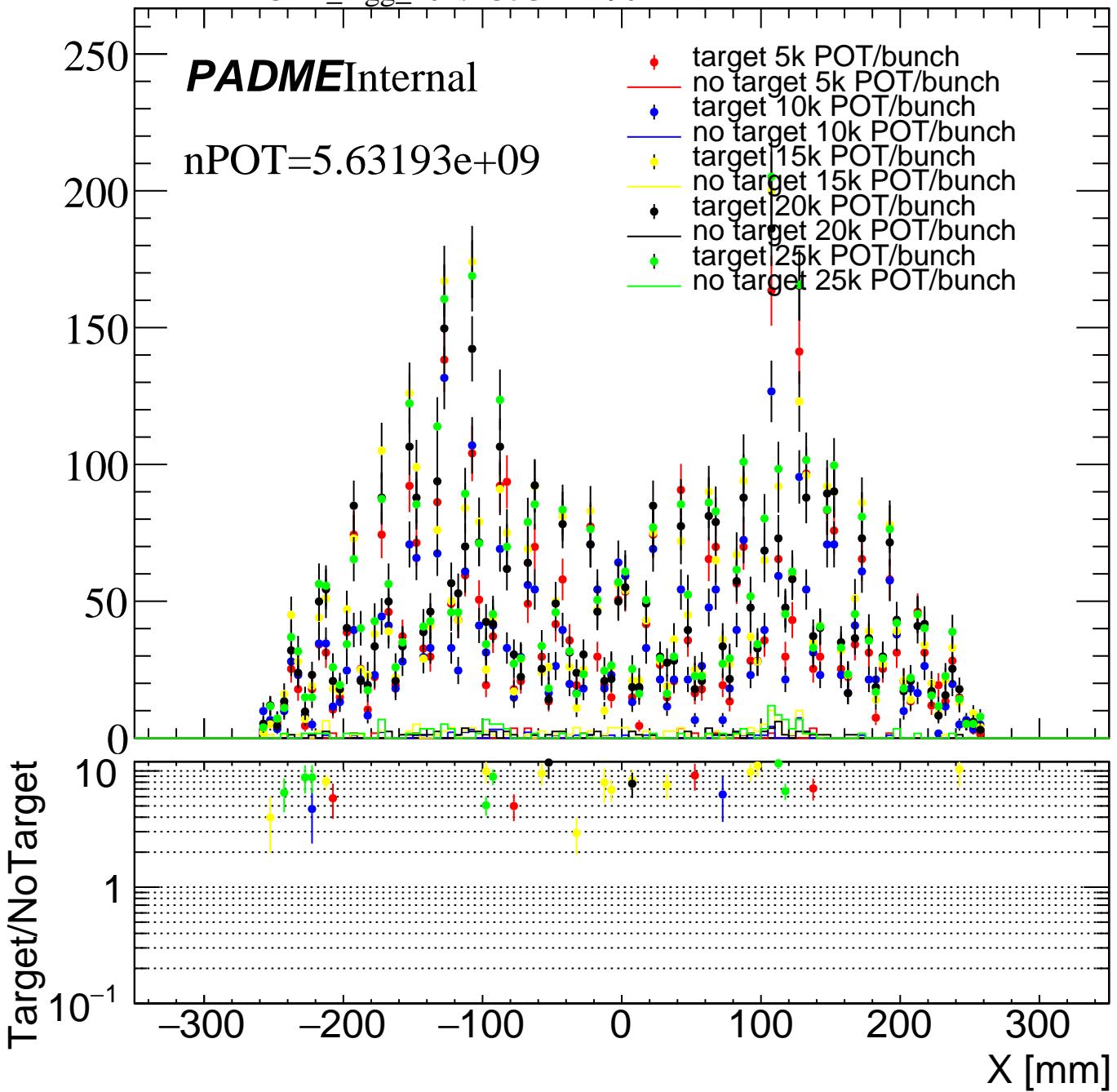
ECAL\_Xgg\_10ns1CoGUnderPeak



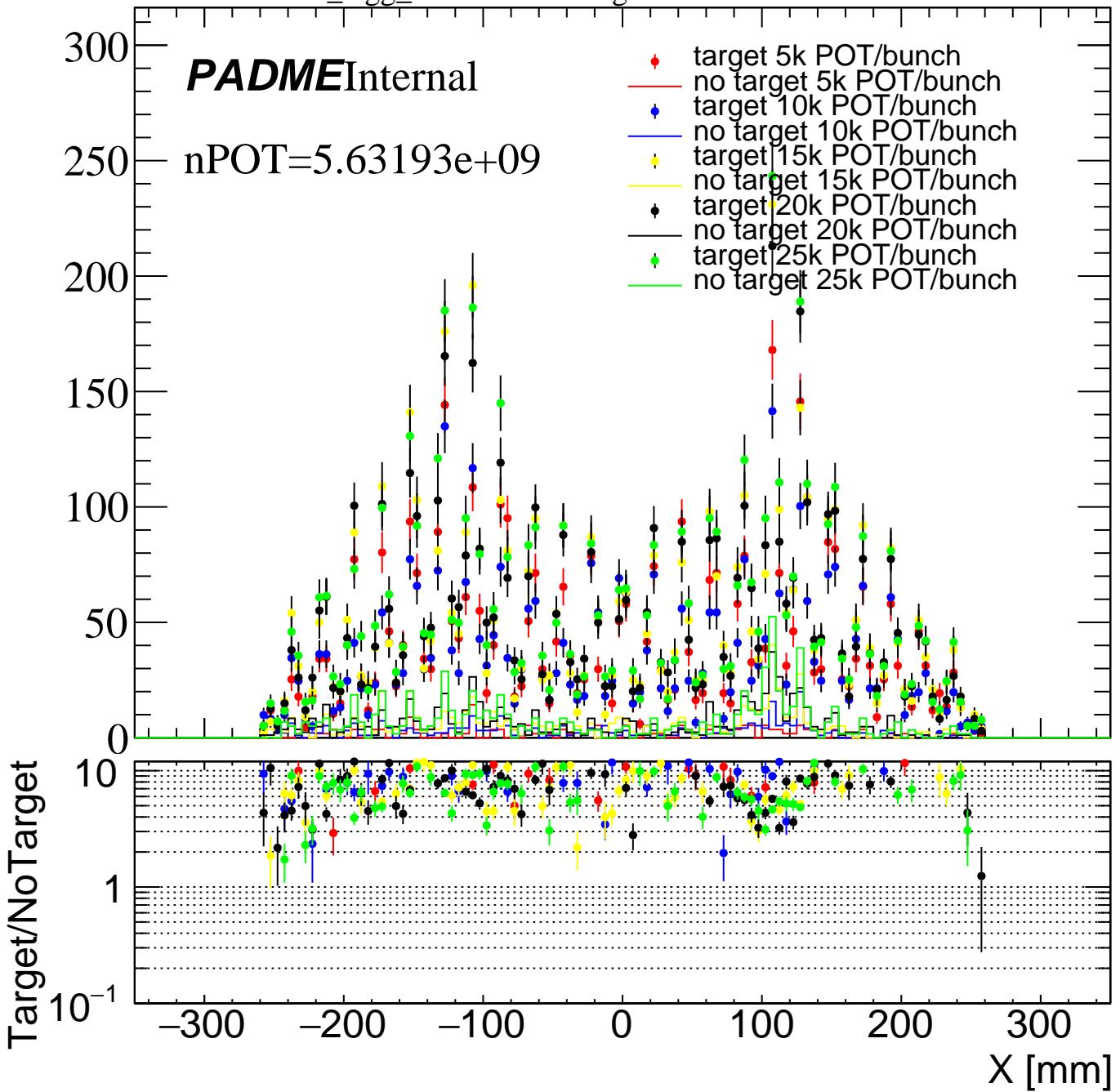
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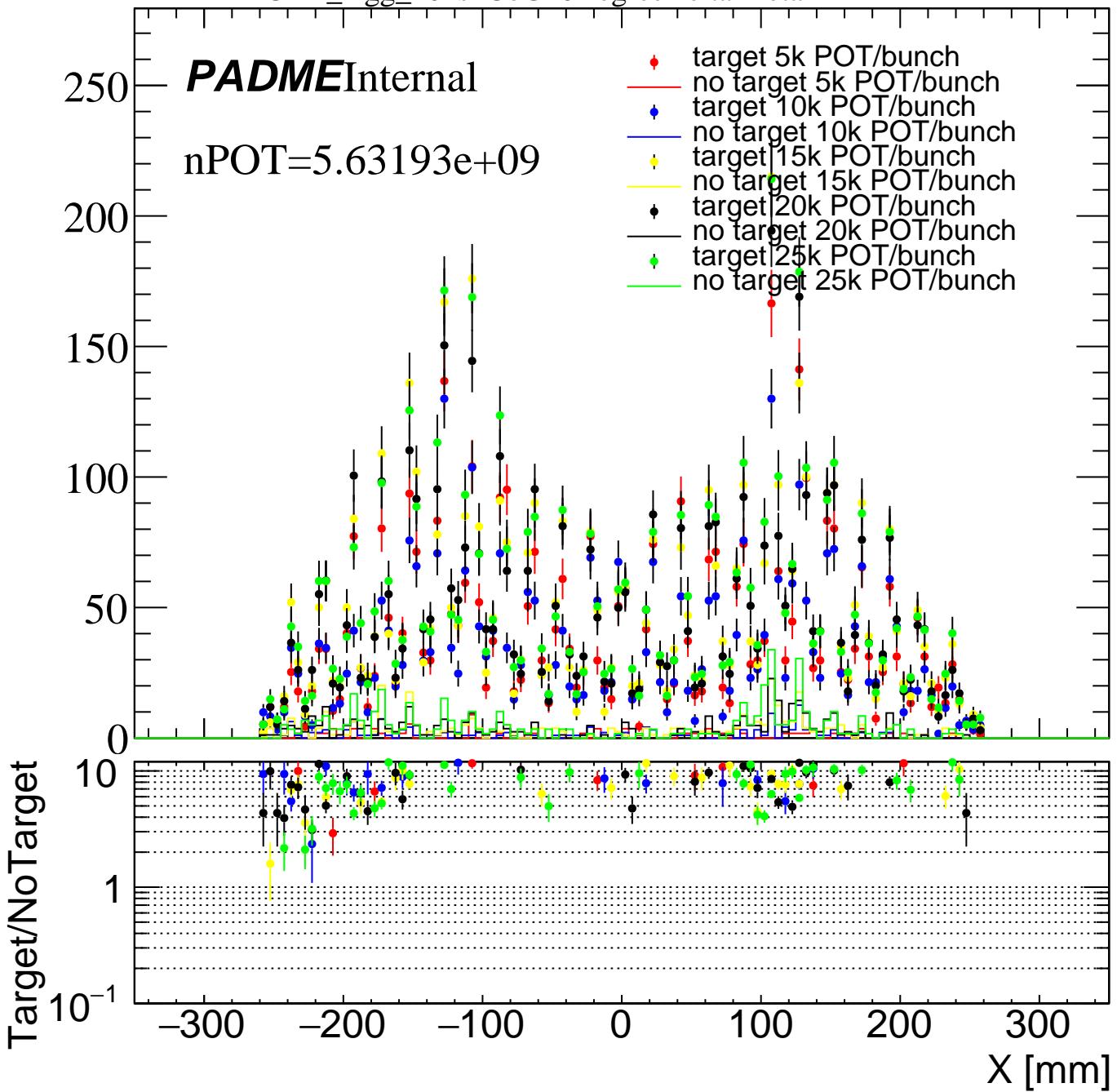
# ECAL\_Xgg\_10ns1CoGEThr90



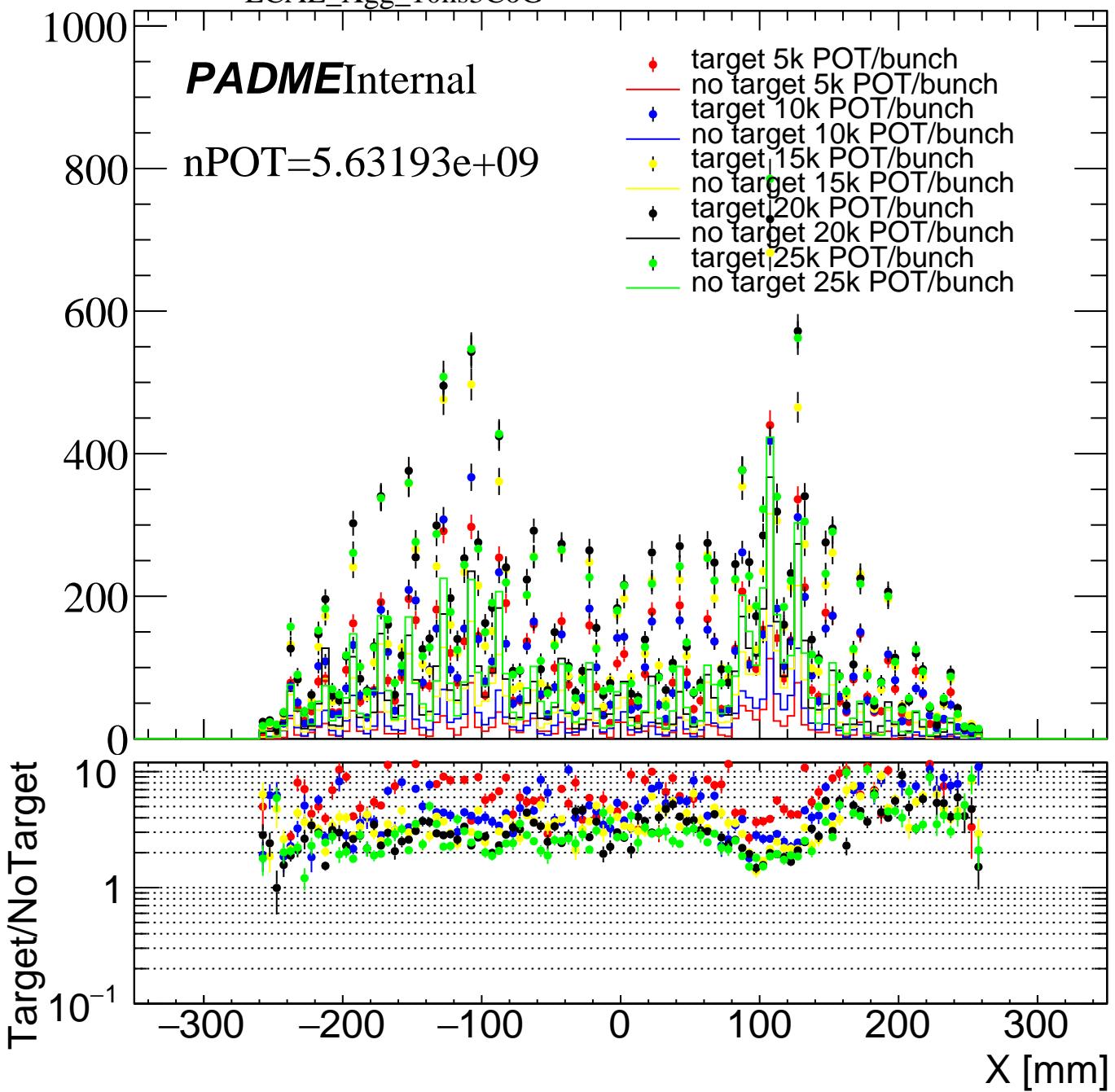
ECAL\_Xgg\_10ns1CoG20Degree



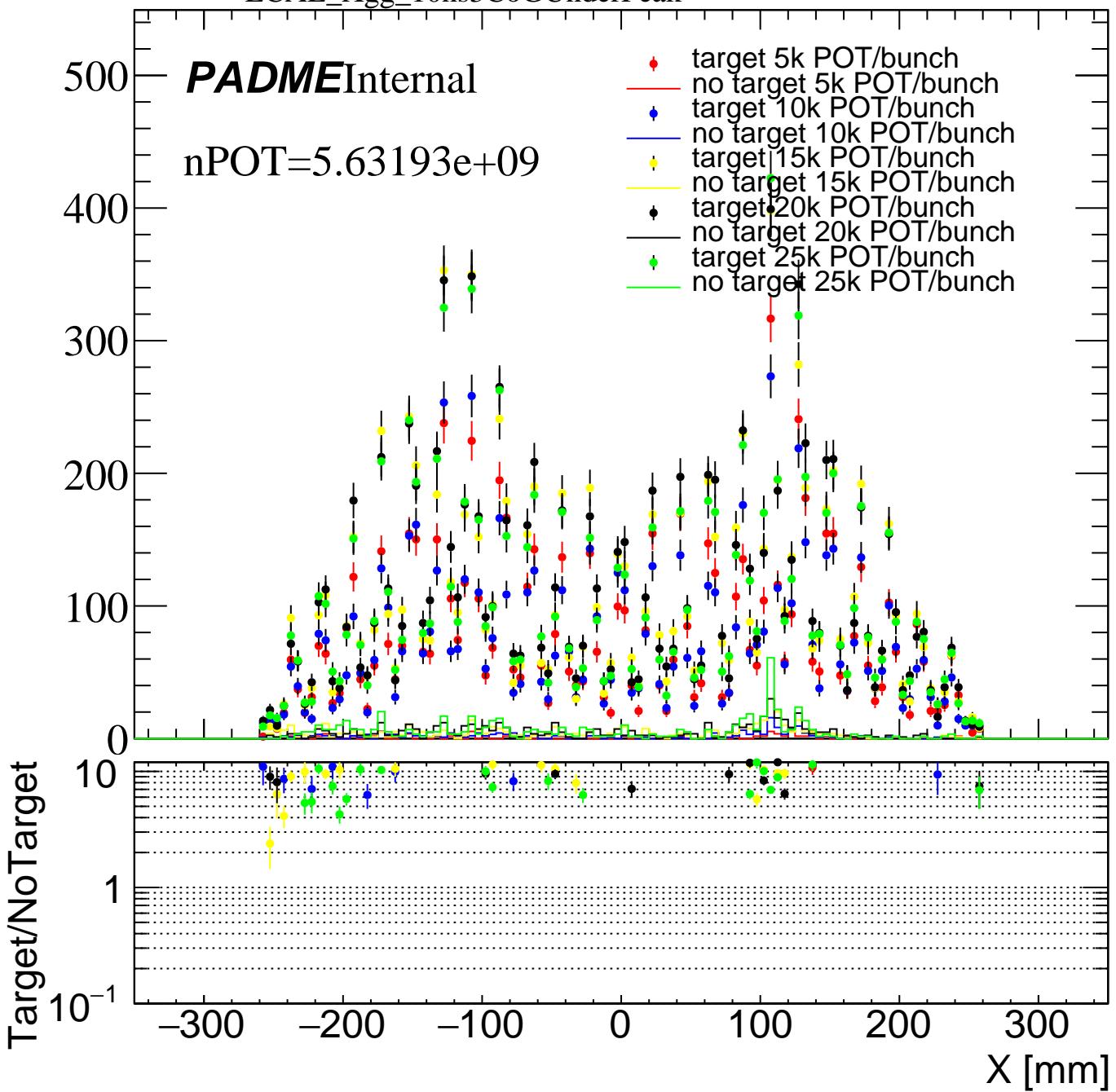
# ECAL\_Xgg\_10ns1CoG20DegreeDeltaTheta



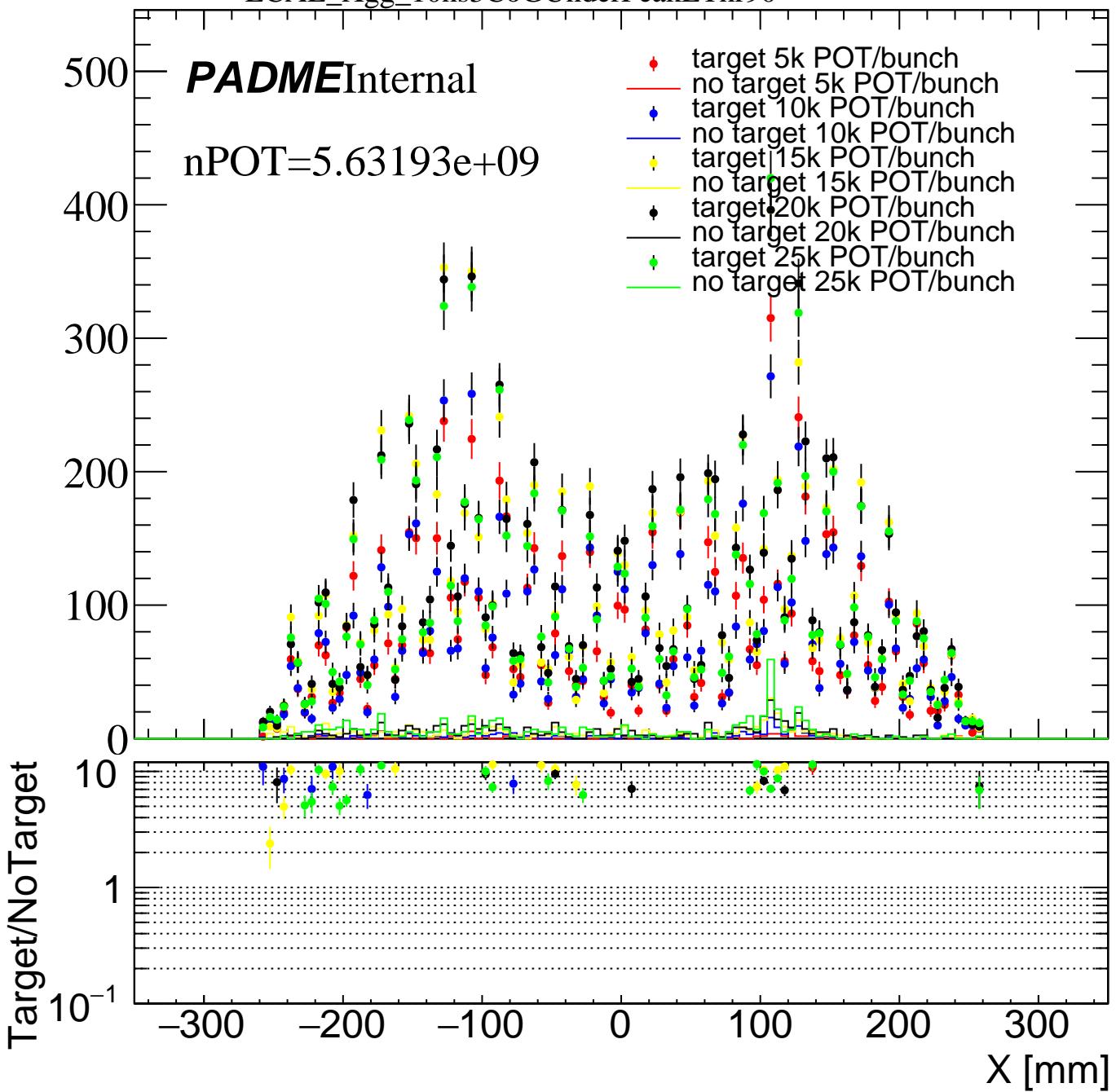
ECAL\_Xgg\_10ns3CoG



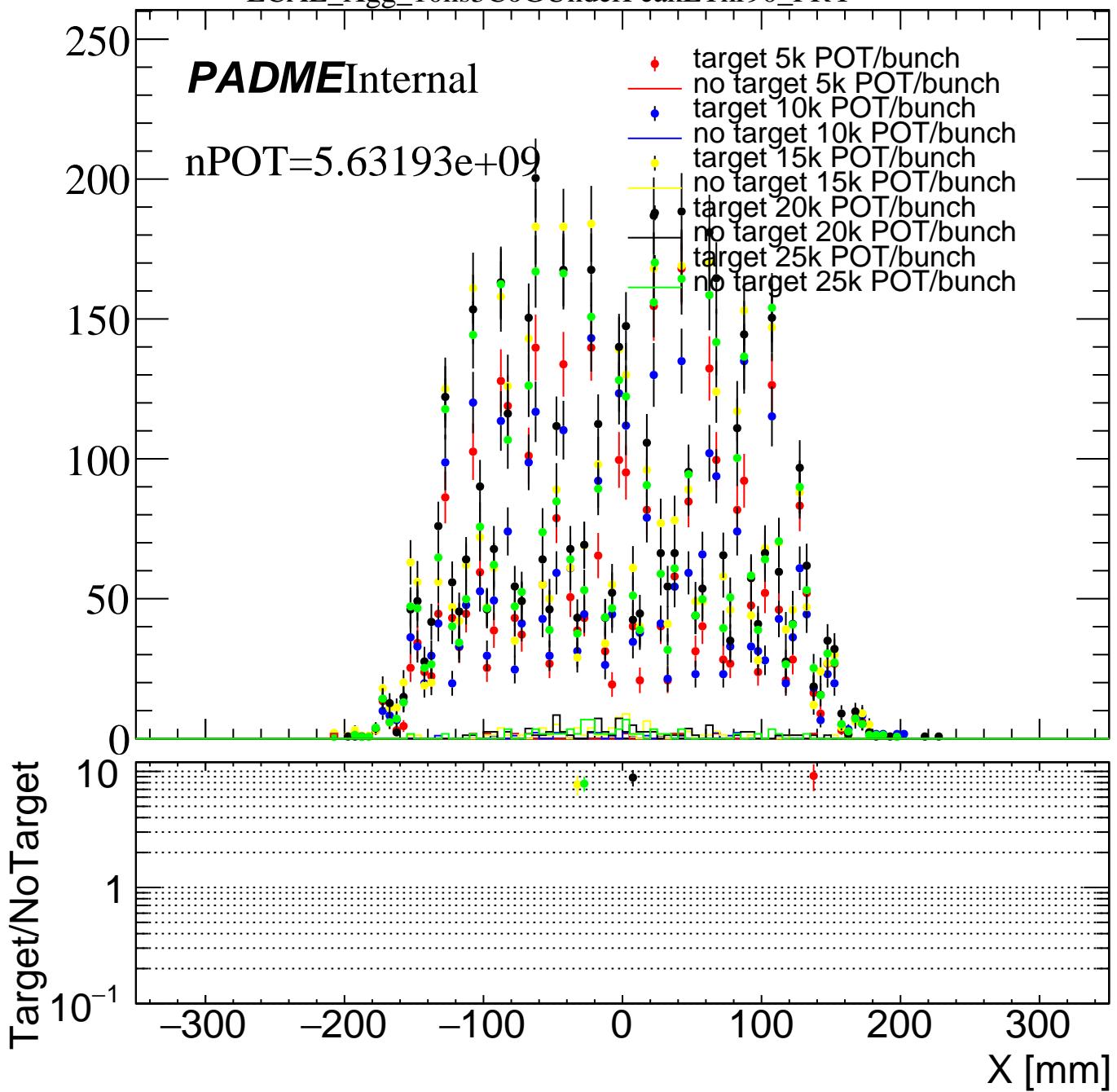
# ECAL\_Xgg\_10ns3CoGUnderPeak



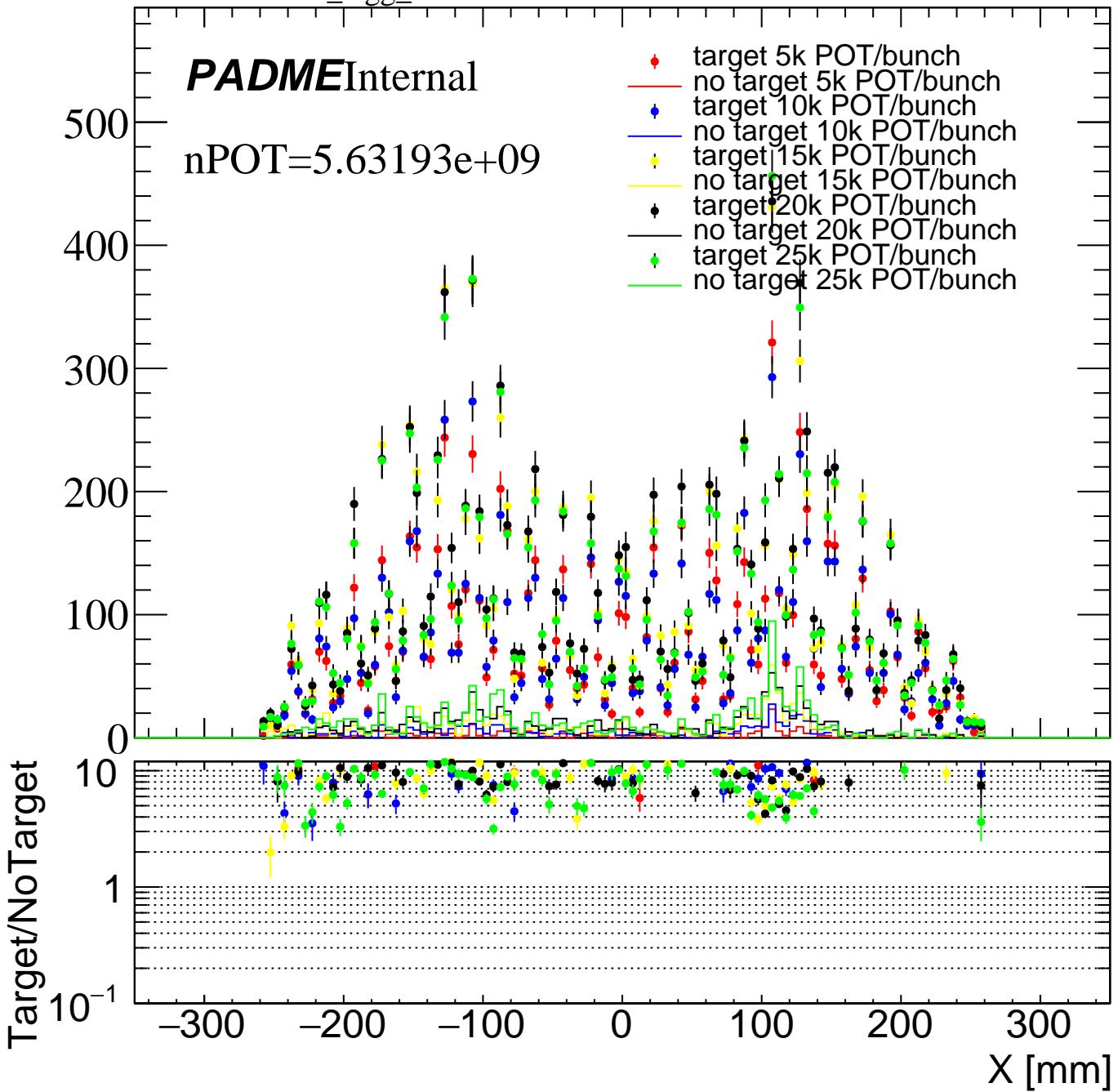
ECAL\_Xgg\_10ns3CoGUnderPeakEThr90



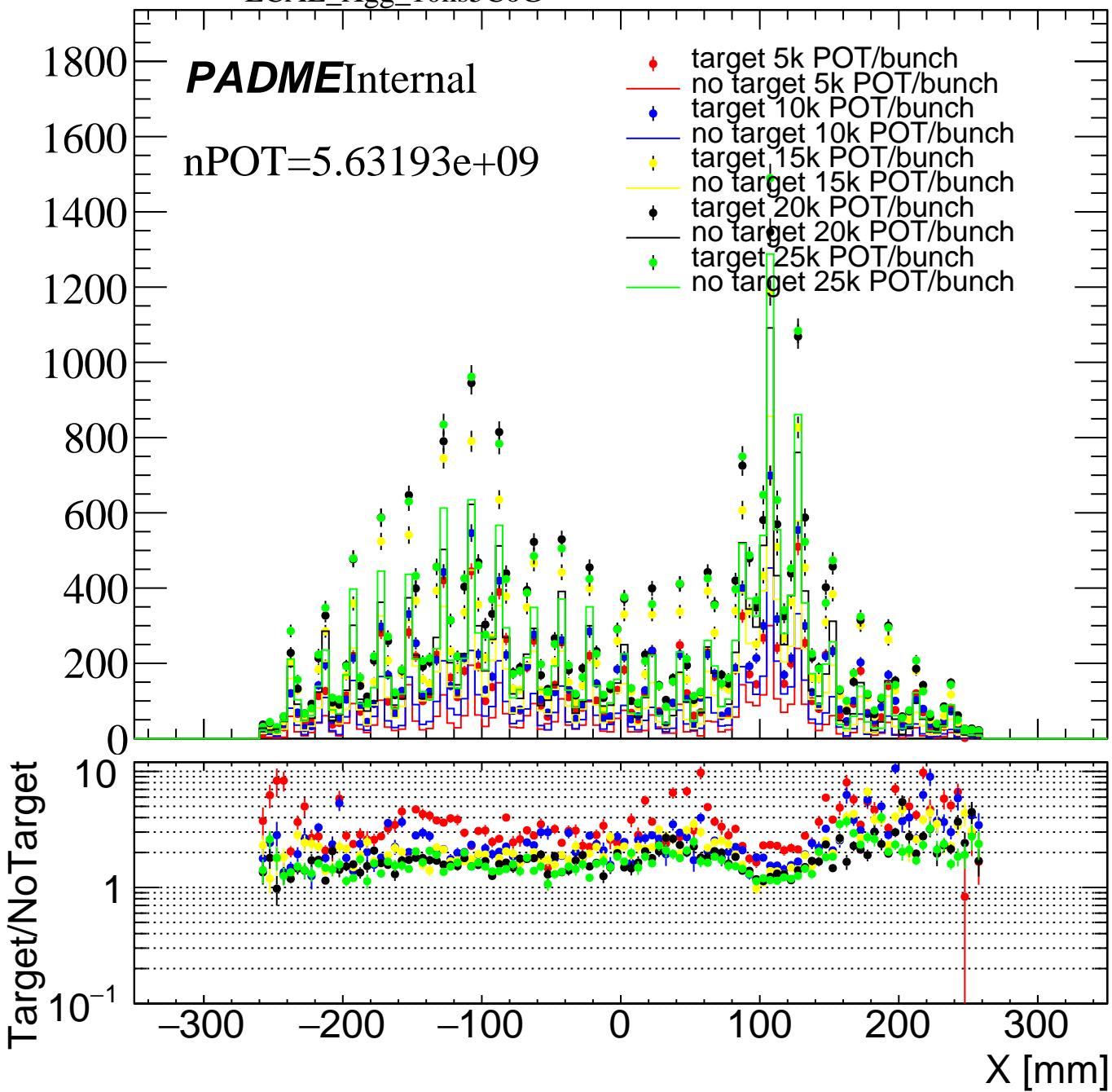
ECAL\_Xgg\_10ns3CoGUnderPeakEThr90\_FRY



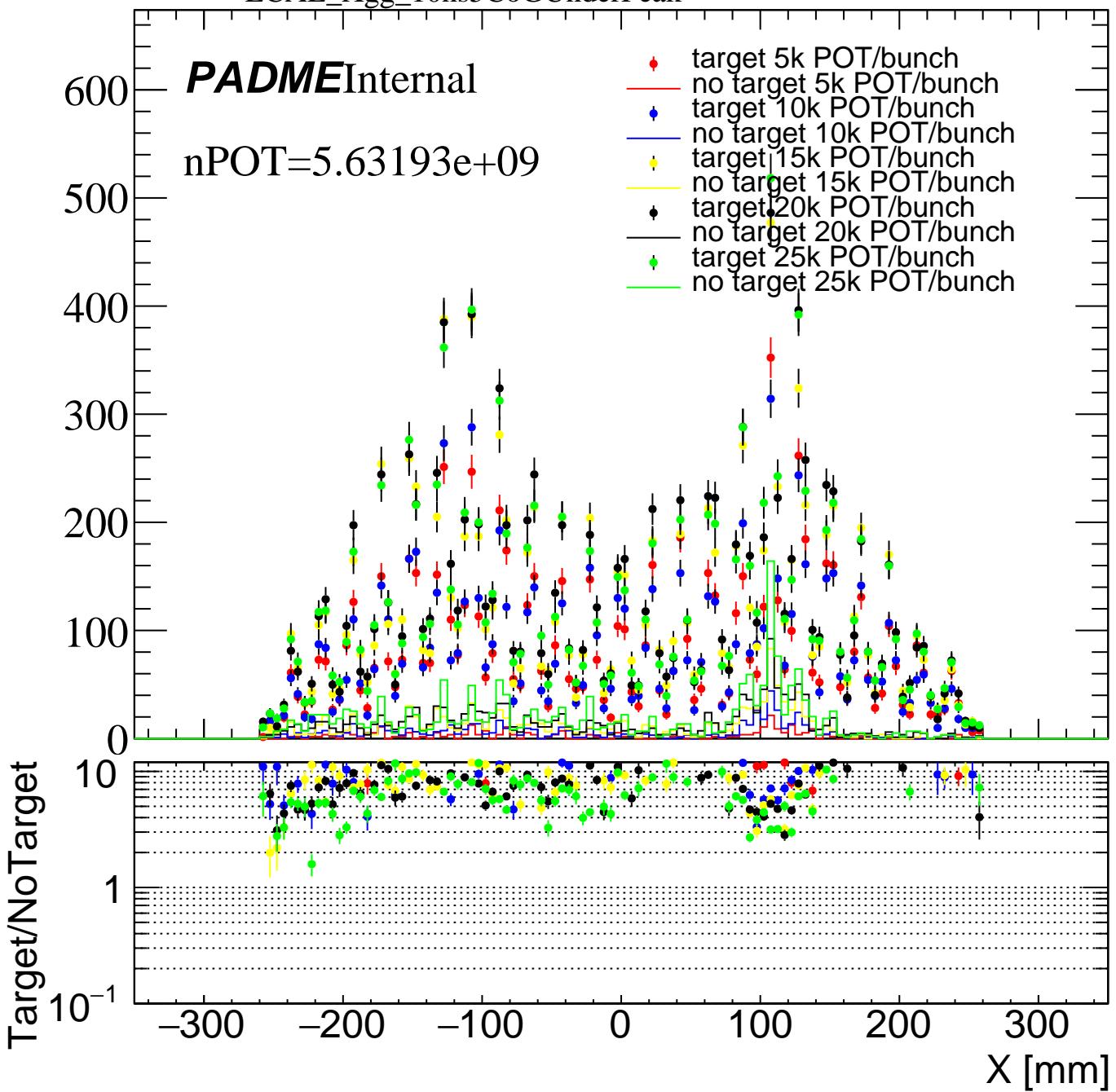
ECAL\_Xgg\_10ns3CoGEThr90



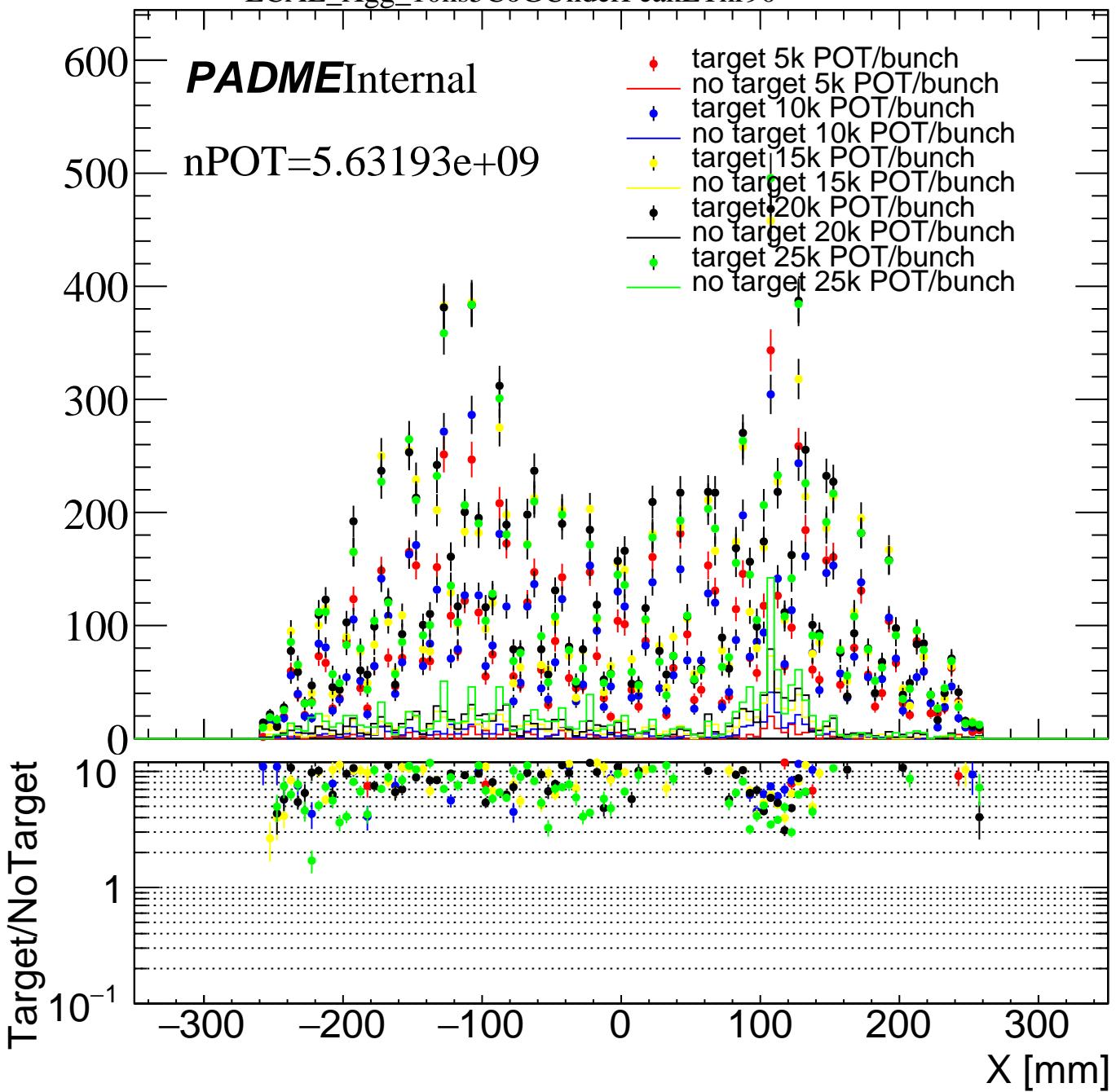
# ECAL\_Xgg\_10ns5CoG



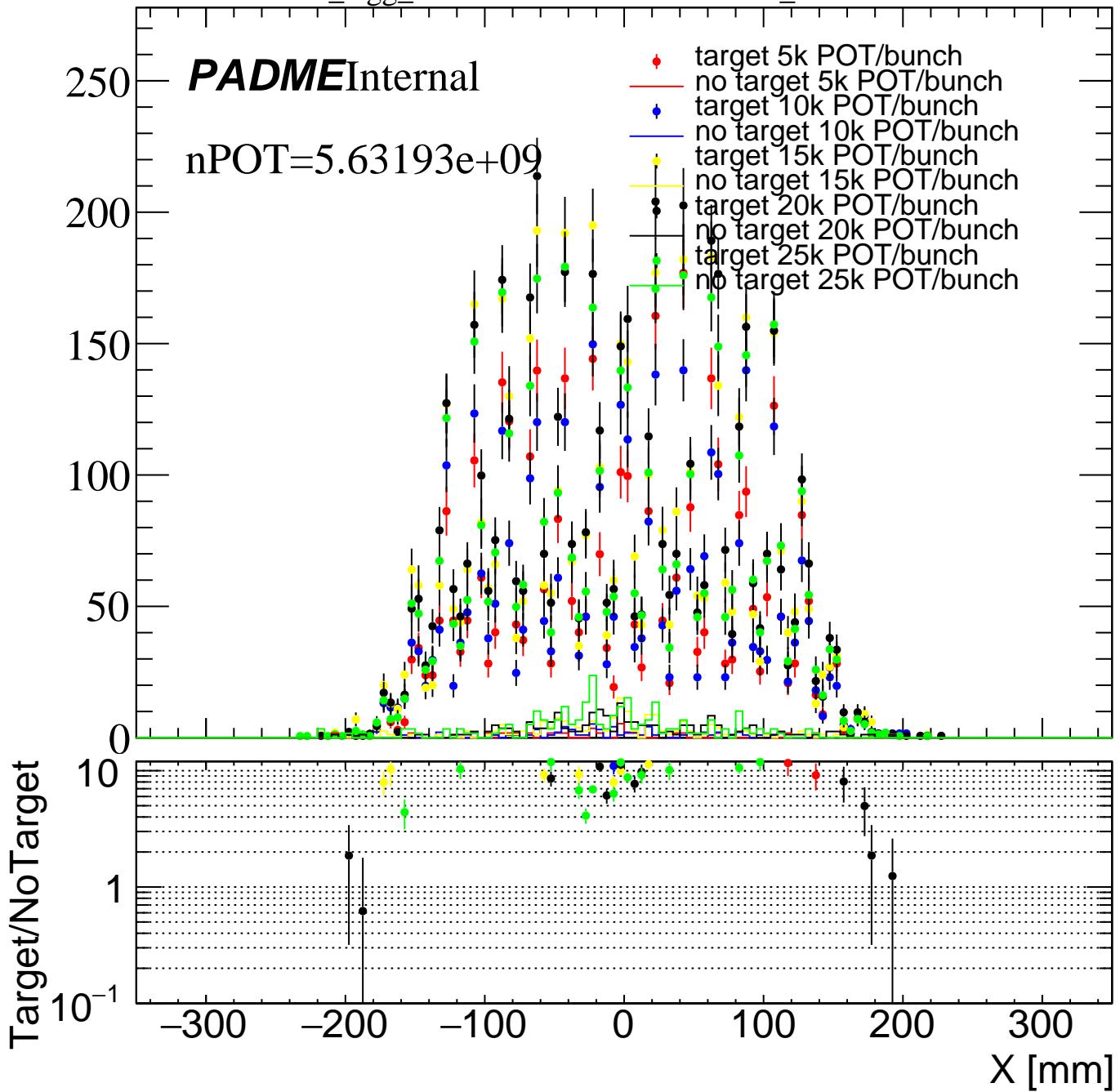
ECAL\_Xgg\_10ns5CoGUnderPeak



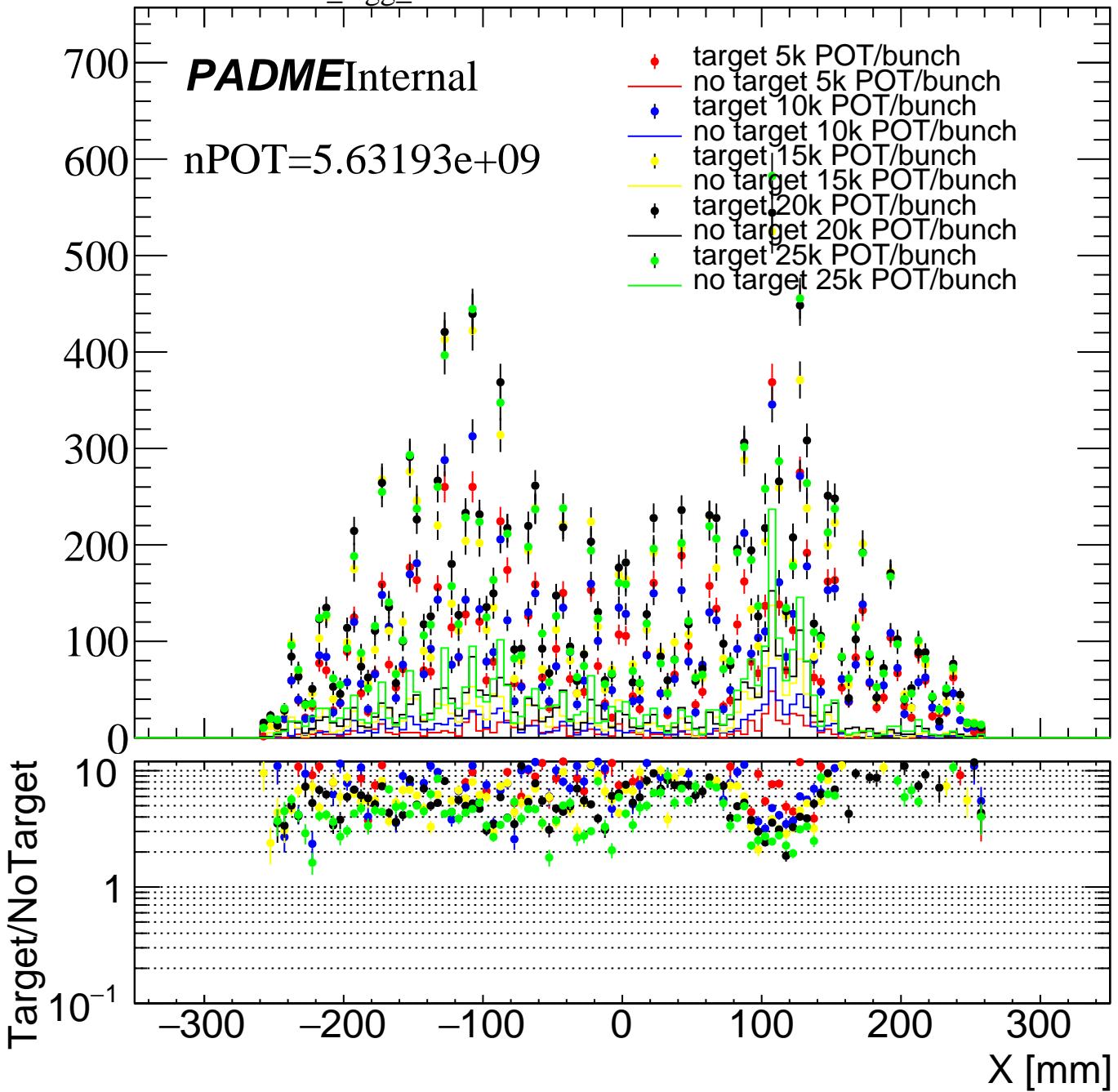
# ECAL\_Xgg\_10ns5CoGUnderPeakEThr90



# ECAL\_Xgg\_10ns5CoGUnderPeakEThr90\_FRY



ECAL\_Xgg\_10ns5CoGEThr90

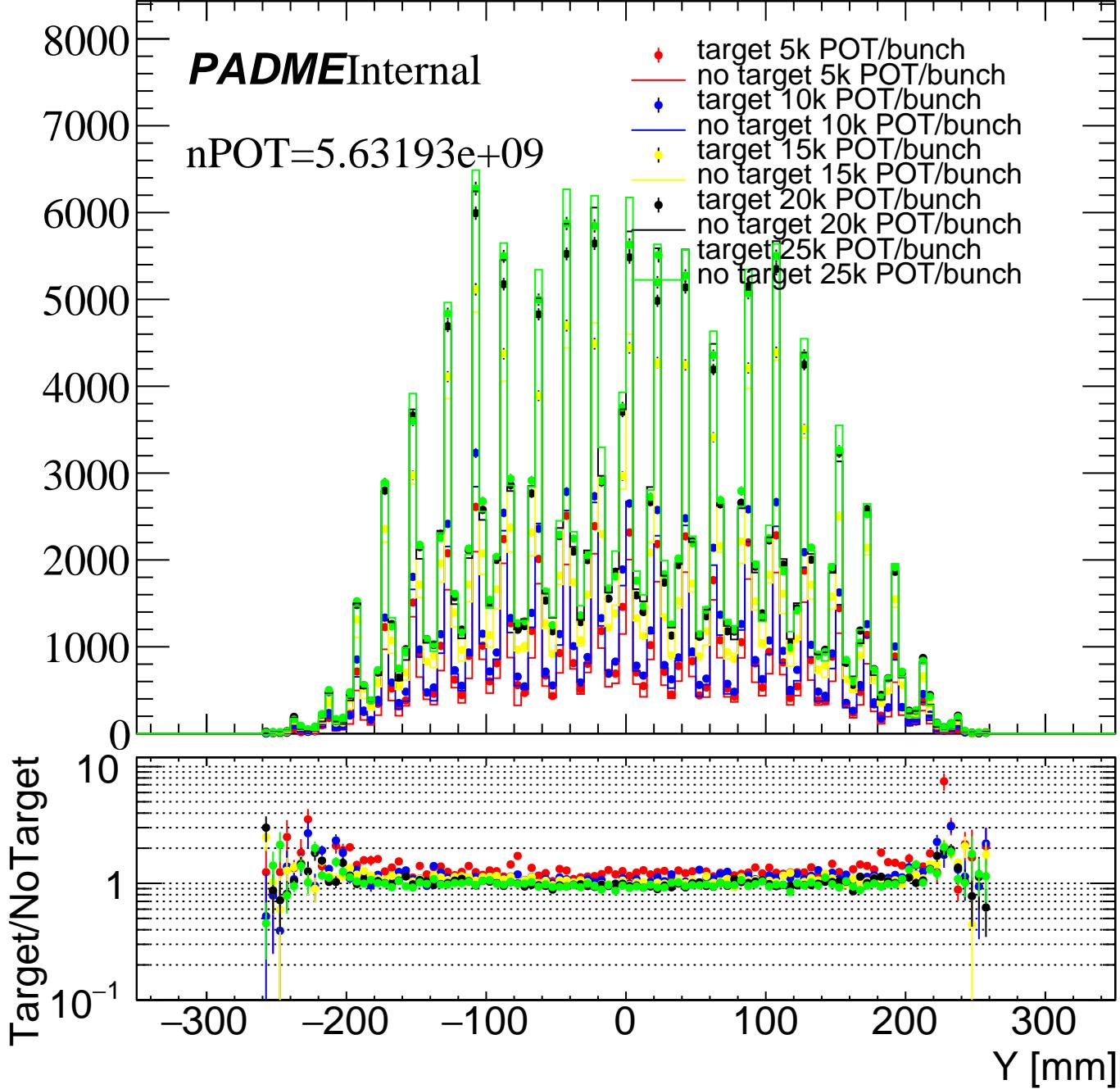


ECAL\_Ygg\_10ns

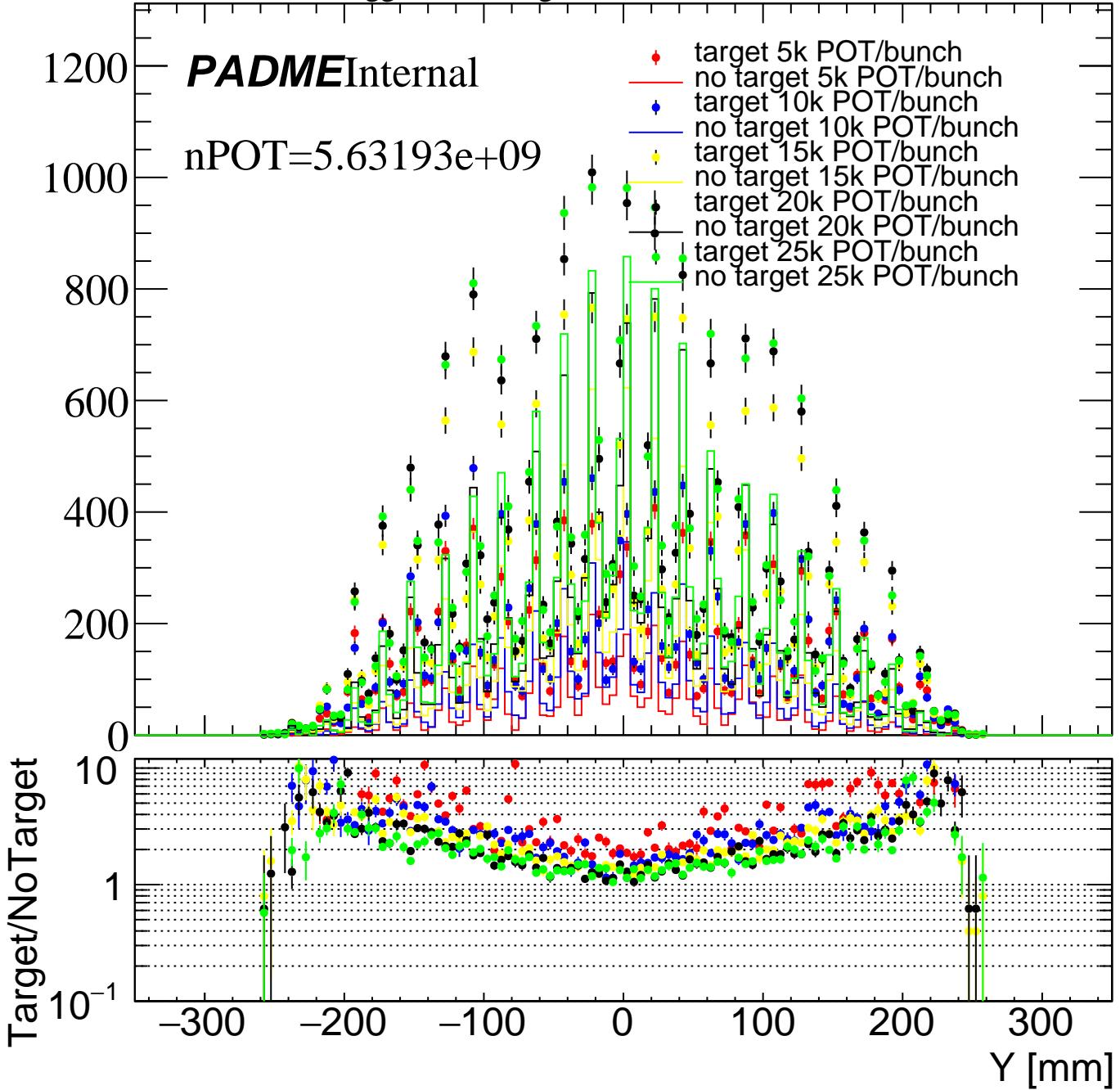
**PADME**Internal

nPOT=5.63193e+09

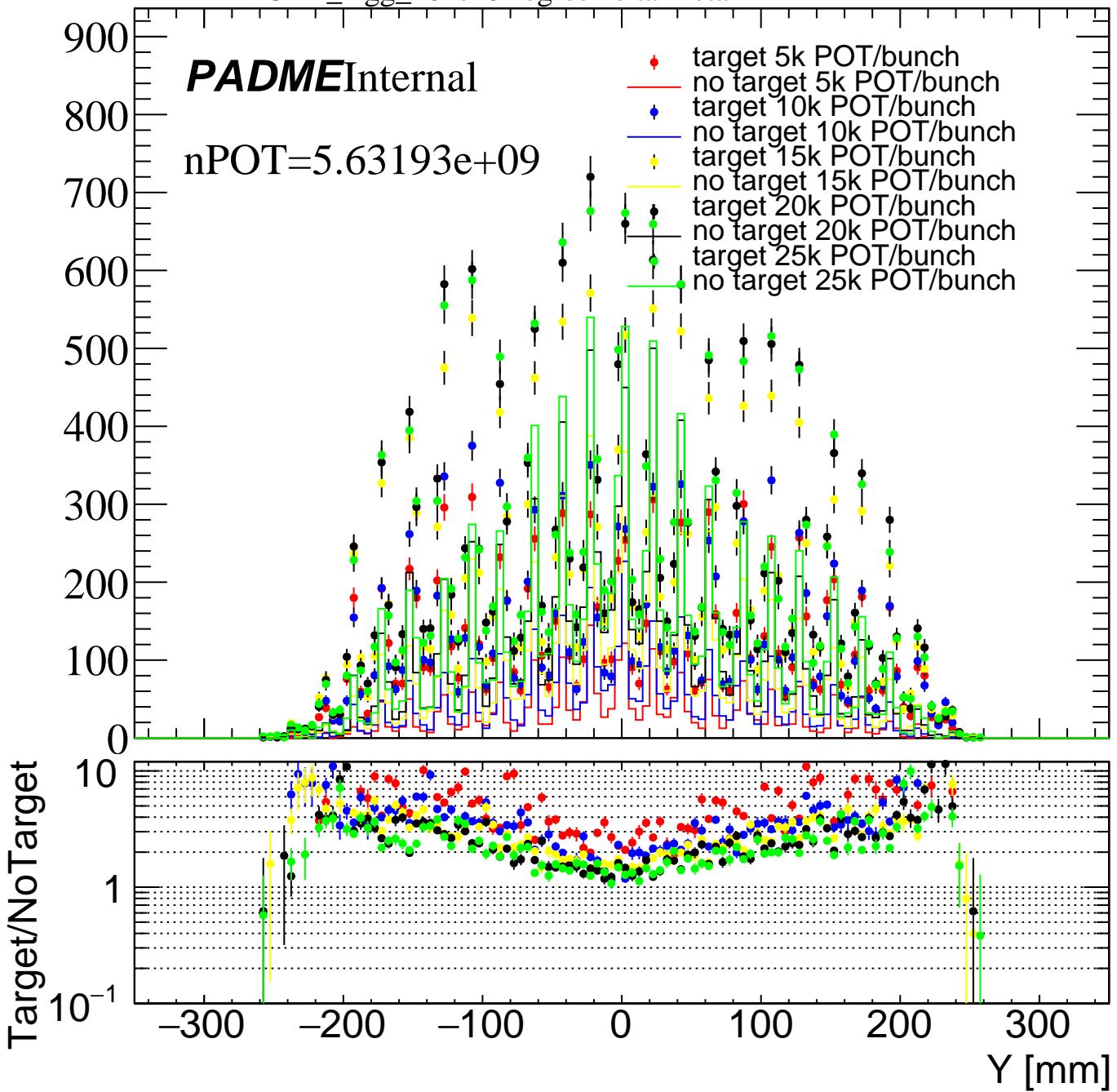
- target 5k POT/bunch
- no target 5k POT/bunch
- target 10k POT/bunch
- no target 10k POT/bunch
- target 15k POT/bunch
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- no target 20k POT/bunch
- target 25k POT/bunch
- no target 25k POT/bunch



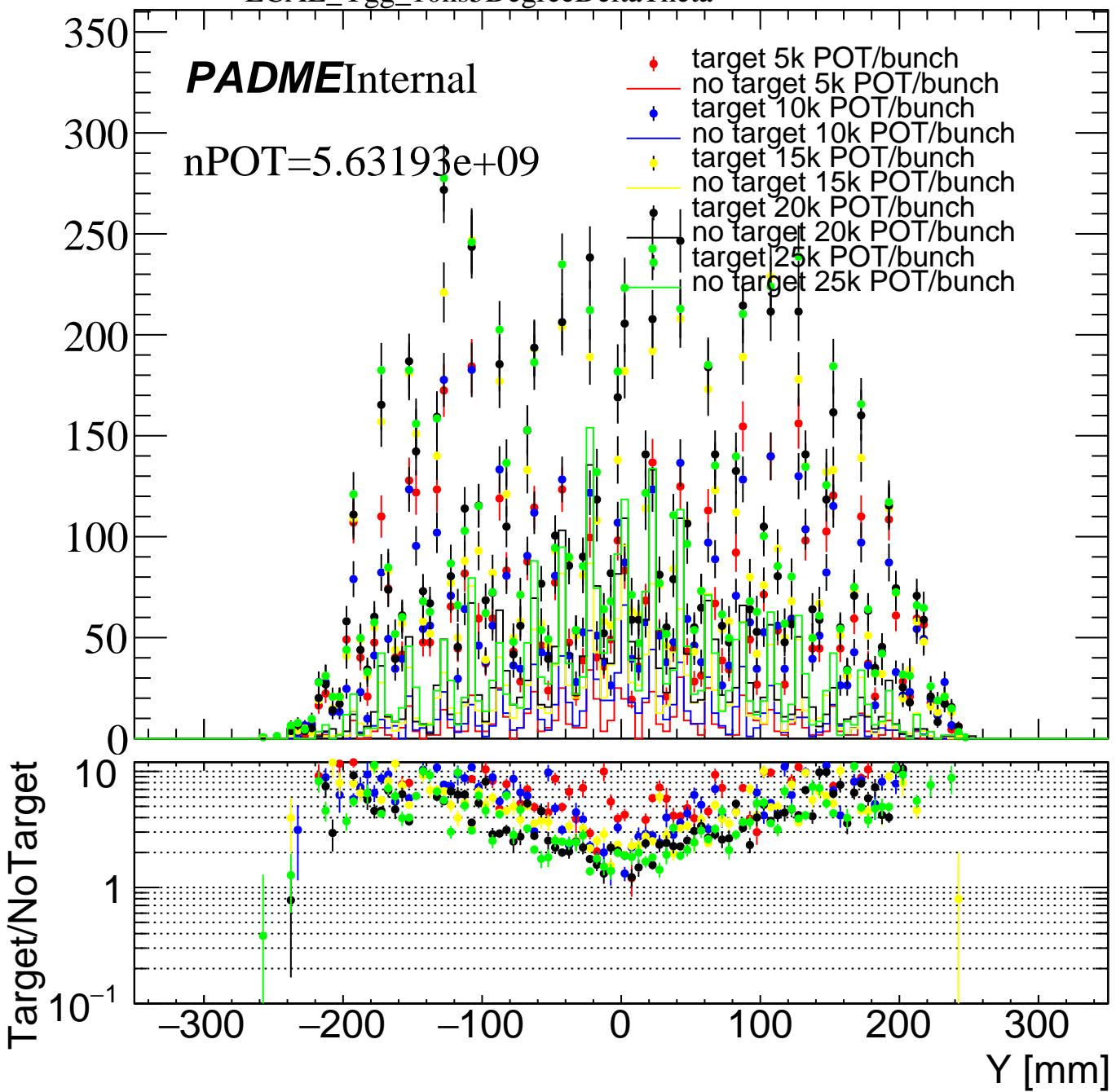
ECAL\_Ygg\_10ns20Degree



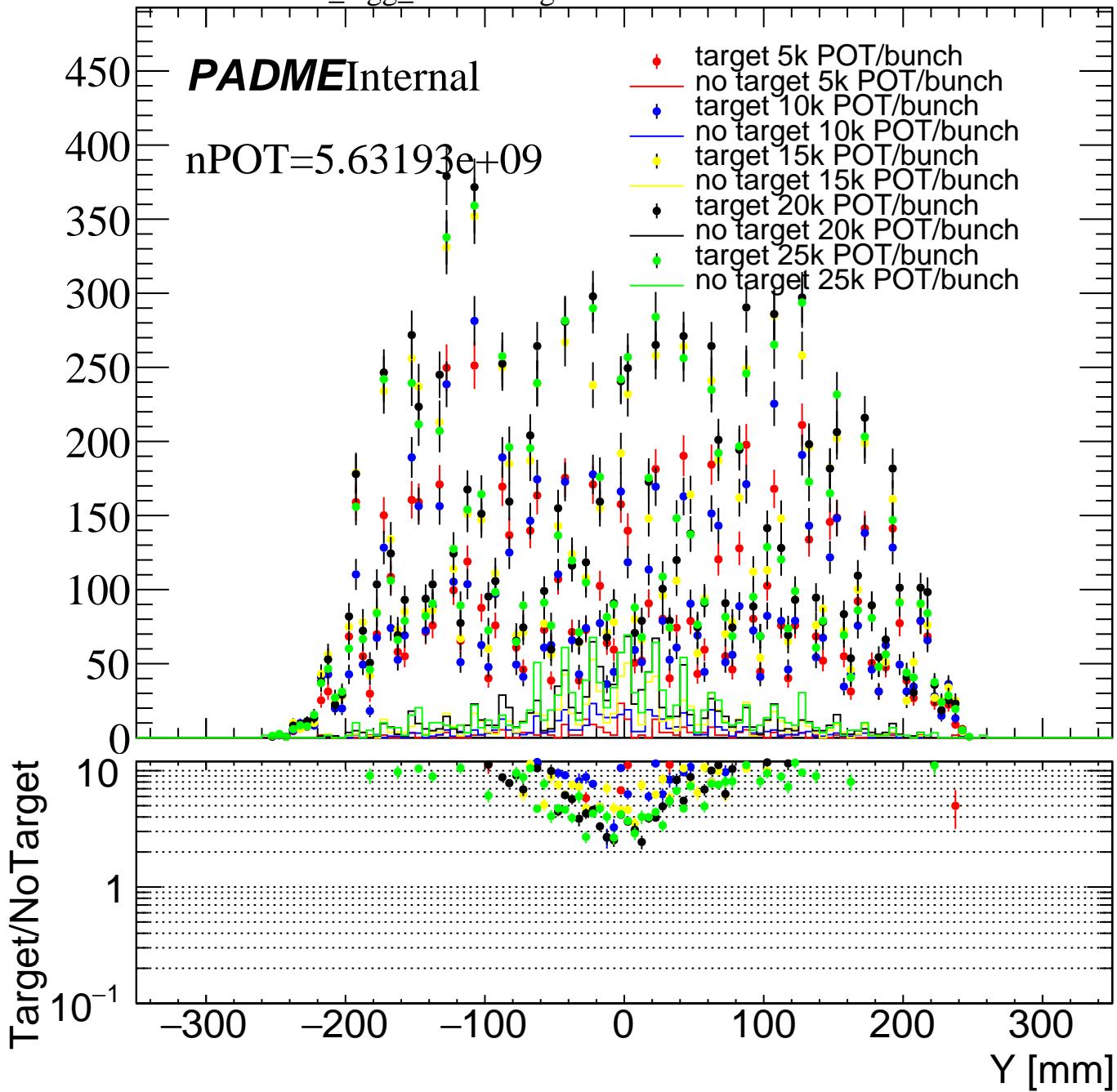
ECAL\_Ygg\_10ns20DegreeDeltaTheta



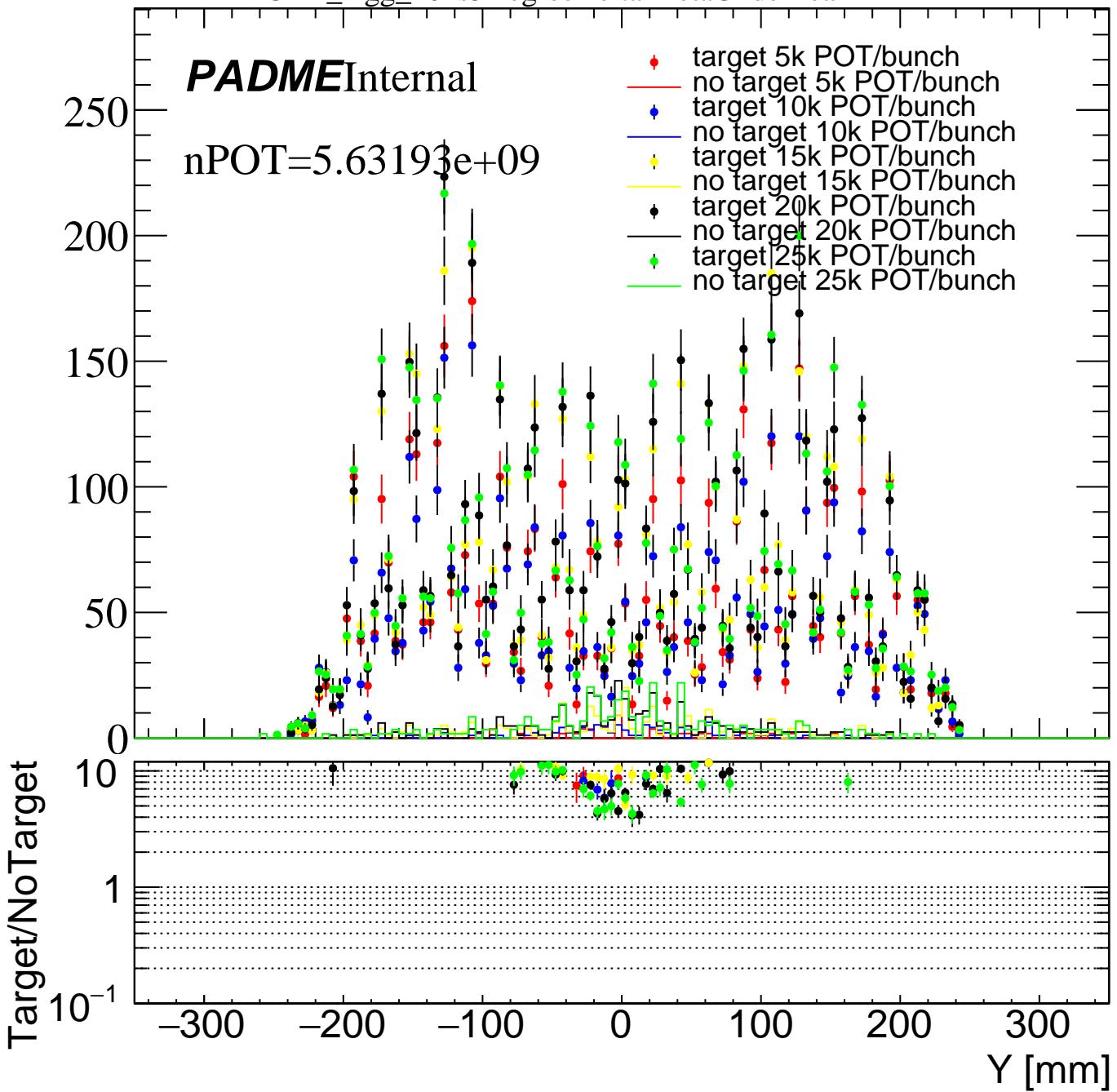
# ECAL\_Ygg\_10ns5DegreeDeltaTheta



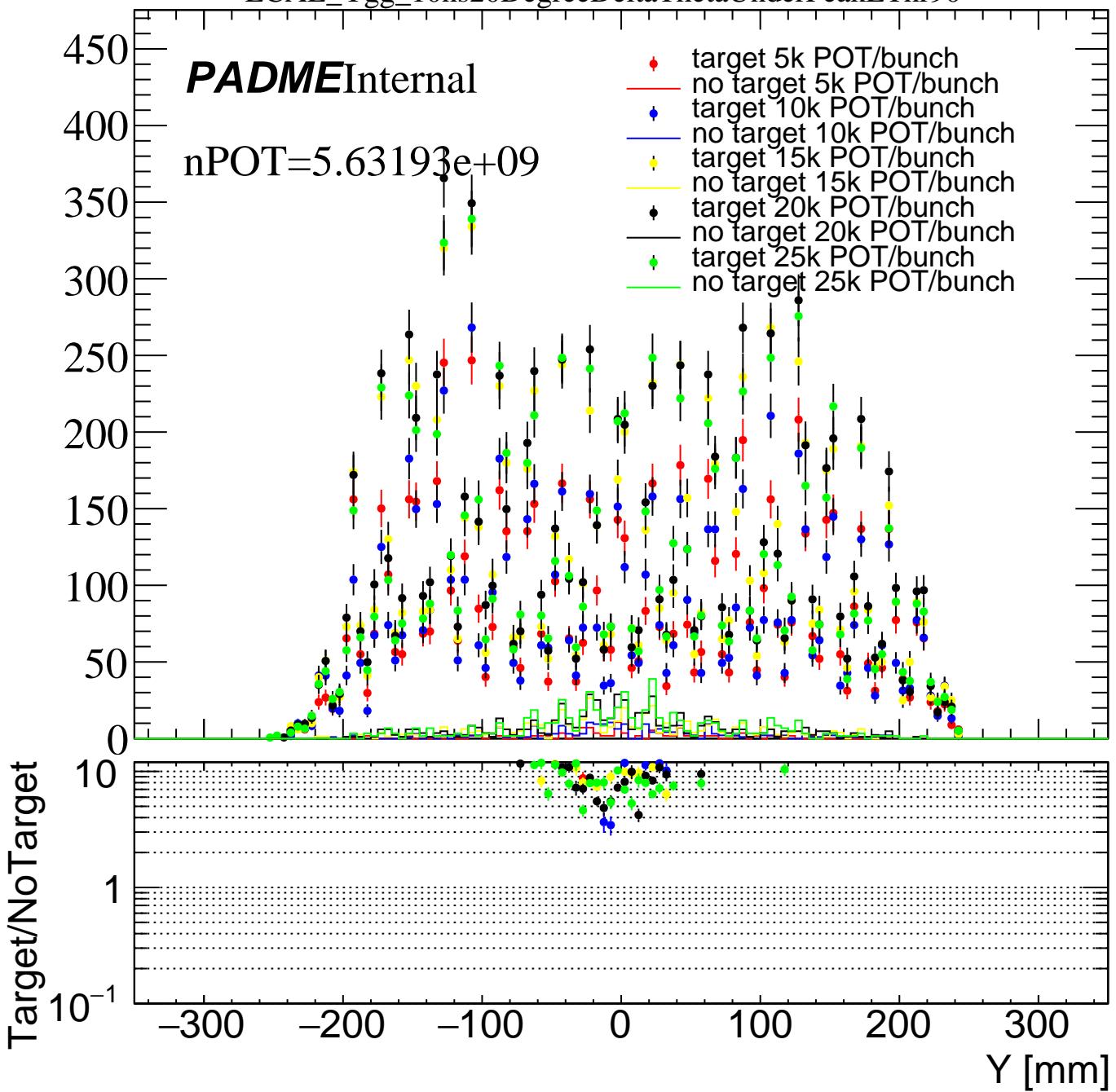
# ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeak



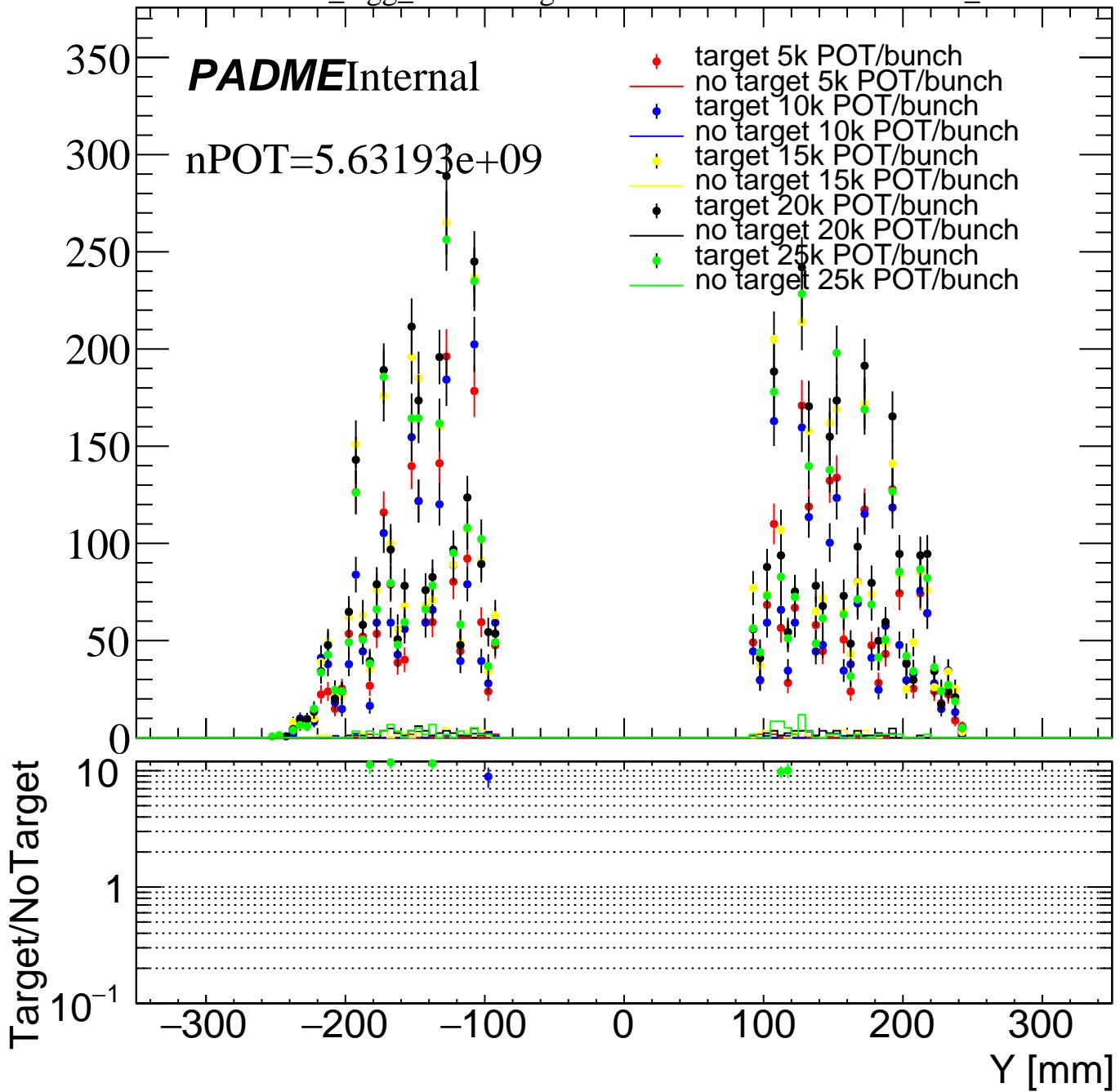
# ECAL\_Ygg\_10ns5DegreeDeltaThetaUnderPeak



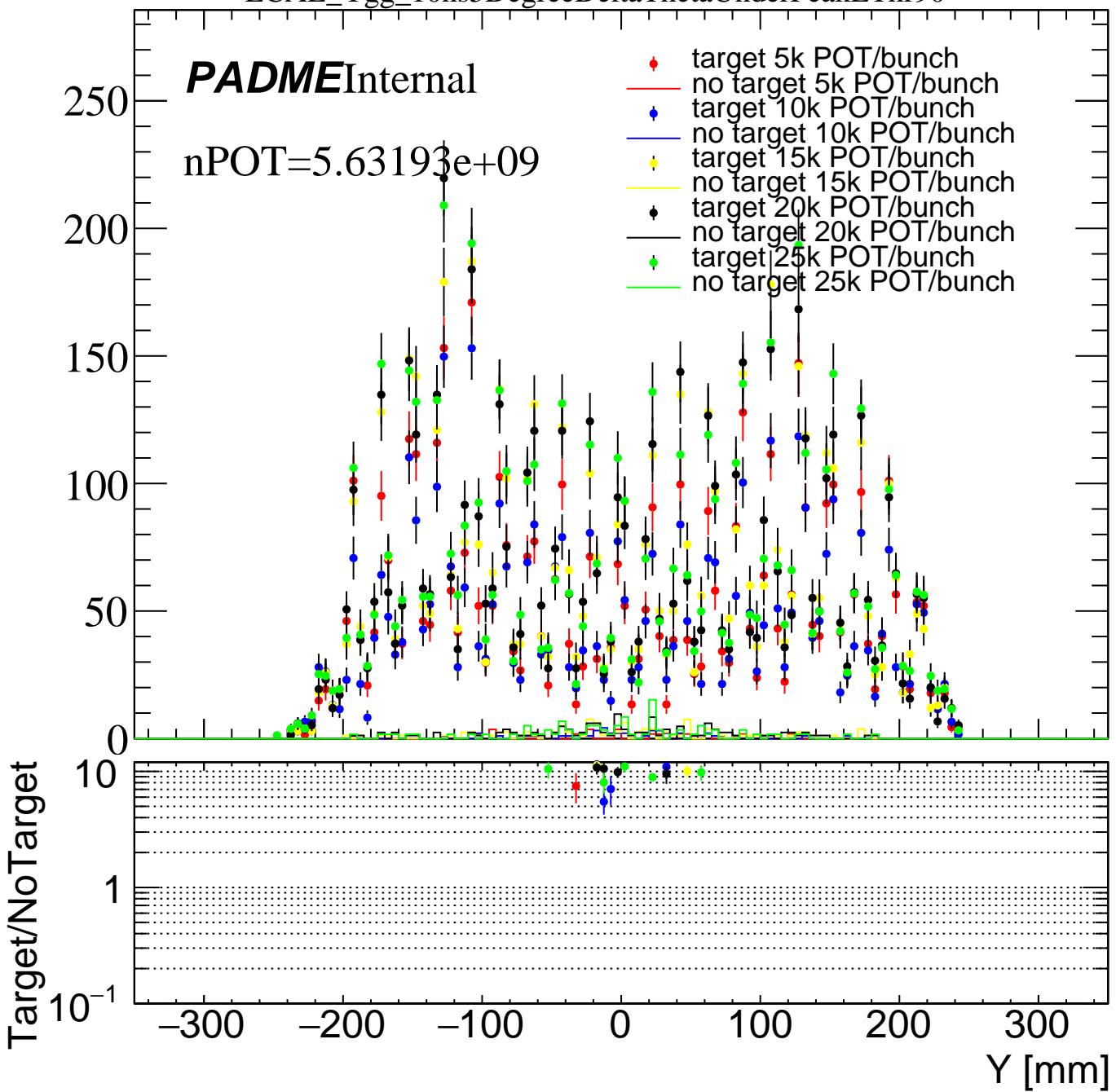
# ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeakEThr90



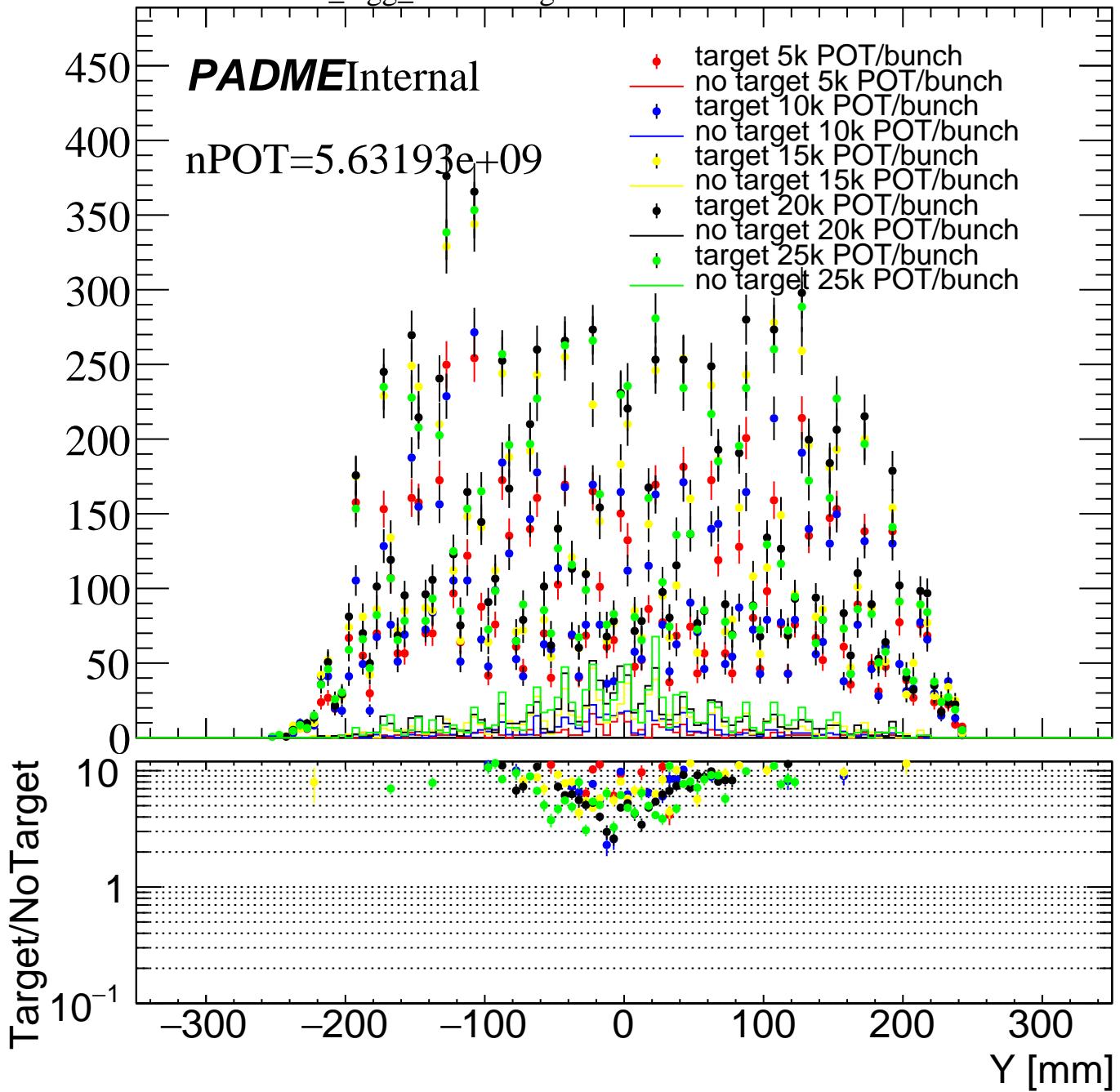
ECAL\_Ygg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY



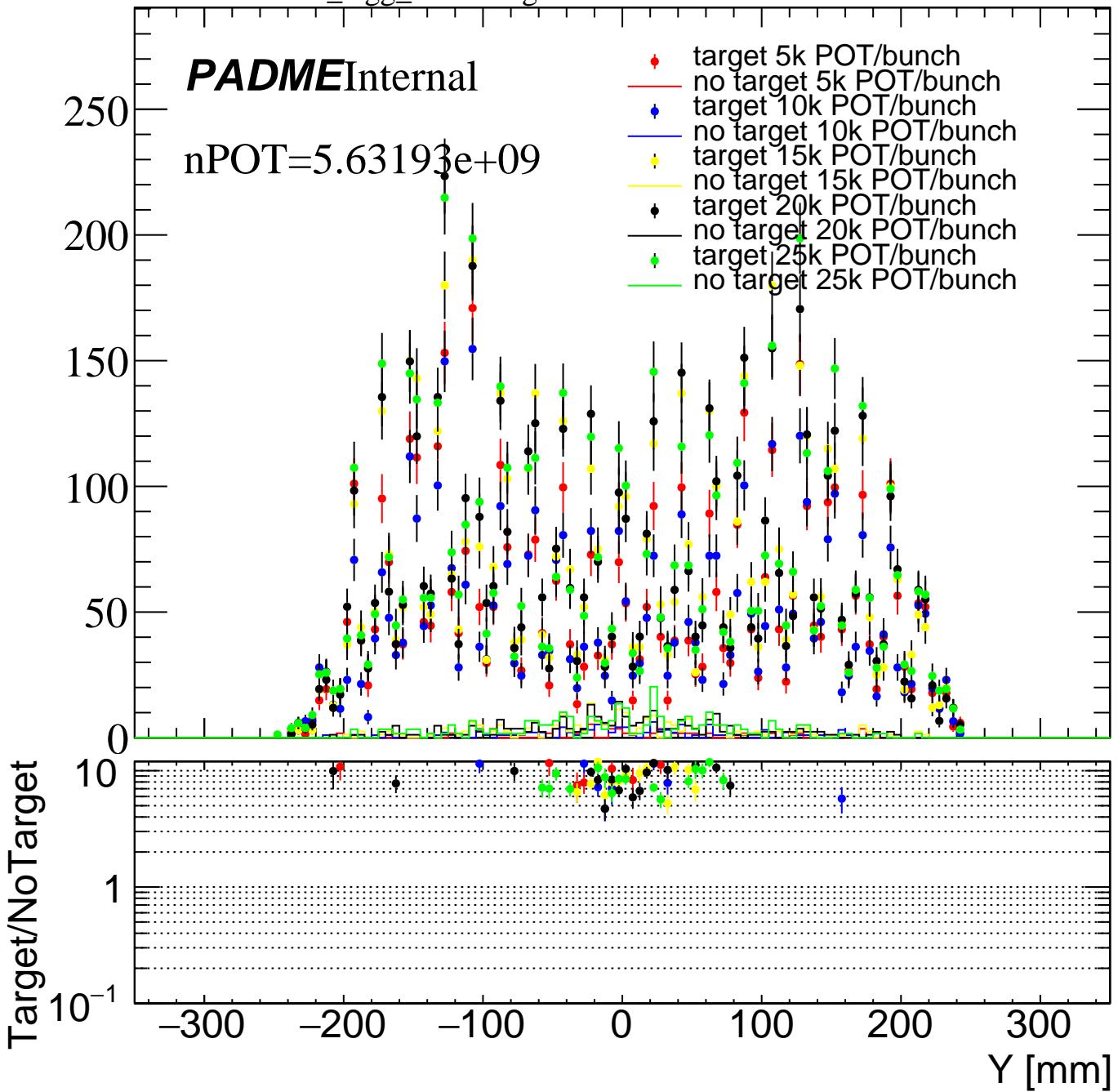
# ECAL\_Ygg\_10ns5DegreeDeltaThetaUnderPeakEThr90



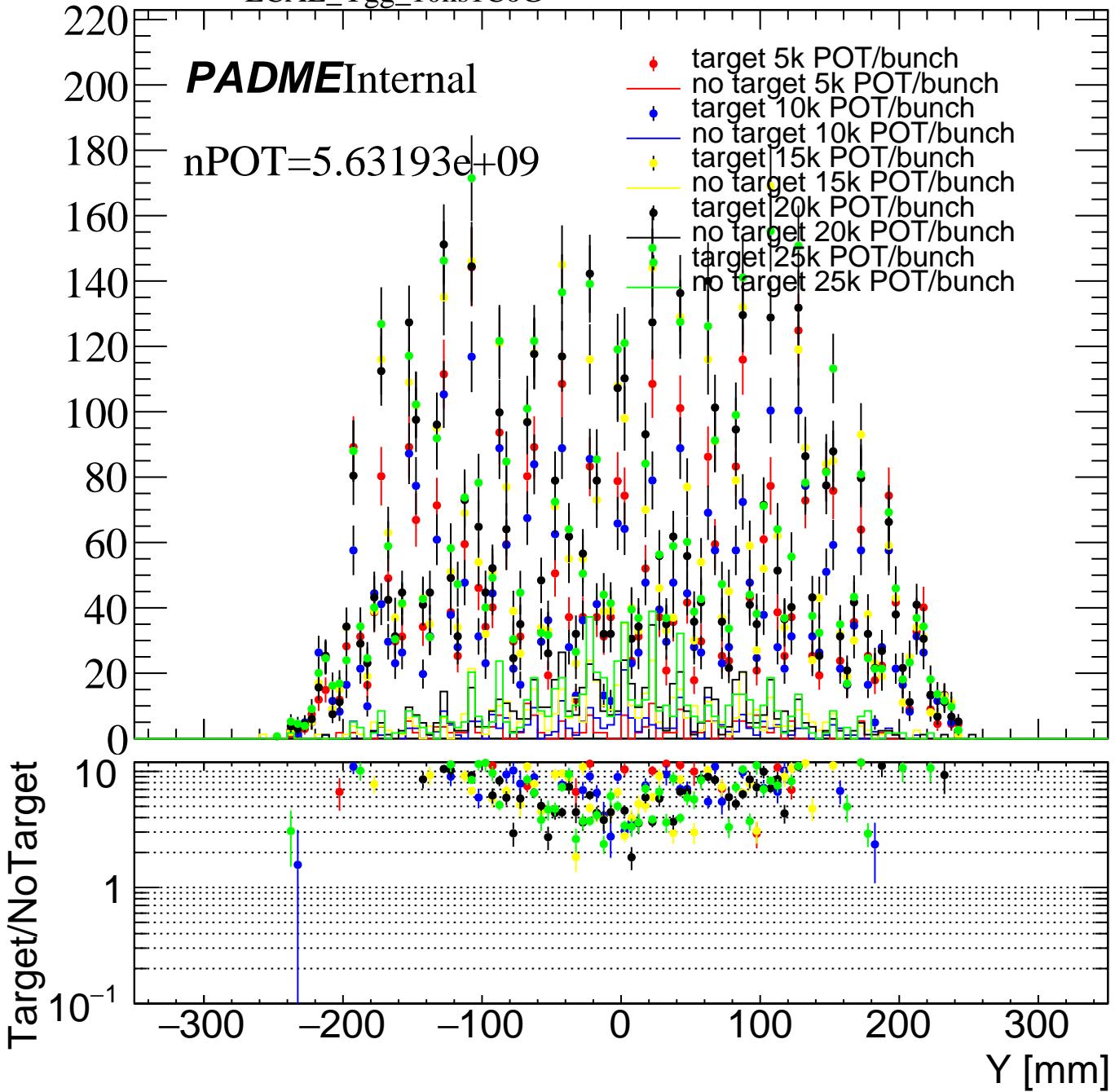
# ECAL\_Ygg\_10ns20DegreeDeltaThetaETHr90



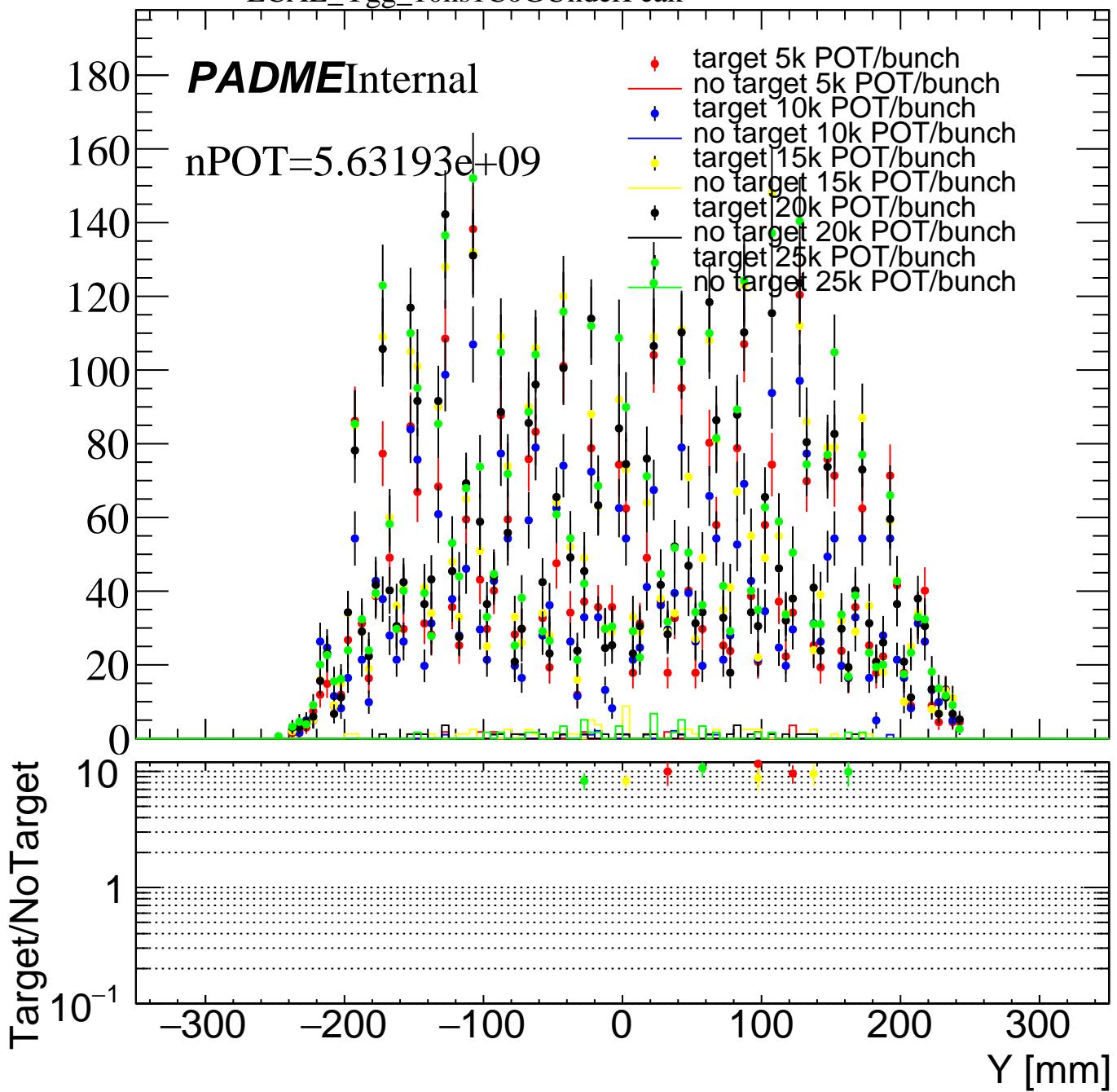
# ECAL\_Ygg\_10ns5DegreeDeltaThetaEThr90



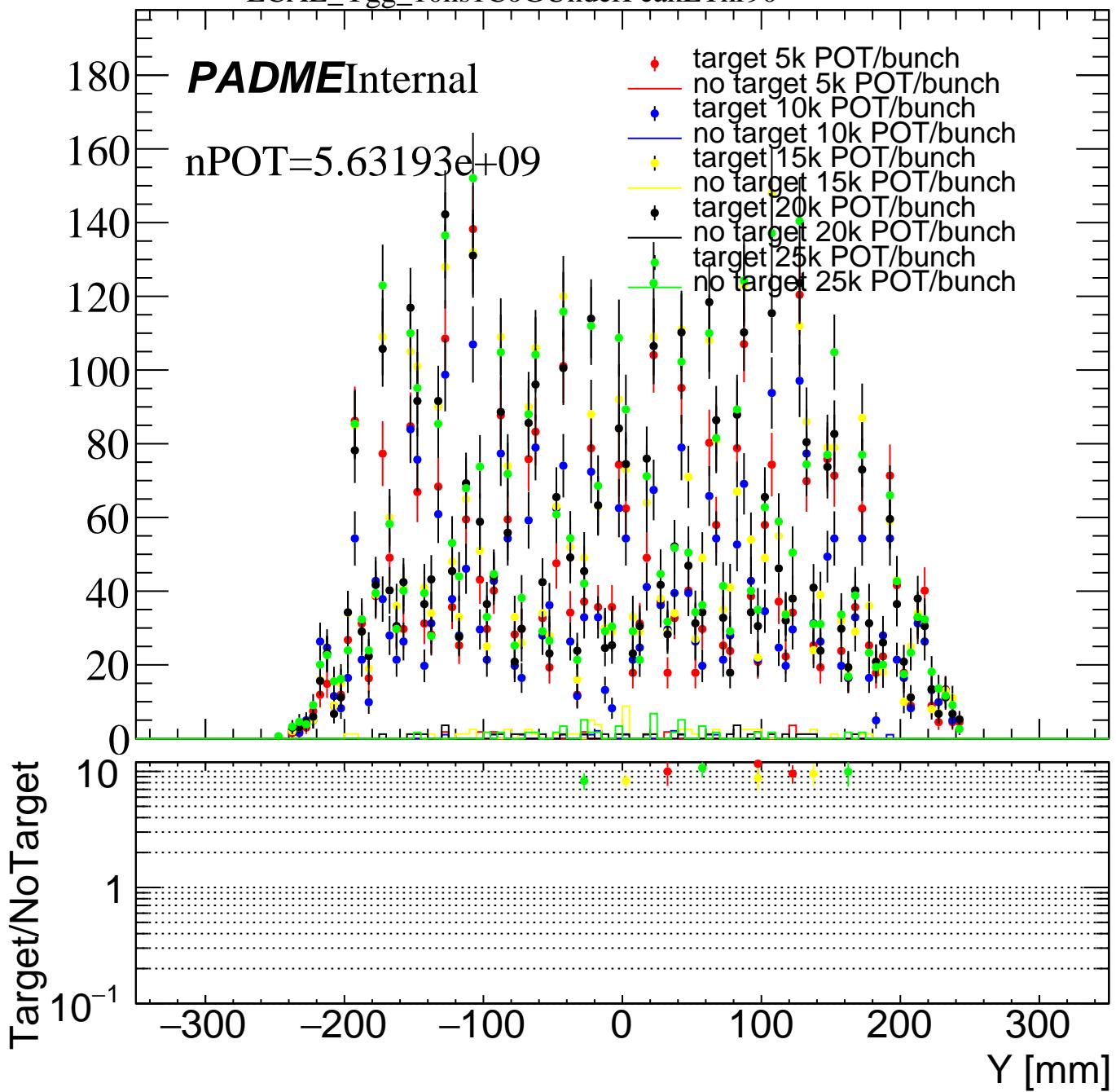
ECAL\_Ygg\_10ns1CoG

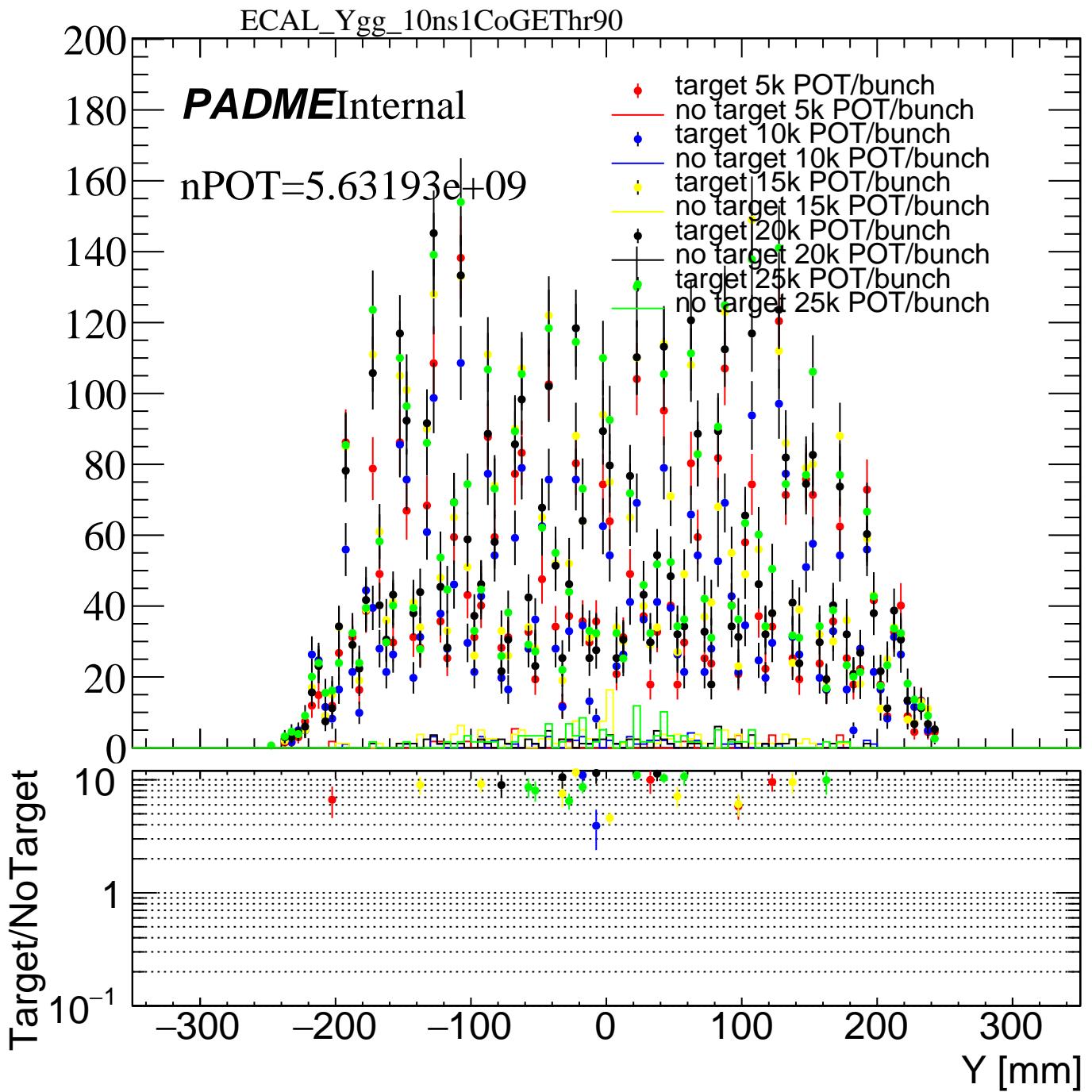


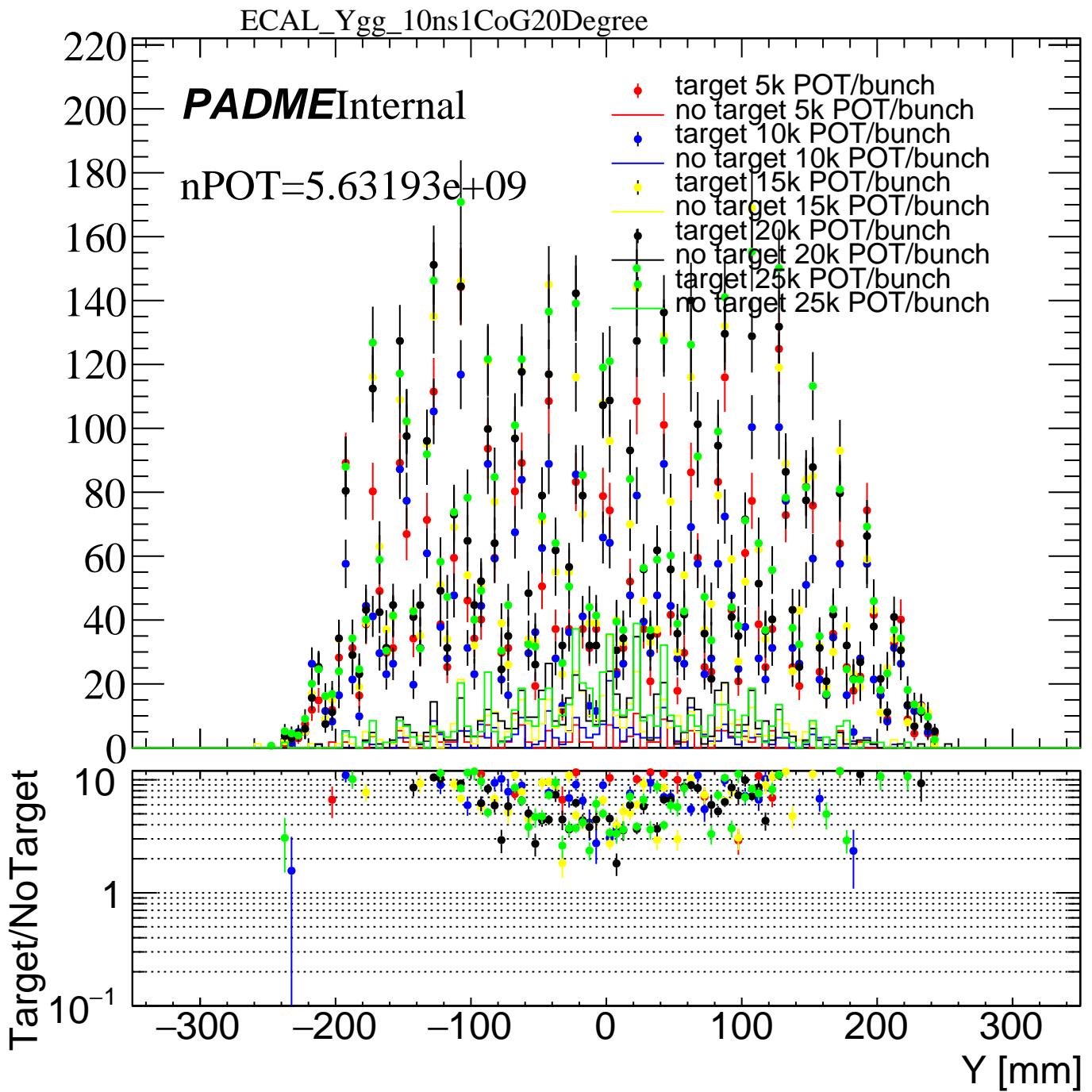
# ECAL\_Ygg\_10ns1CoGUnderPeak



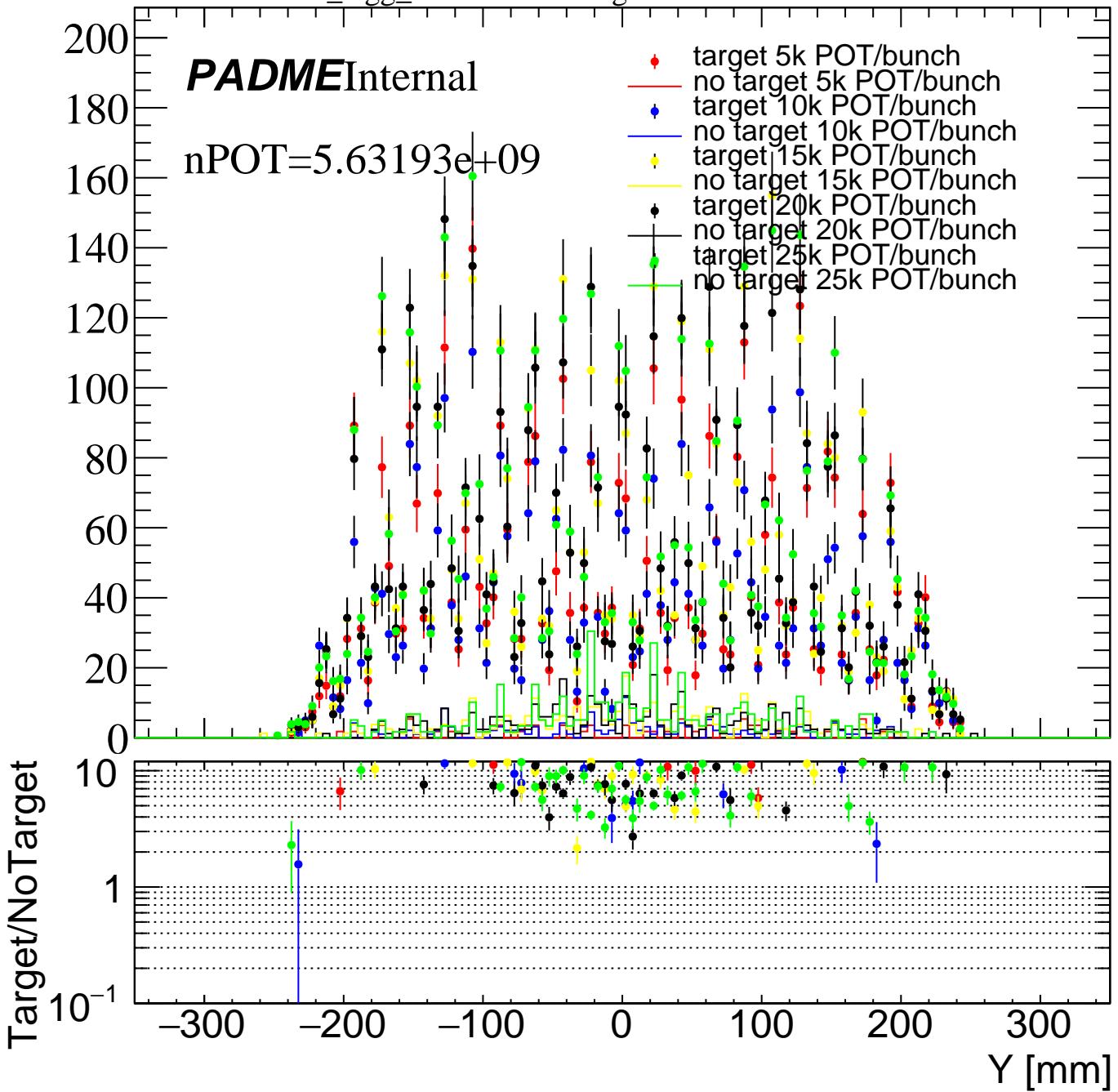
# ECAL\_Ygg\_10ns1CoGUnderPeakETHr90



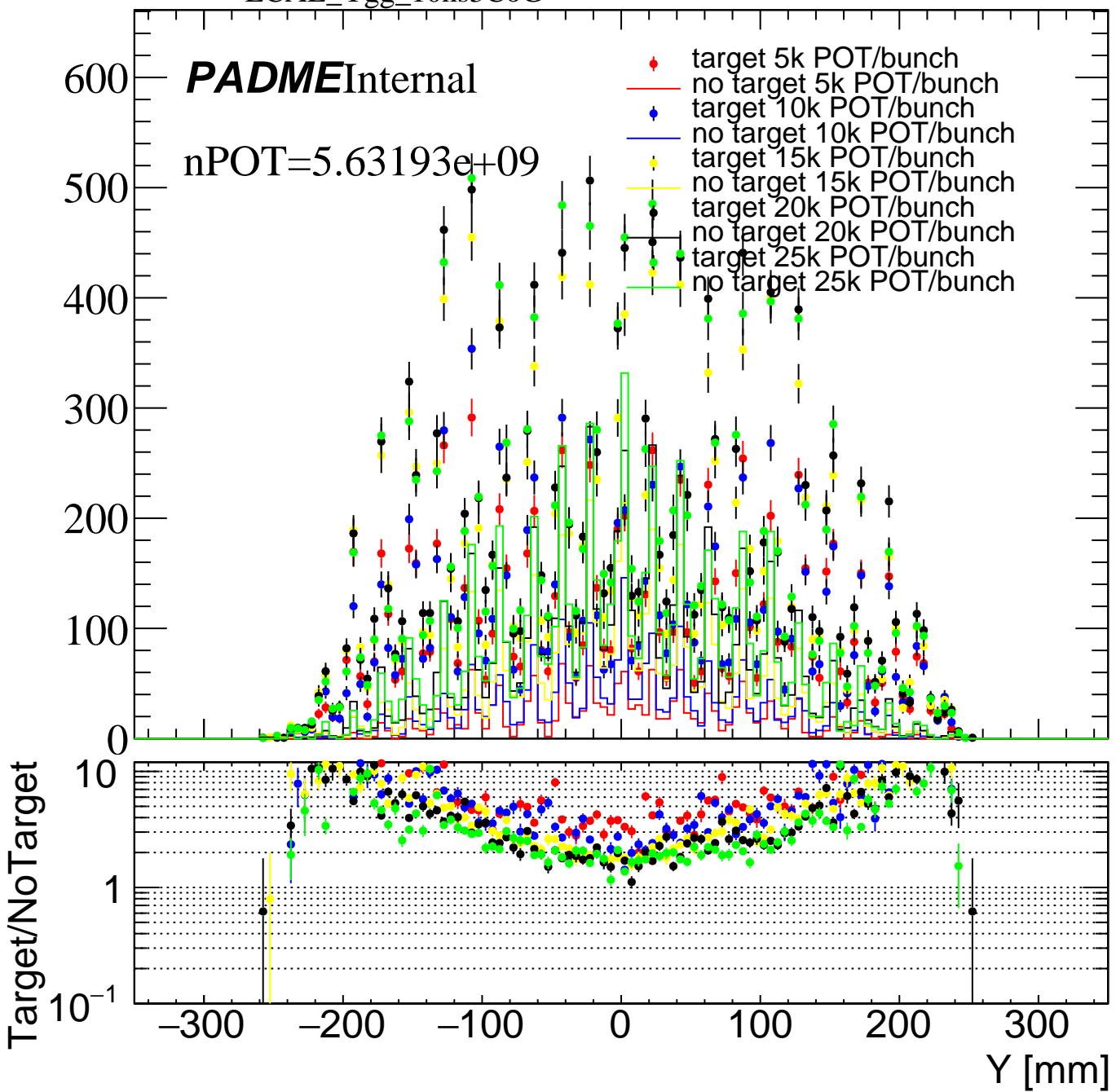




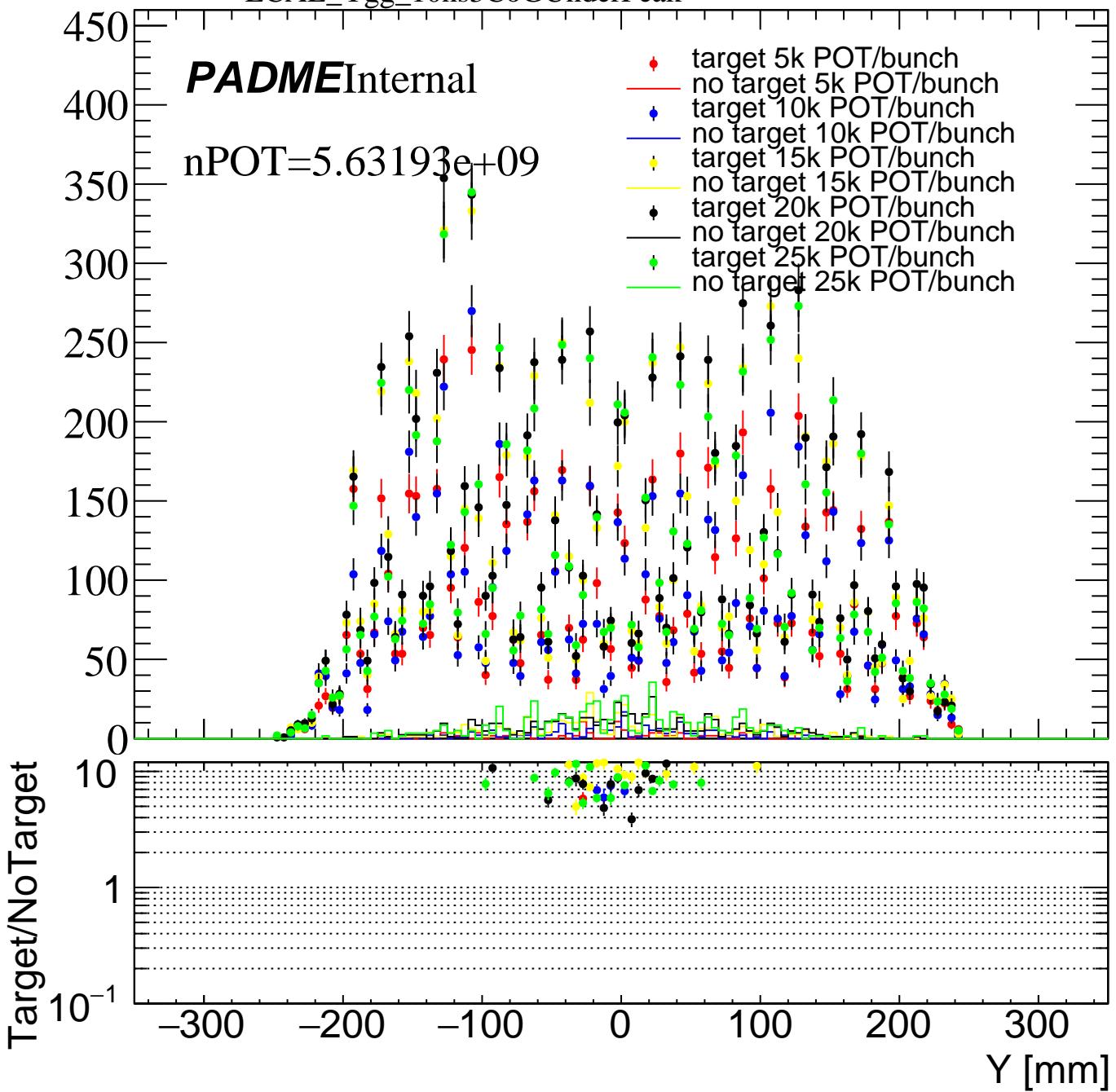
# ECAL\_Ygg\_10ns1CoG20DegreeDeltaTheta



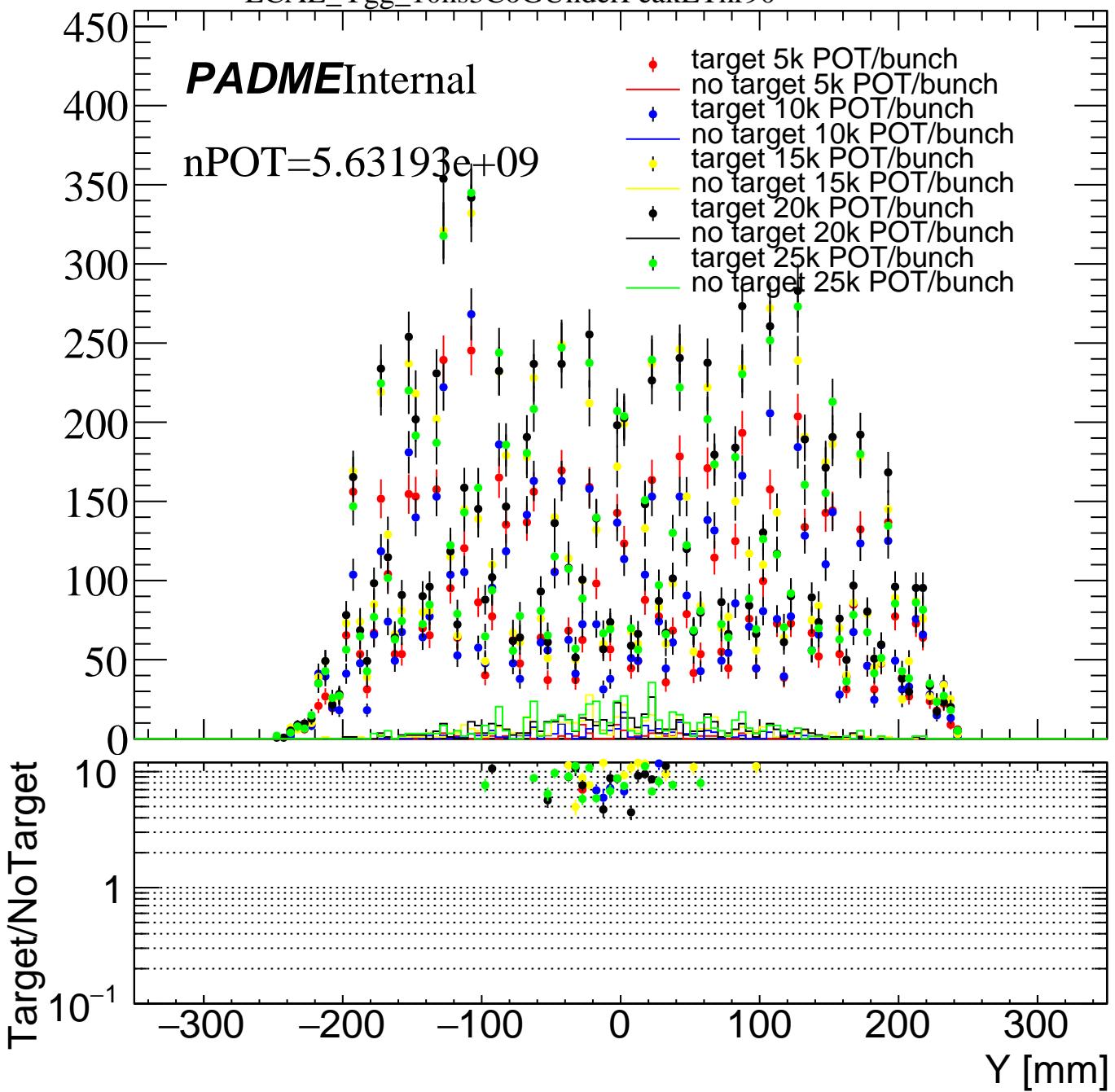
# ECAL\_Ygg\_10ns3CoG



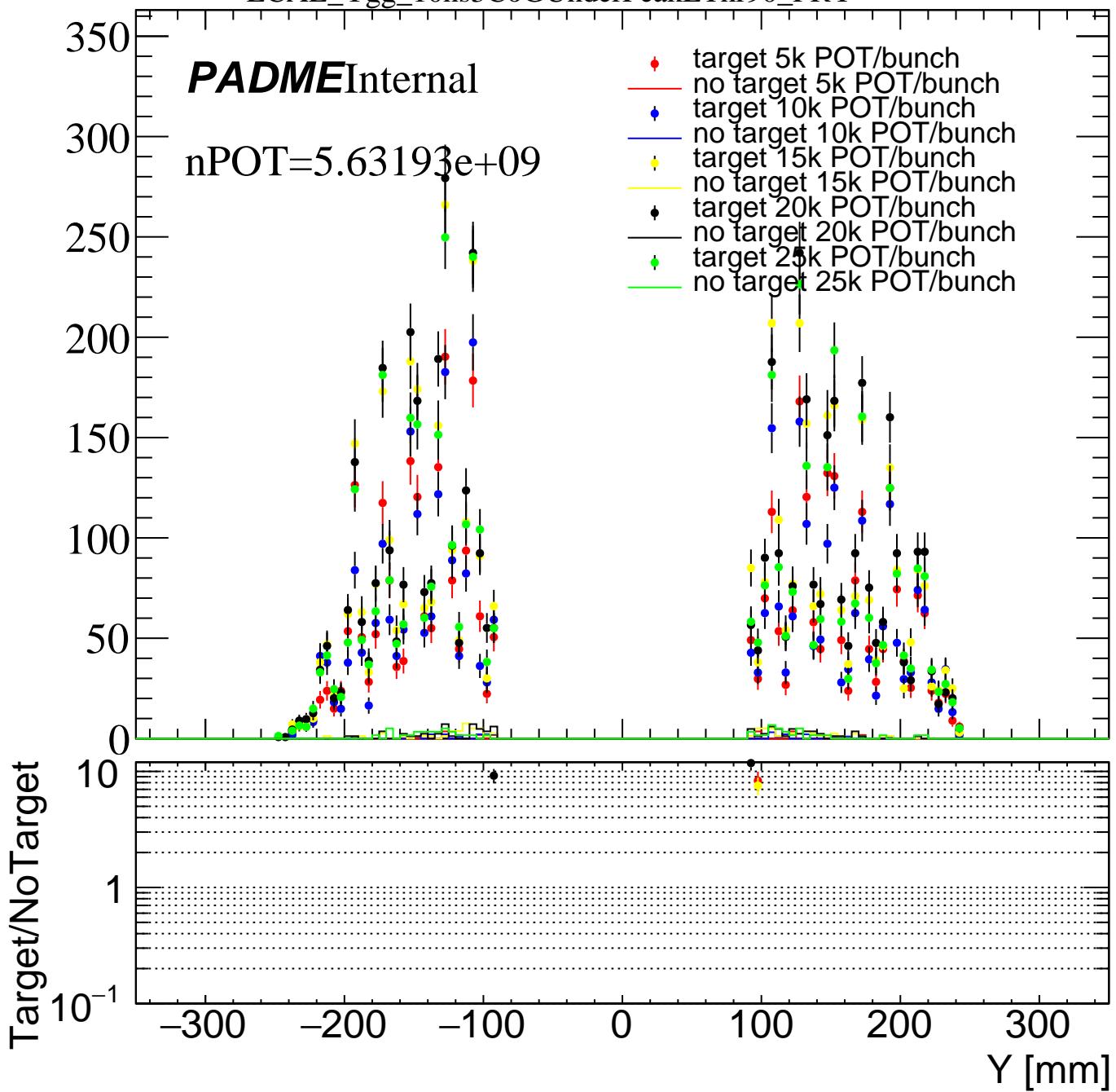
# ECAL\_Ygg\_10ns3CoGUnderPeak



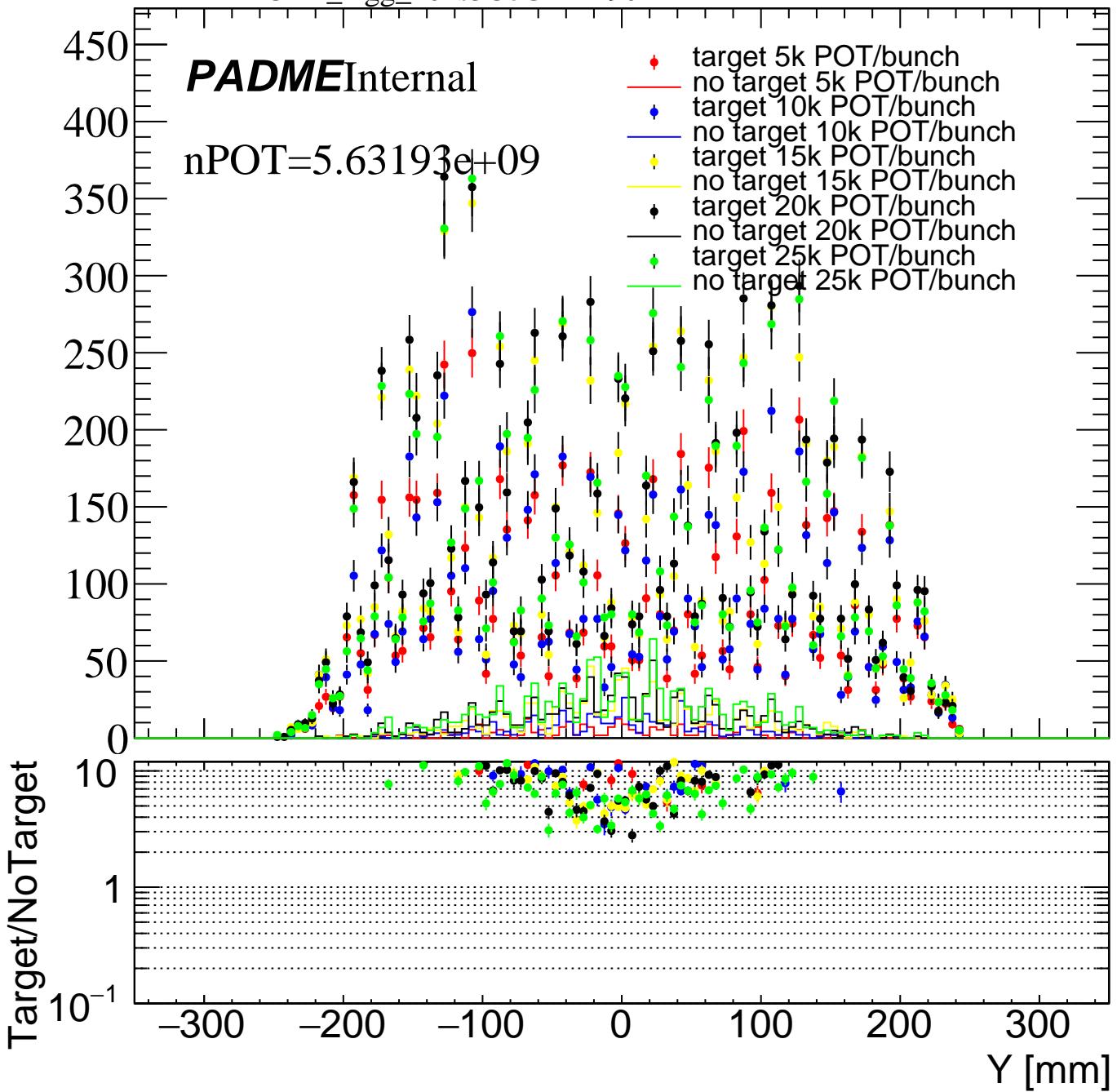
# ECAL\_Ygg\_10ns3CoGUnderPeakEThr90



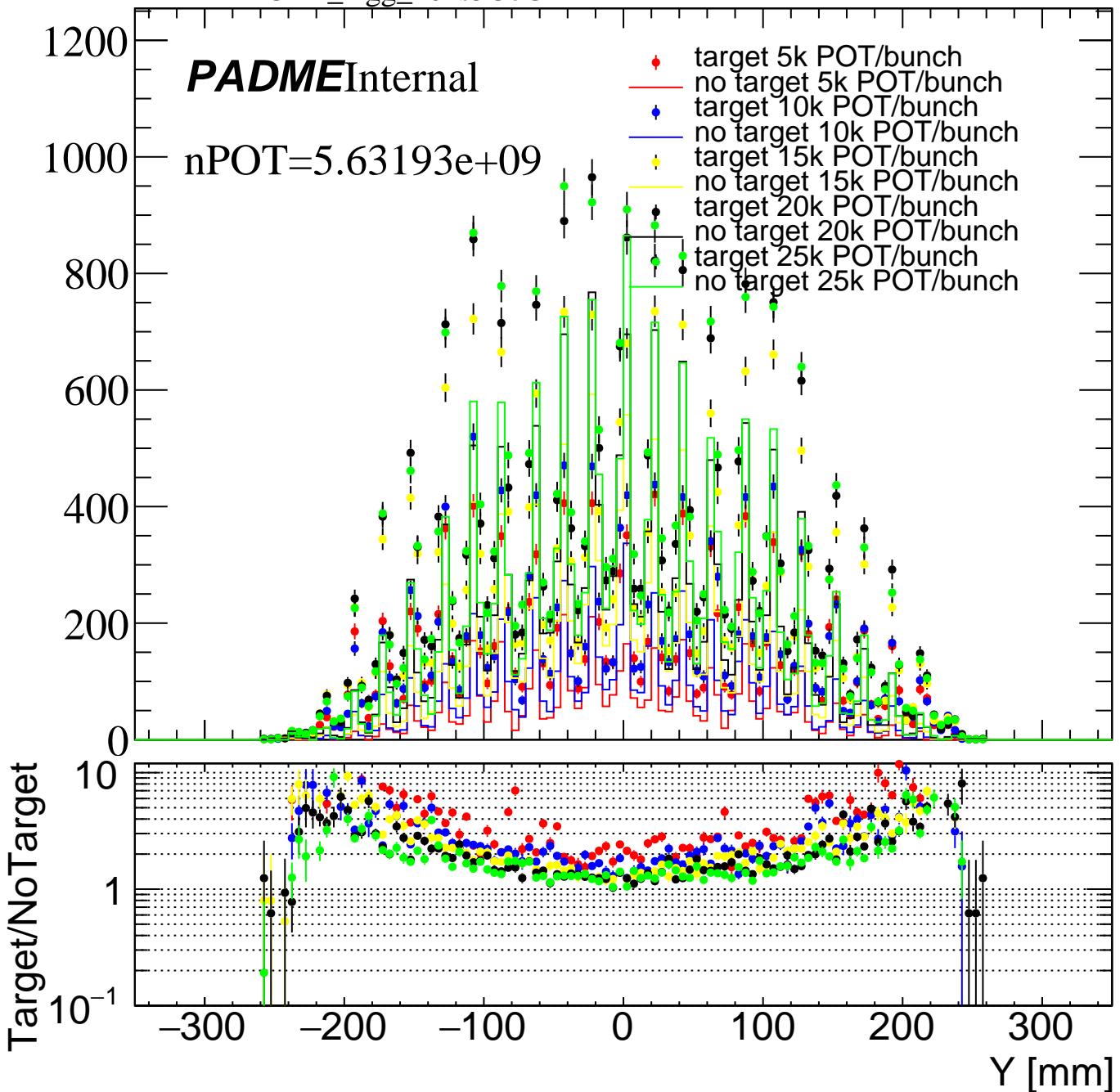
ECAL\_Ygg\_10ns3CoGUnderPeakEThr90\_FRY



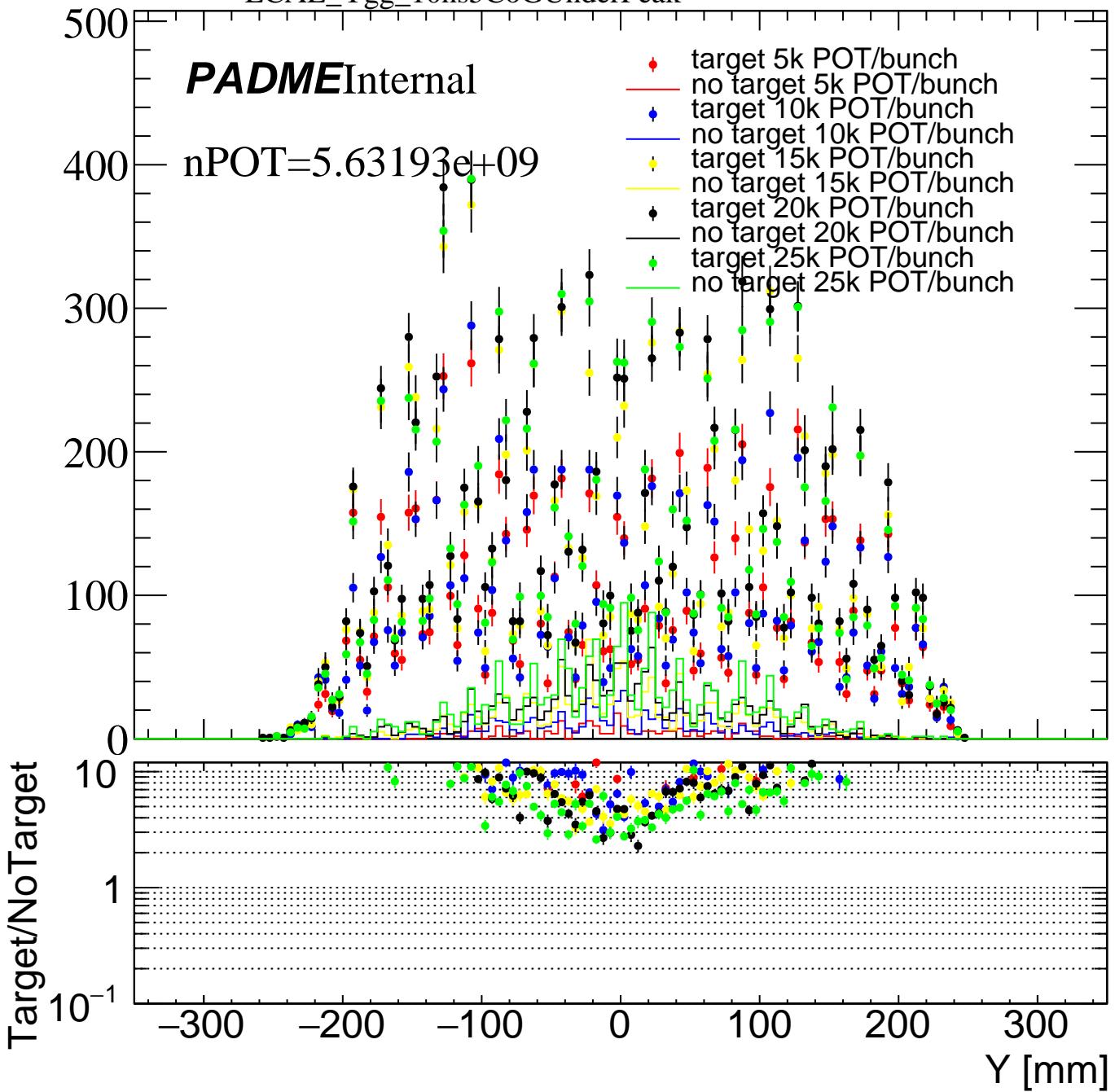
ECAL\_Ygg\_10ns3CoGEThr90

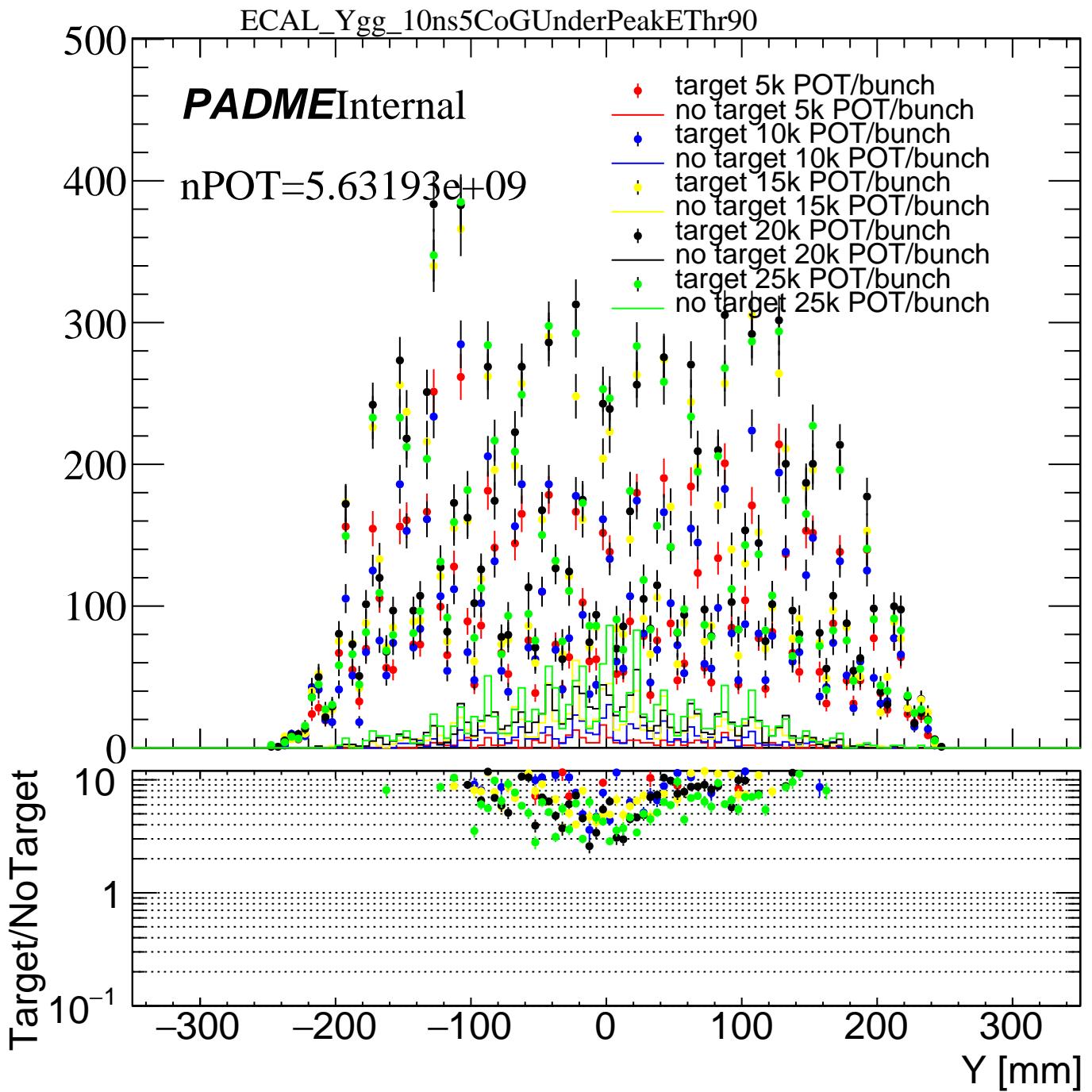


ECAL\_Ygg\_10ns5CoG

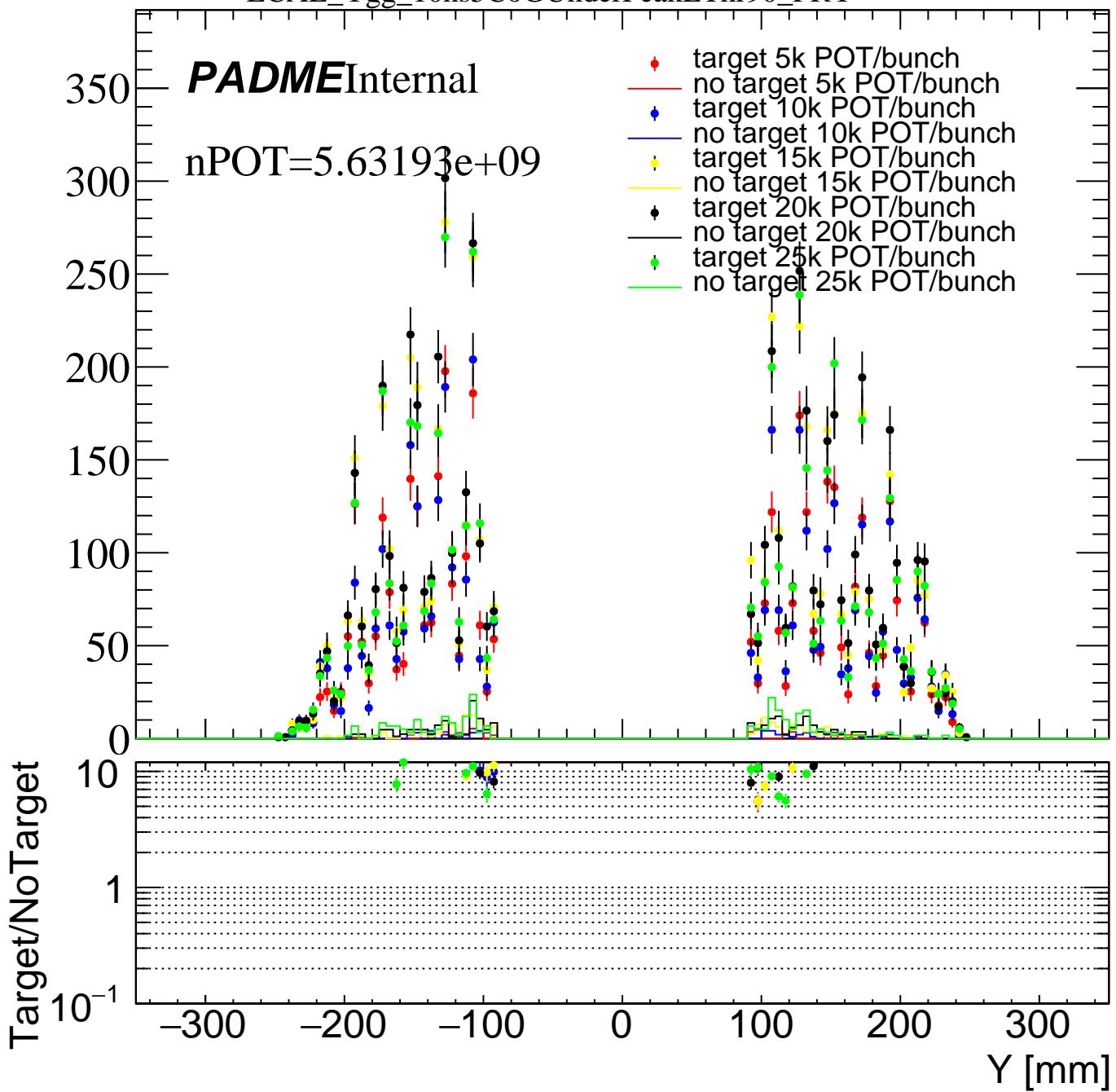


ECAL\_Ygg\_10ns5CoGUnderPeak

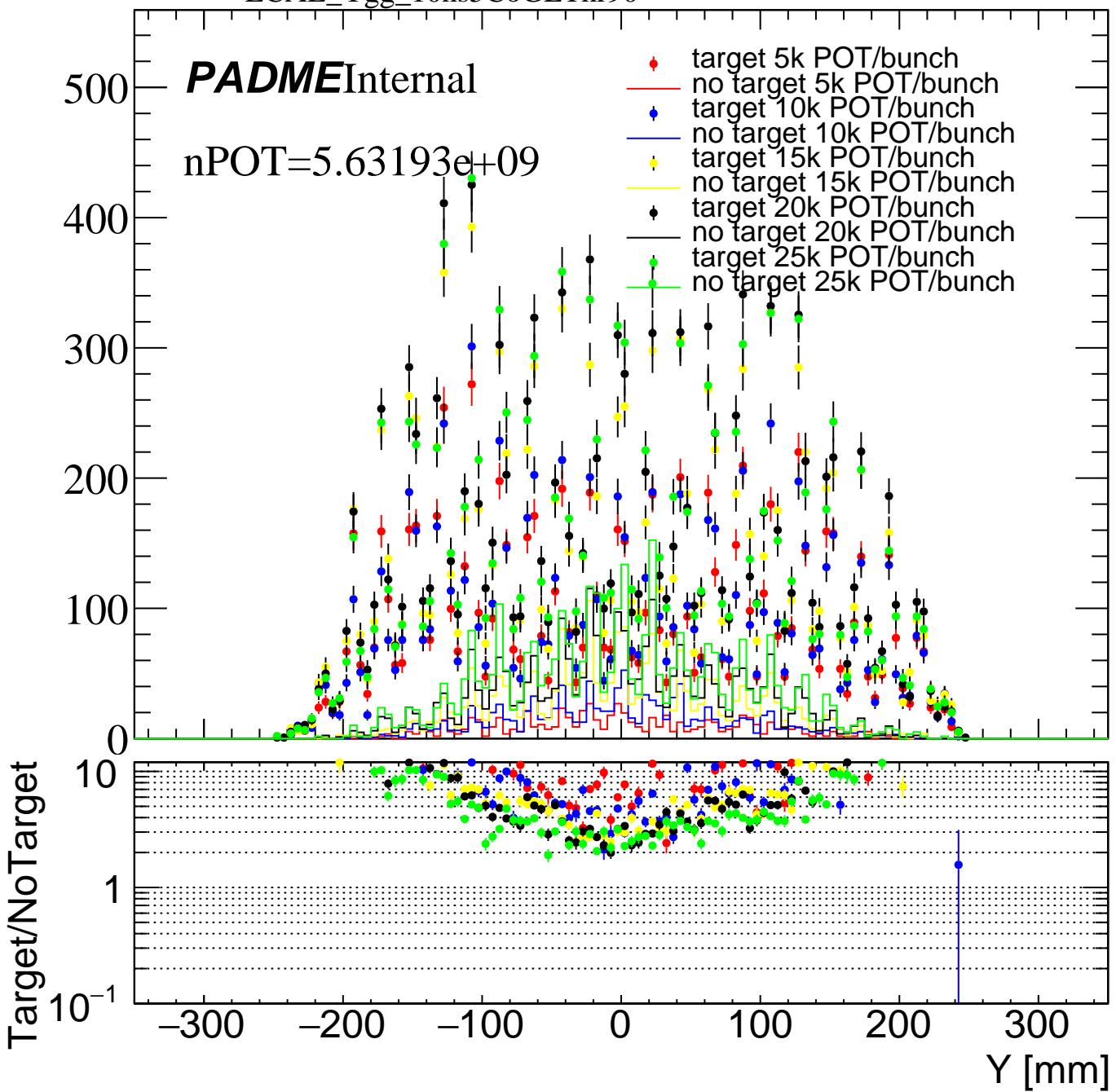


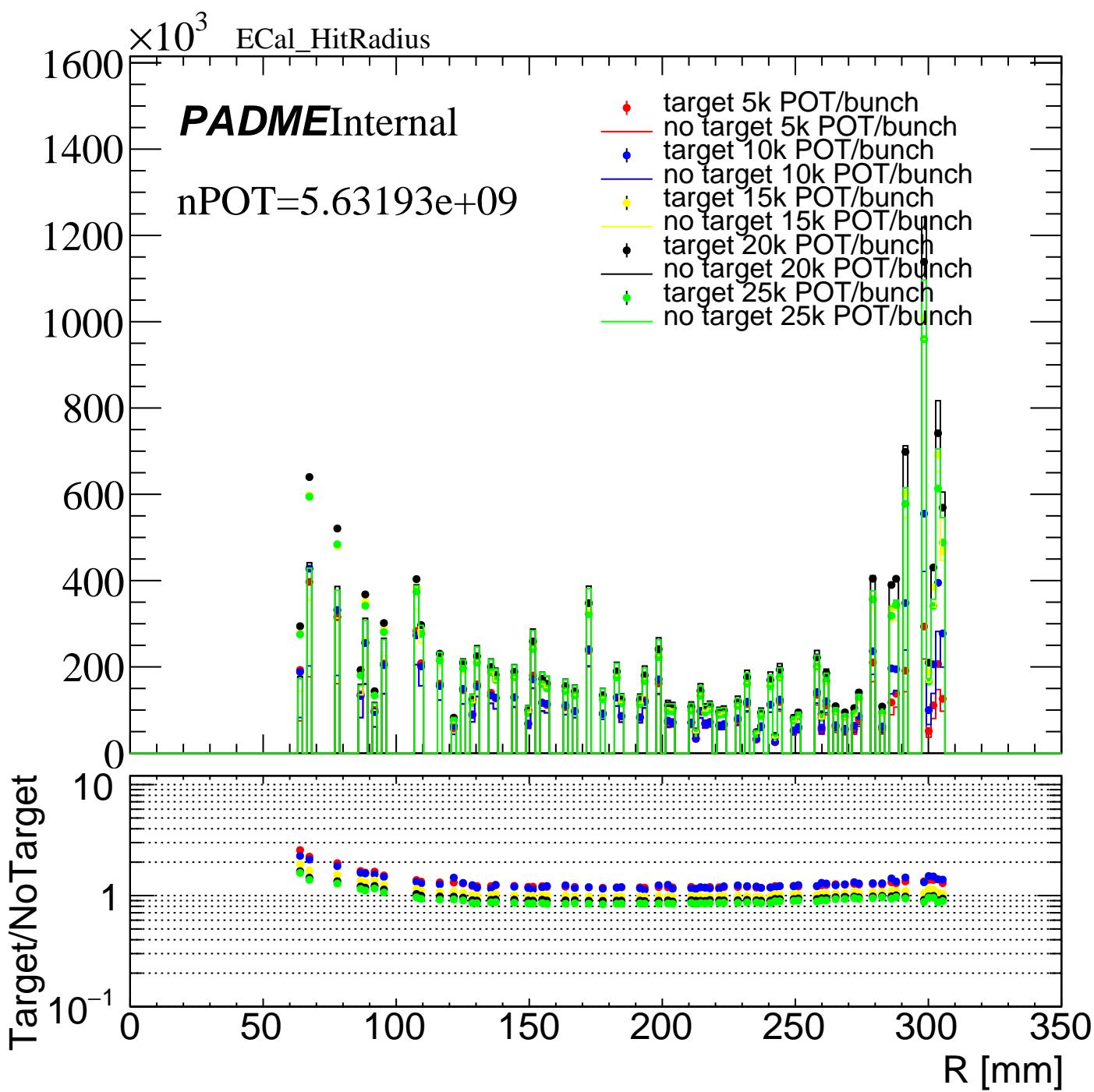


ECAL\_Ygg\_10ns5CoGUnderPeakEThr90\_FRY



ECAL\_Ygg\_10ns5CoGEThr90



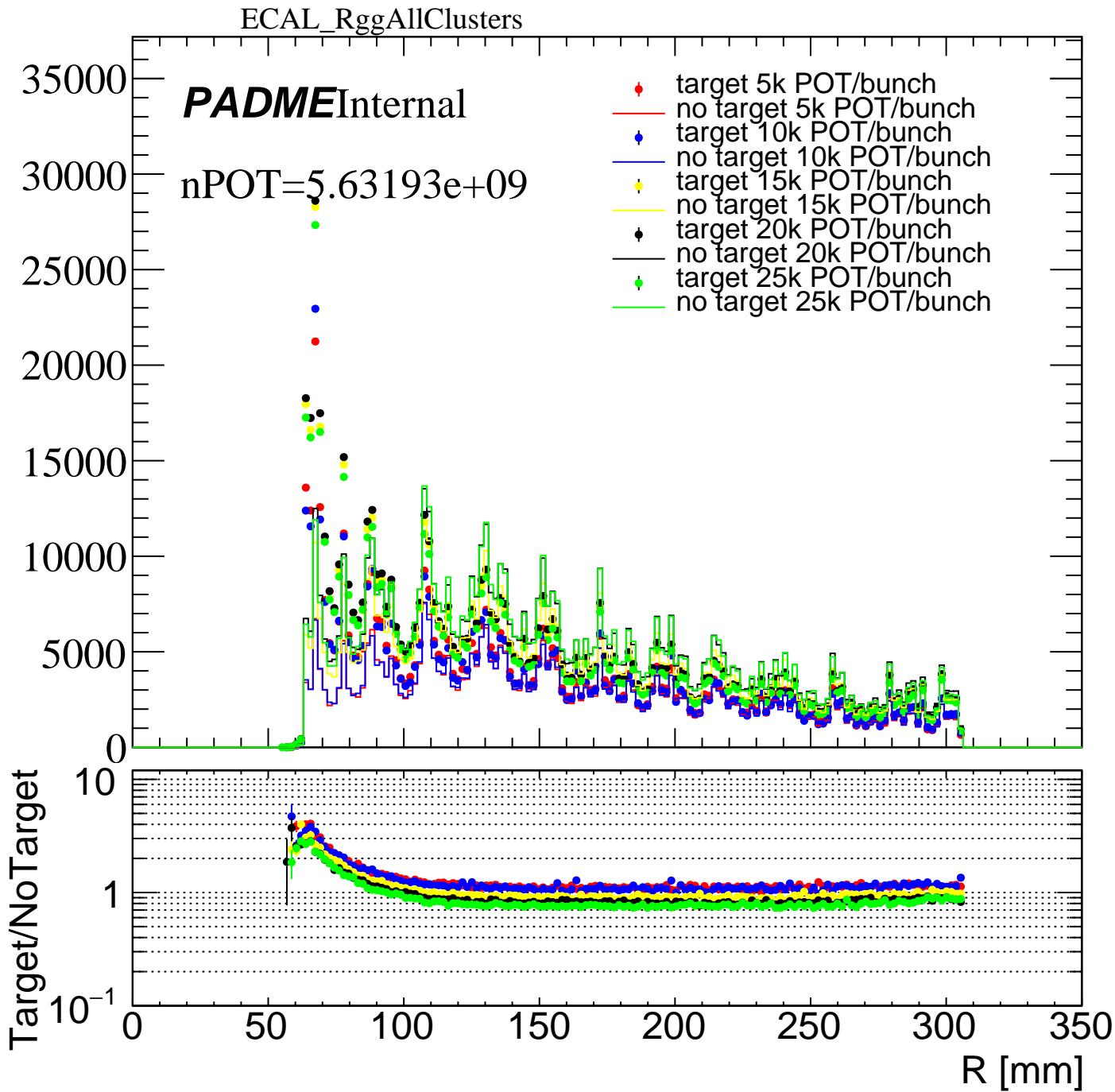


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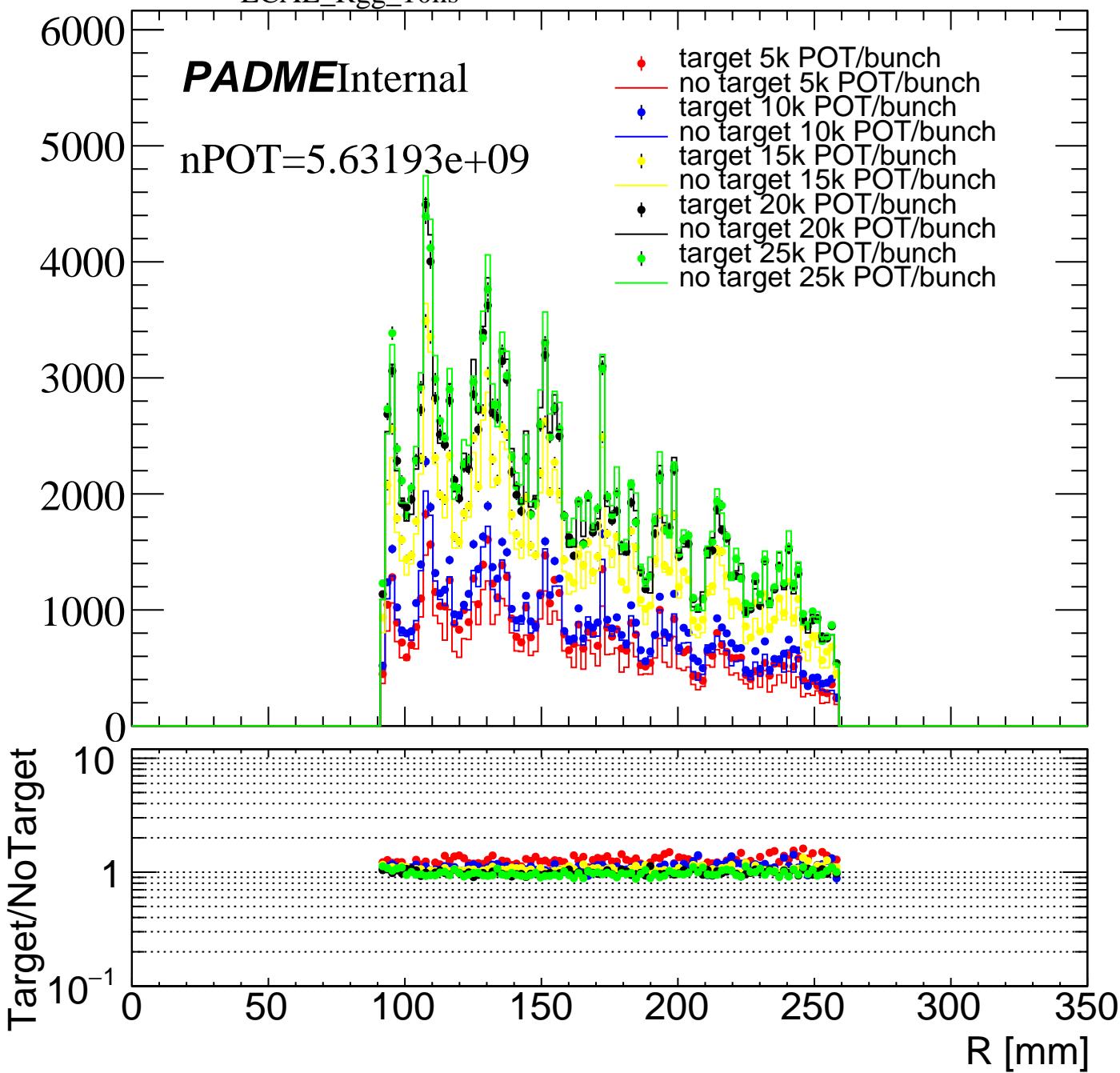
***PADME*** Internal

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

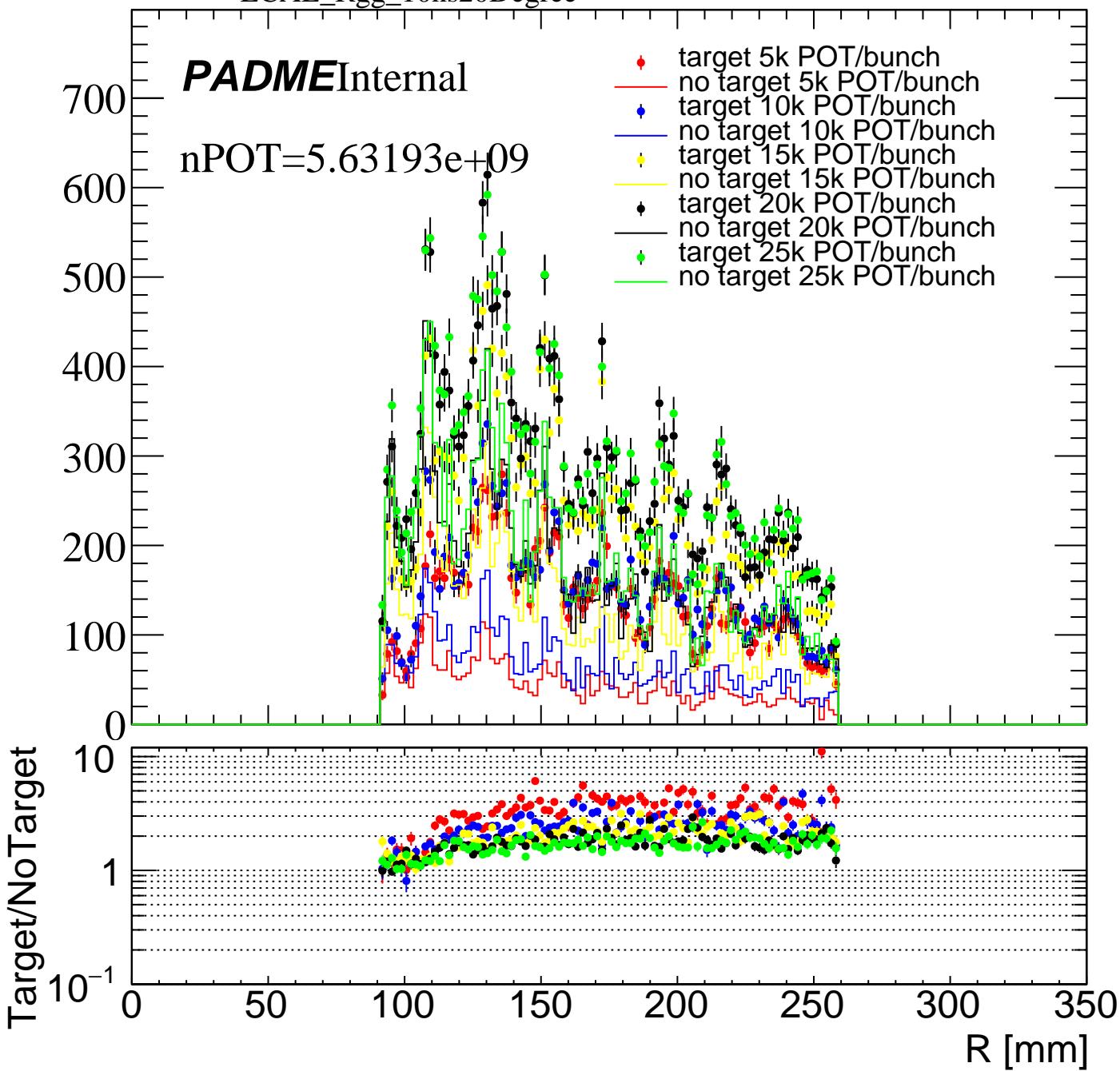
- target 5k POT/bunch
- no target 5k POT/bunch
- target 10k POT/bunch
- no target 10k POT/bunch
- target 15k POT/bunch
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- no target 20k POT/bunch
- target 25k POT/bunch
- no target 25k POT/bunch



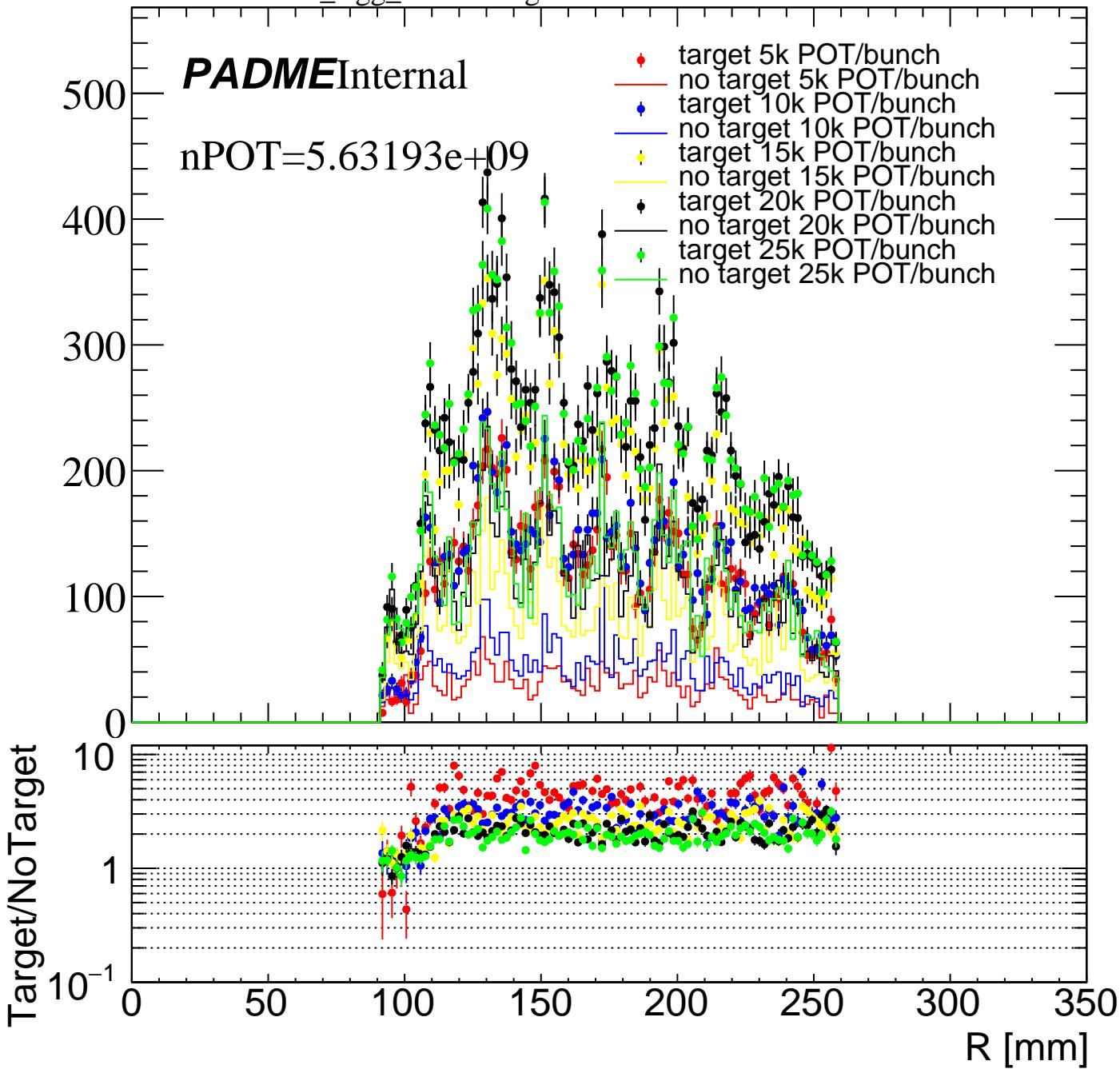
ECAL\_Rgg\_10ns



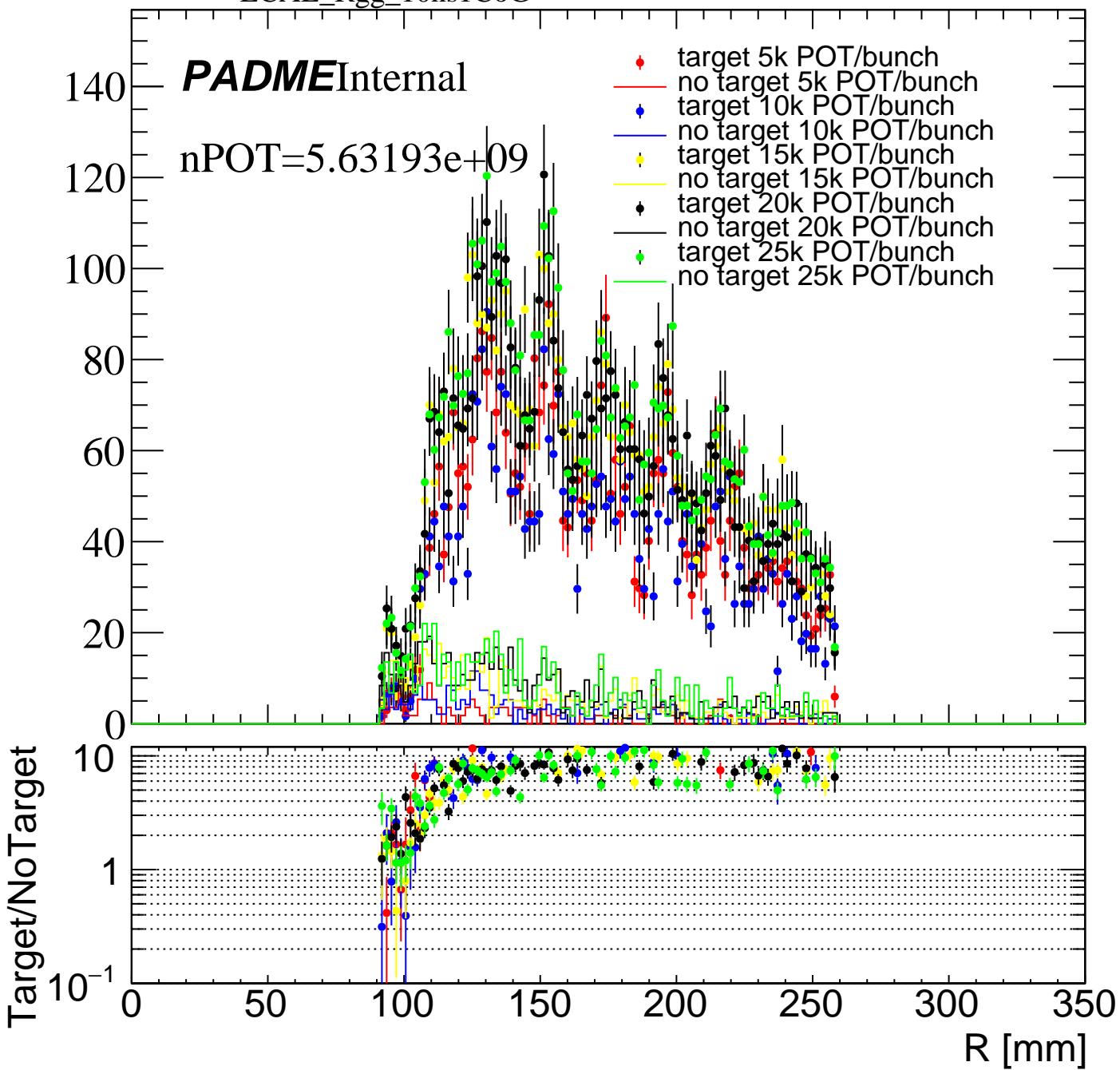
ECAL\_Rgg\_10ns20Degree



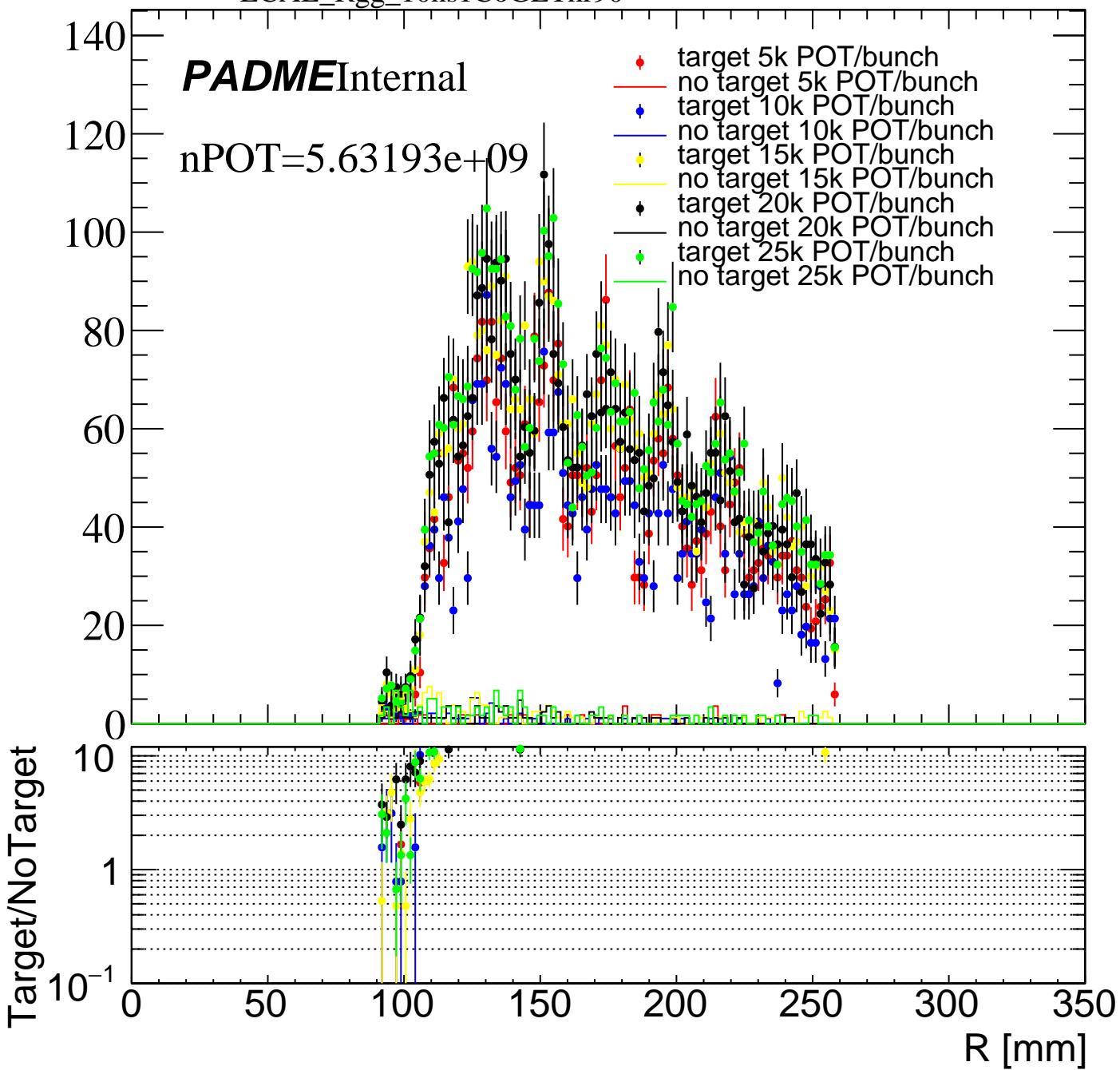
ECAL\_Rgg\_10ns20DegreeDeltaTheta



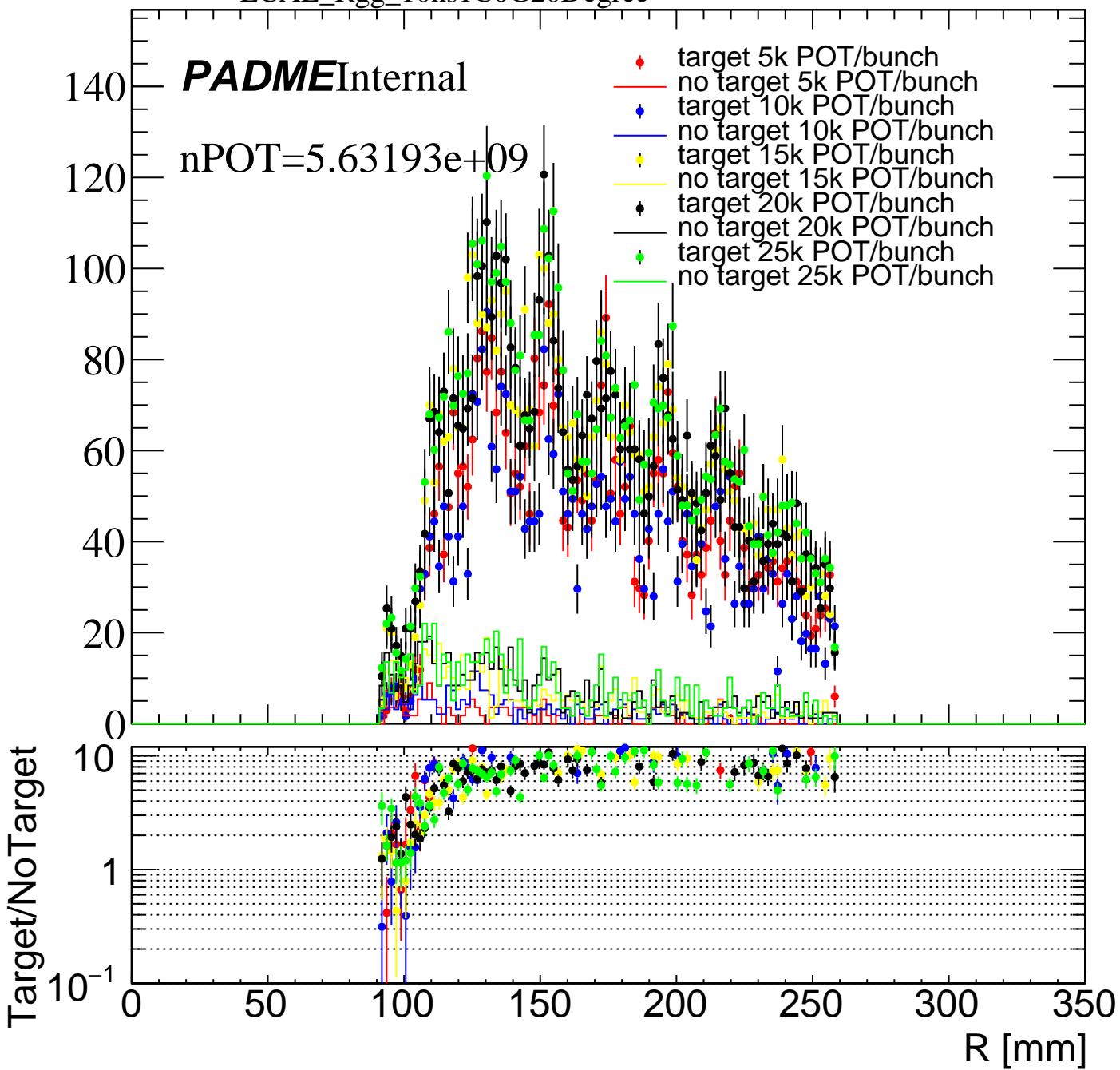
ECAL\_Rgg\_10ns1CoG



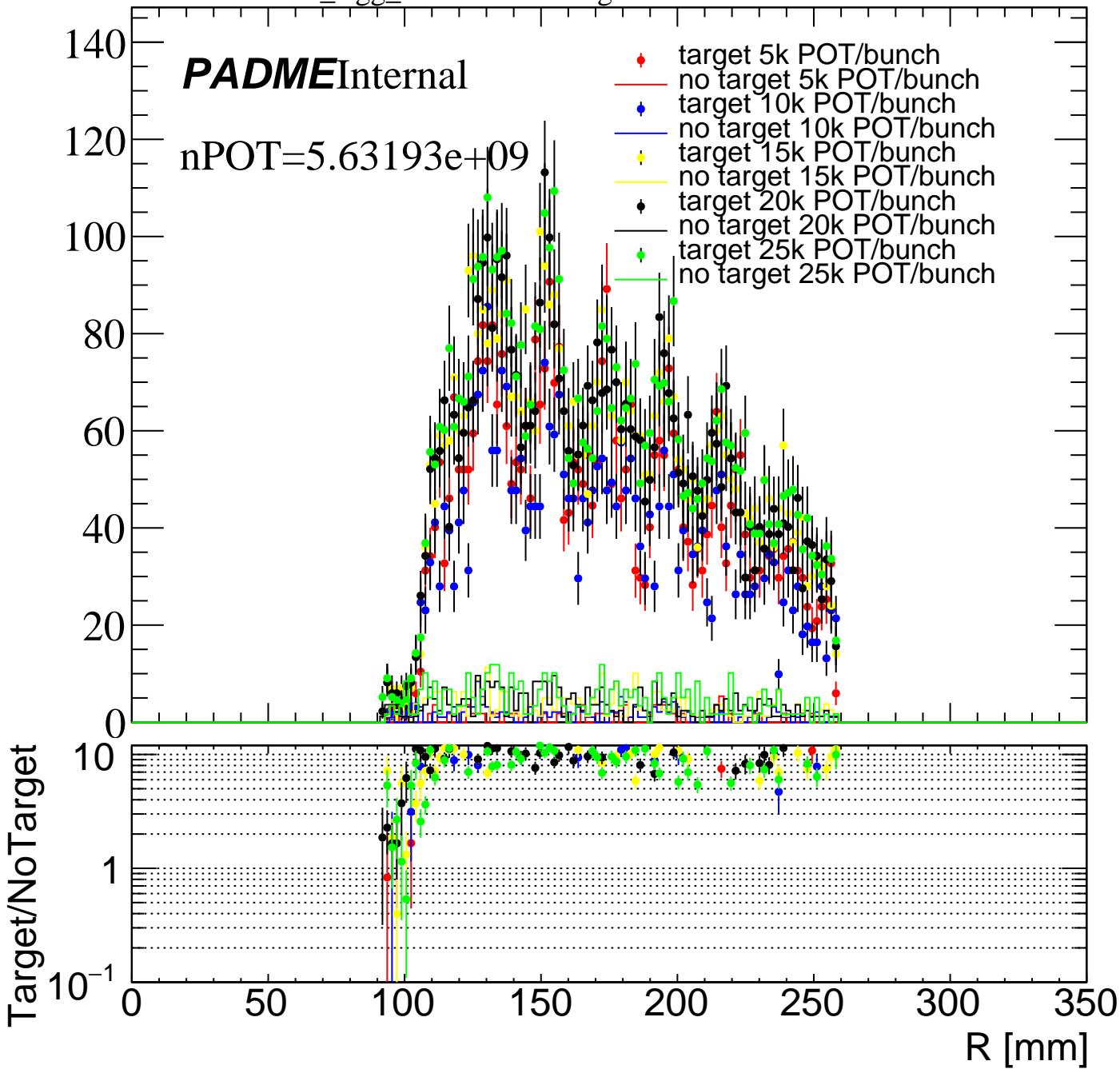
ECAL\_Rgg\_10ns1CoGEThr90



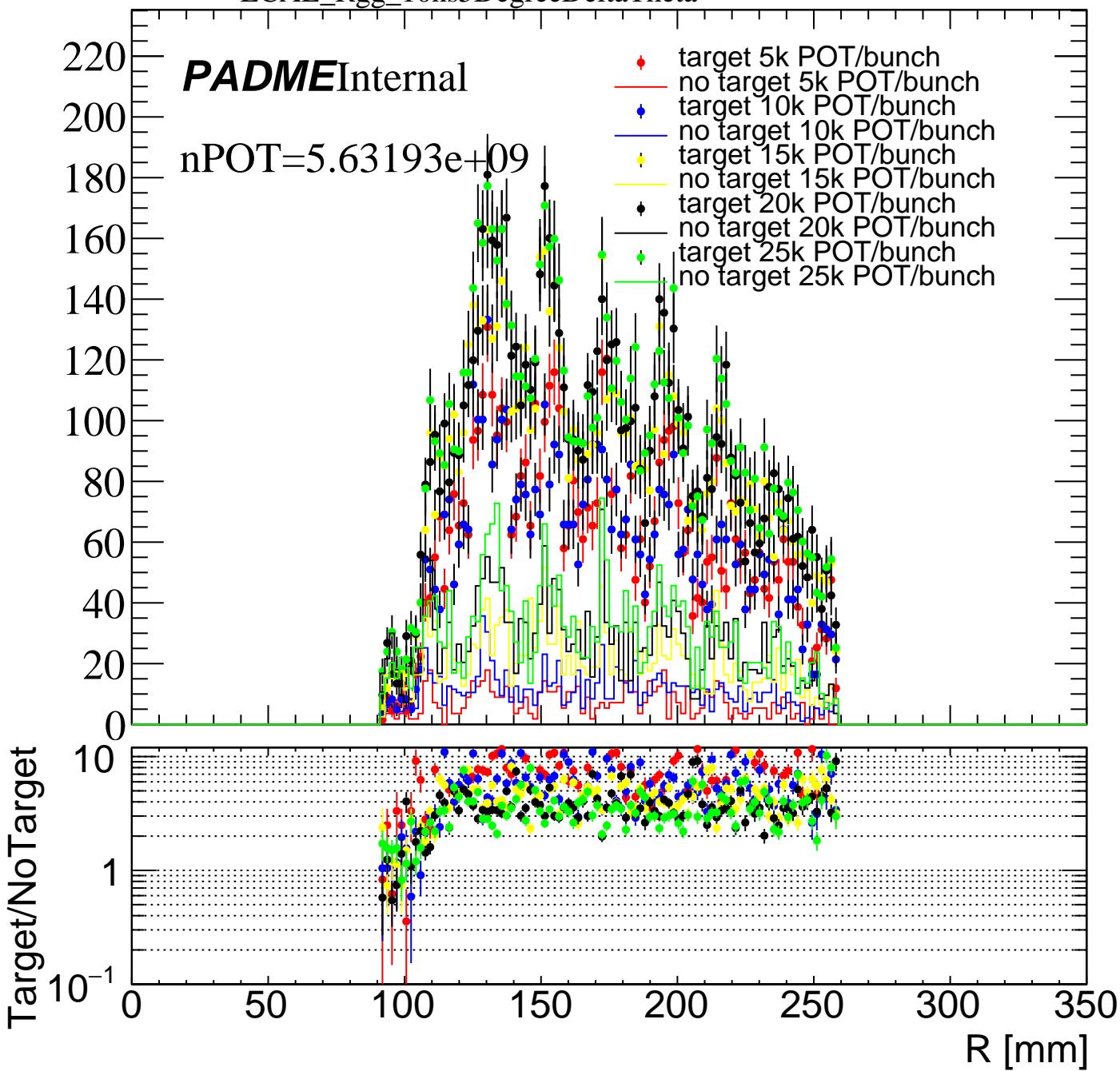
ECAL\_Rgg\_10ns1CoG20Degree



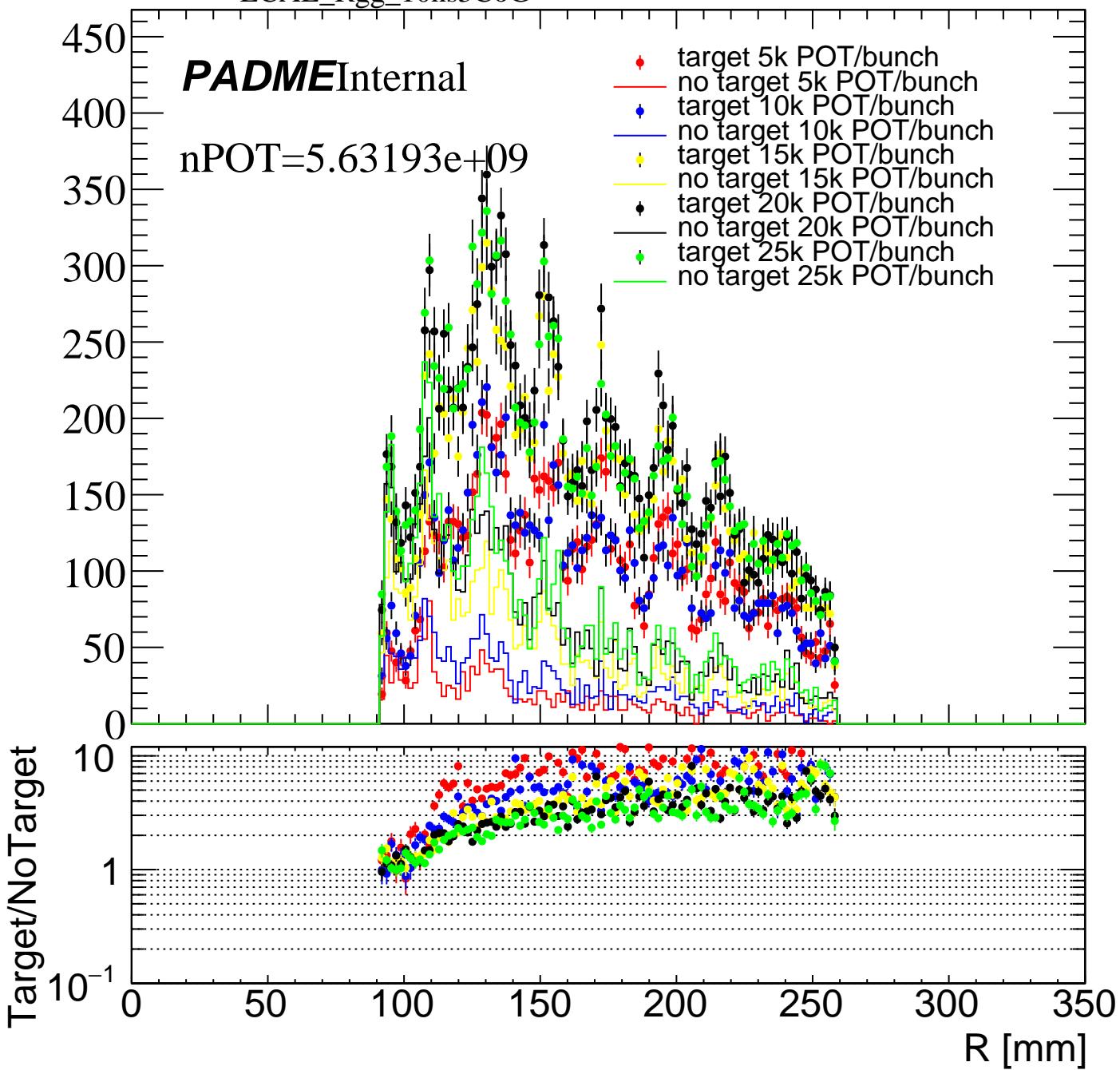
ECAL\_Rgg\_10ns1CoG20DegreeDeltaTheta



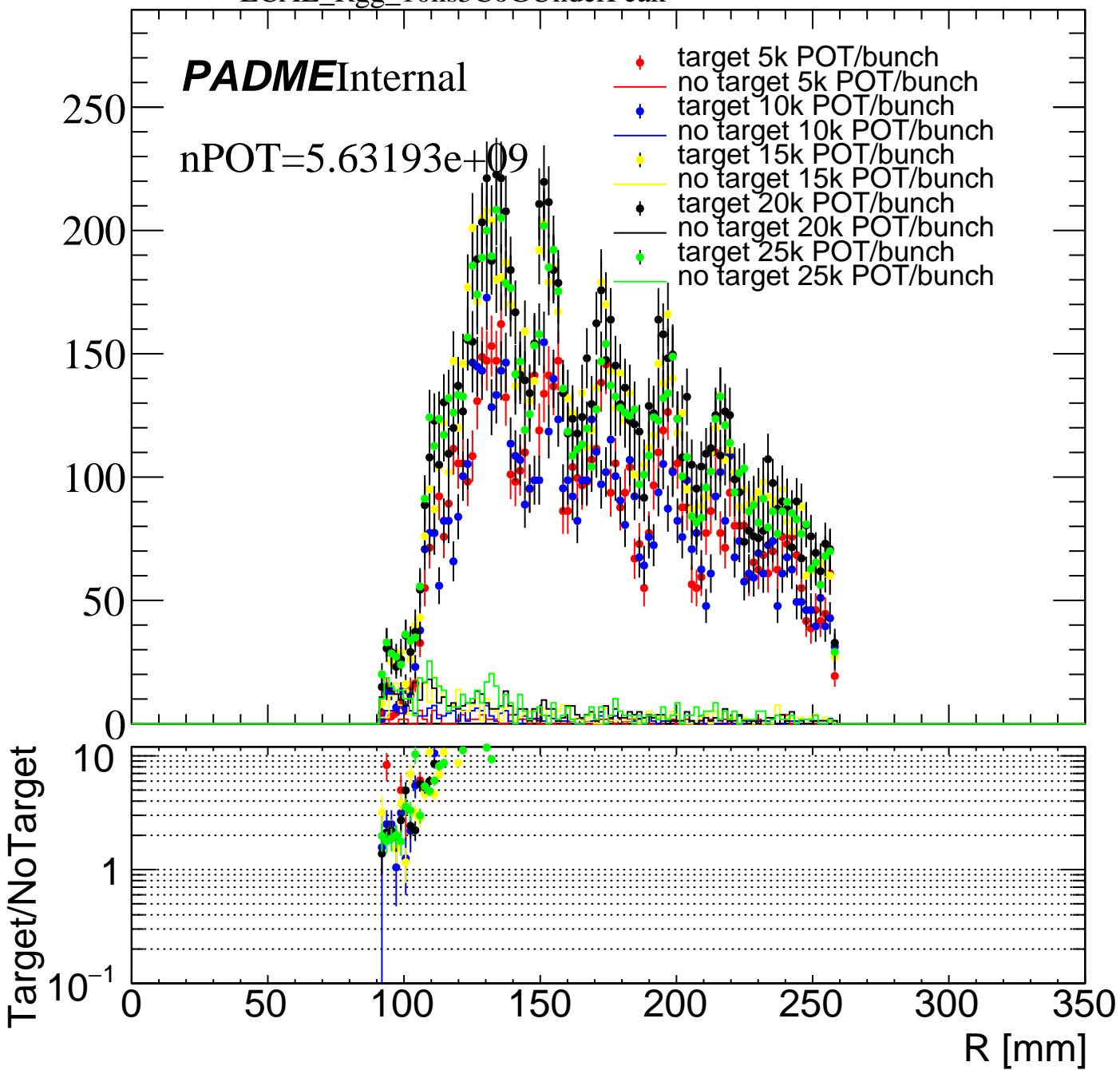
# ECAL\_Rgg\_10ns5DegreeDeltaTheta



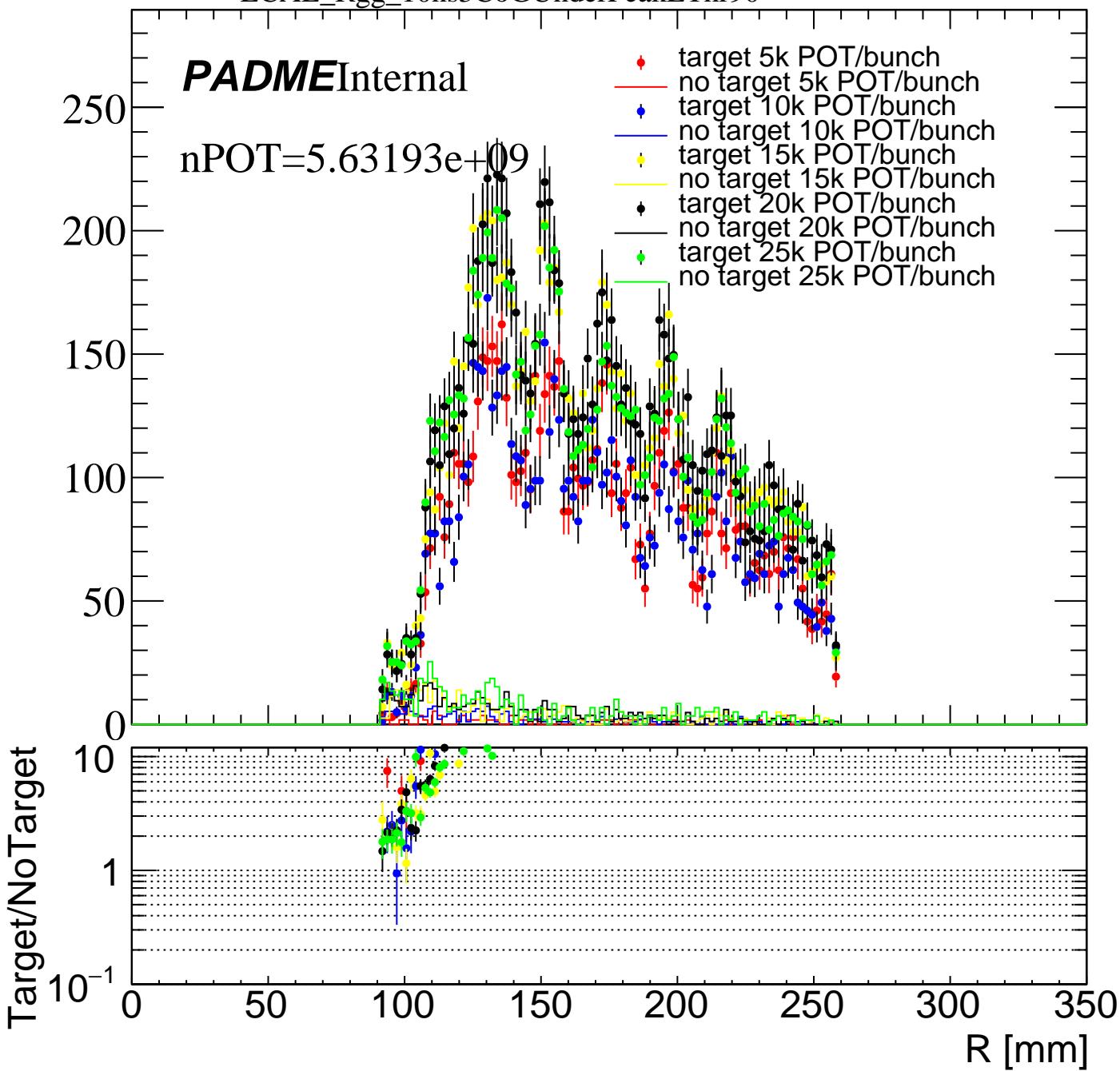
ECAL\_Rgg\_10ns3CoG



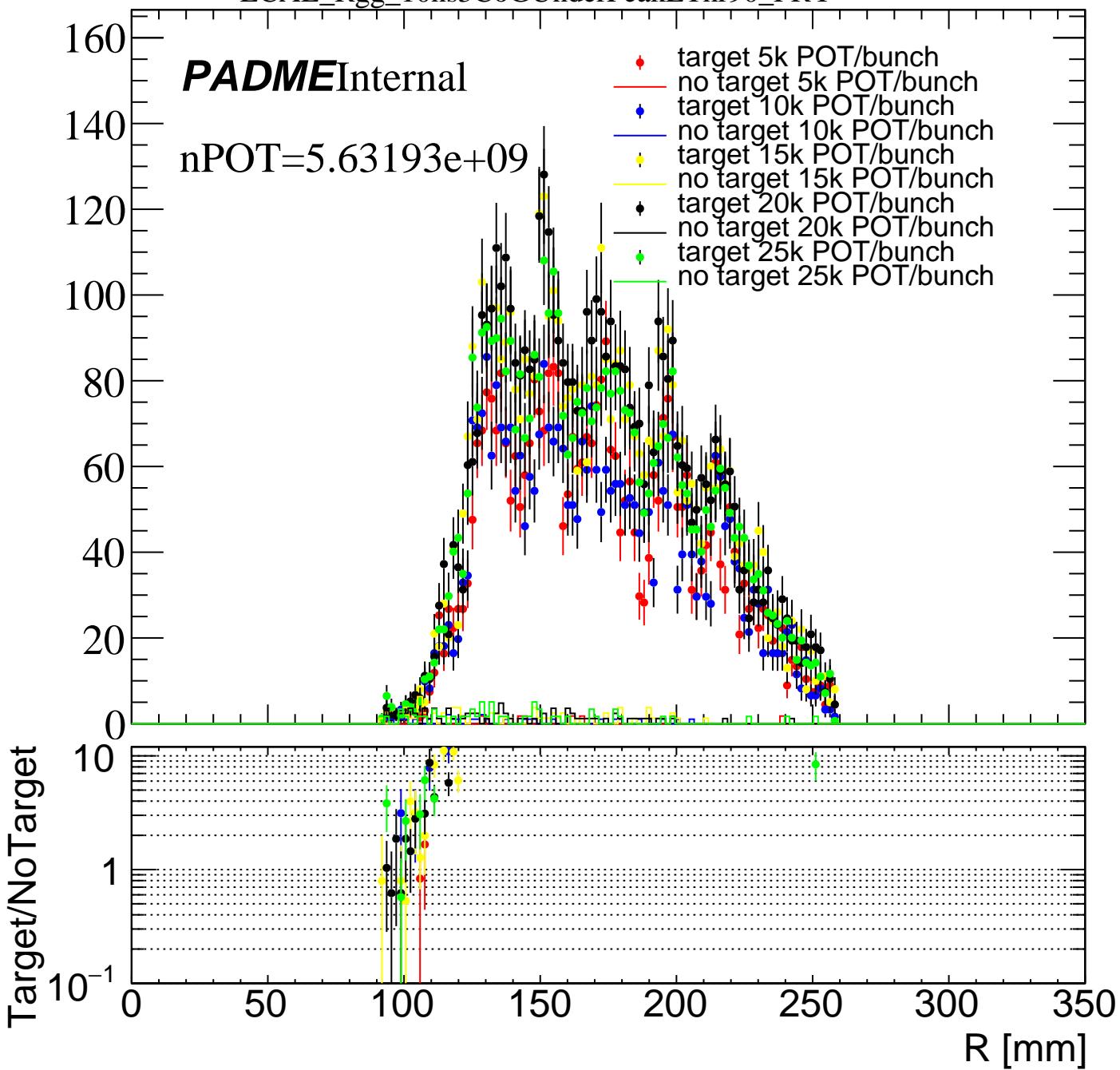
ECAL\_Rgg\_10ns3CoGUnderPeak



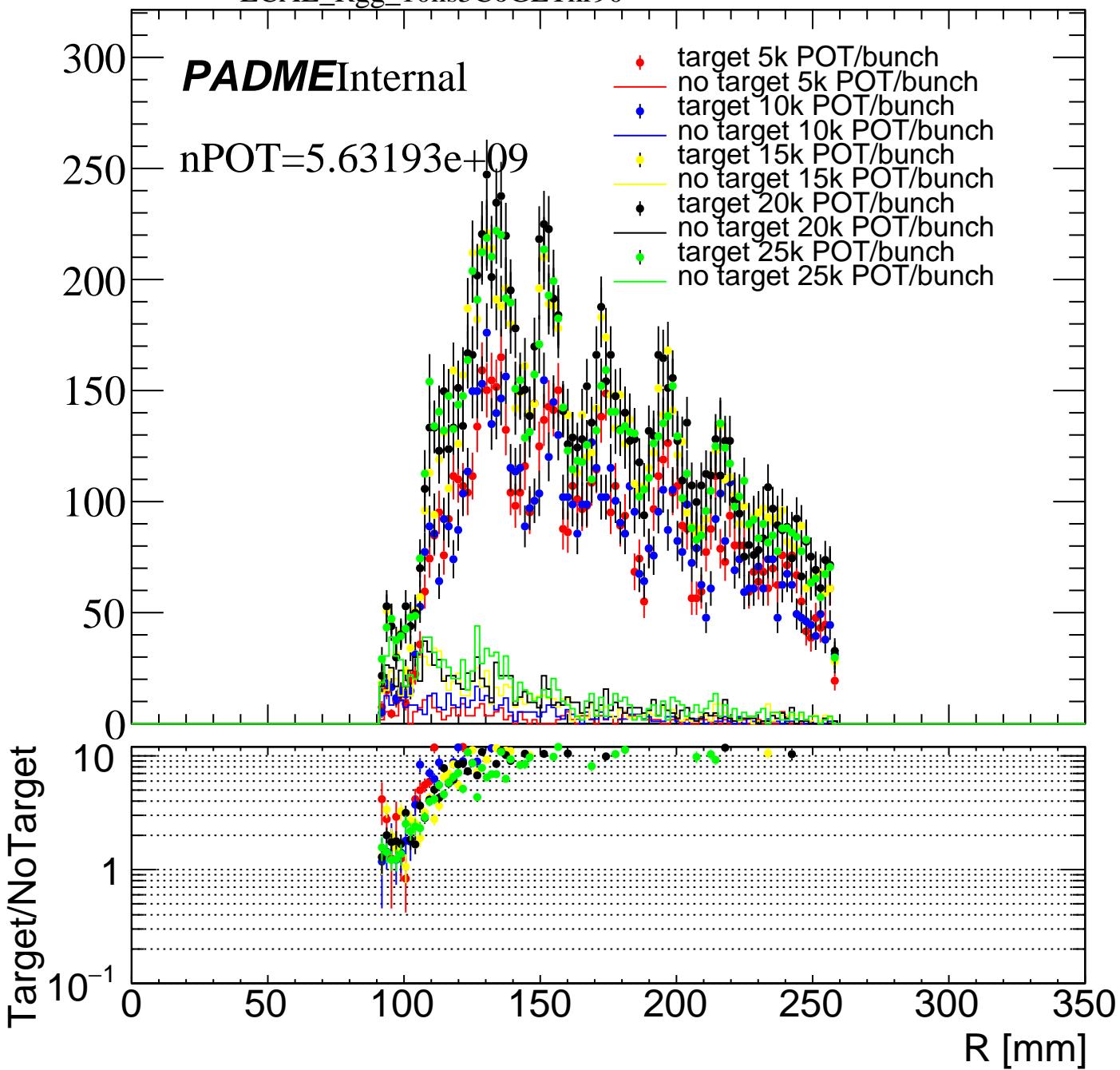
ECAL\_Rgg\_10ns3CoGUnderPeakEThr90



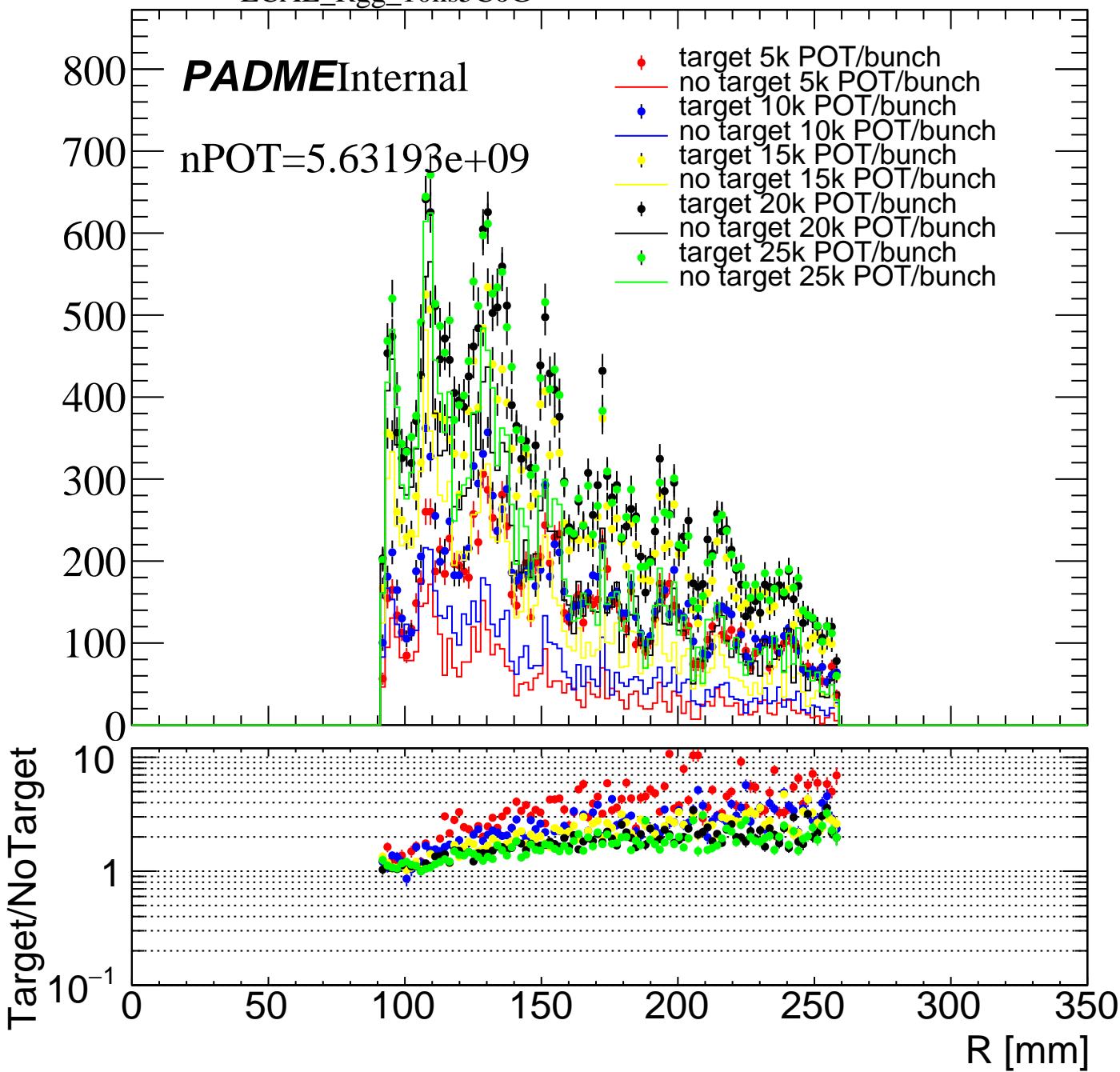
ECAL\_Rgg\_10ns3CoGUnderPeakEThr90\_FRY



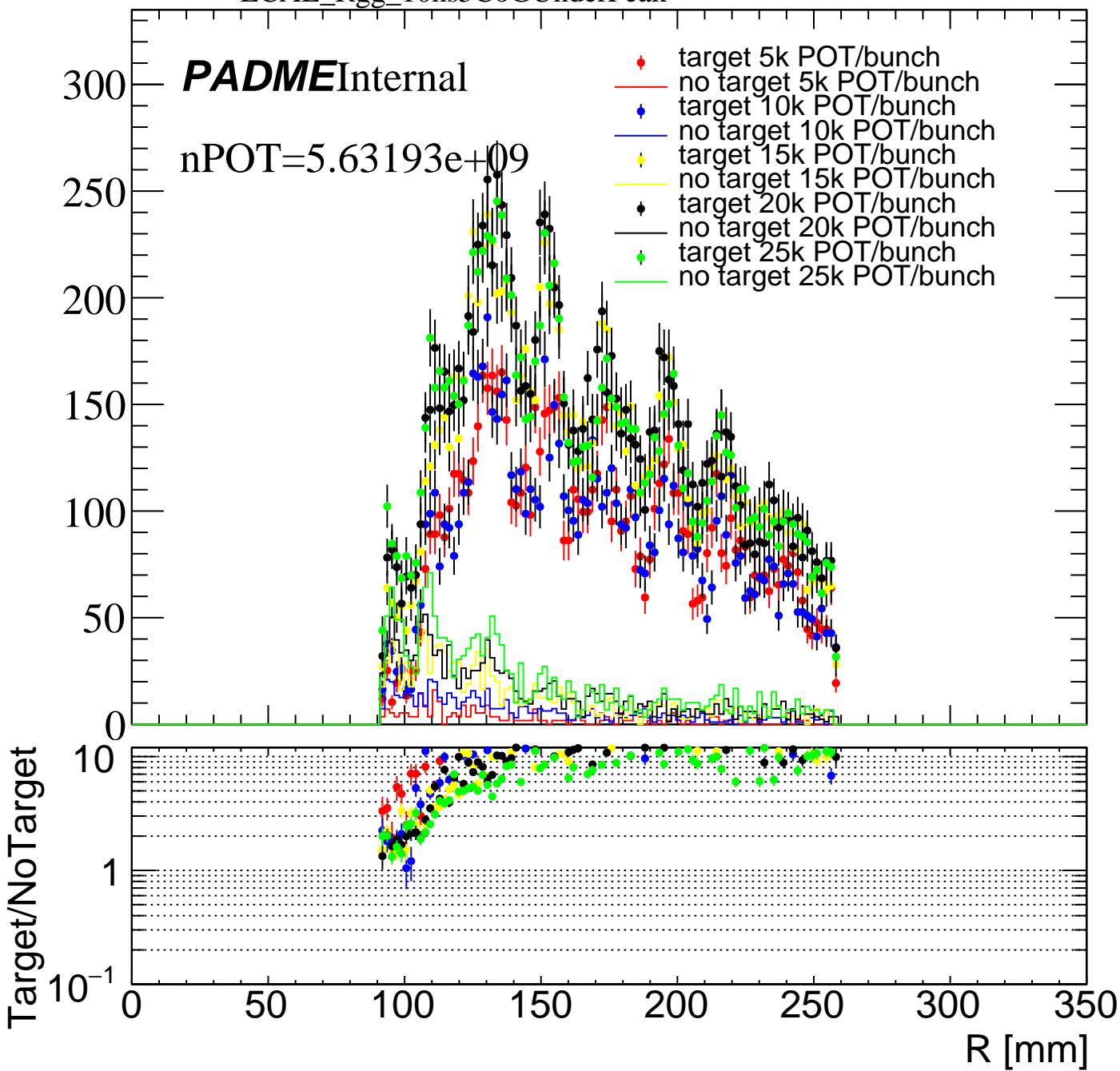
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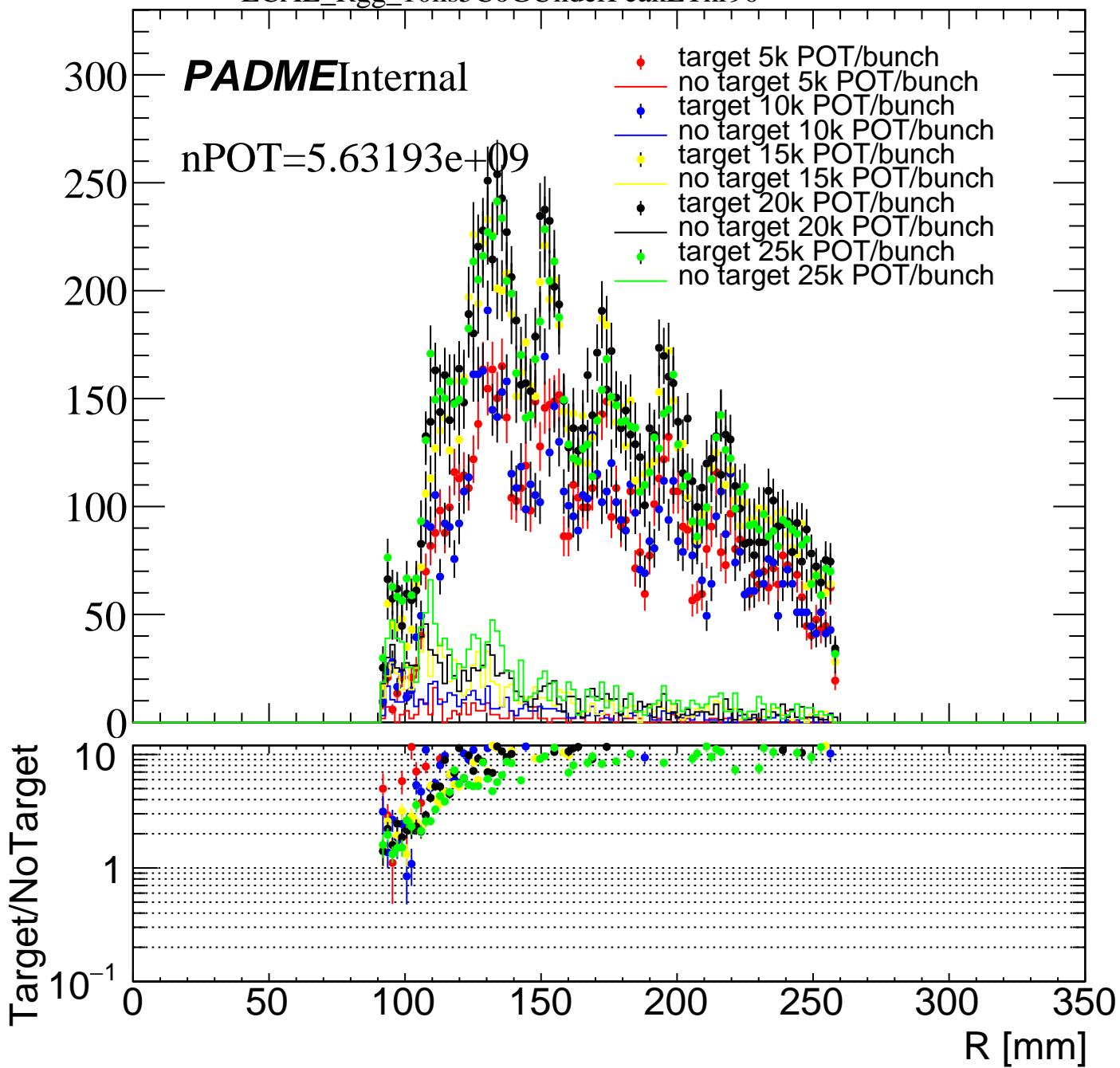
ECAL\_Rgg\_10ns5CoG



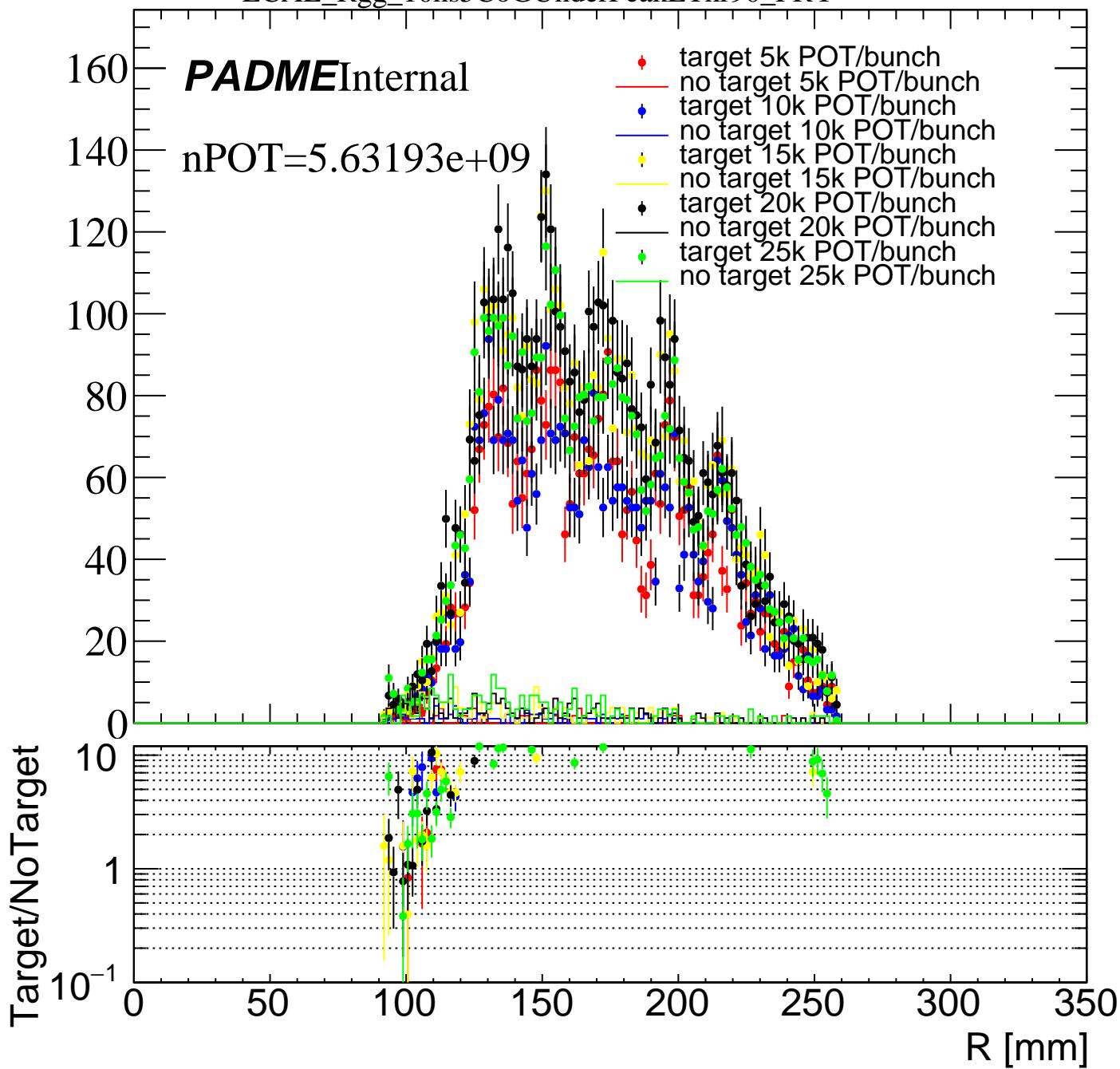
# ECAL\_Rgg\_10ns5CoGUnderPeak



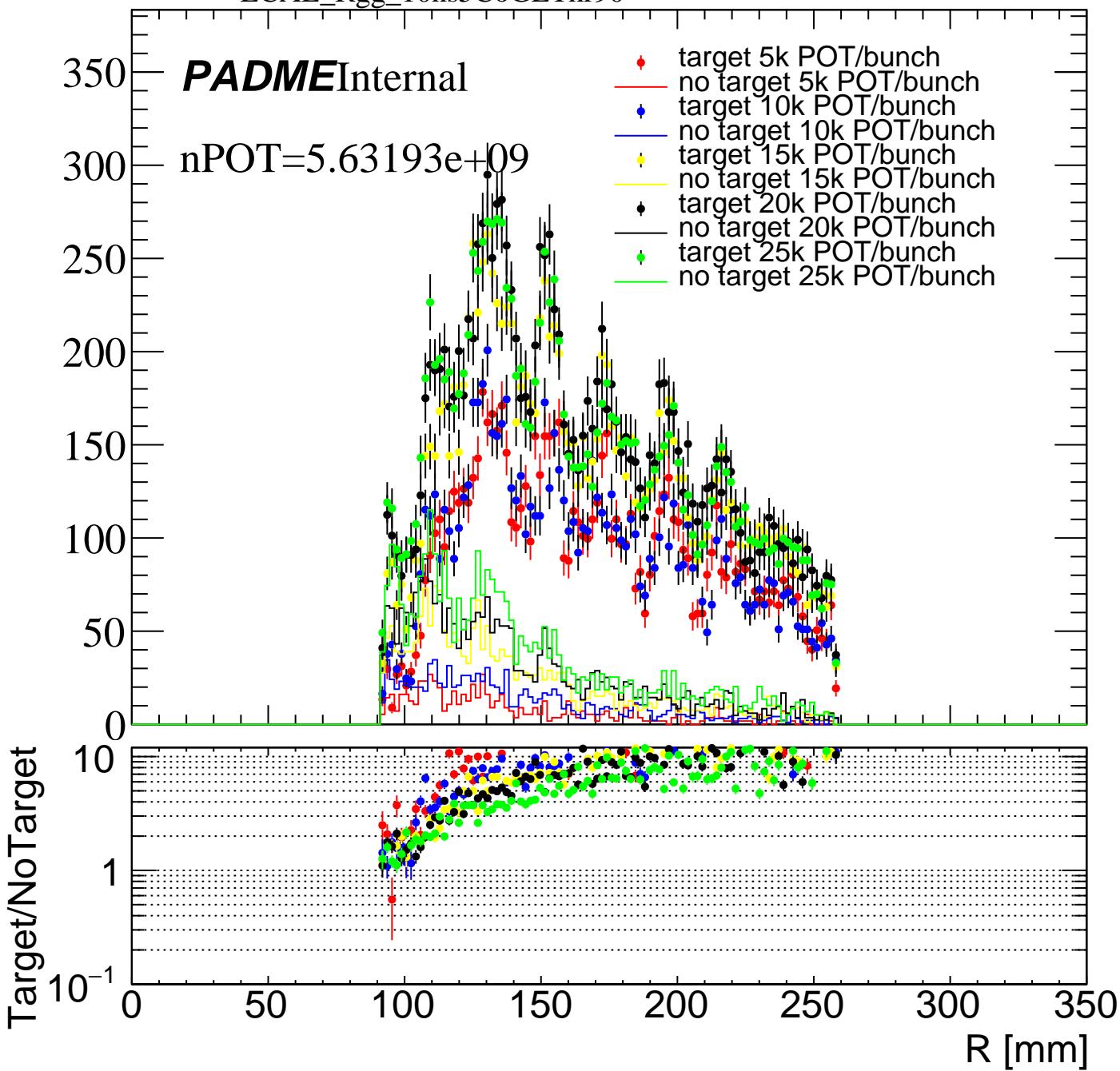
ECAL\_Rgg\_10ns5CoGUnderPeakEThr90



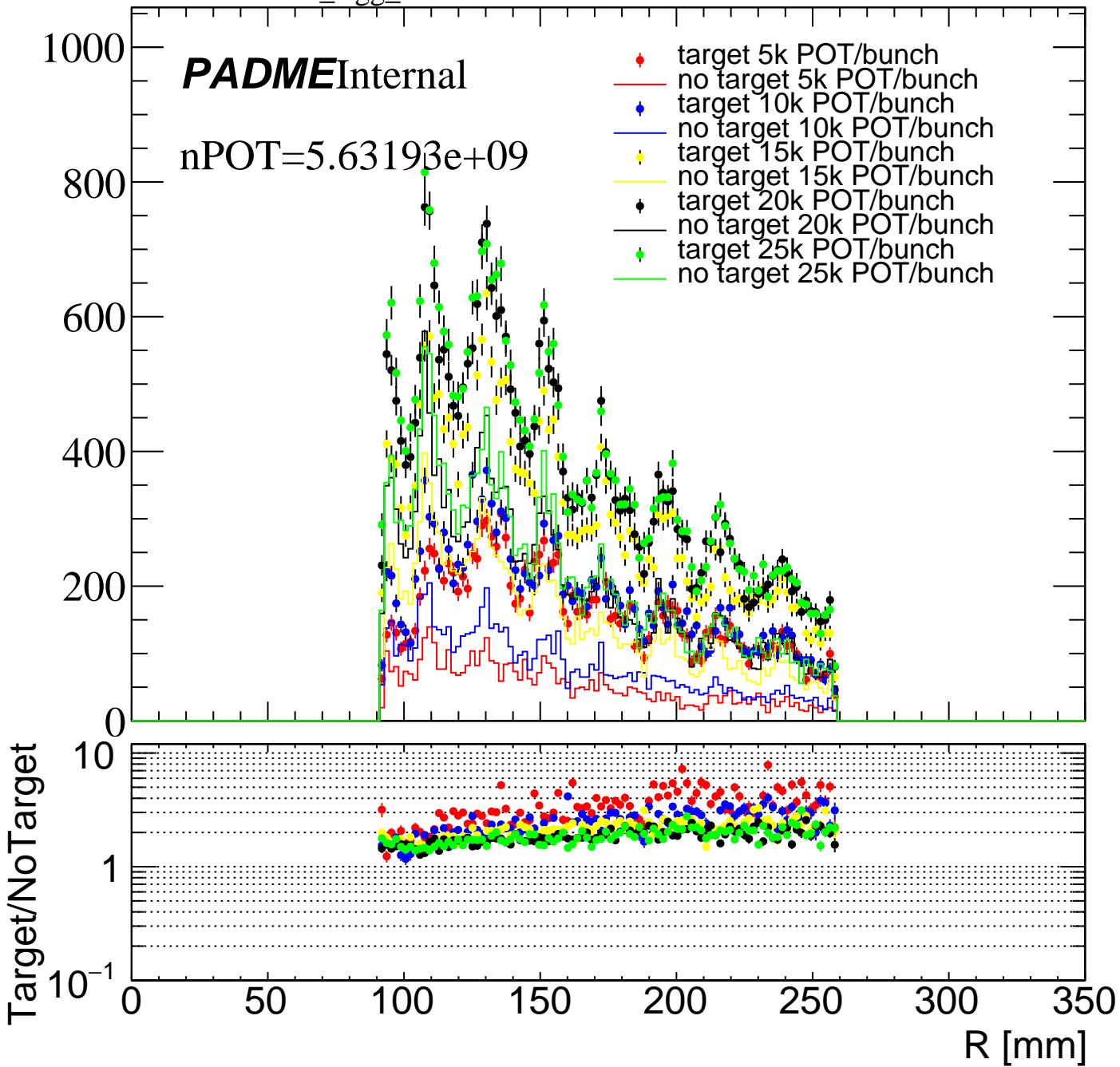
ECAL\_Rgg\_10ns5CoGUnderPeakEThr90\_FRY



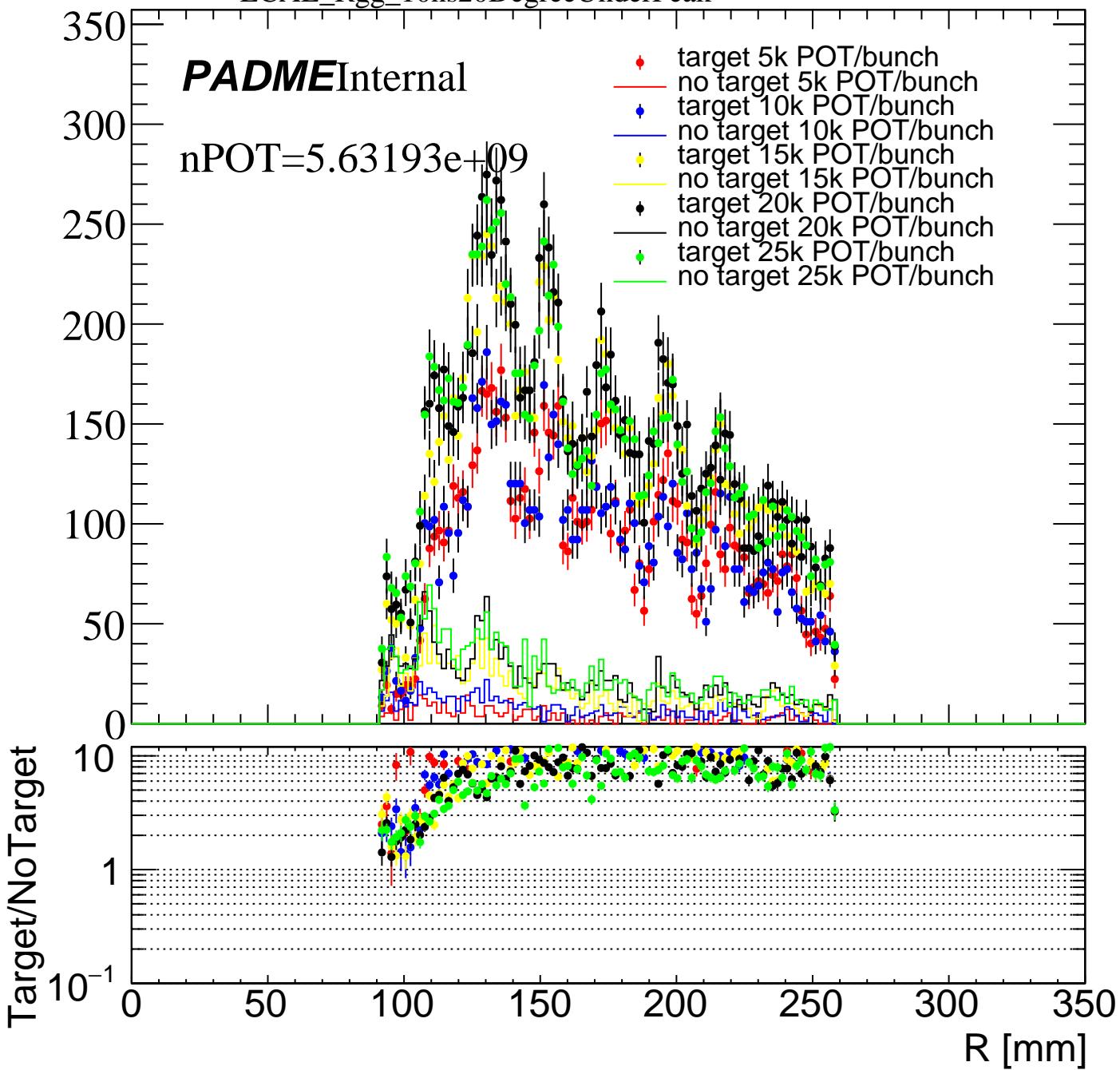
ECAL\_Rgg\_10ns5CoGEThr90



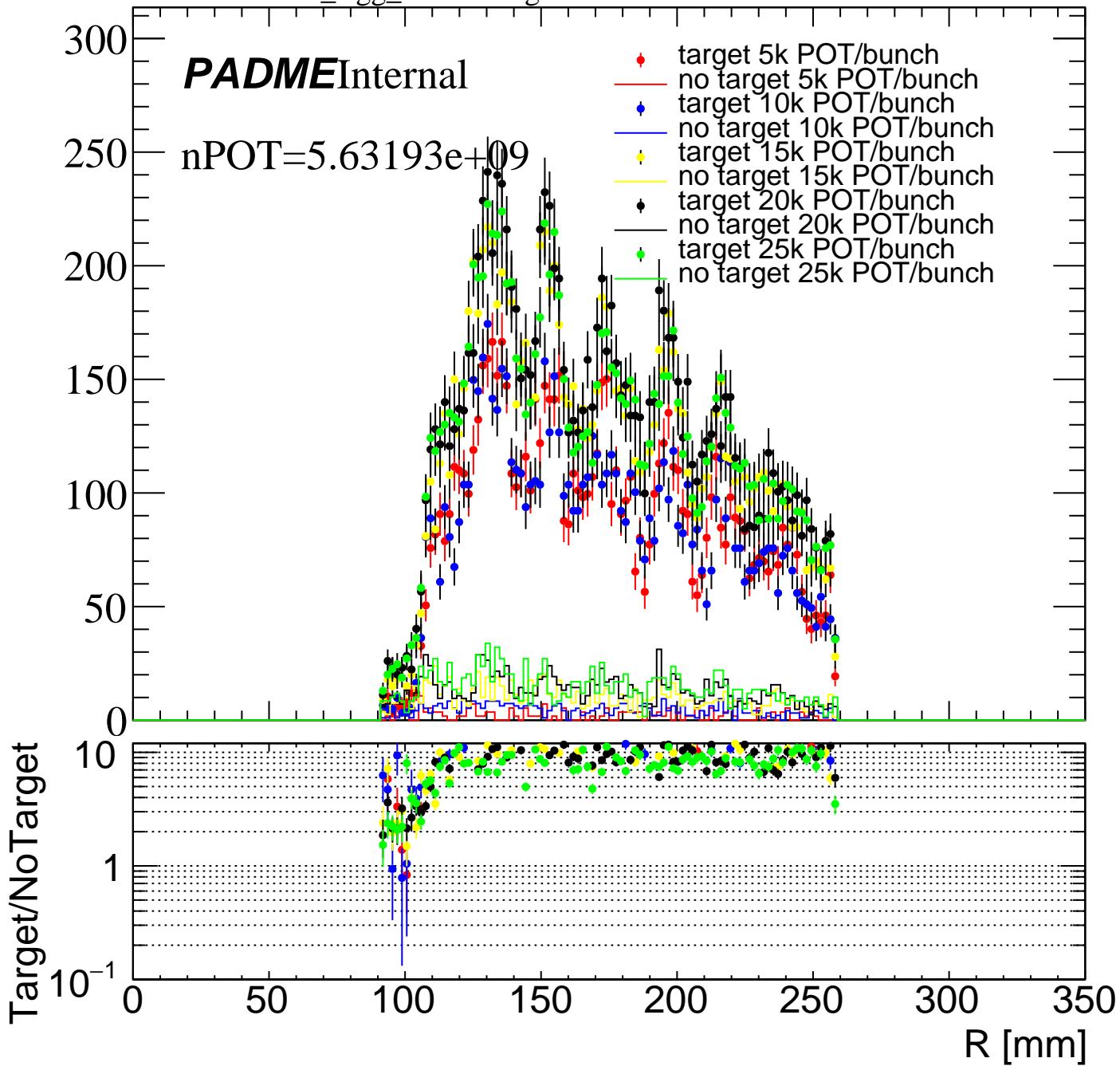
ECAL\_Rgg\_10nsUnderPeak



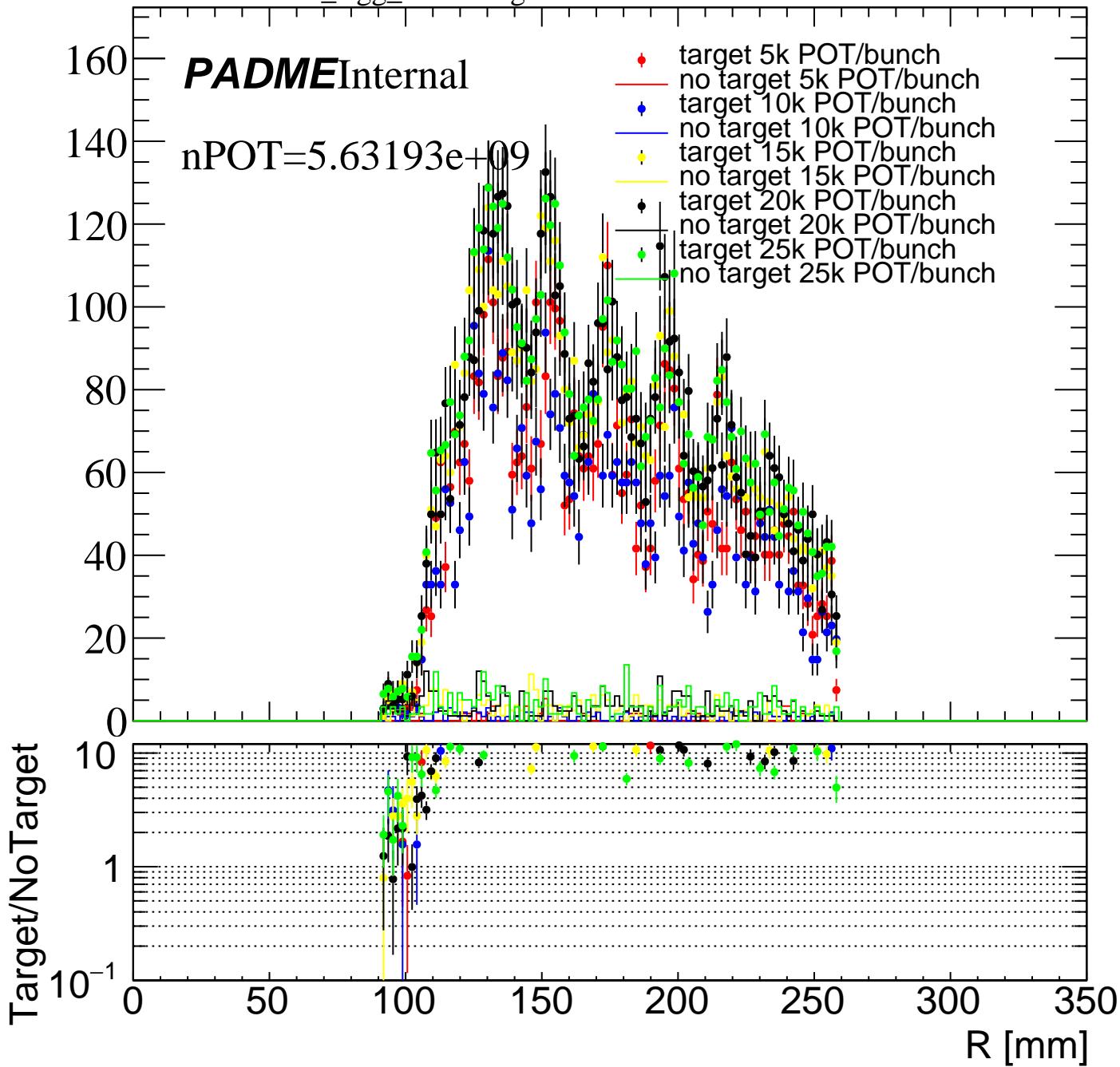
ECAL\_Rgg\_10ns20DegreeUnderPeak



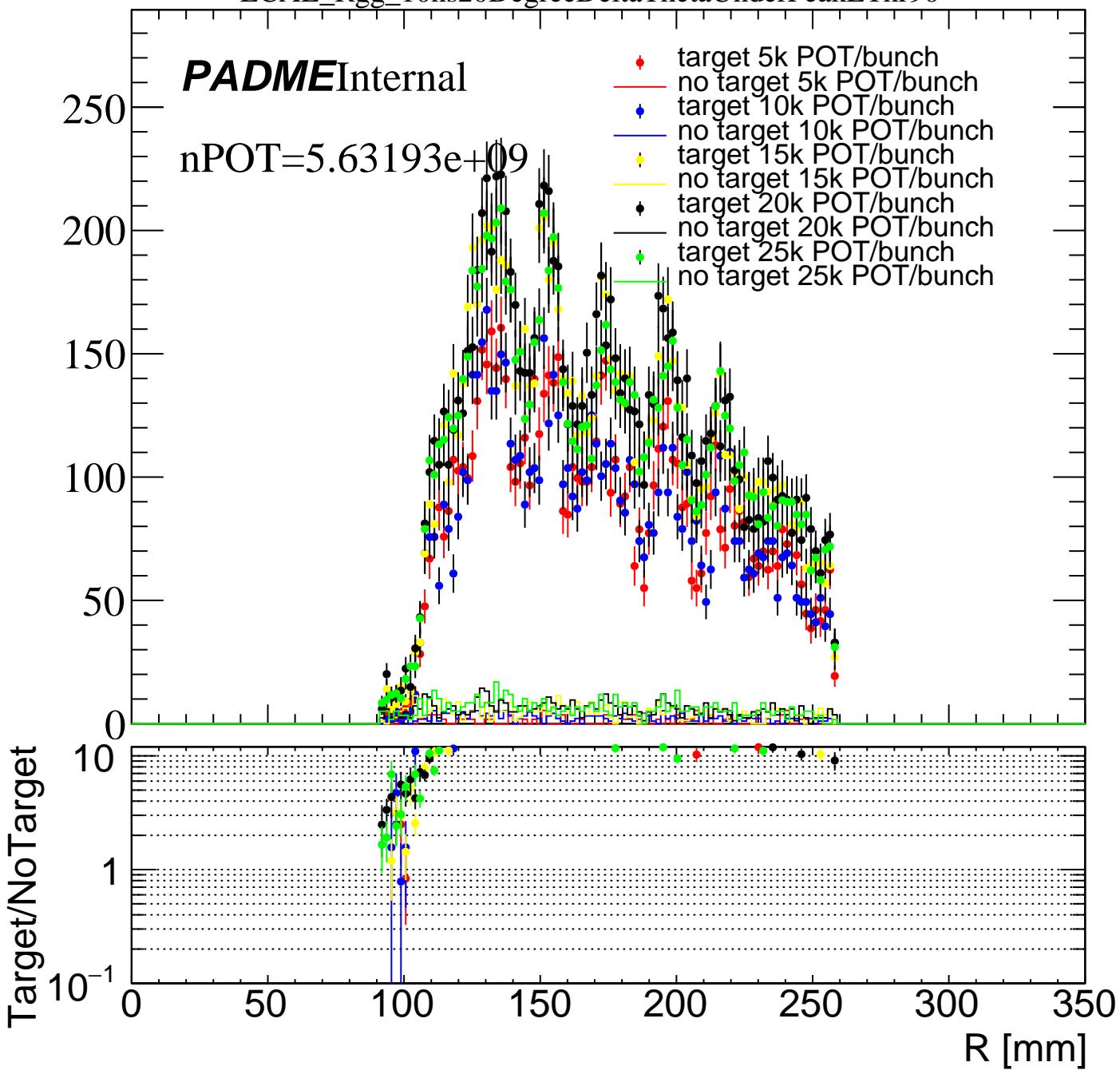
ECAL\_Rgg\_10ns20DegreeDeltaThetaUnderPeak



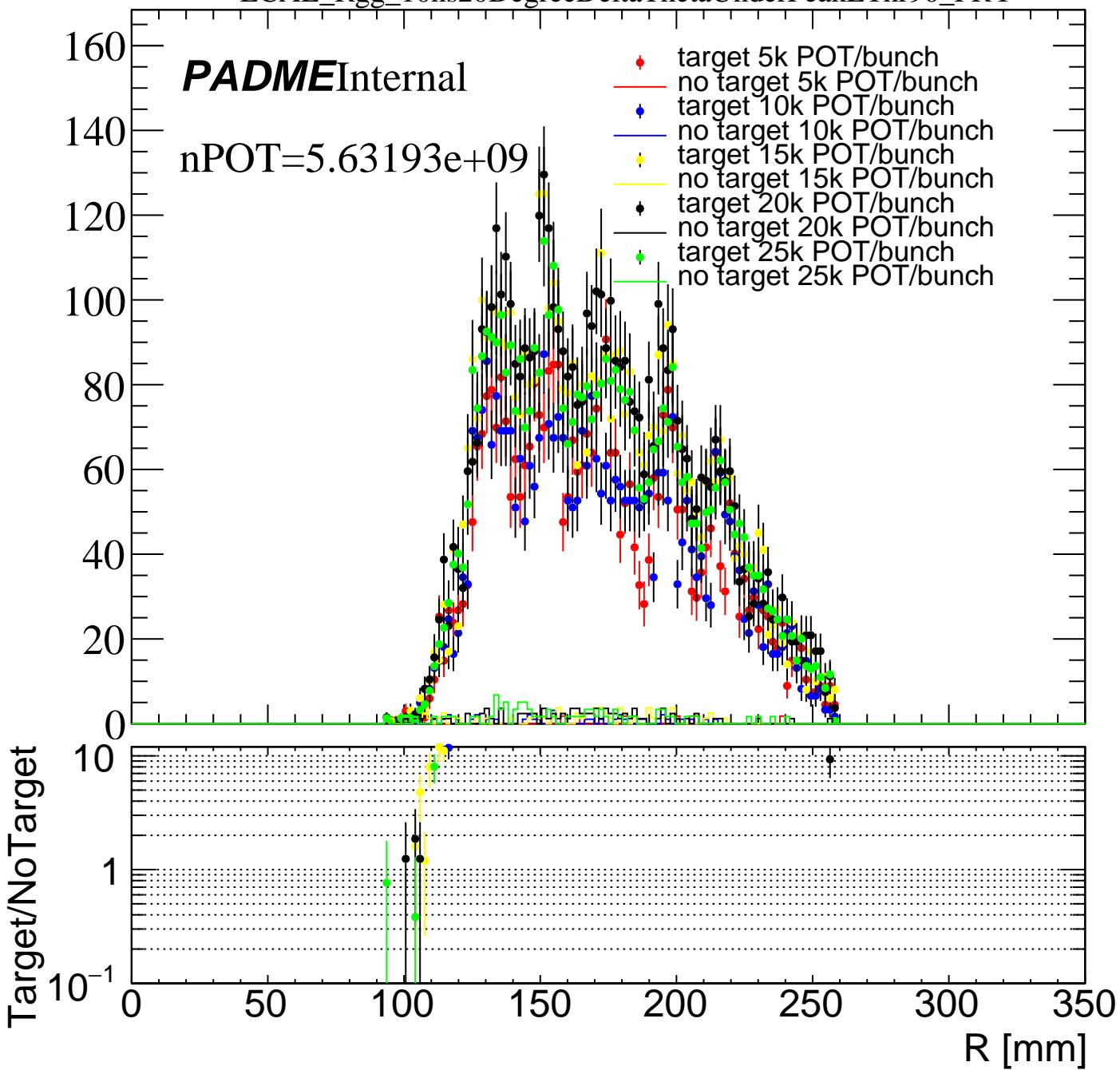
# ECAL\_Rgg\_10ns5DegreeDeltaThetaUnderPeak



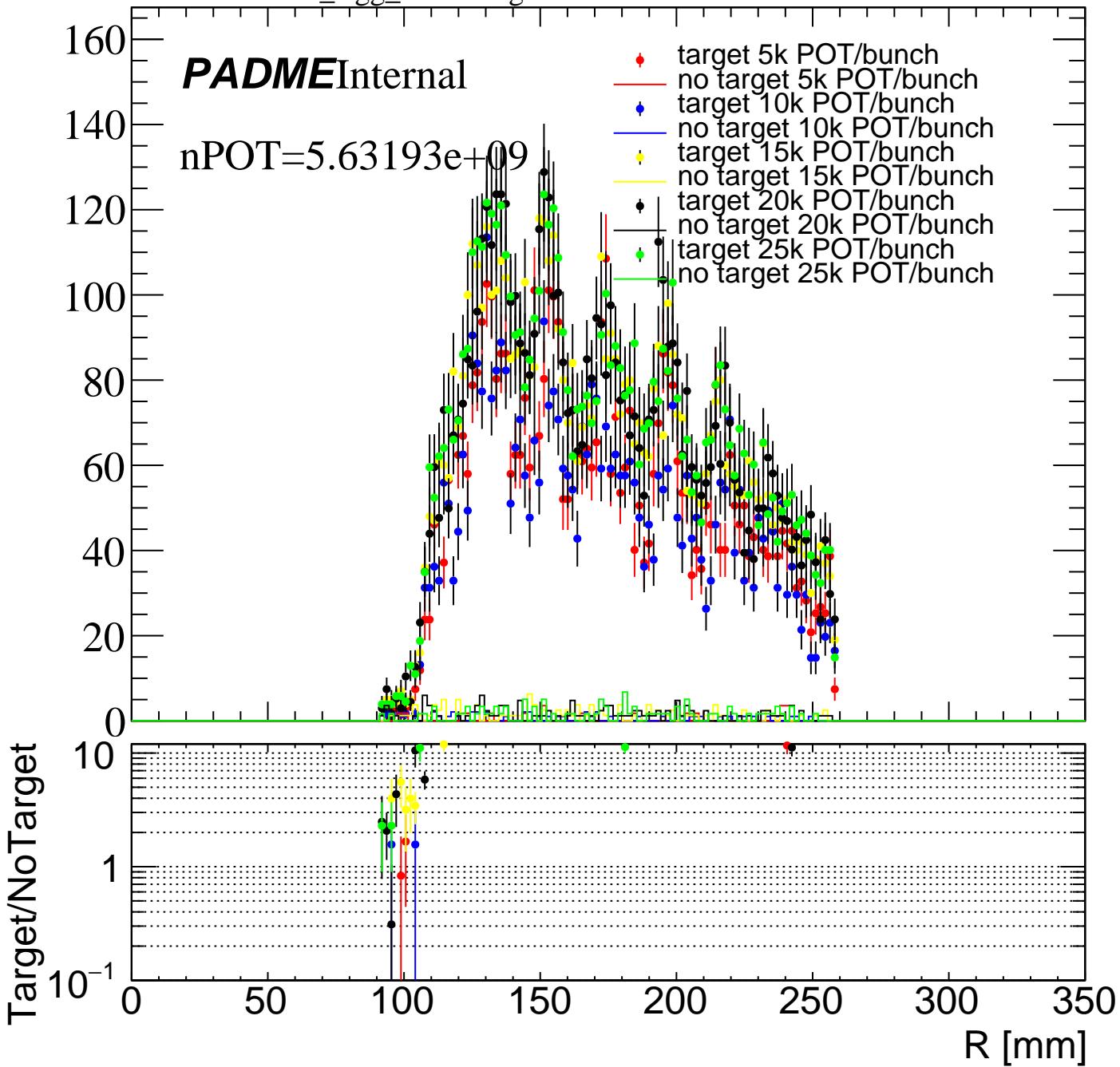
ECAL\_Rgg\_10ns20DegreeDeltaThetaUnderPeakEThr90



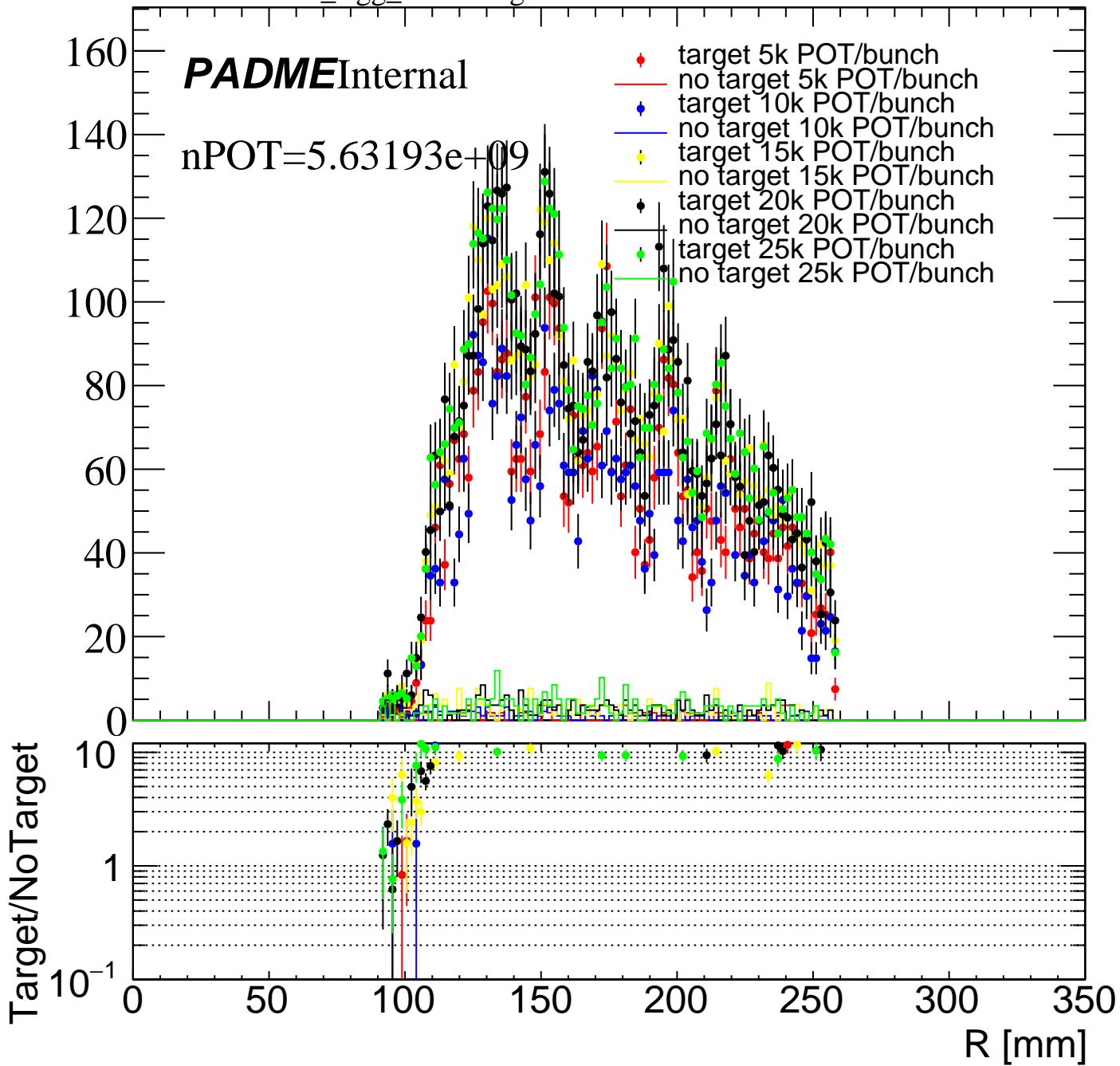
ECAL\_Rgg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY



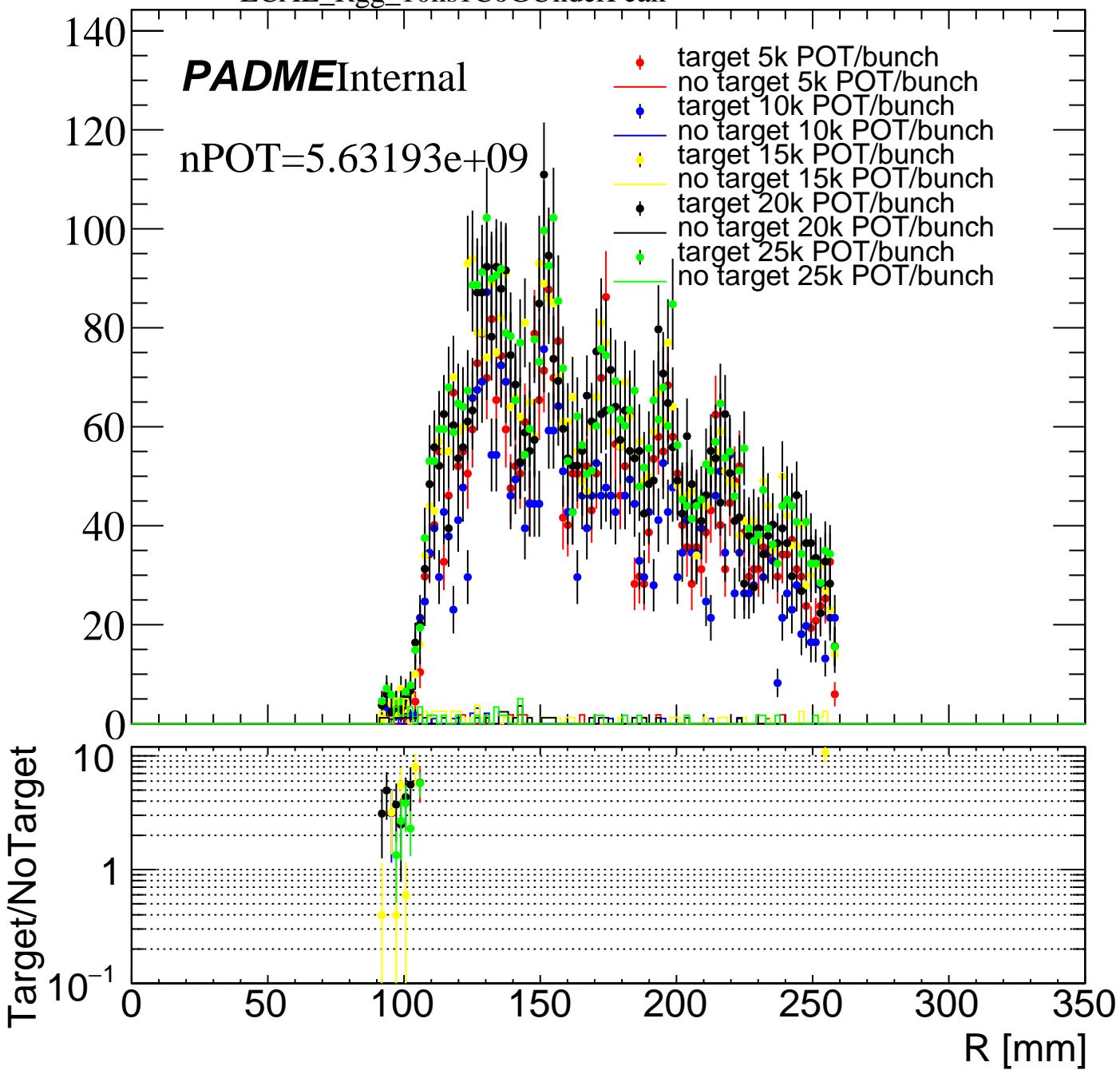
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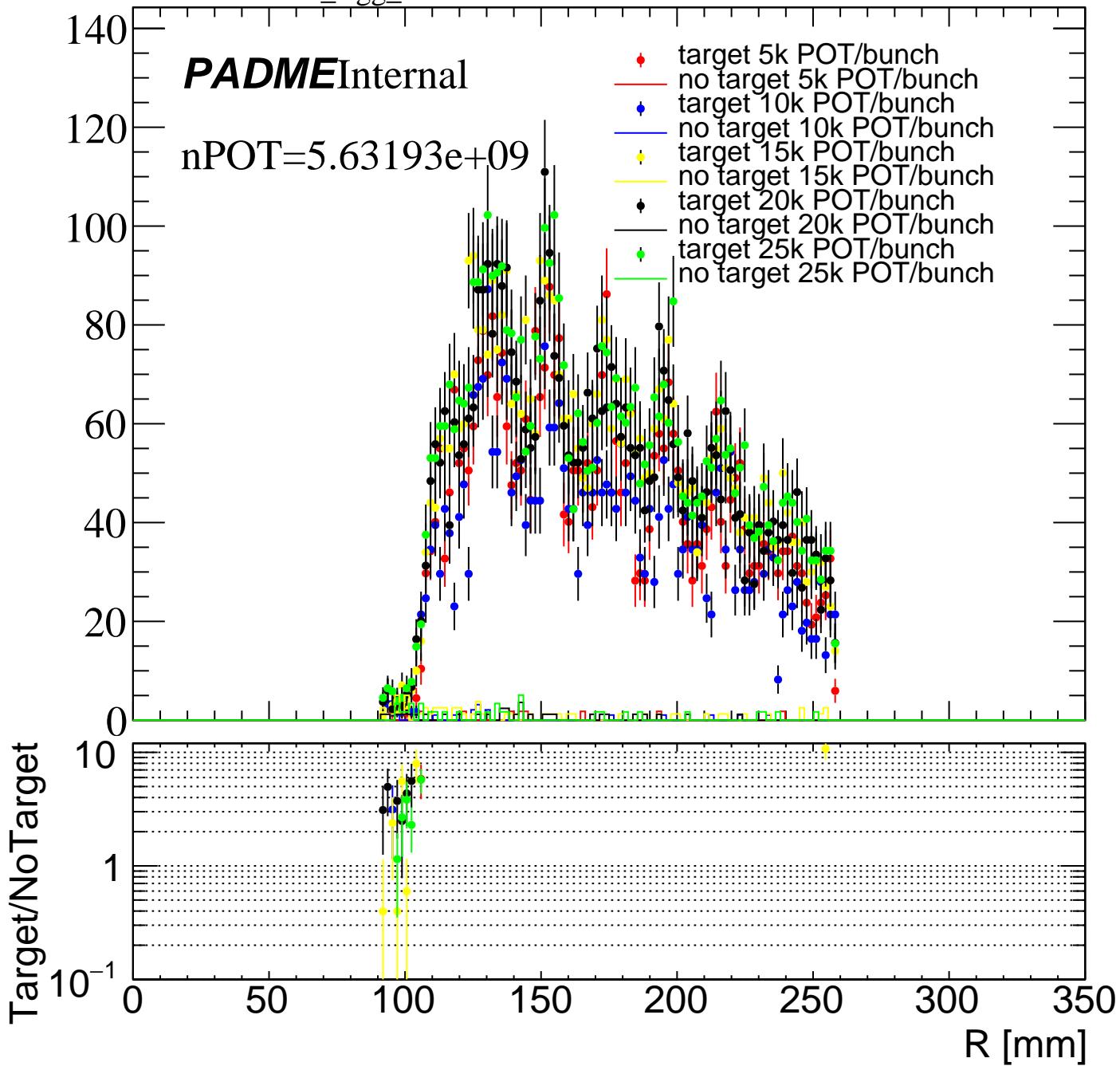
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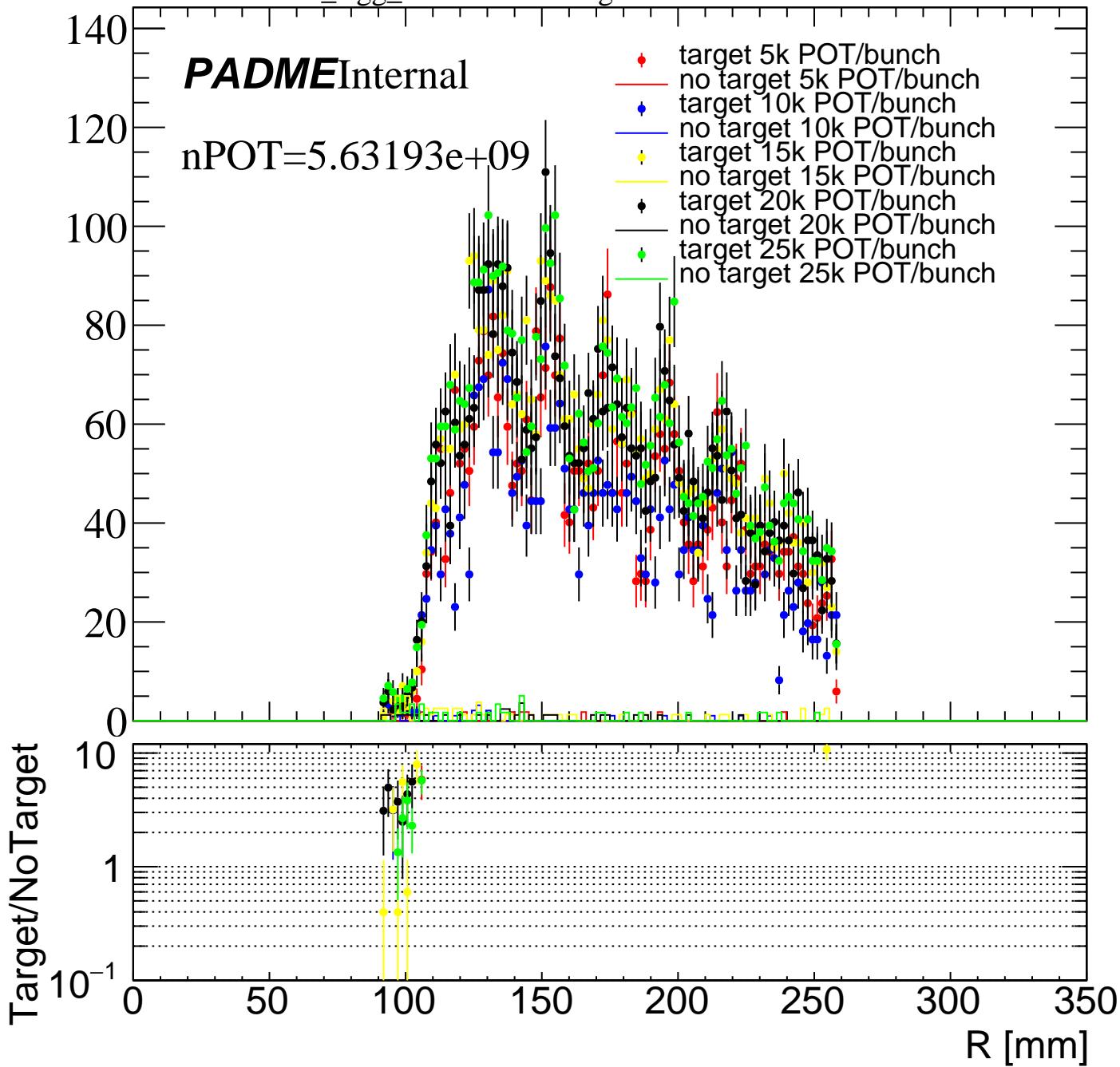
ECAL\_Rgg\_10ns1CoGUnderPeak



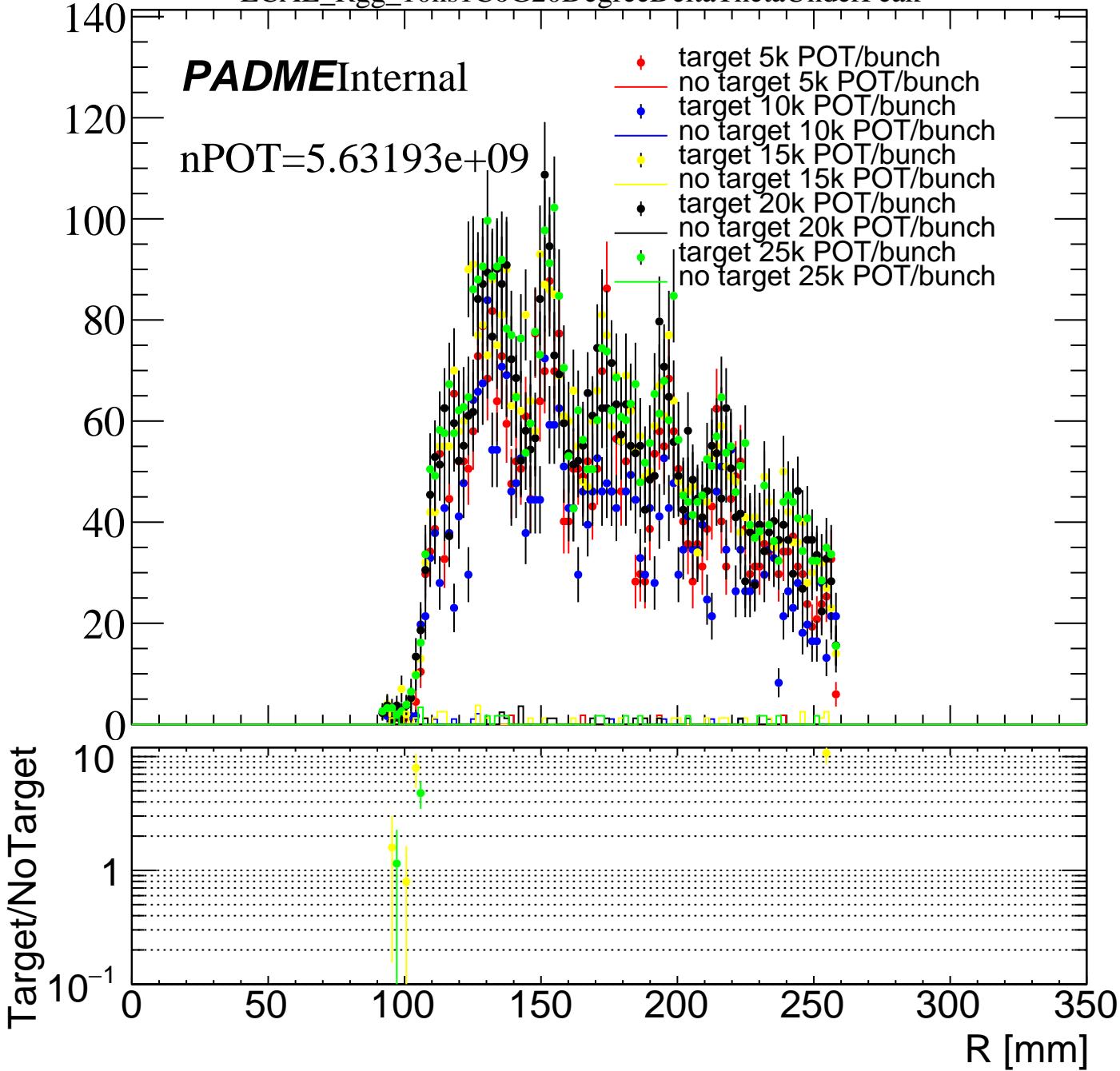
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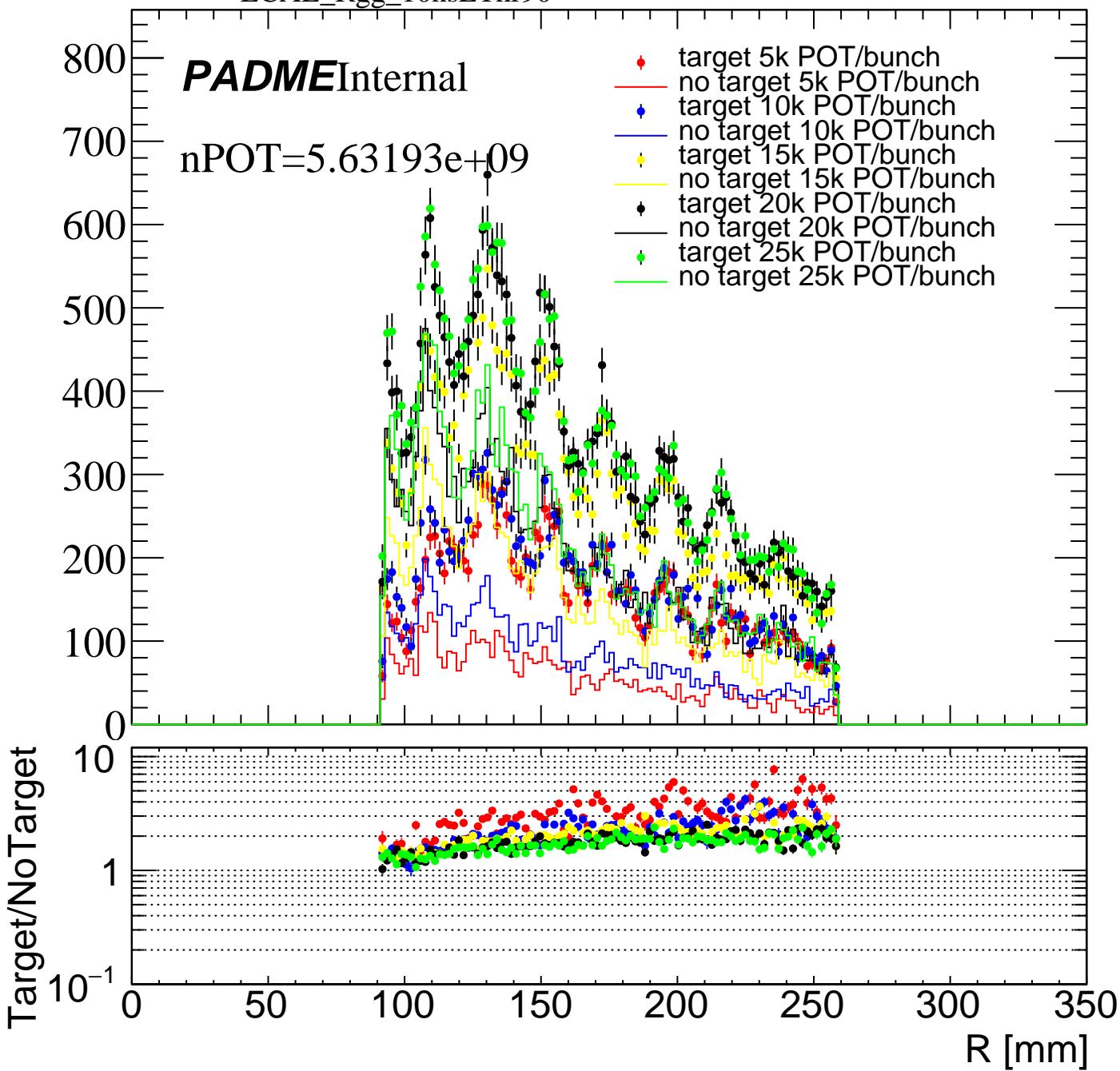
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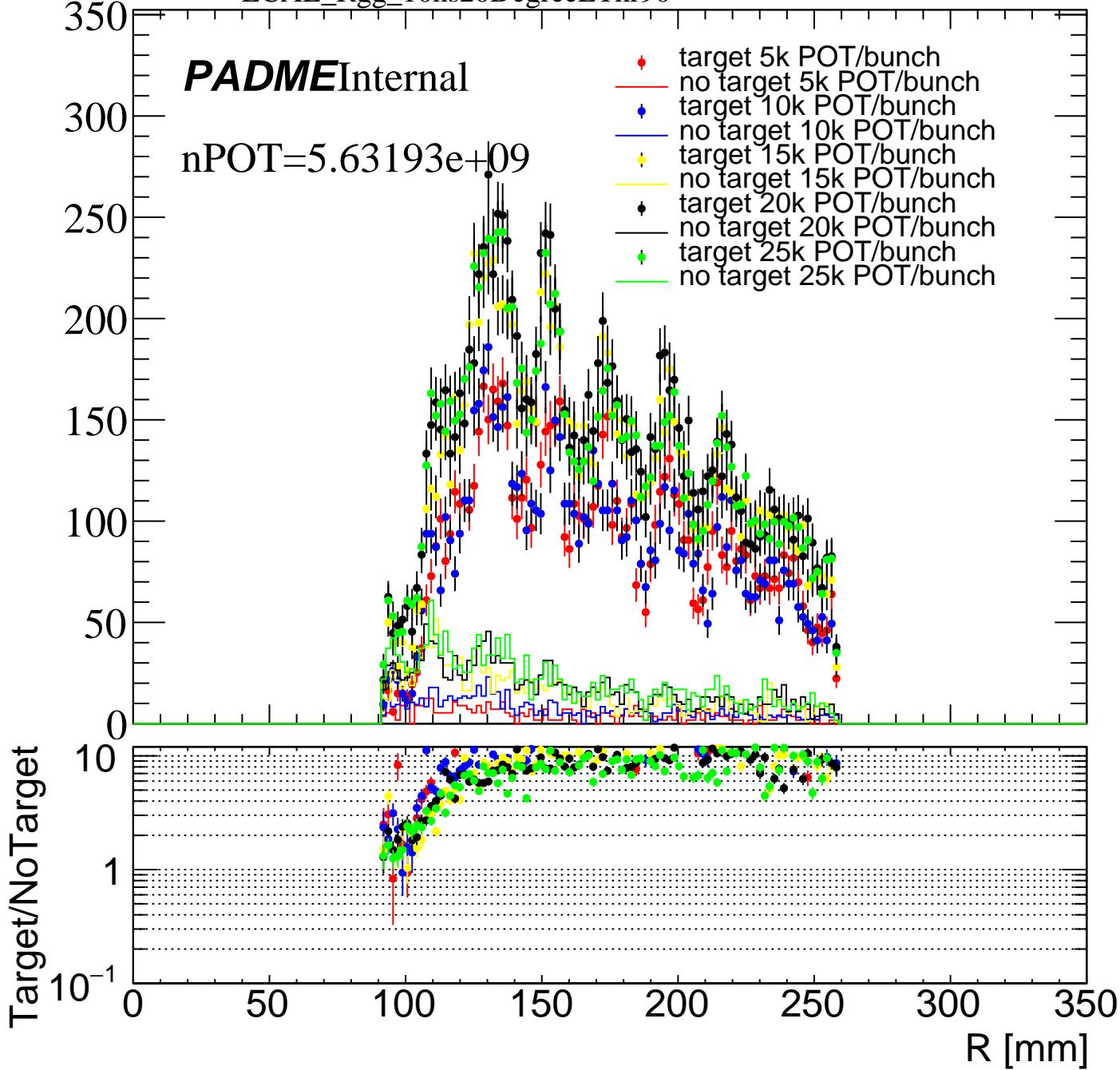
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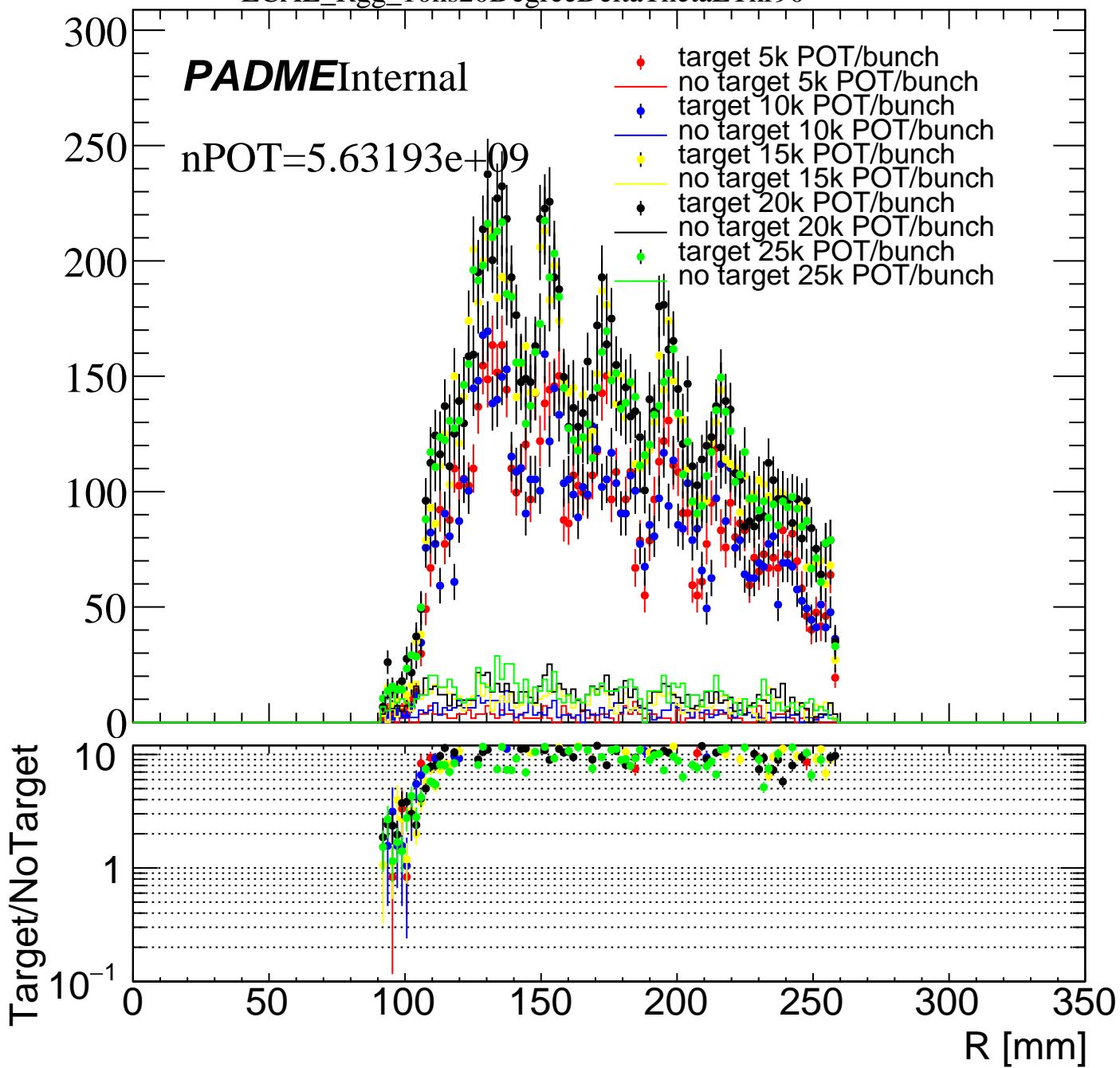
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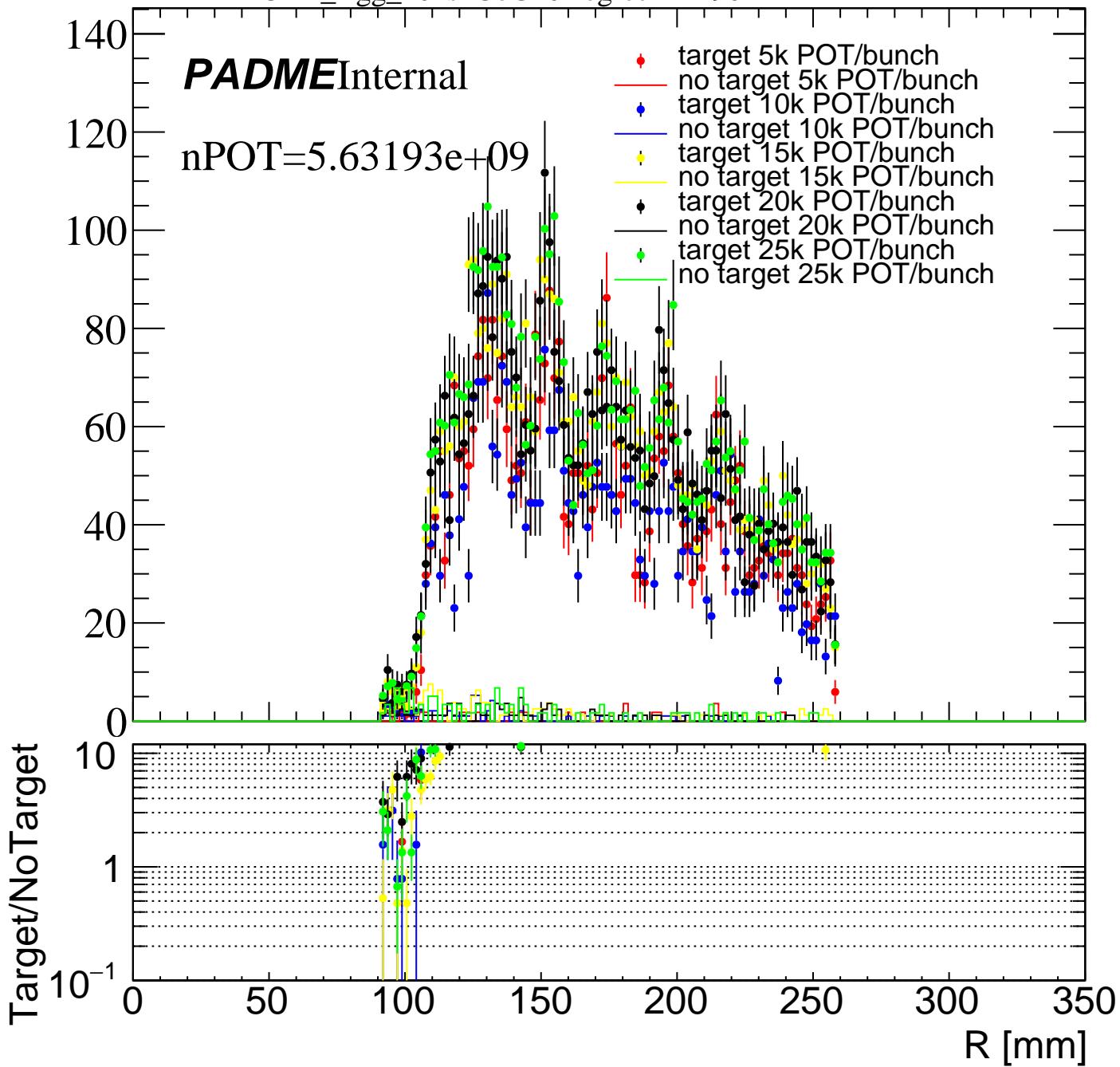
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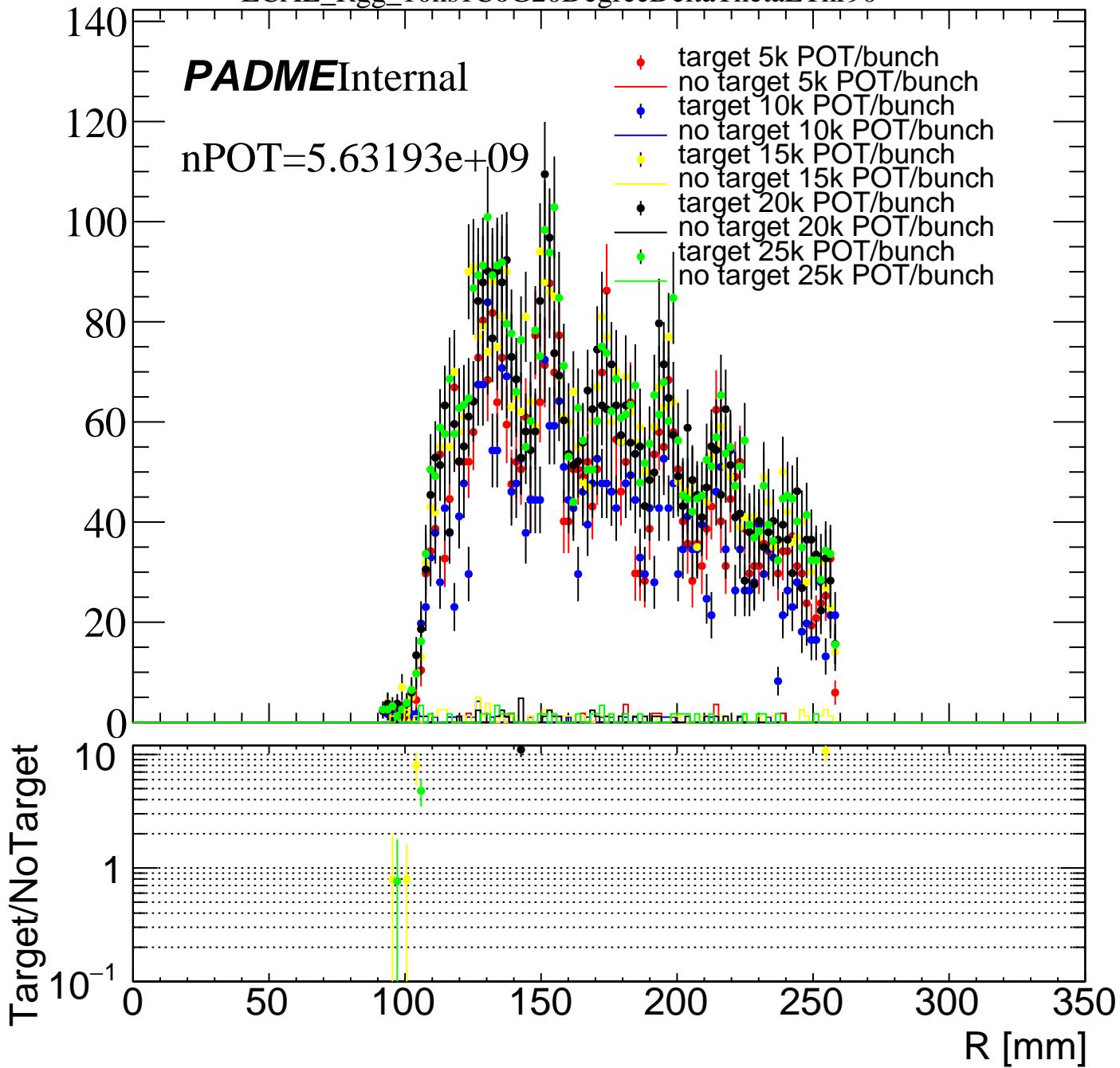
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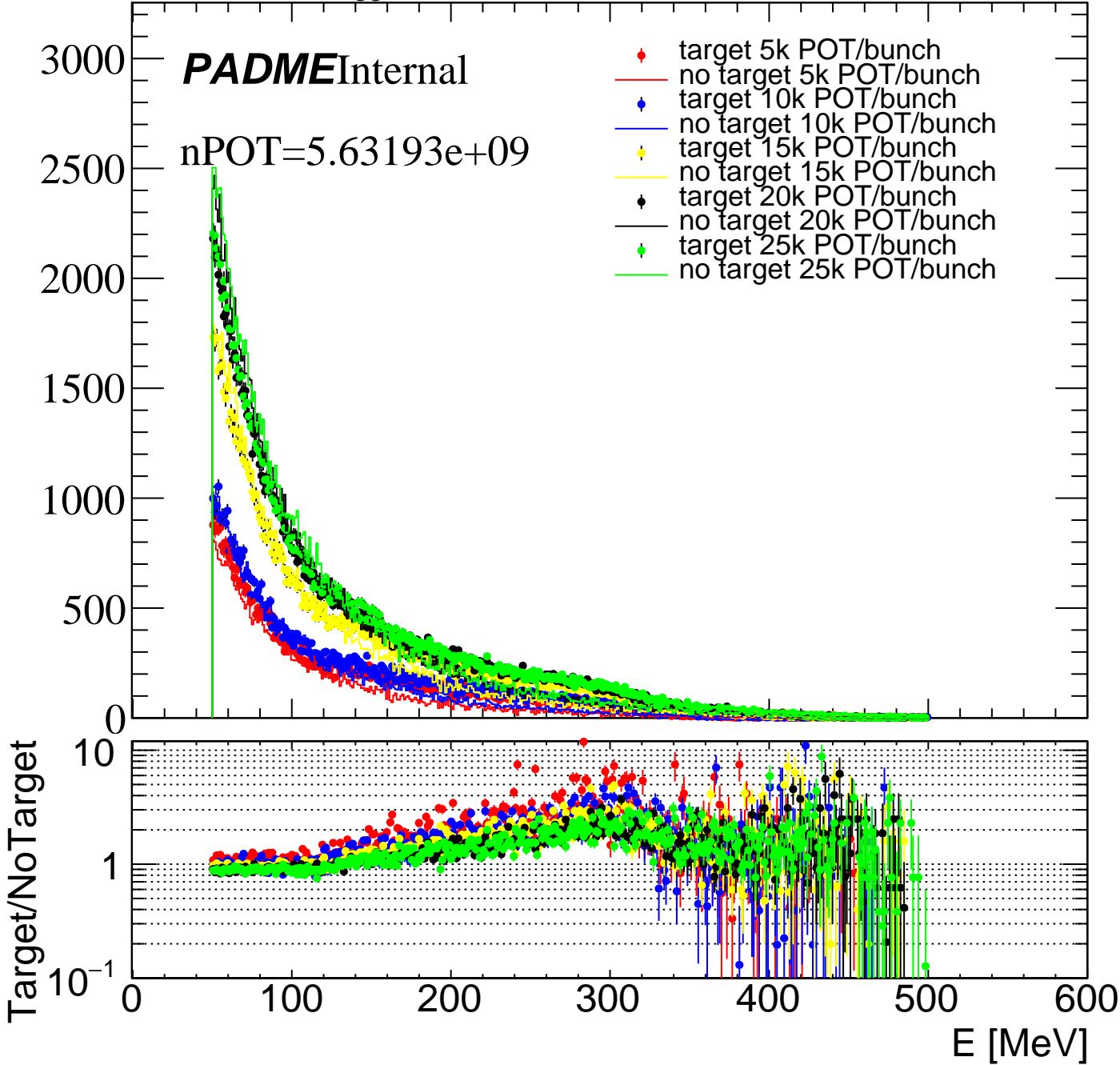
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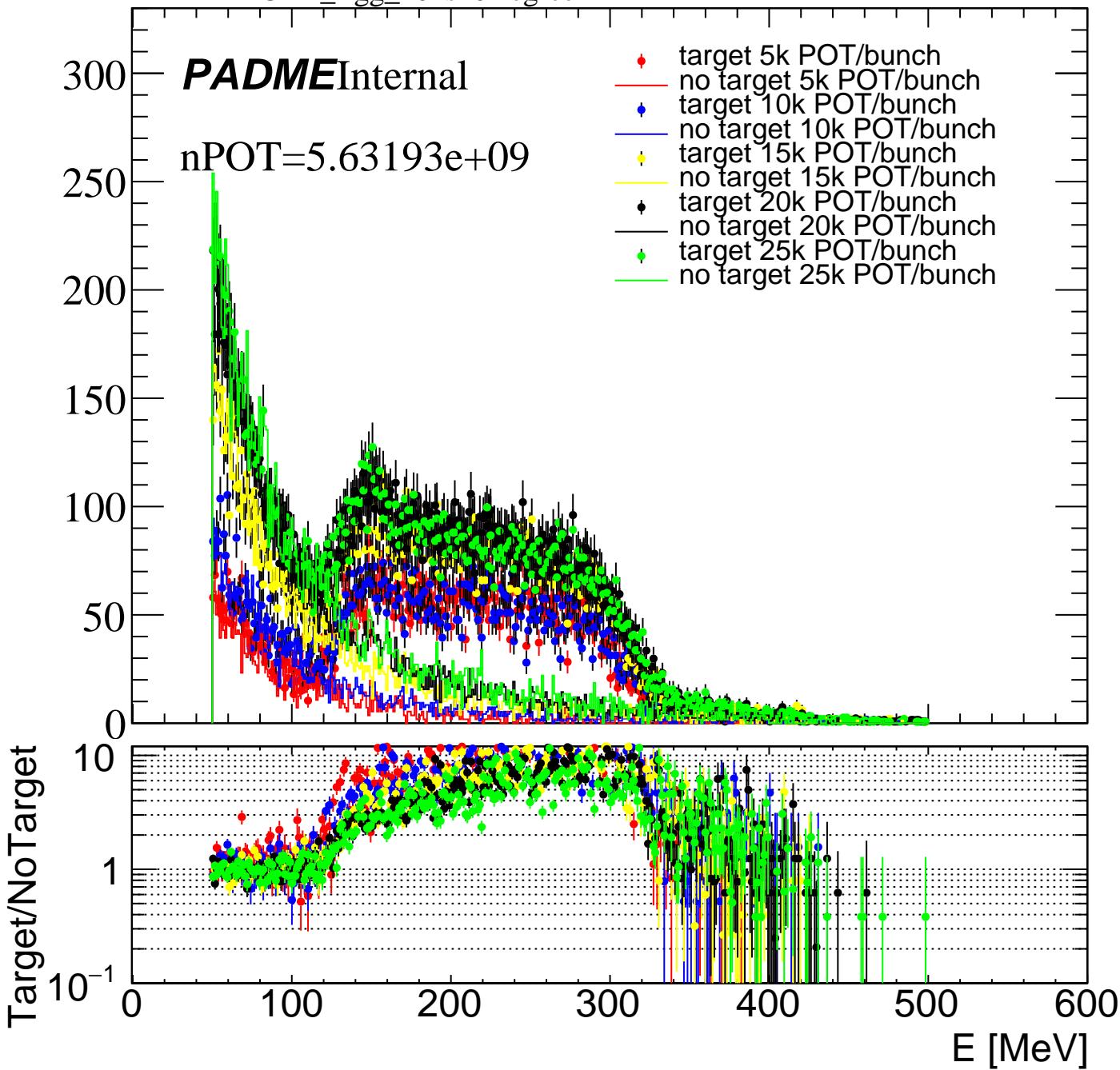
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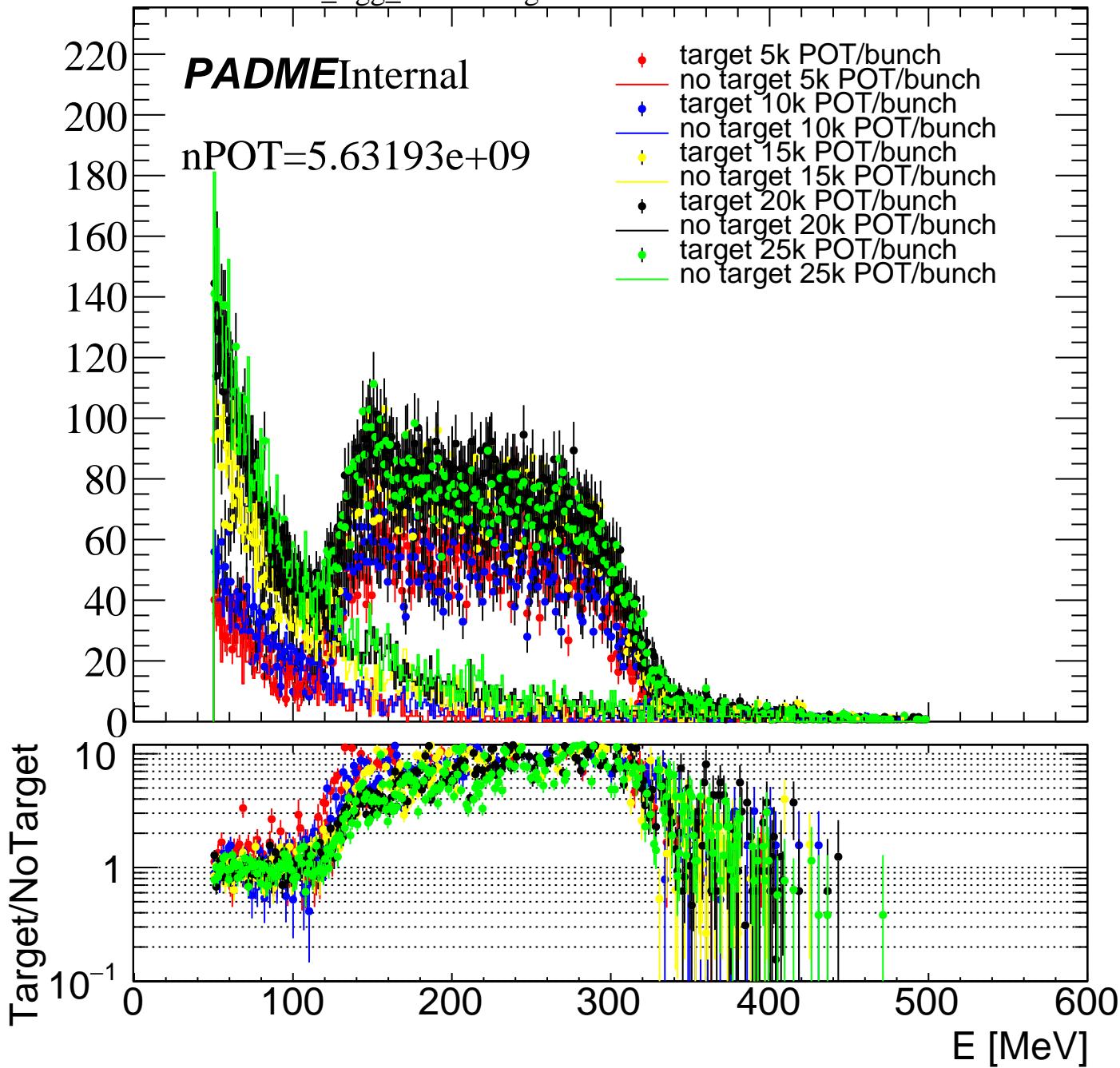
ECAL\_Egg\_10ns



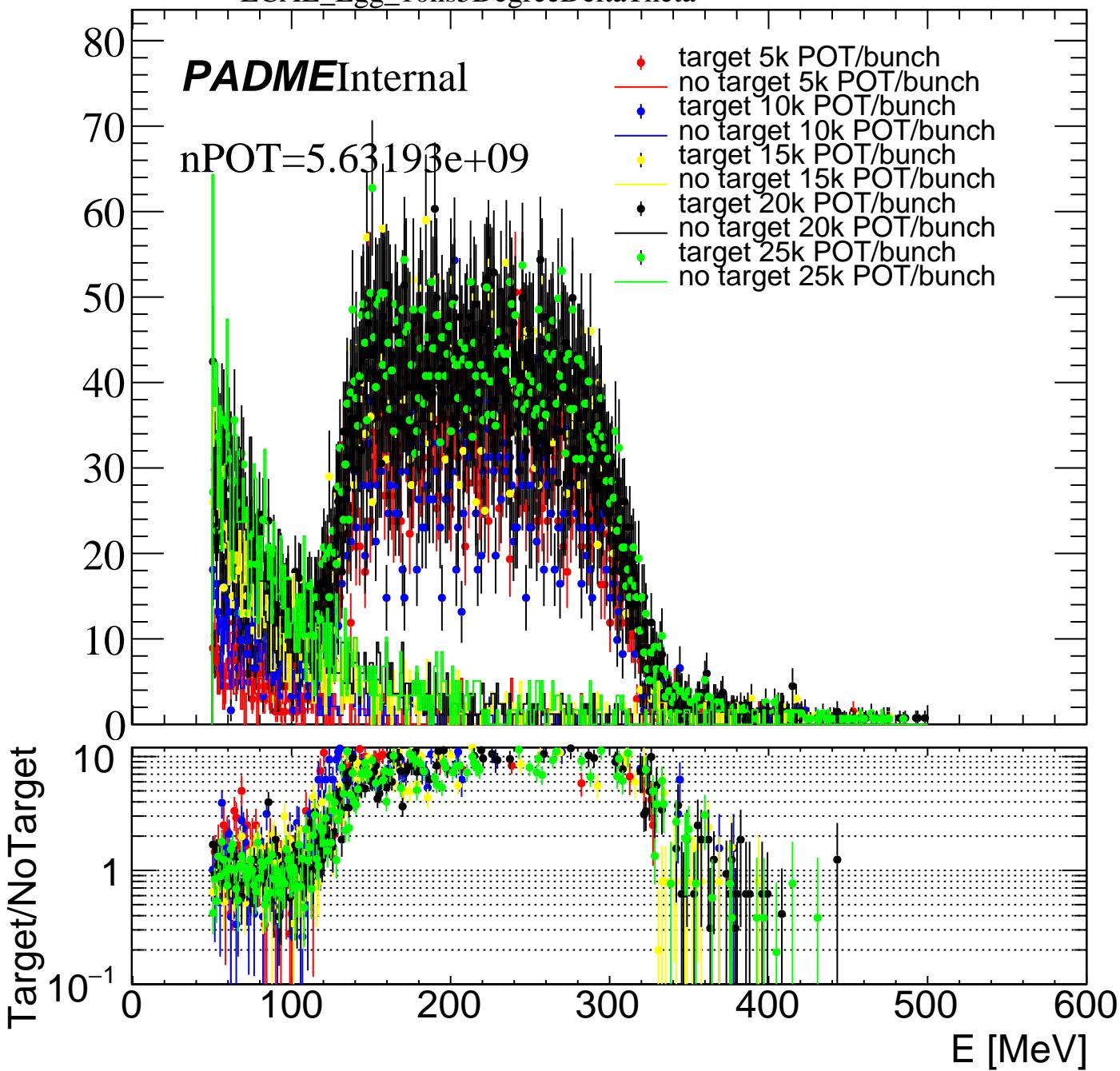
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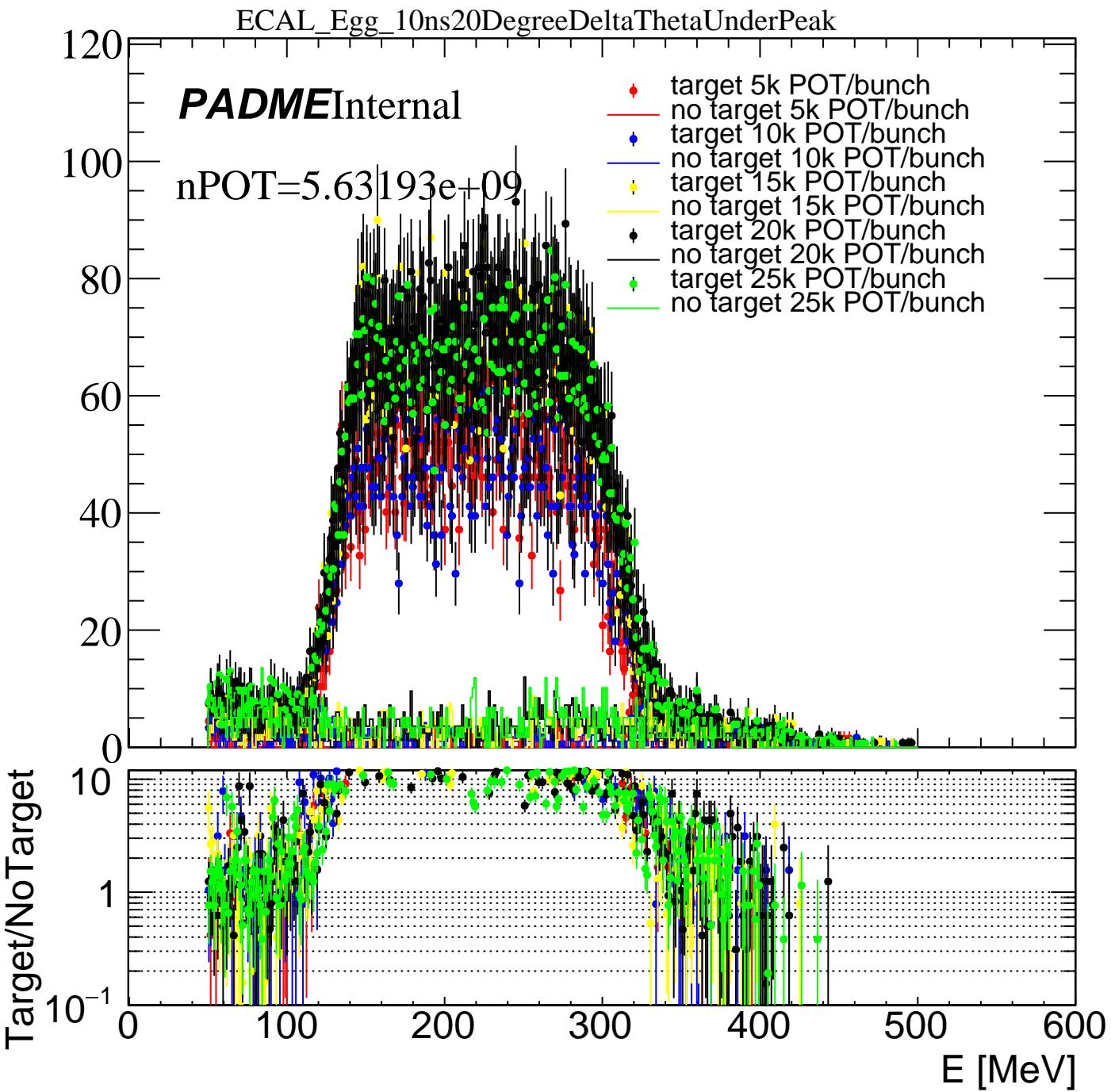


# ECAL\_Egg\_10ns20DegreeDeltaTheta

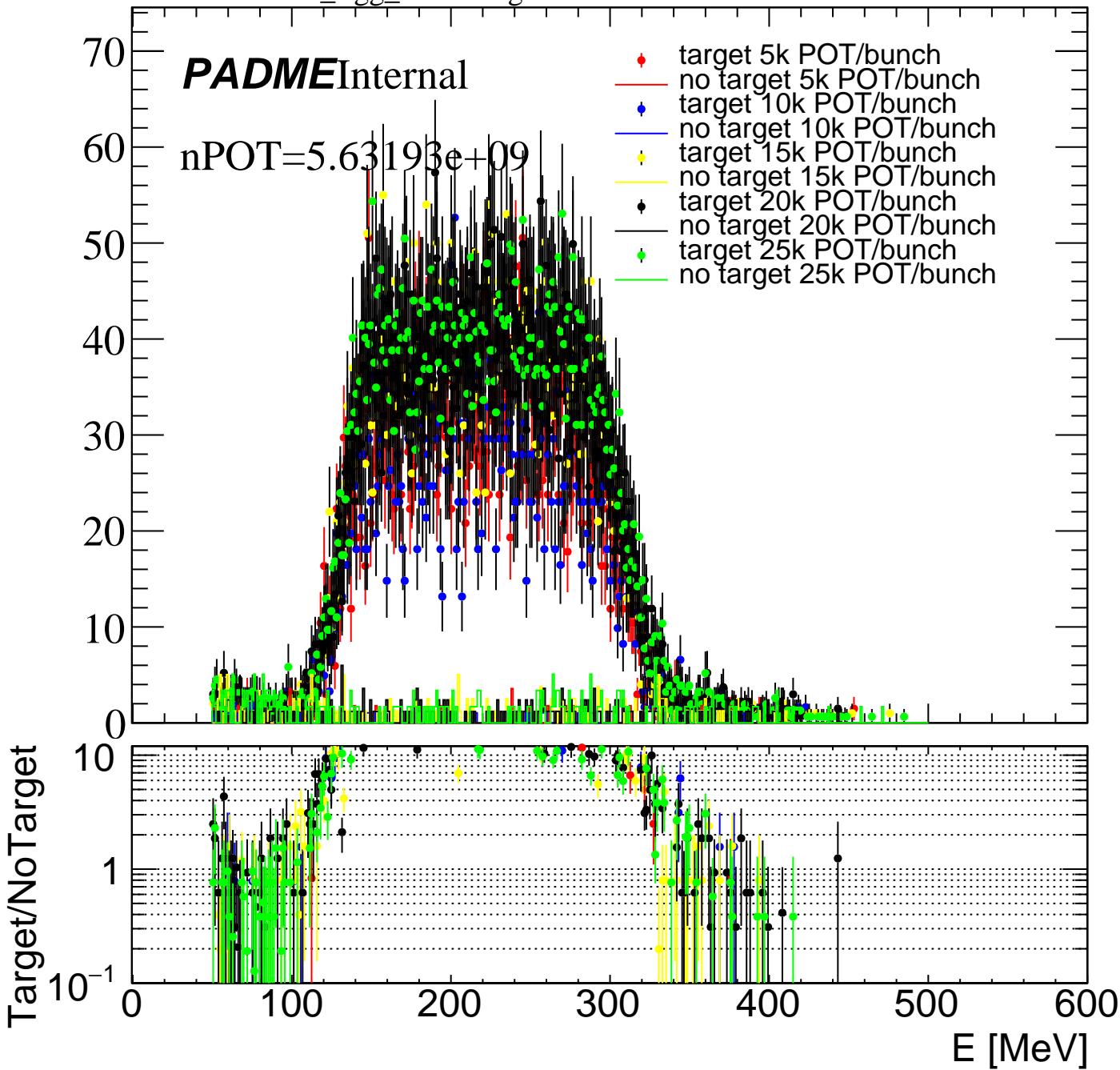


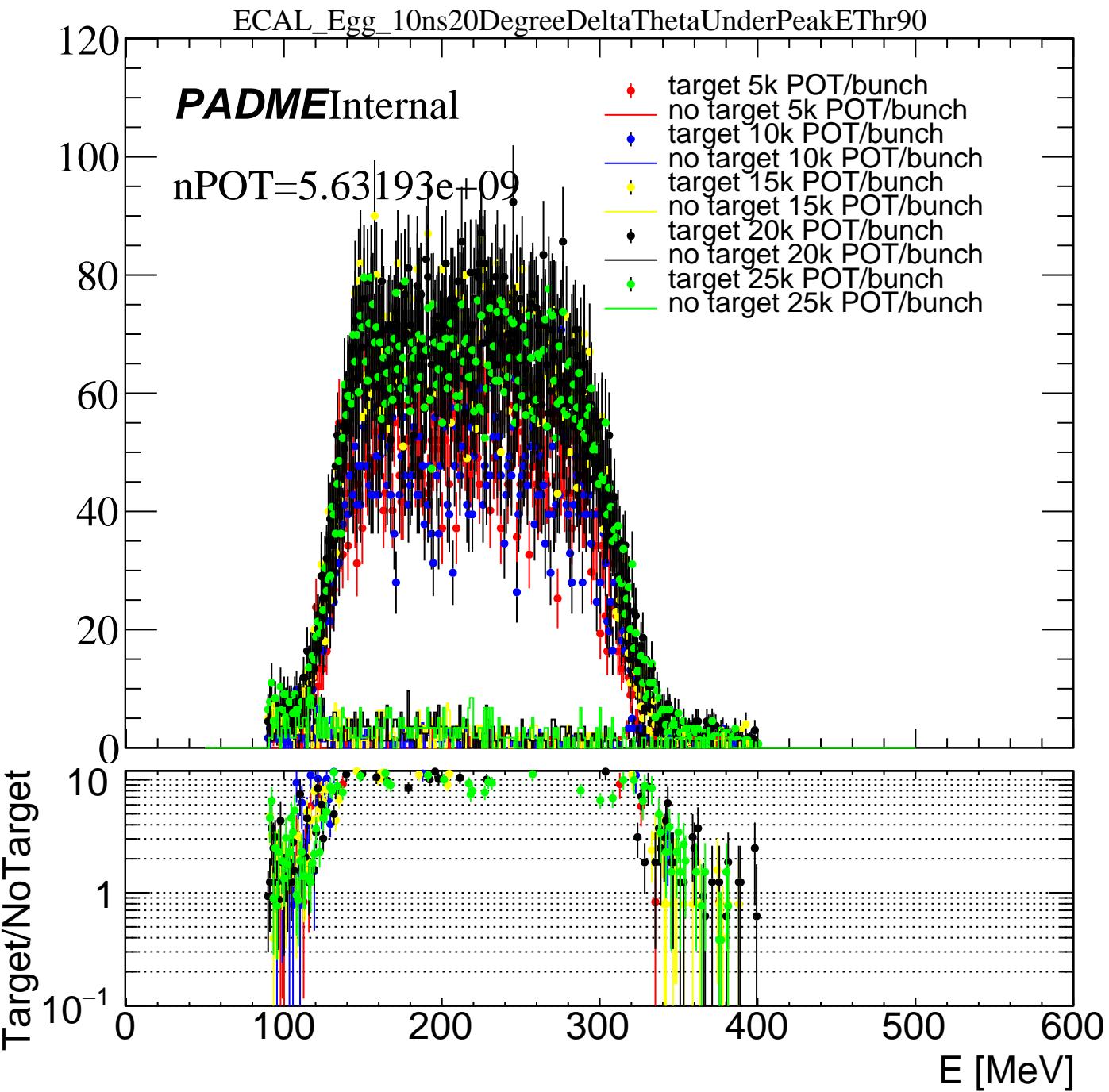
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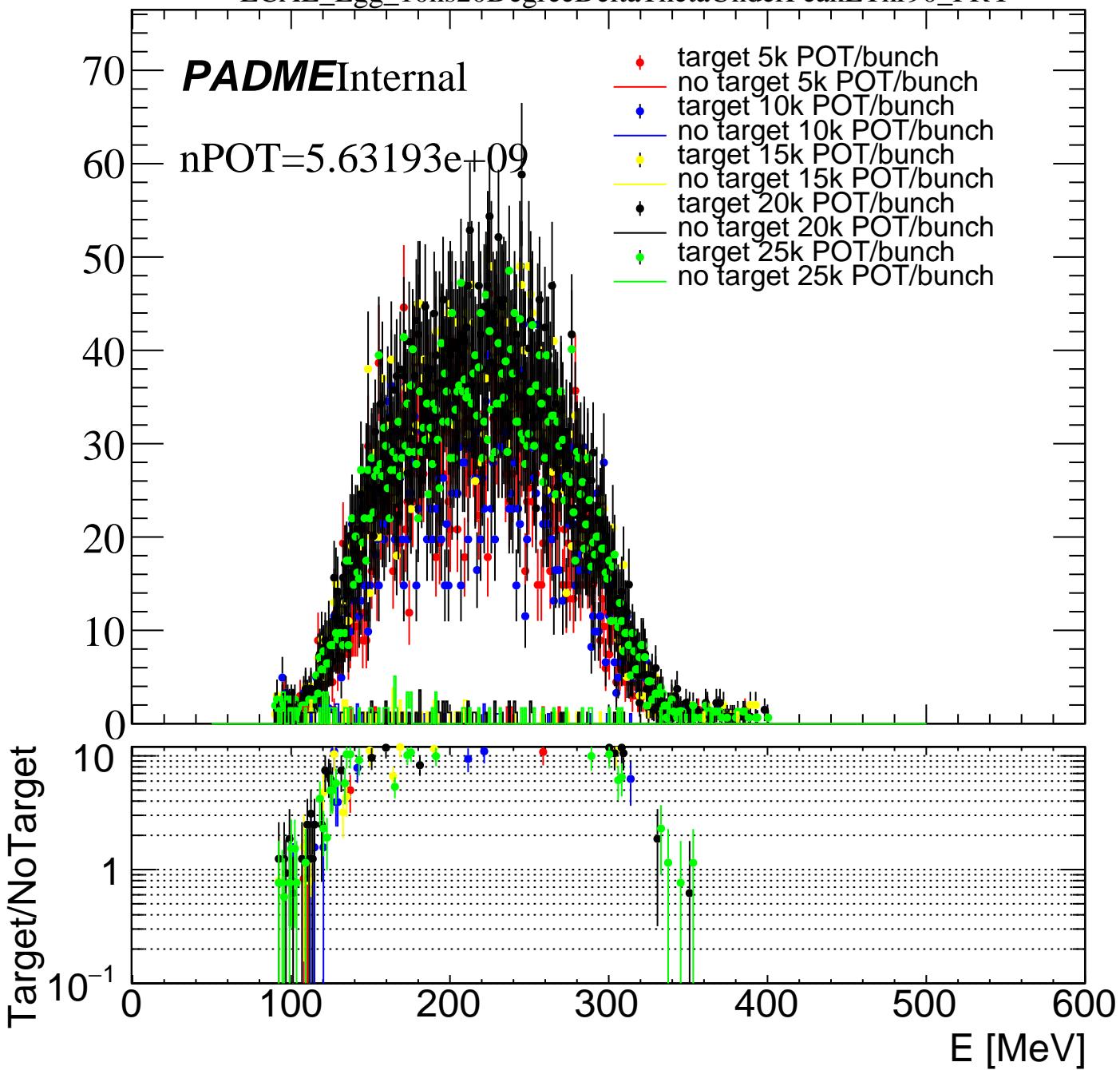


# ECAL\_Egg\_10ns5DegreeDeltaThetaUnderPeak

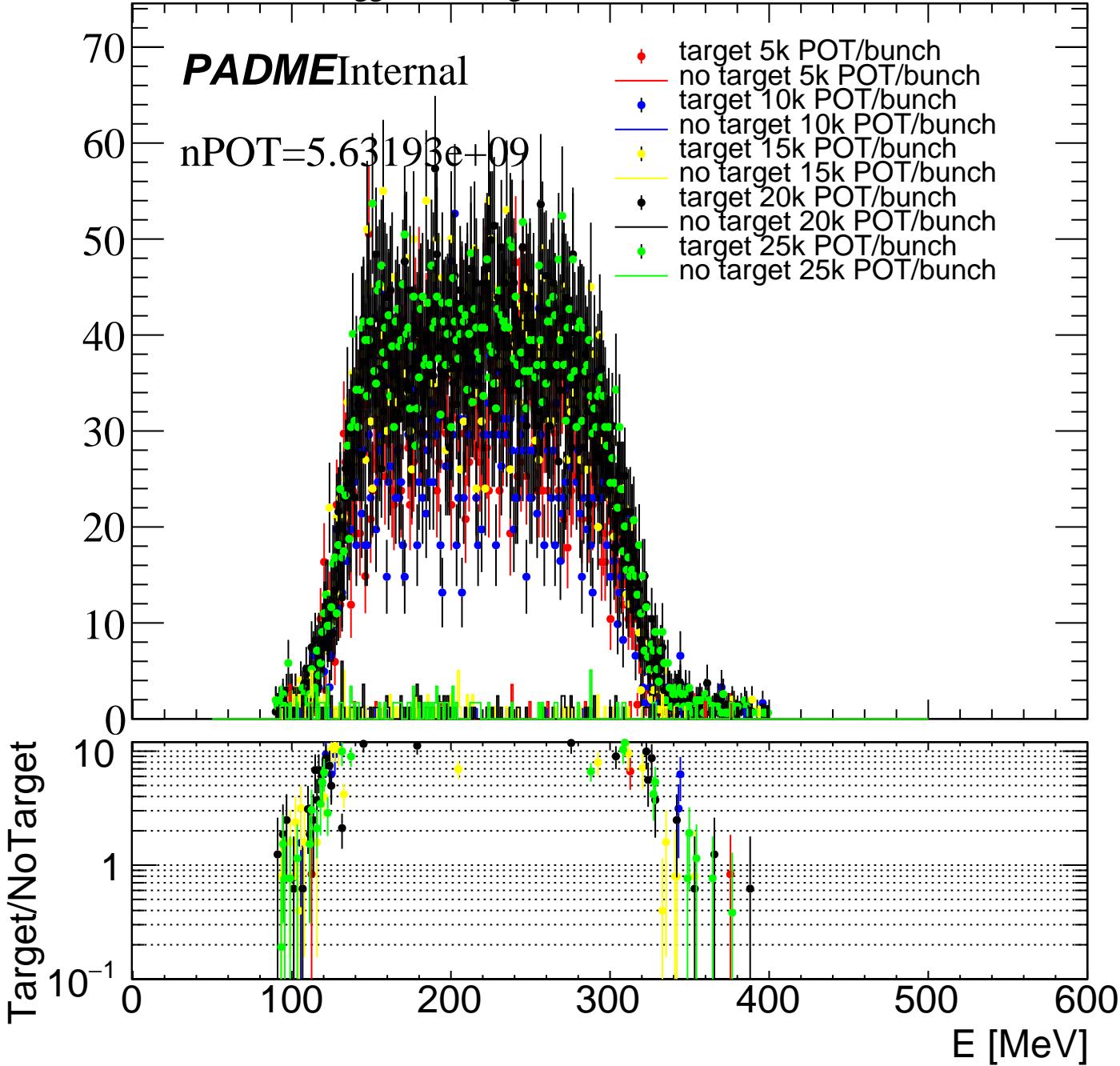




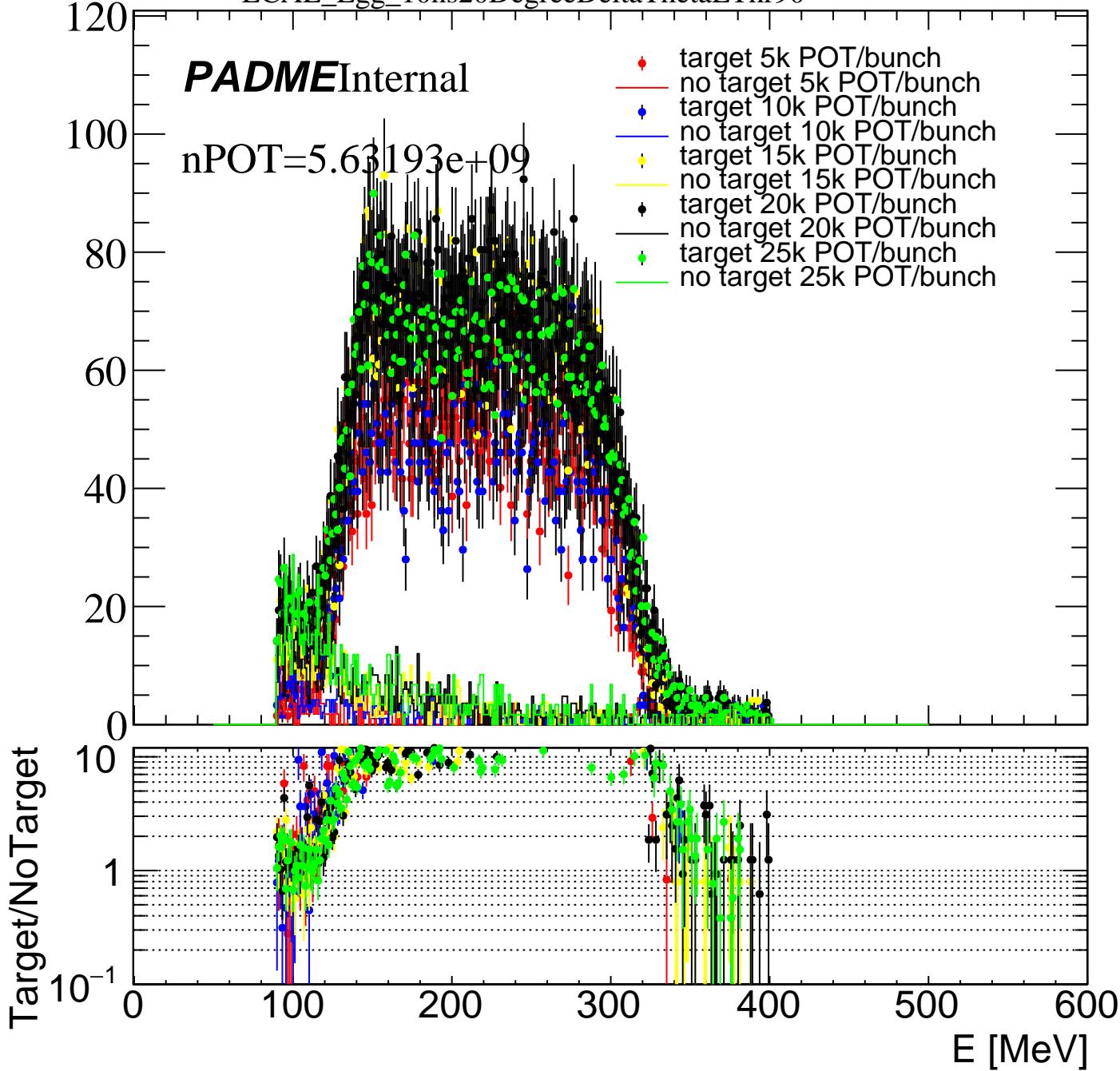
ECAL\_Egg\_10ns20DegreeDeltaThetaUnderPeakEThr90\_FRY



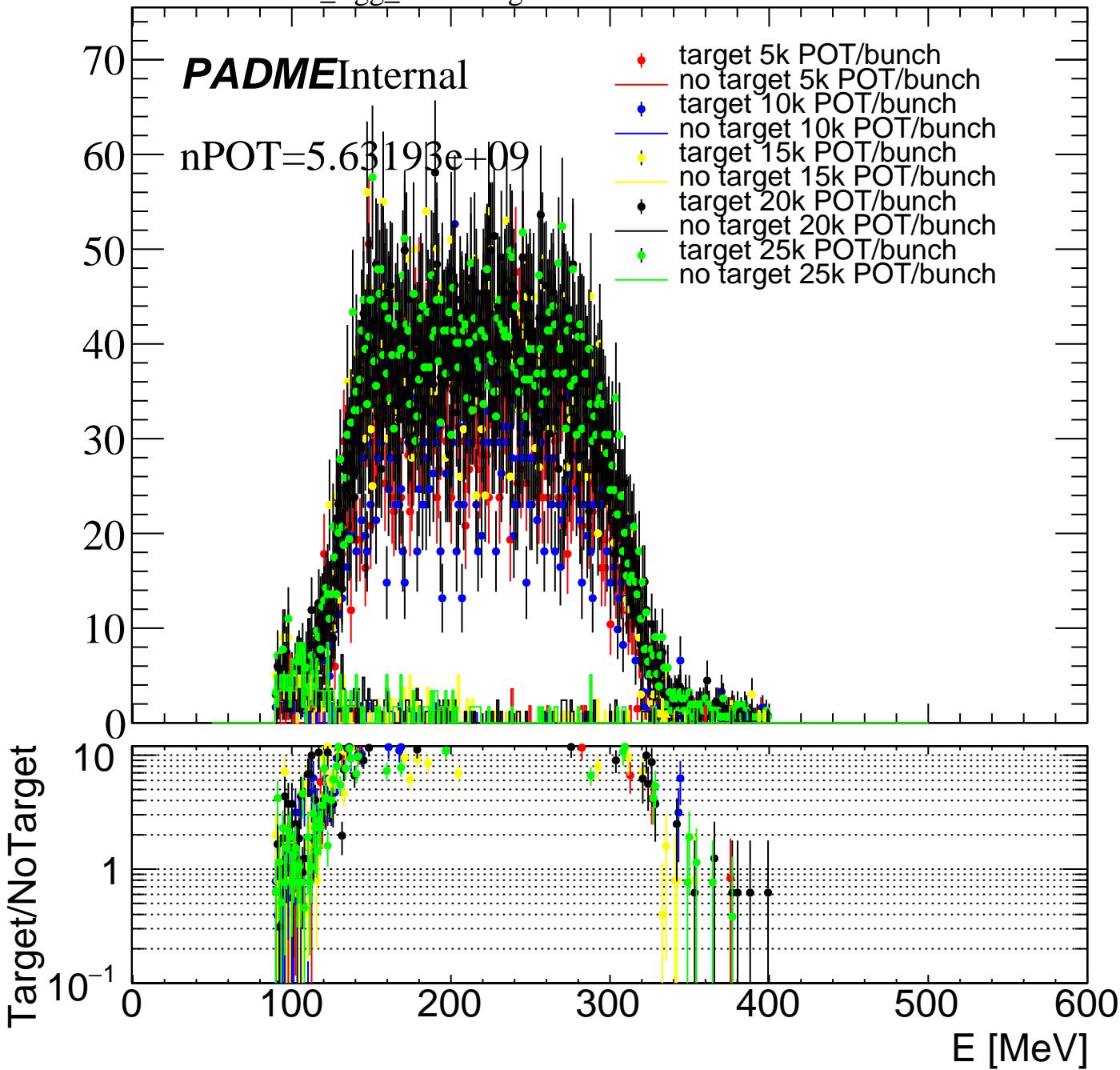
# ECAL\_Egg\_10ns5DegreeDeltaThetaUnderPeakEThr90



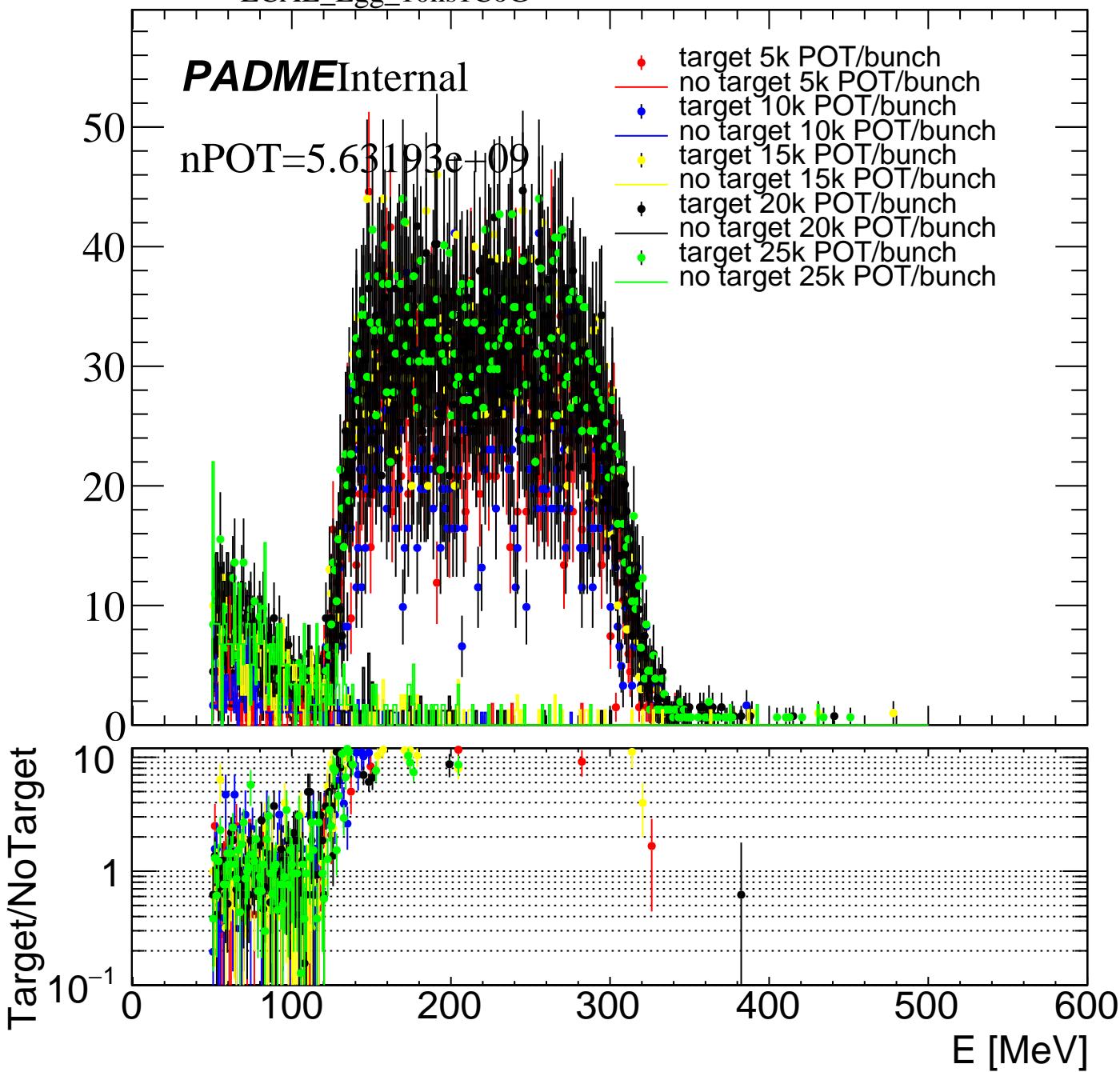
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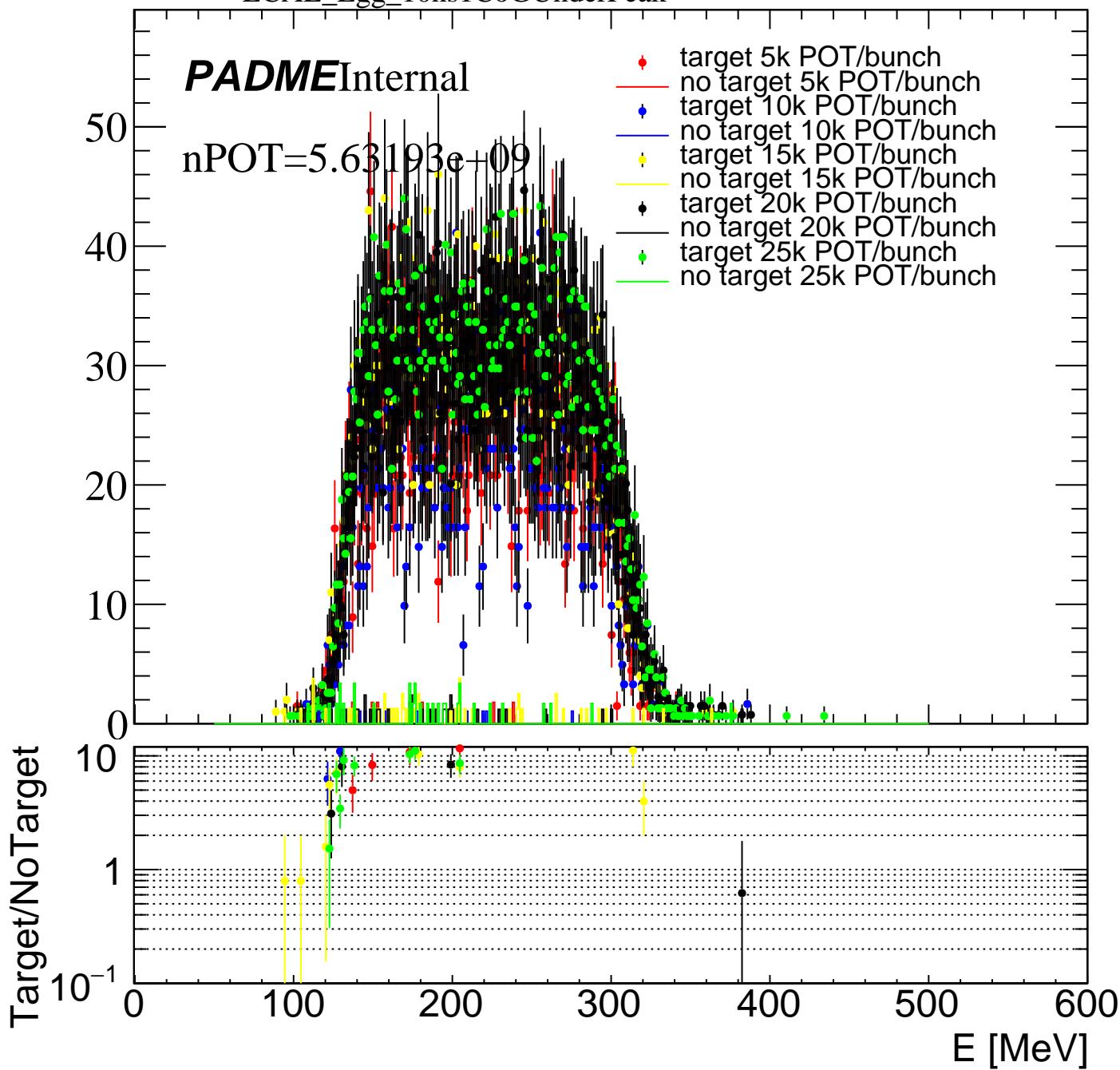
# ECAL\_Egg\_10ns5DegreeDeltaThetaETHr90



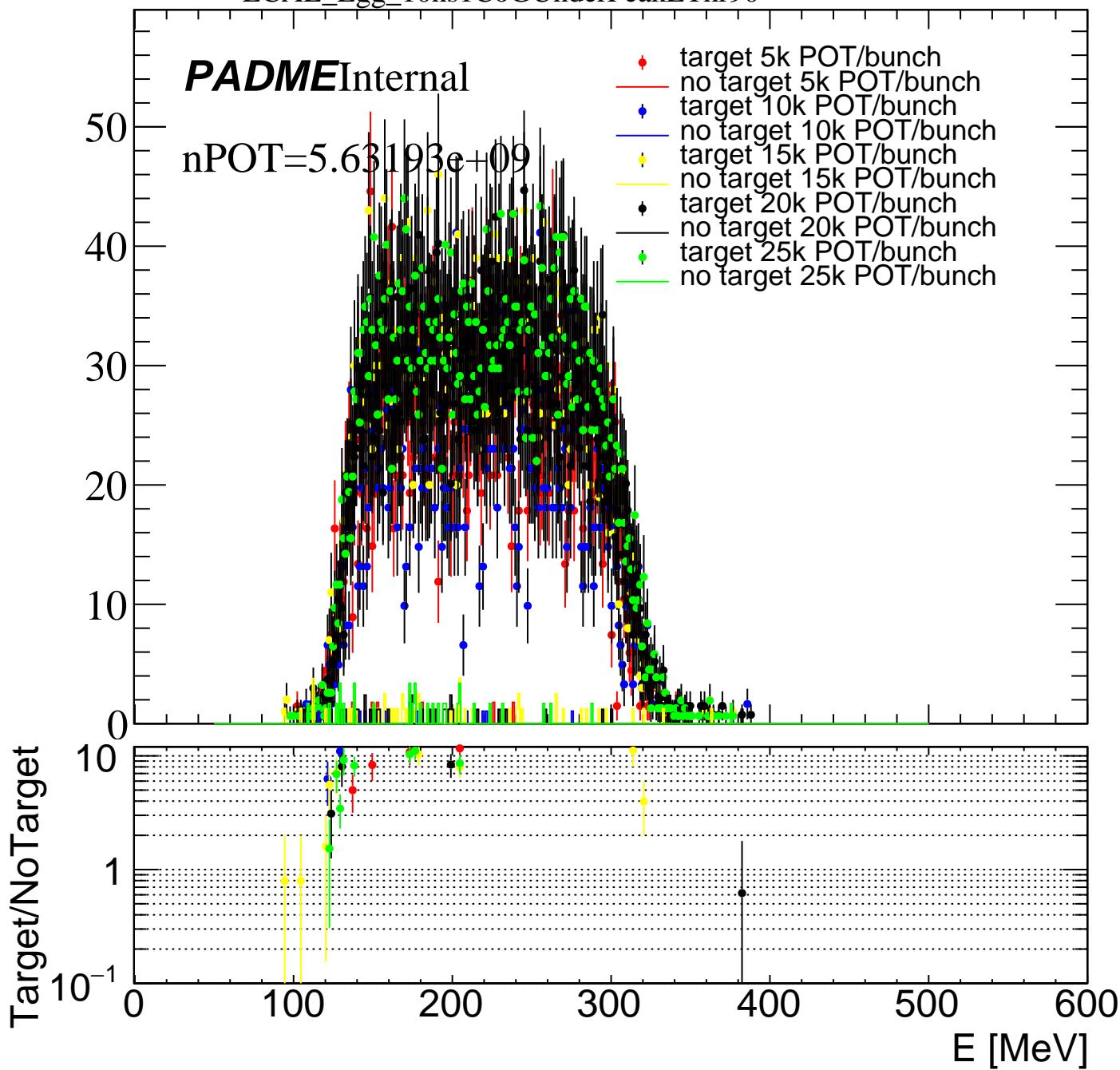
ECAL\_Egg\_10ns1CoG



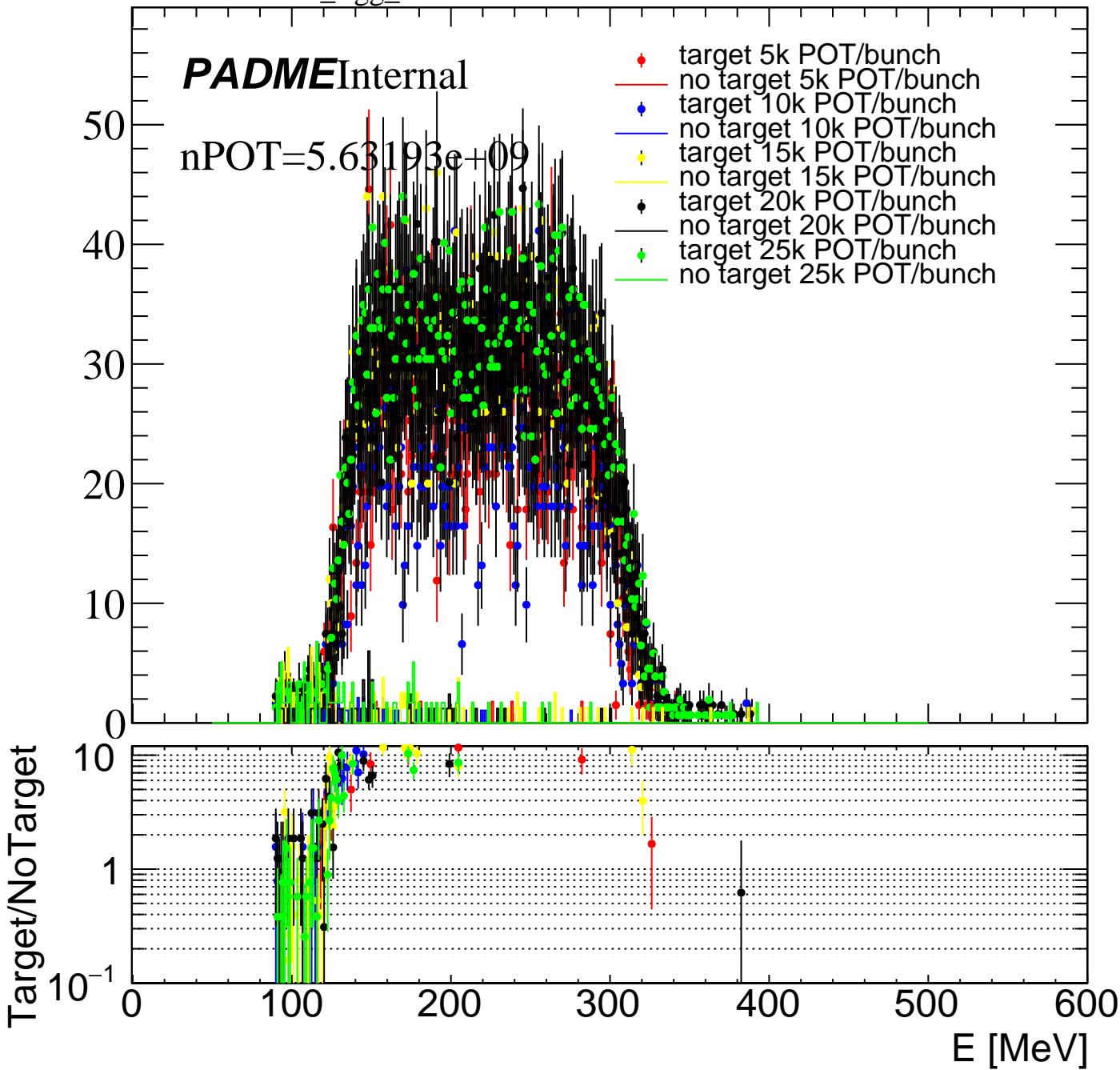
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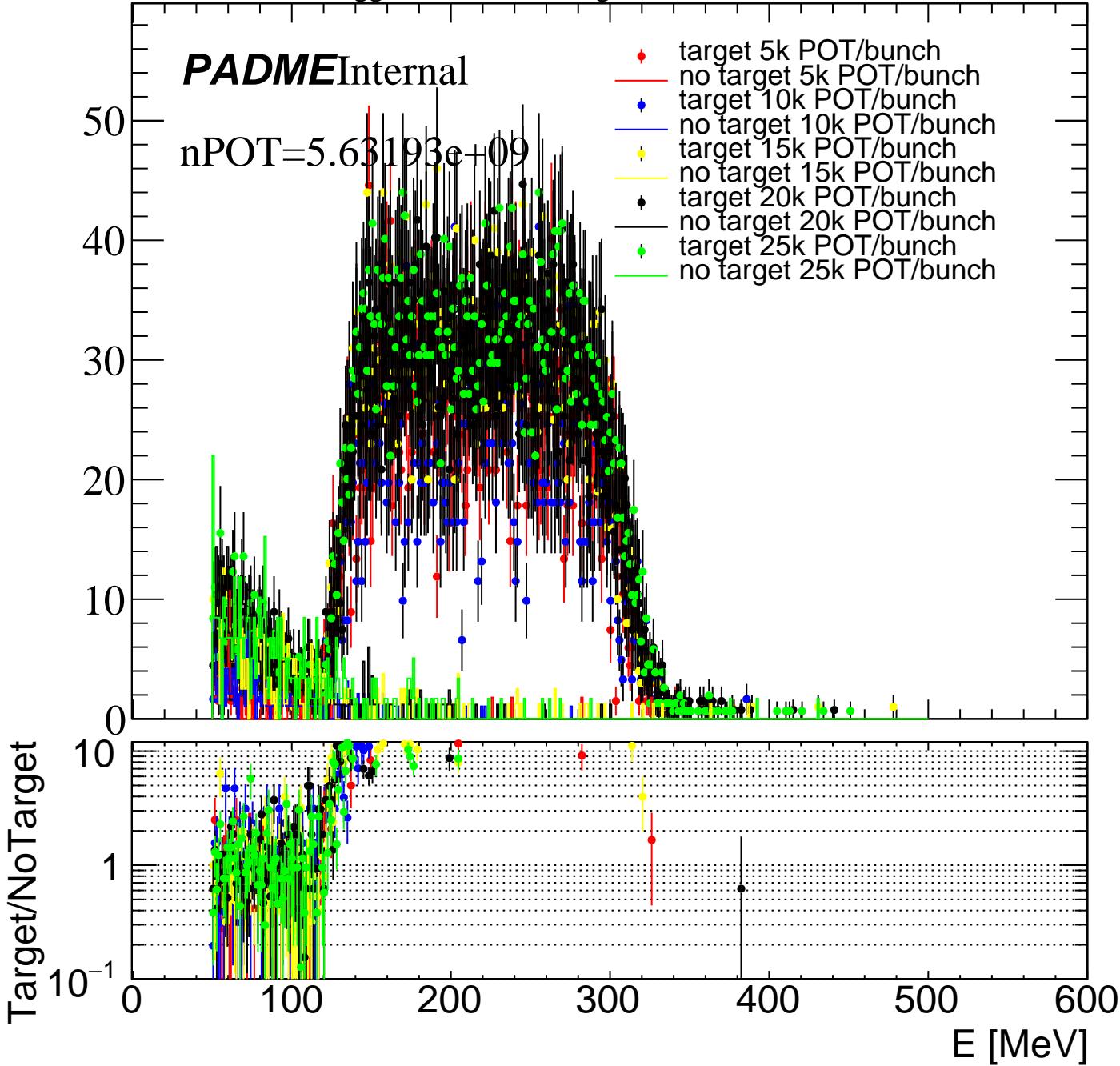
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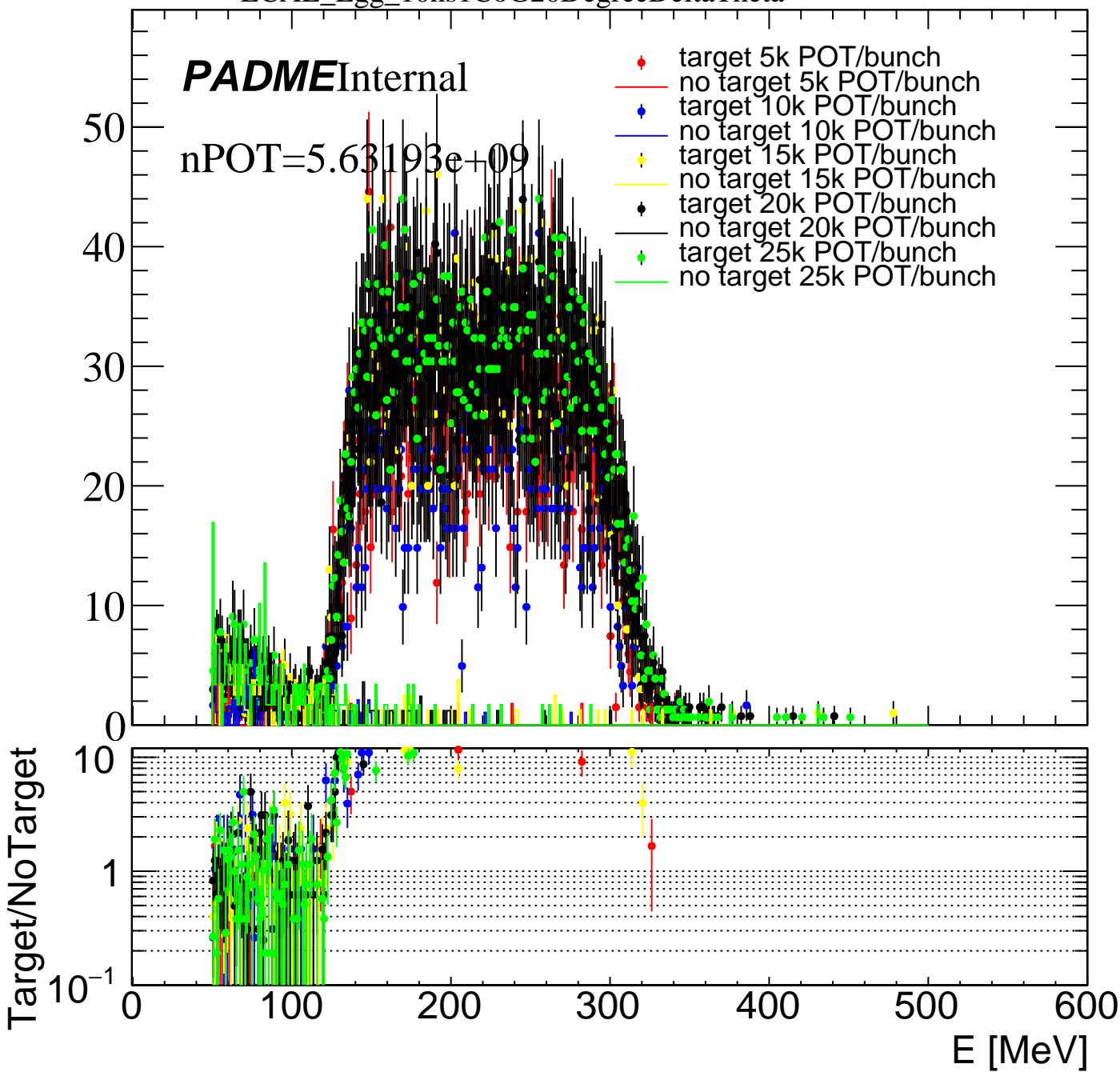
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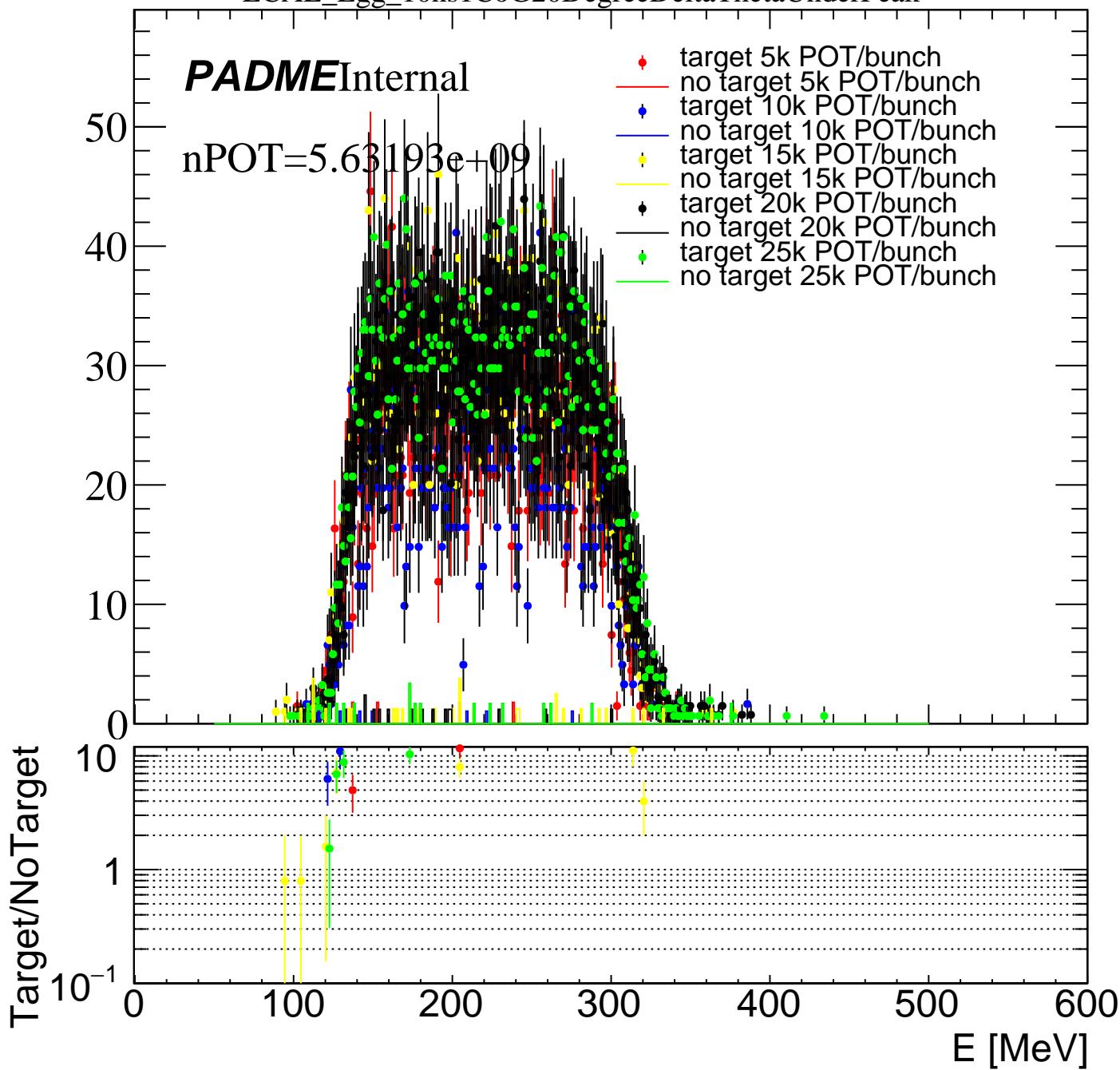
ECAL\_Egg\_10ns1CoG20Degree



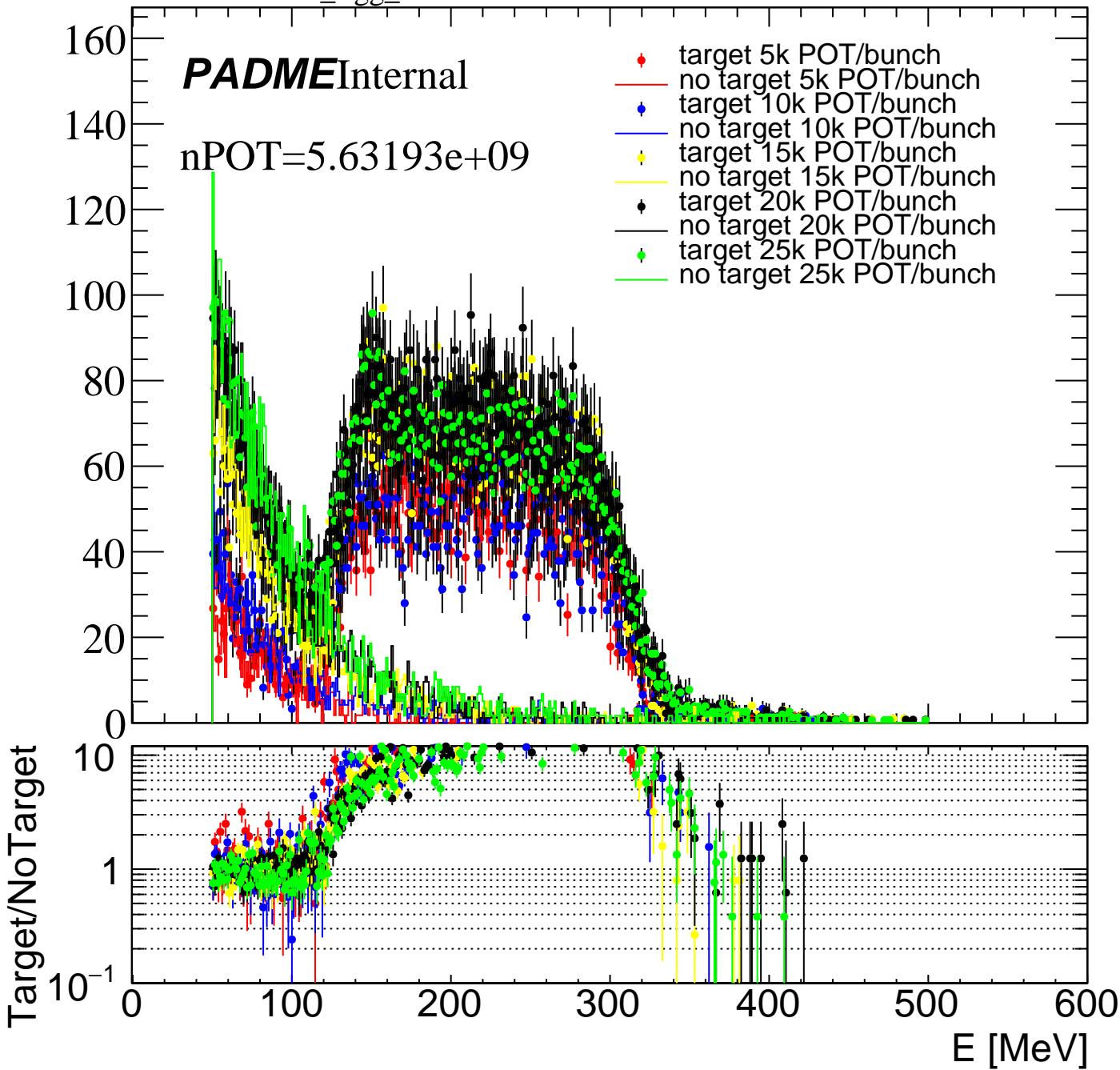
# ECAL\_Egg\_10ns1CoG20DegreeDeltaTheta



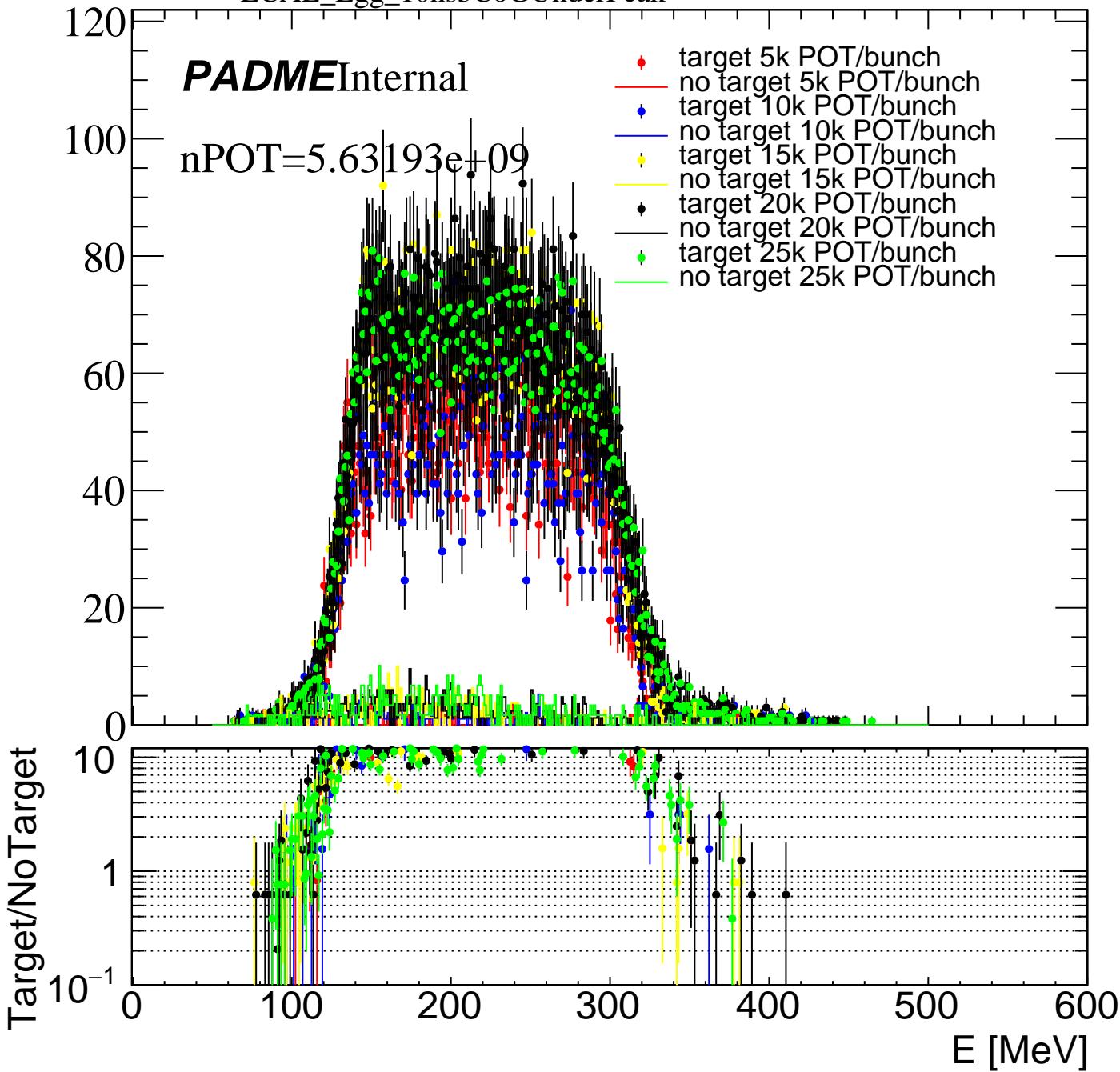
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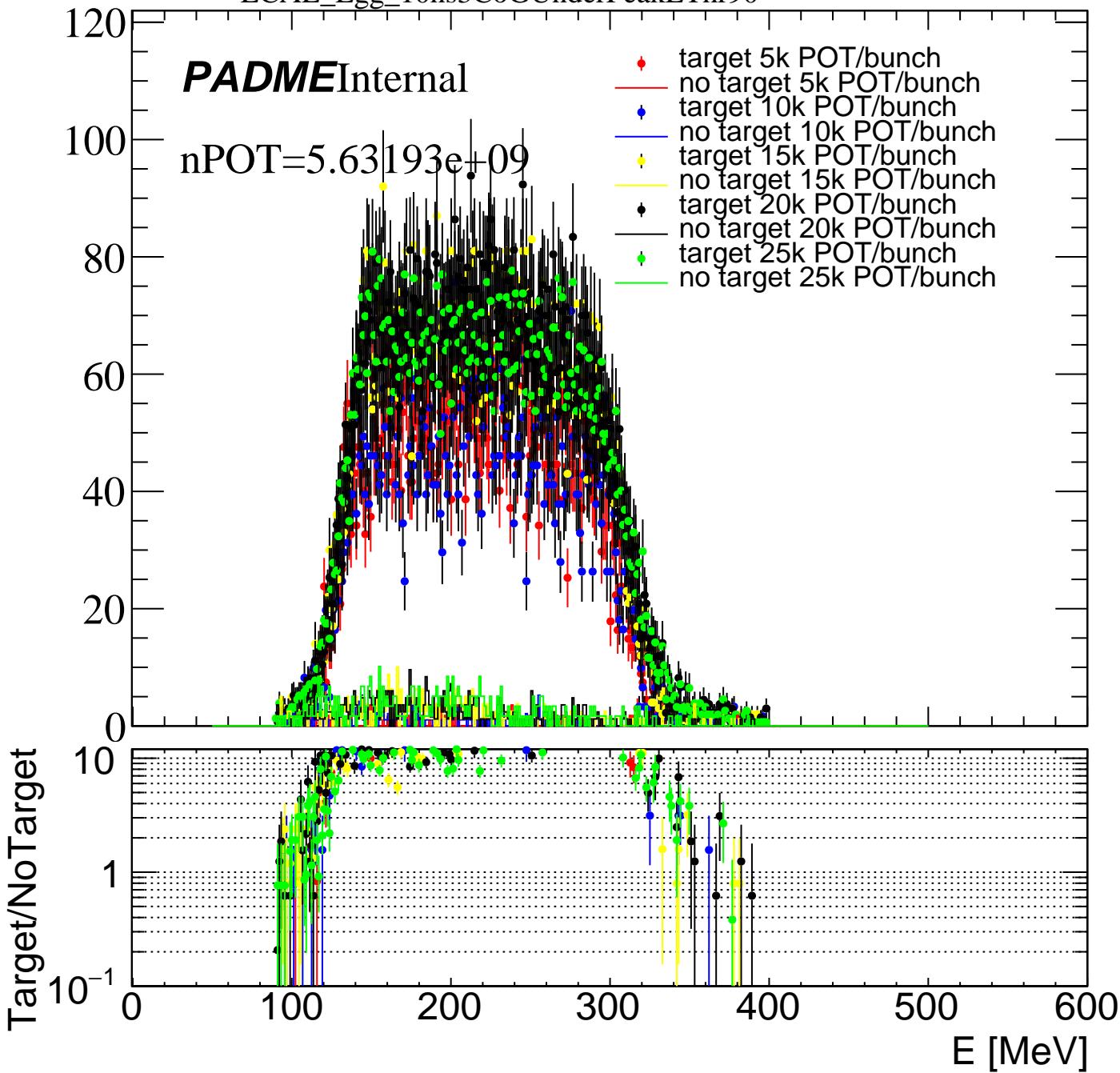
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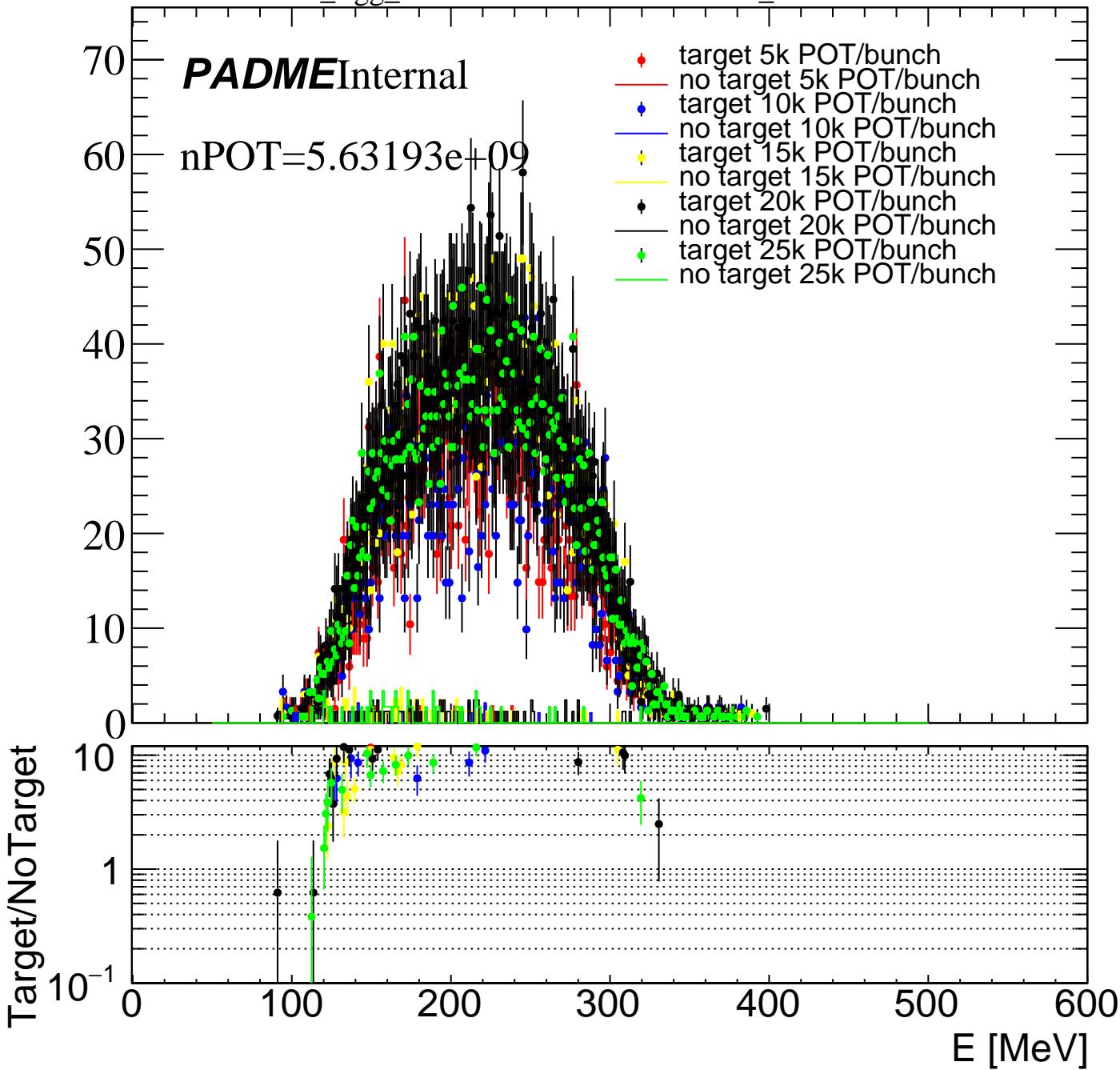
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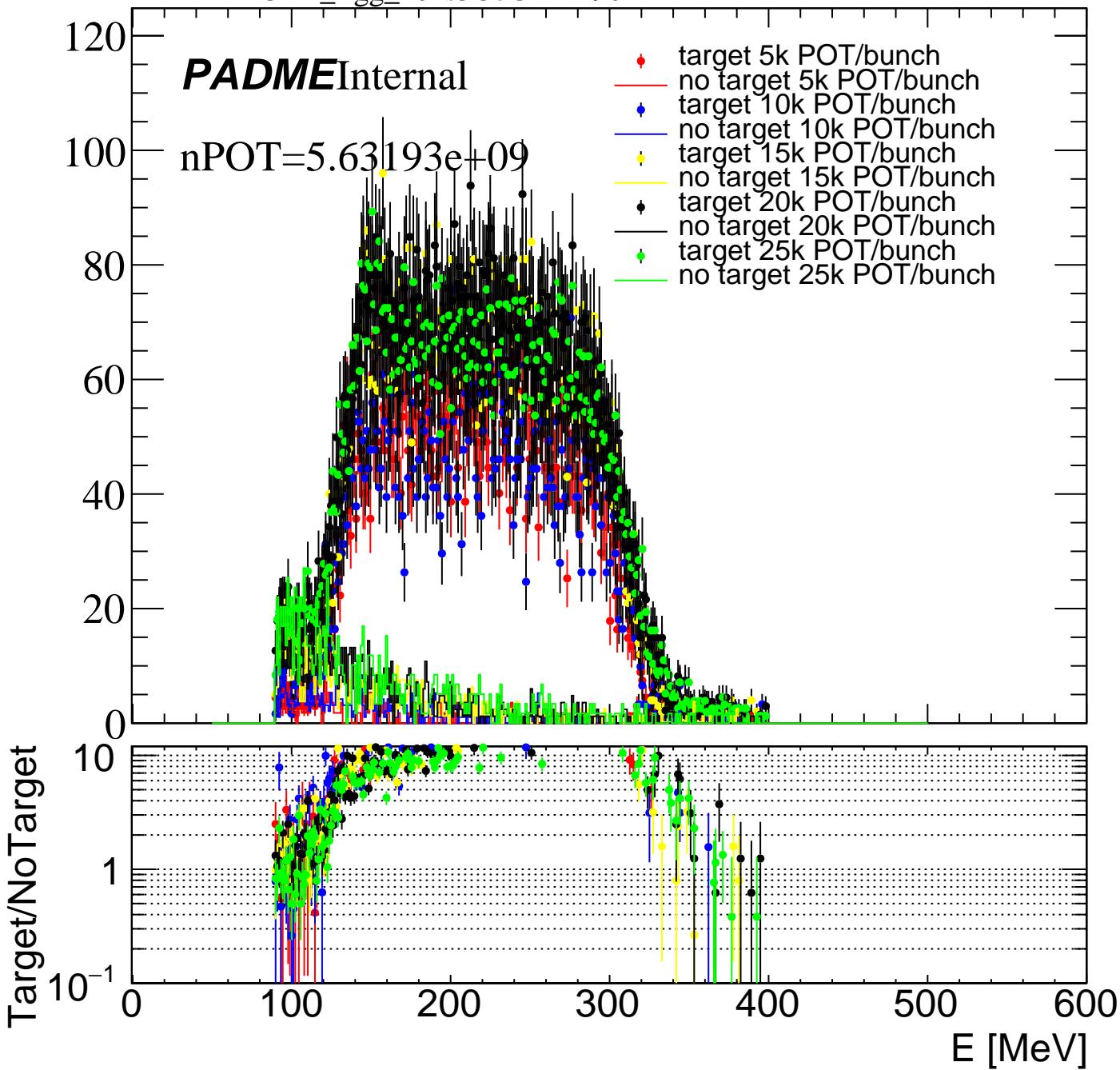
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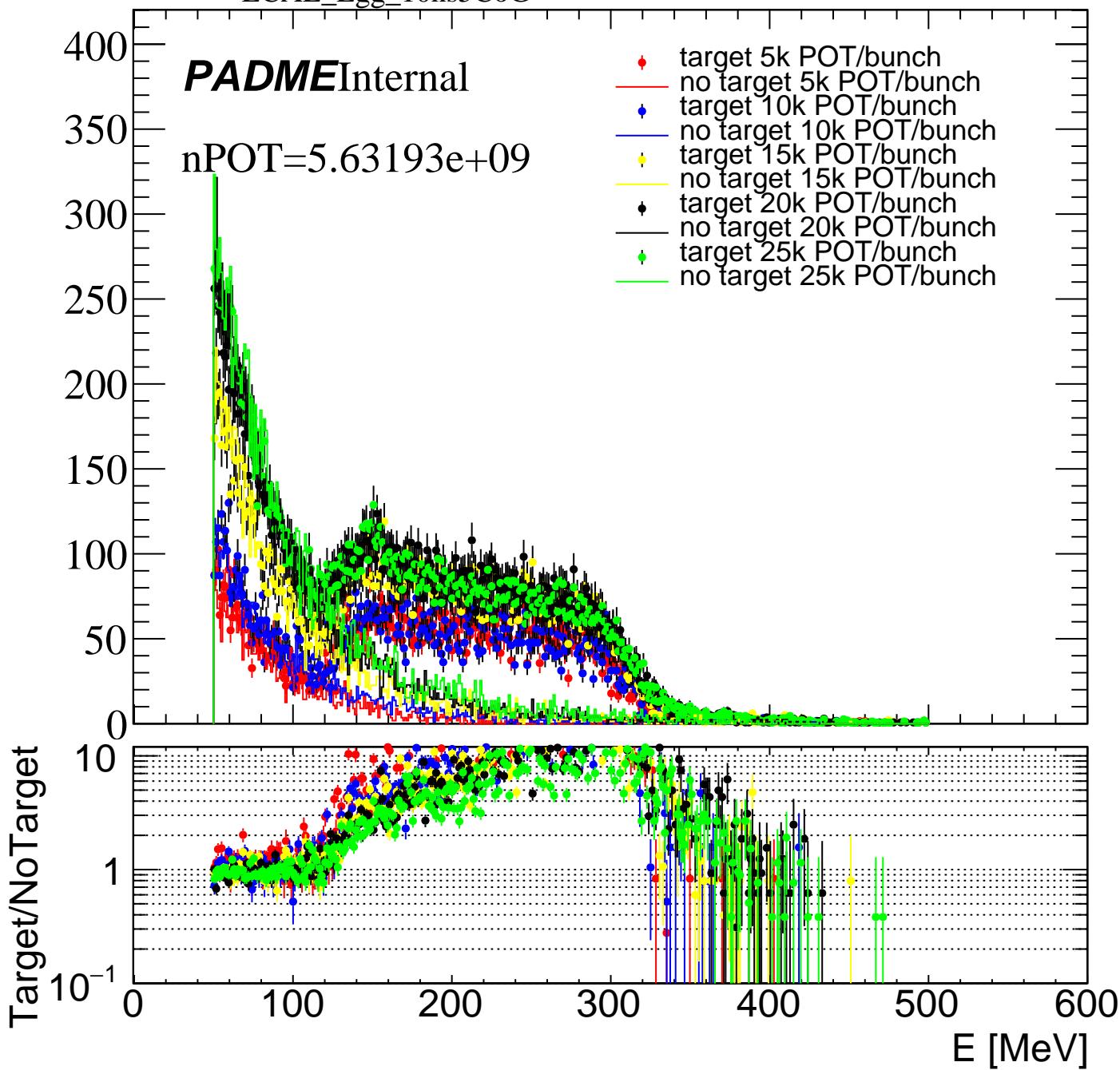
ECAL\_Egg\_10ns3CoGUnderPeakEThr90\_FRY



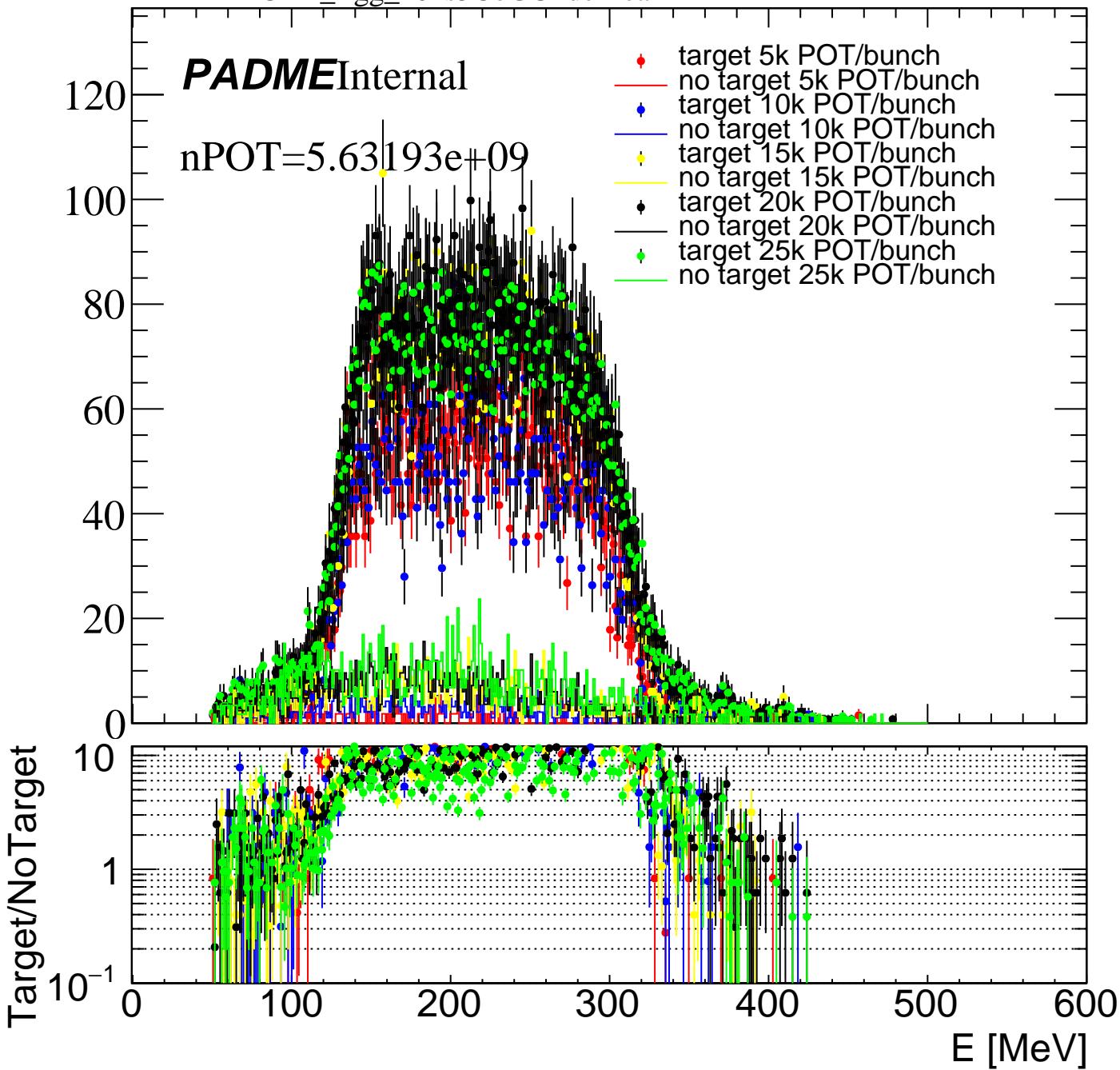
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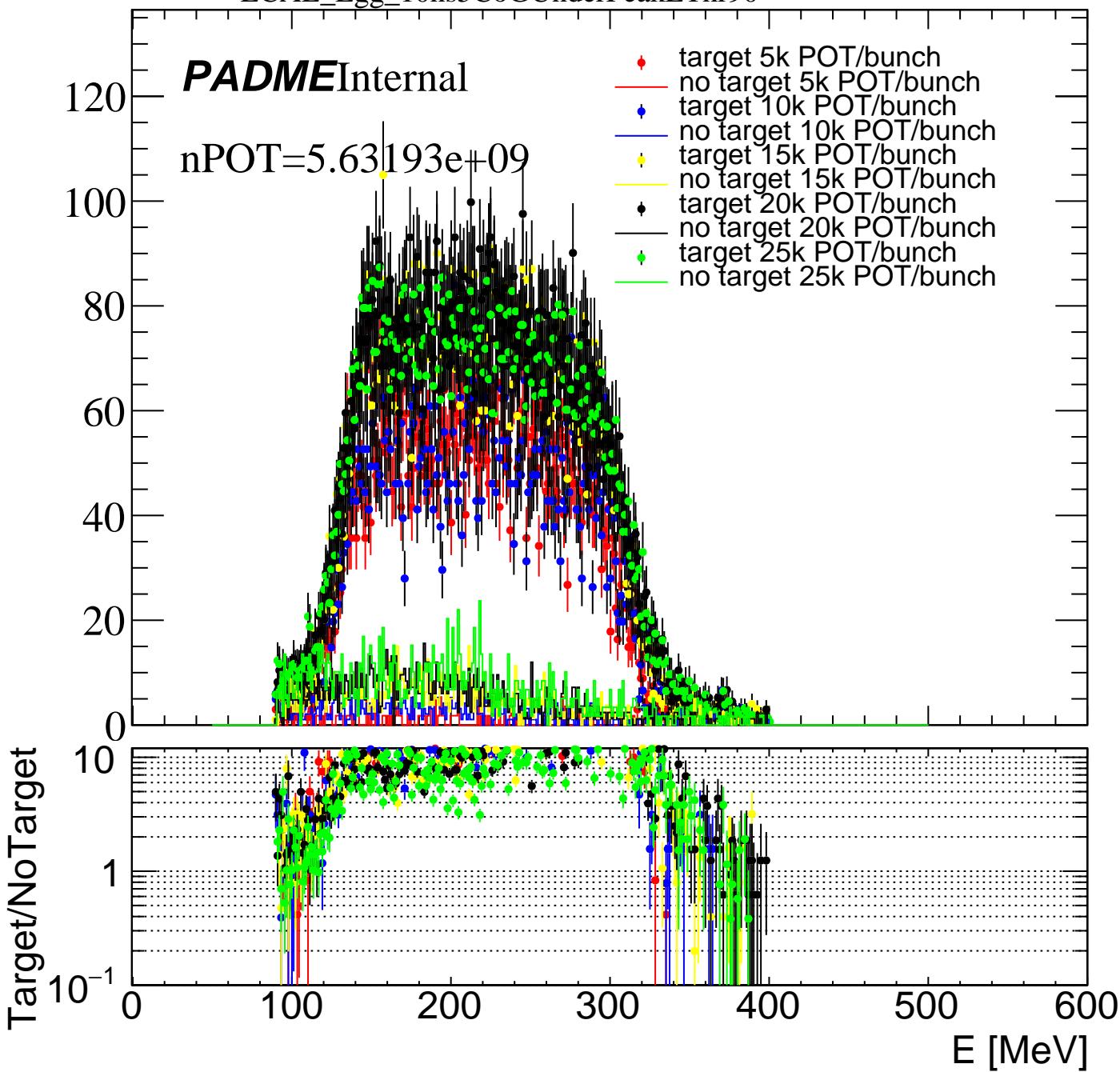
ECAL\_Egg\_10ns5CoG



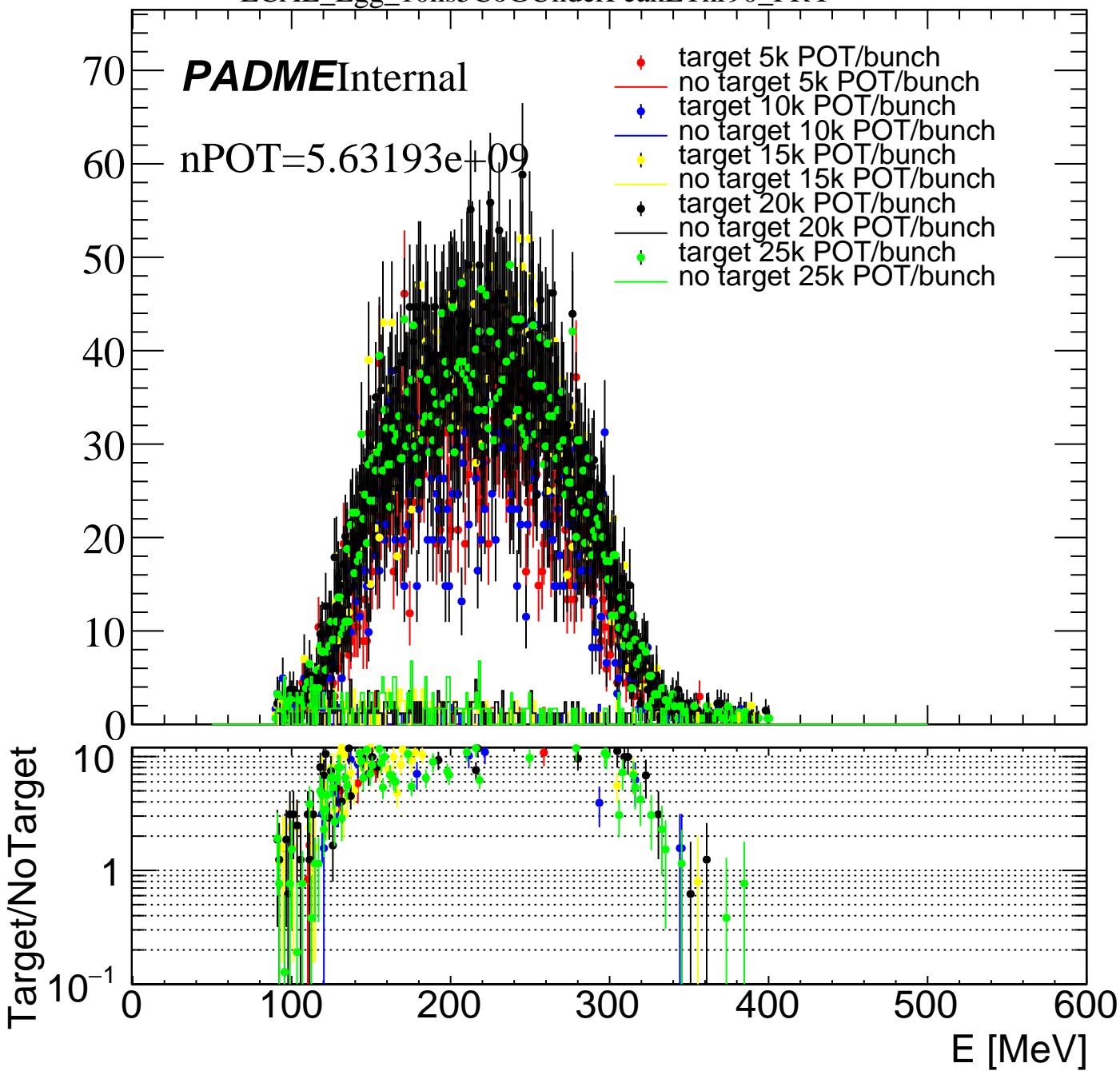
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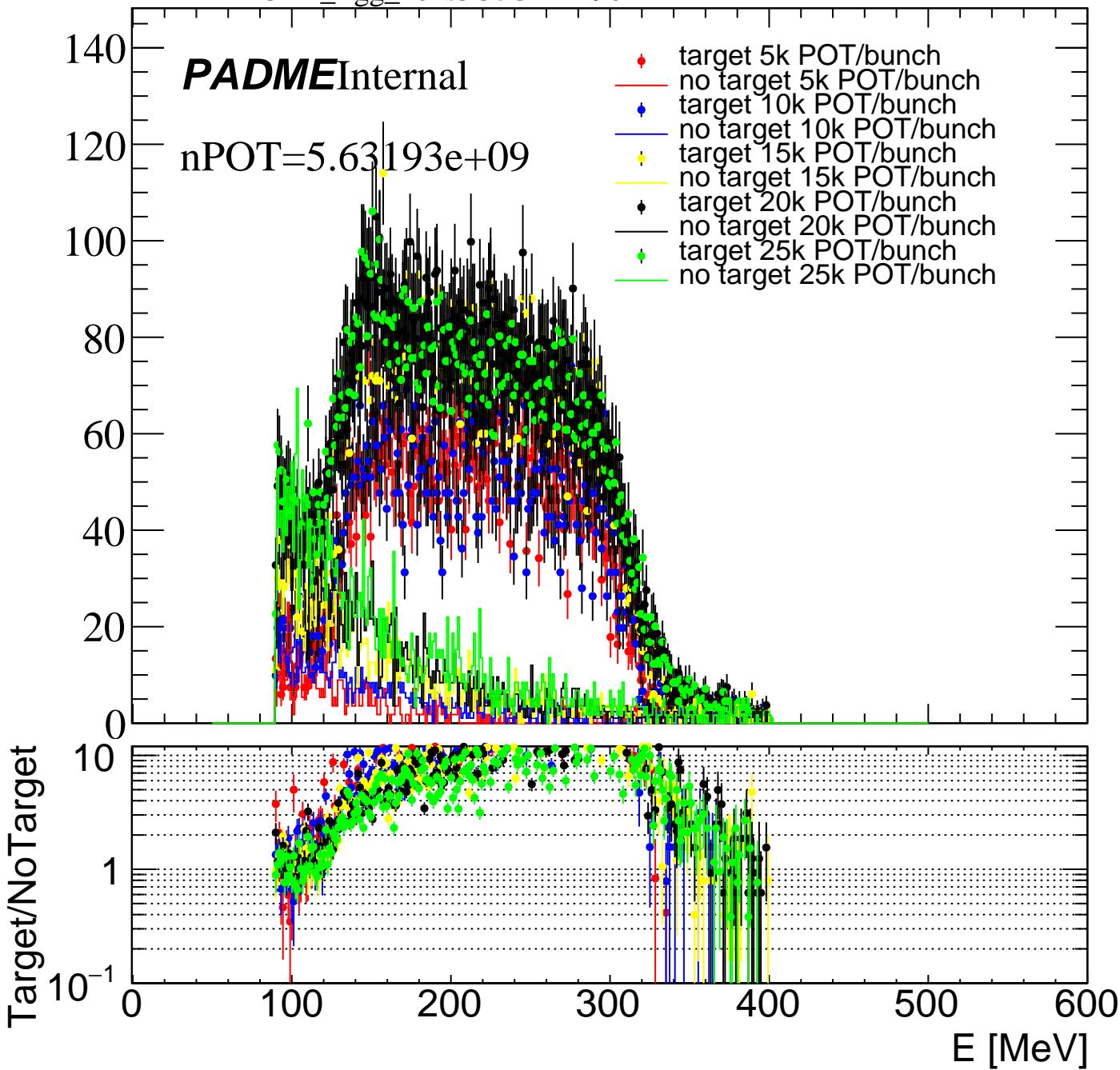
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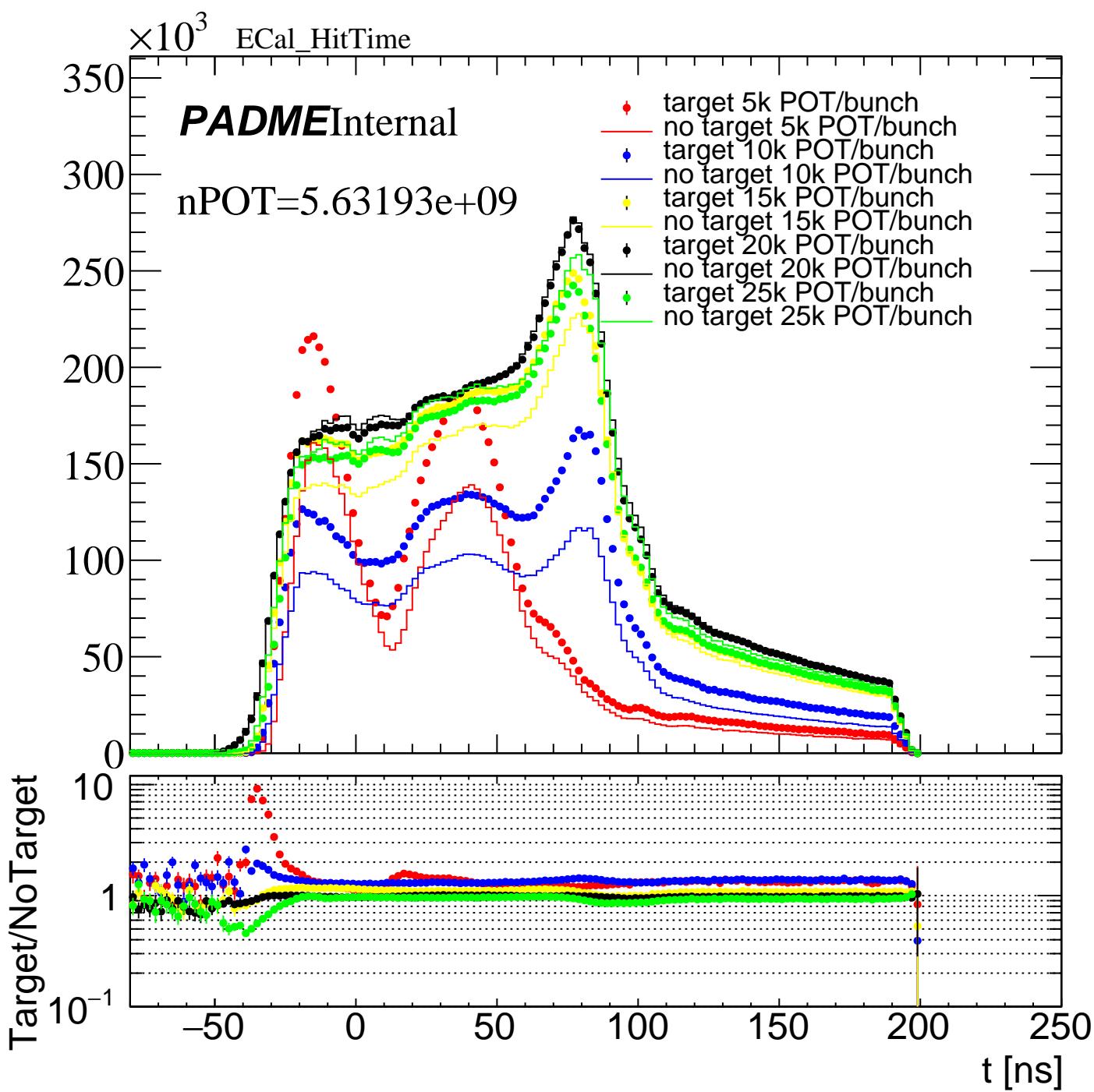


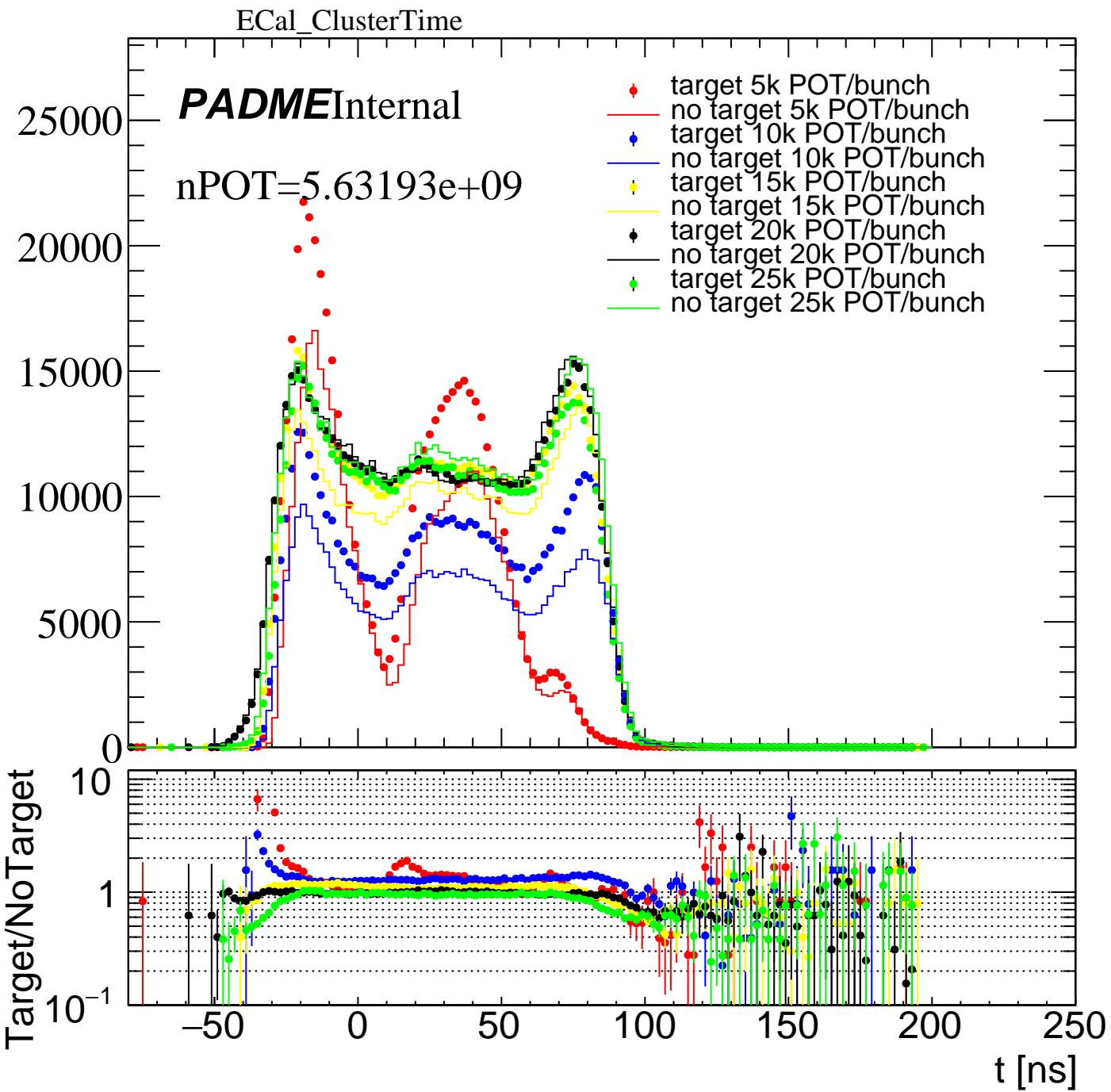
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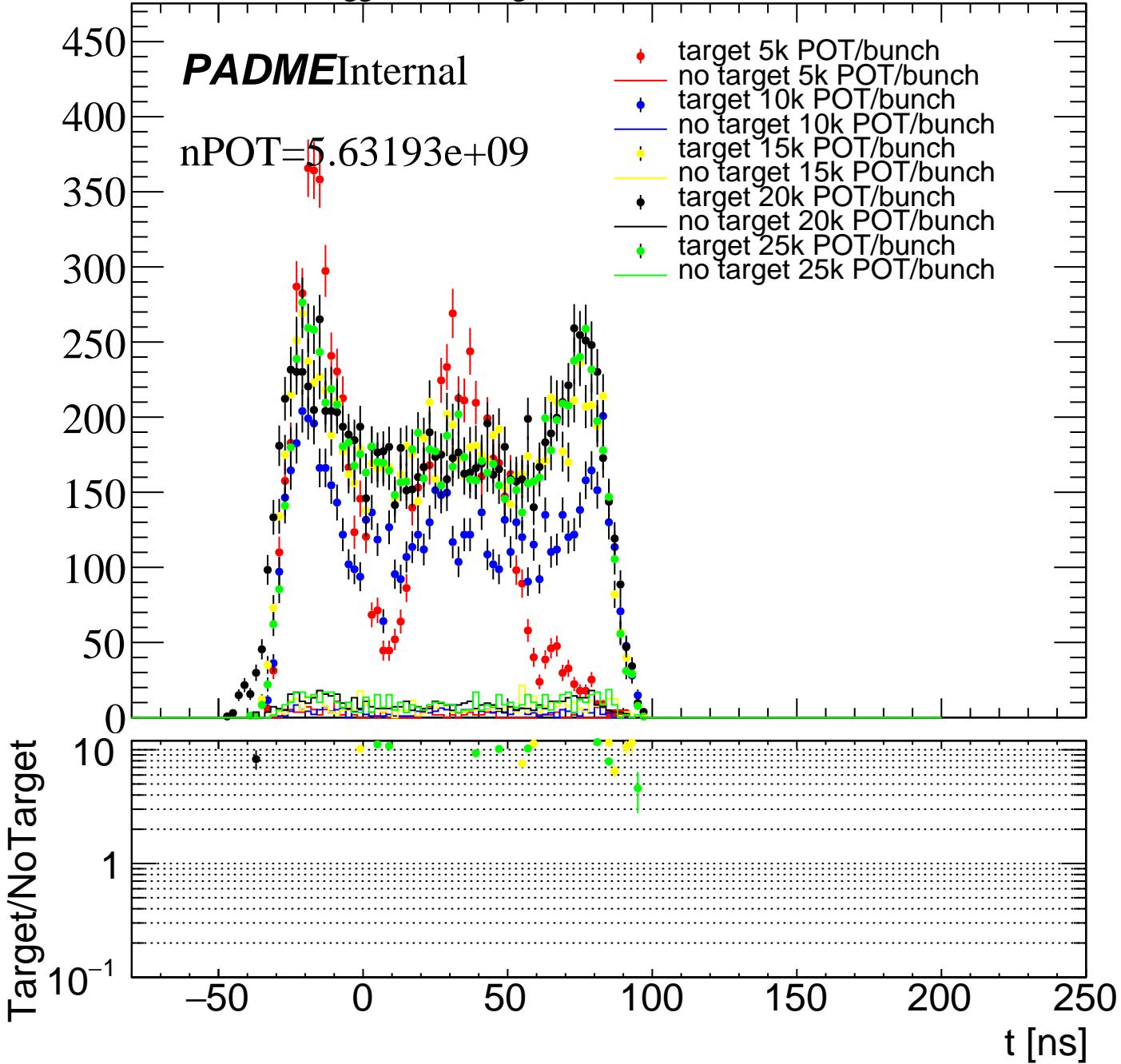
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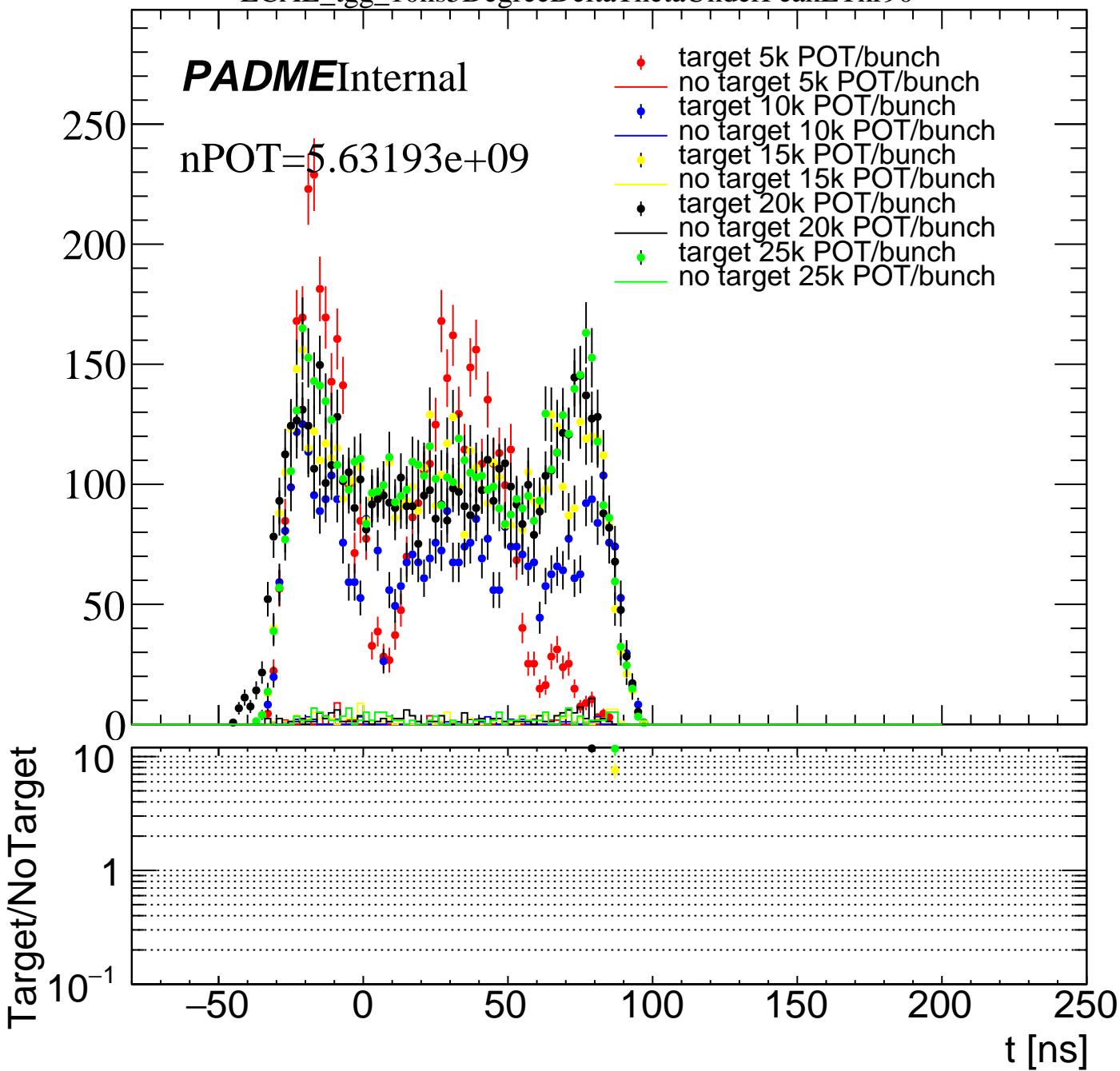




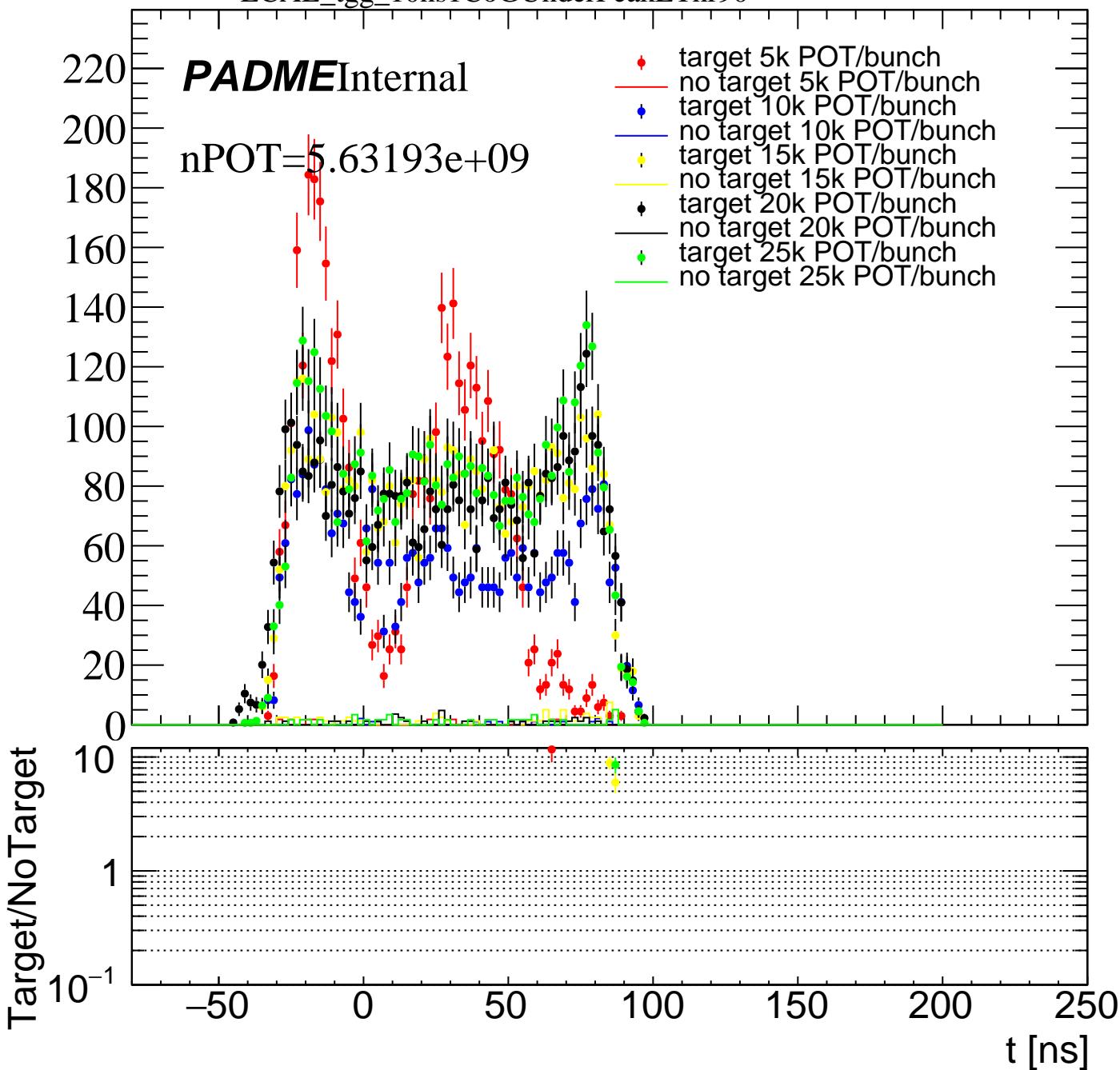
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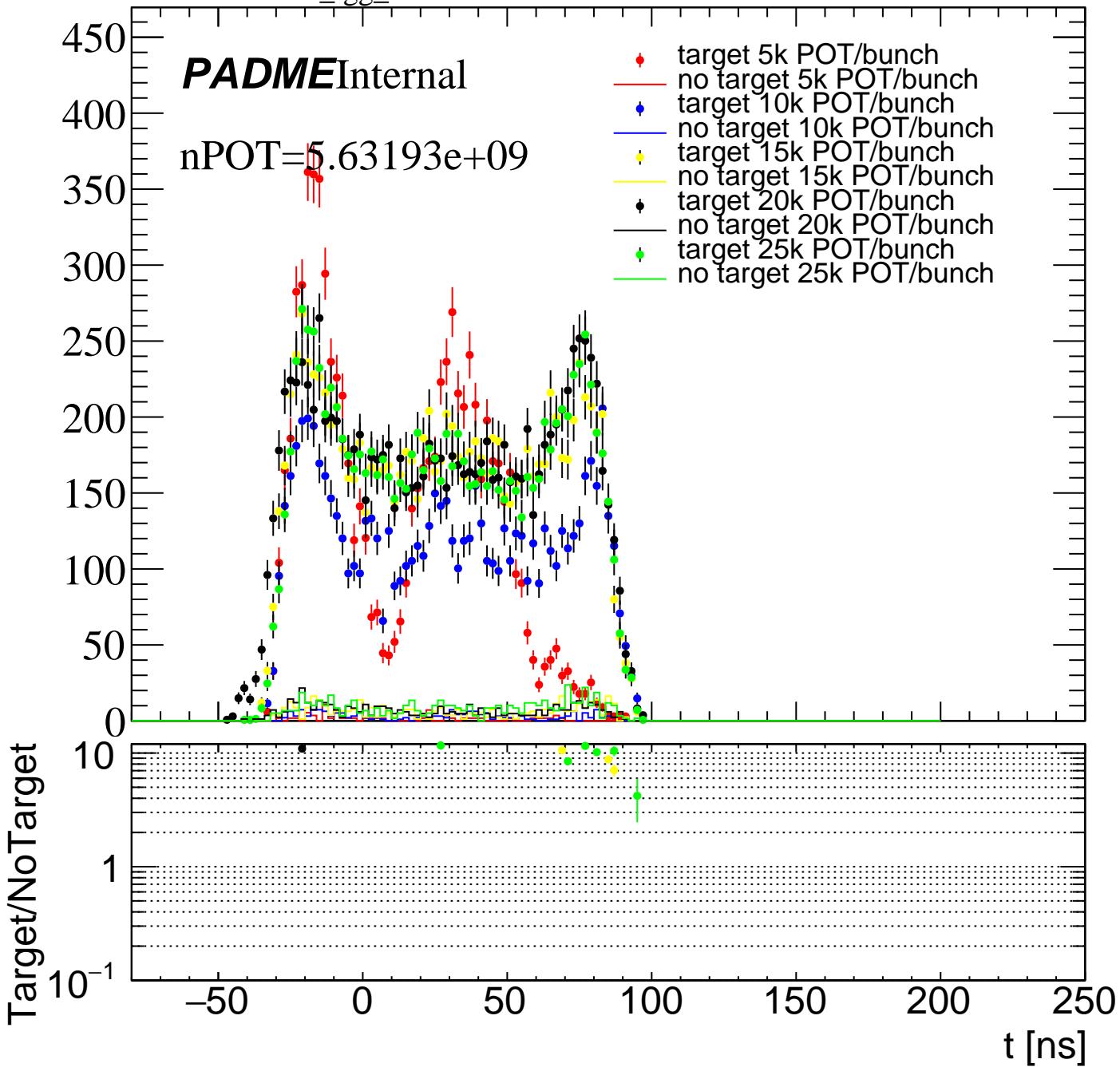
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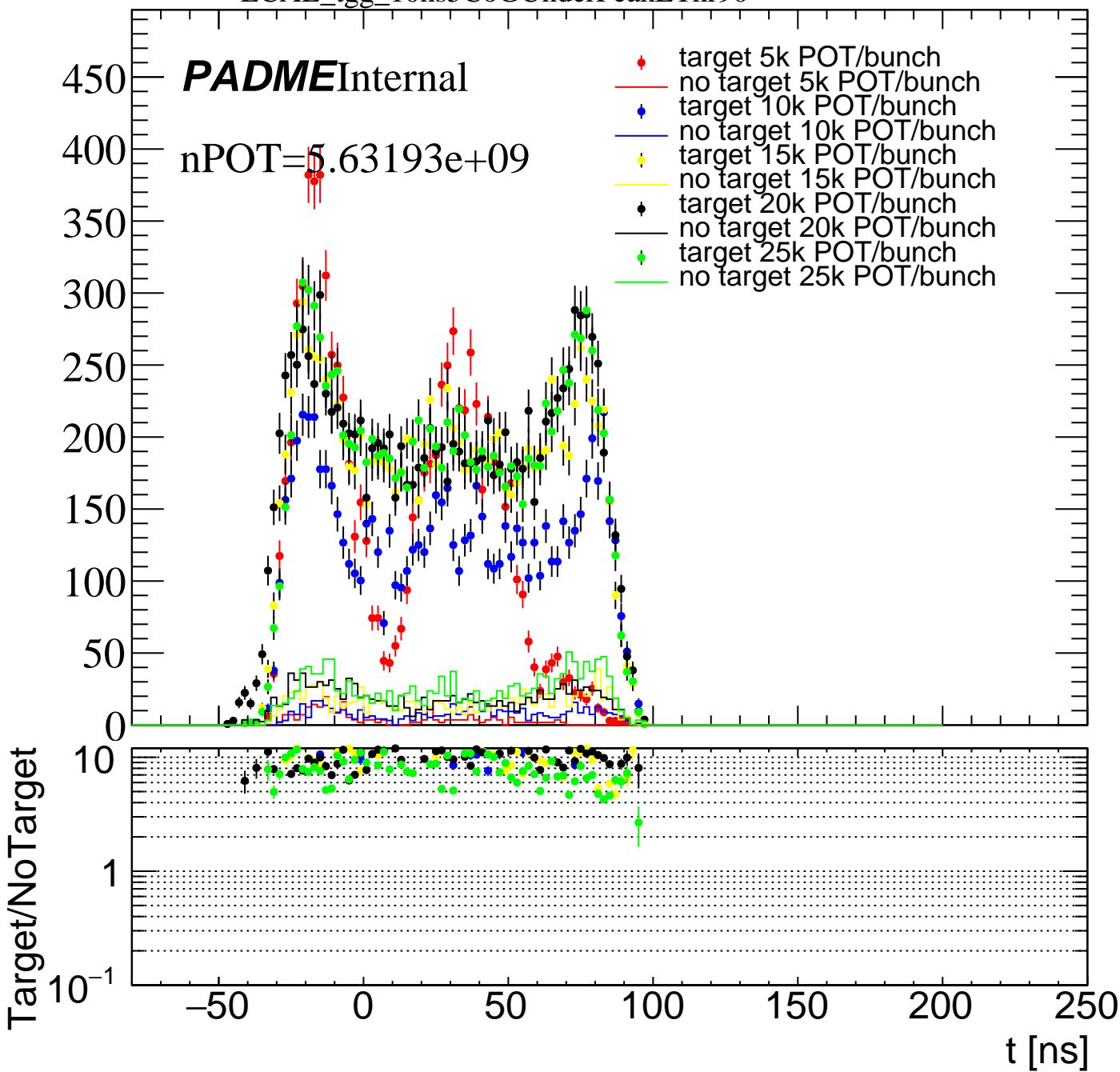
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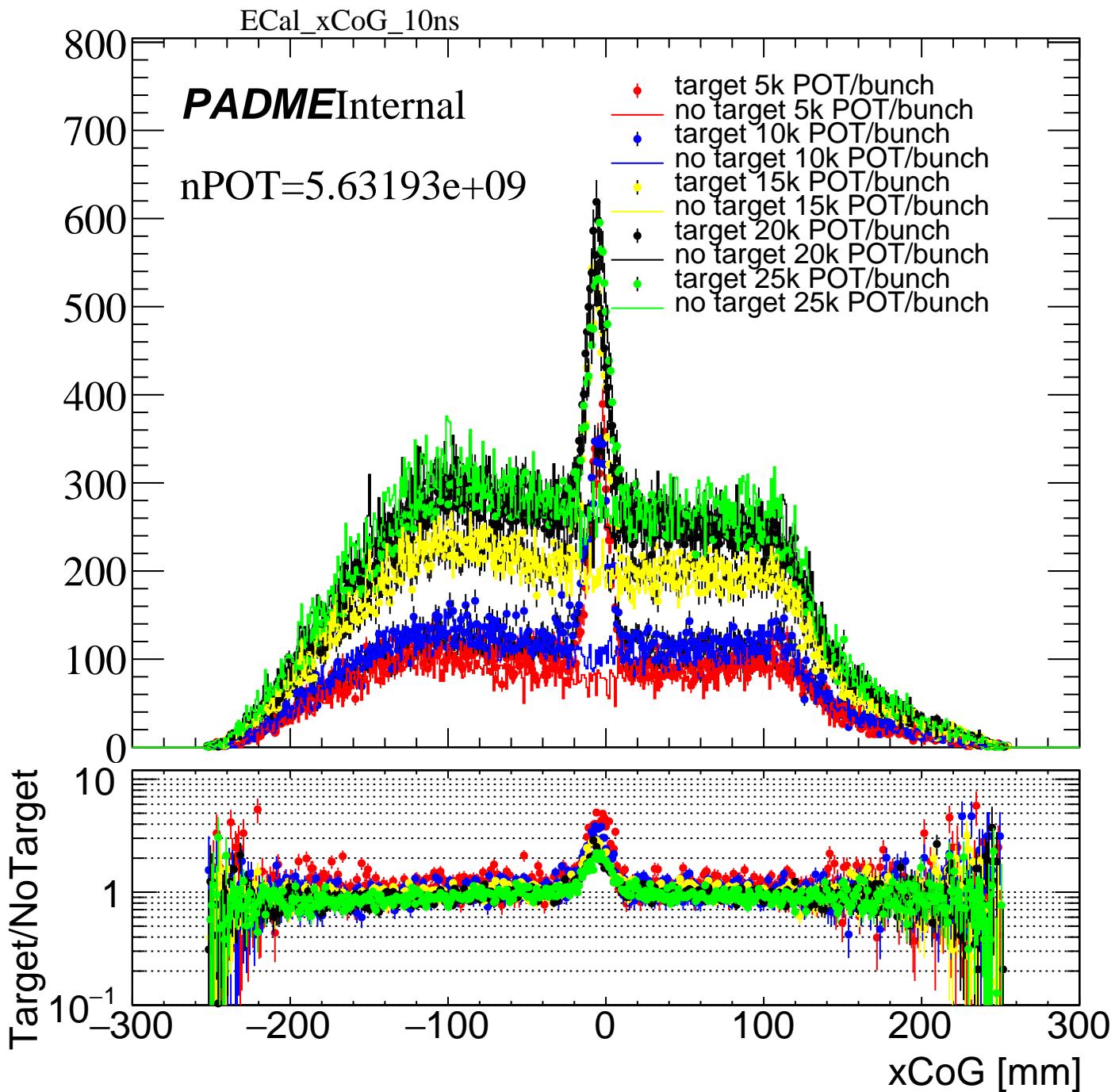


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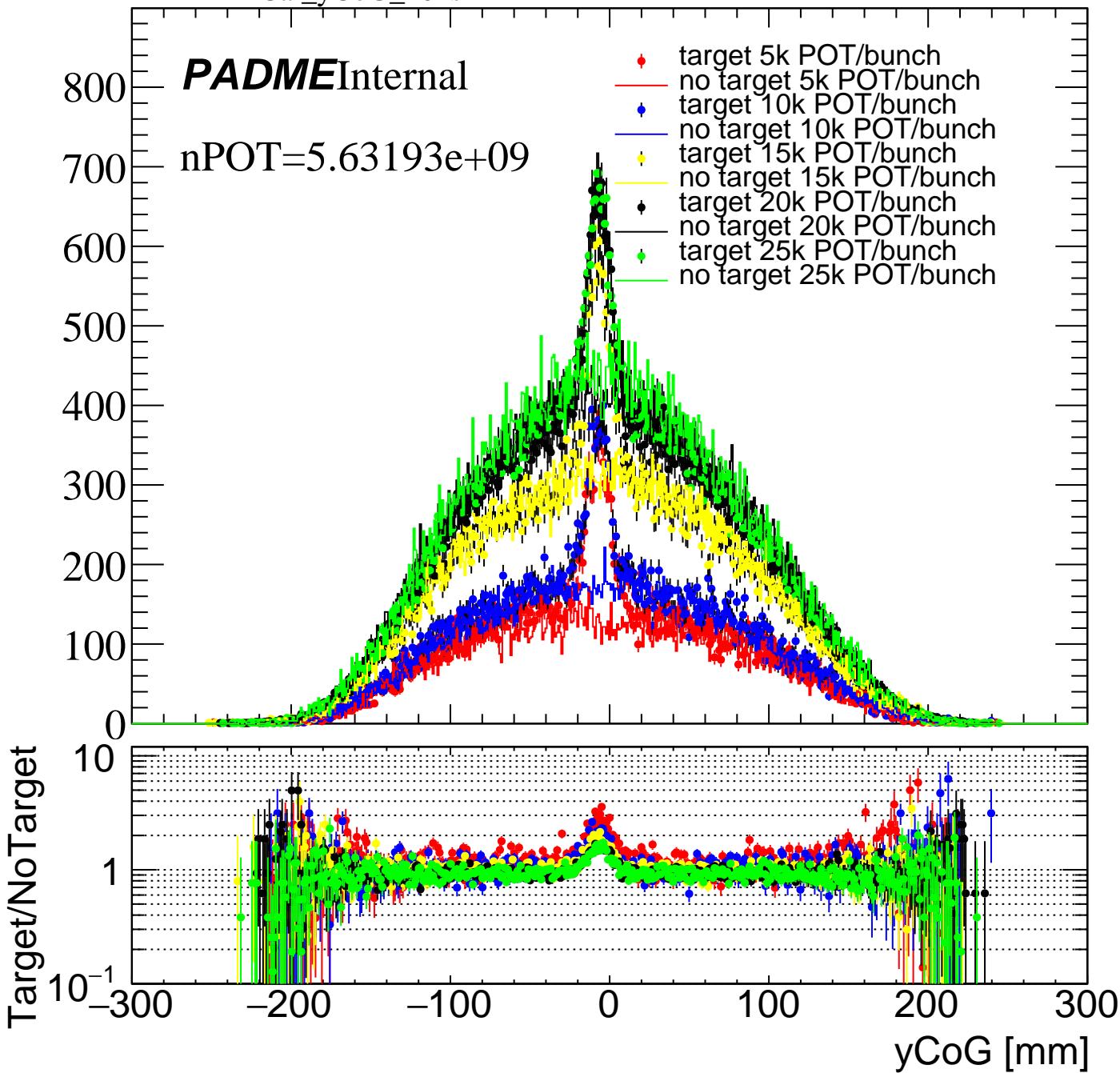


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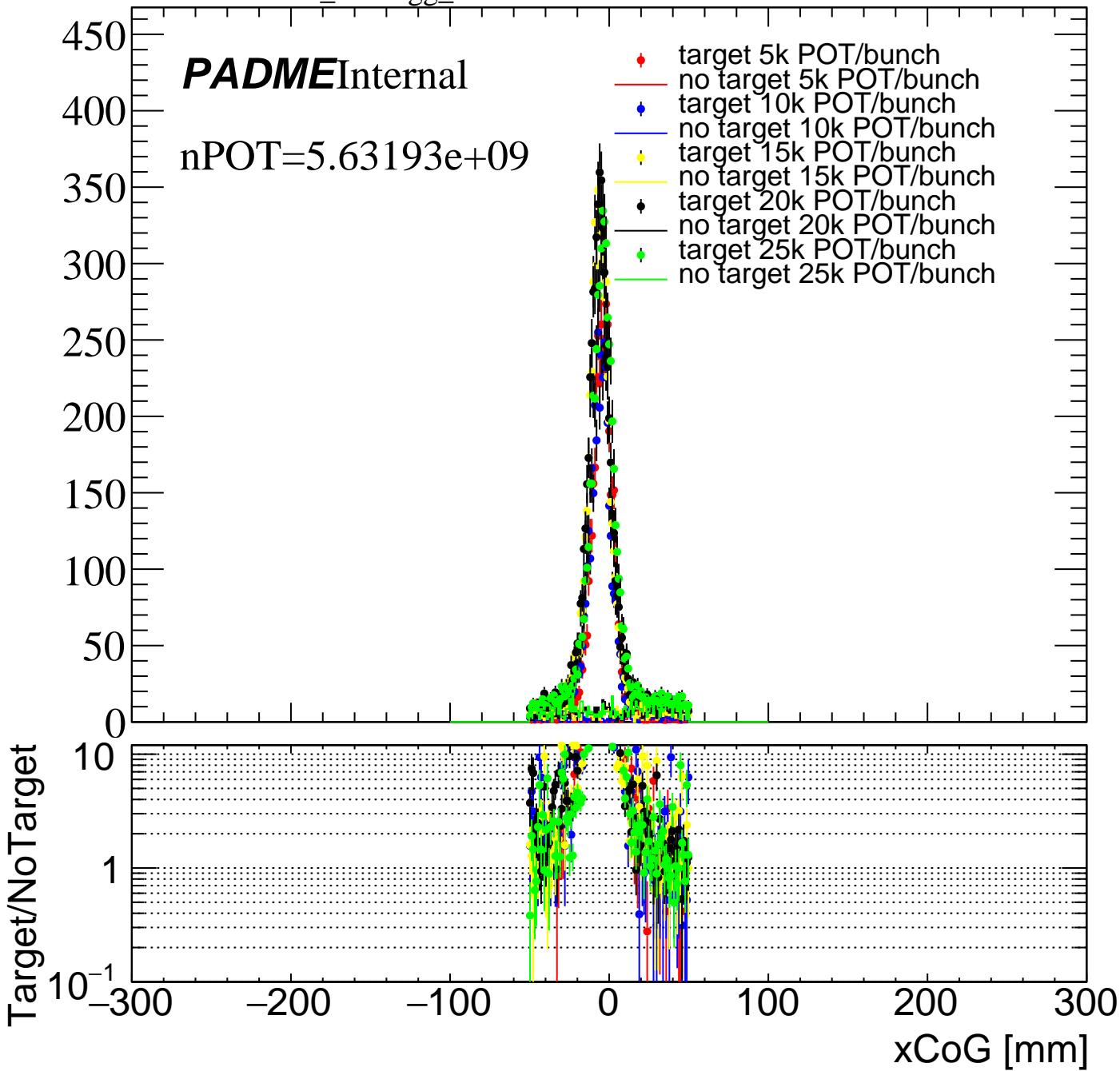


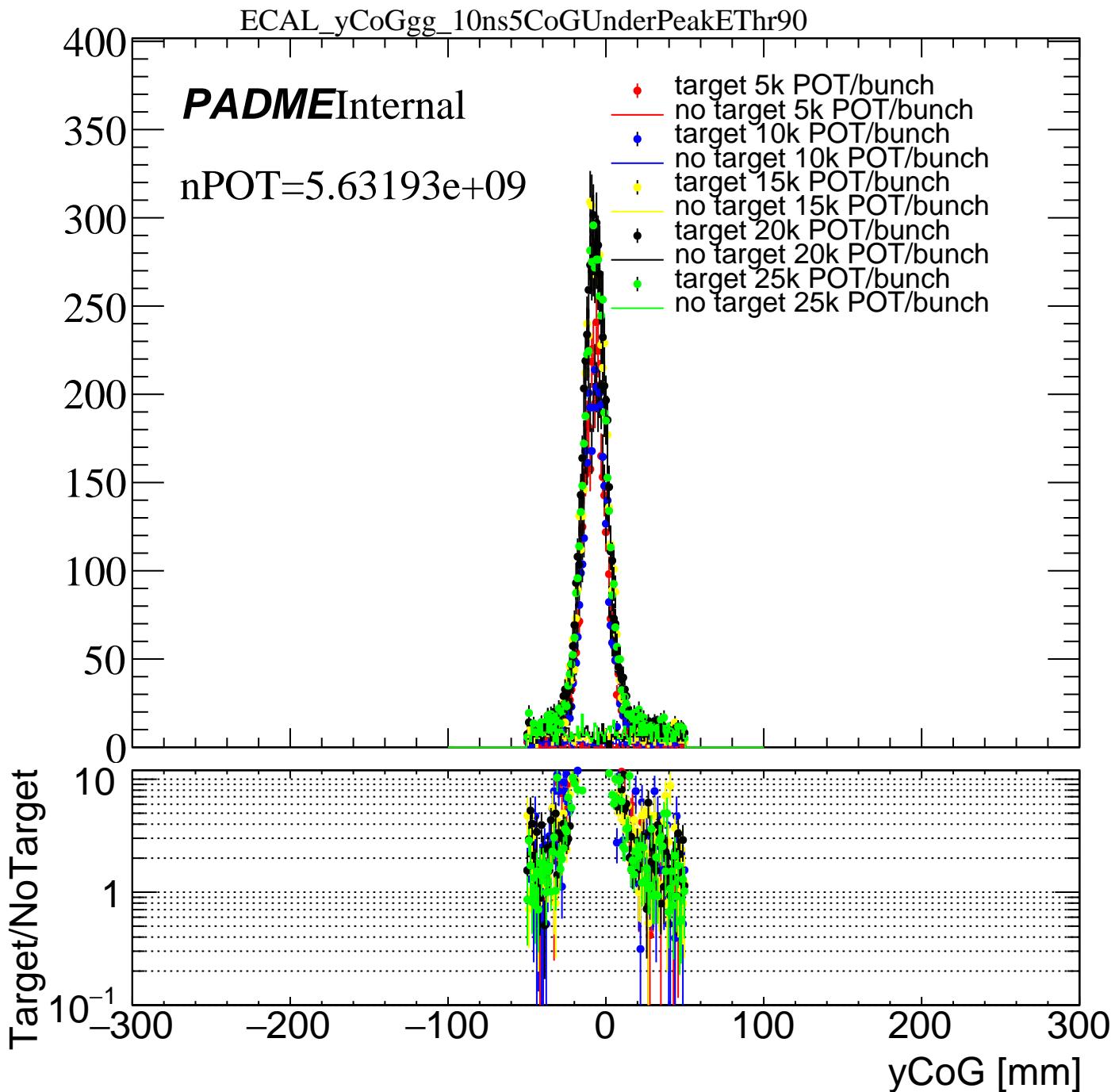


ECal\_yCoG\_10ns

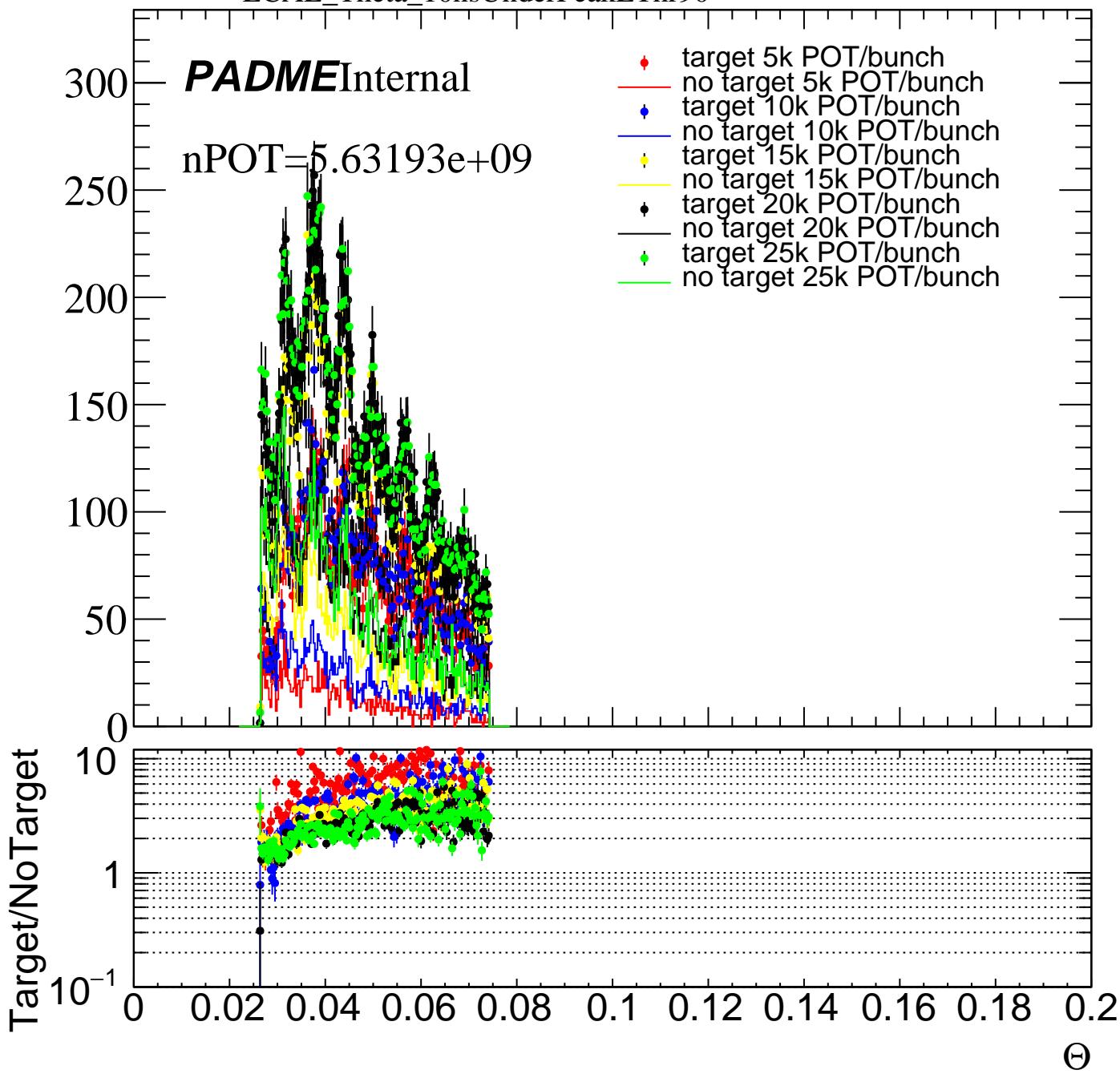


ECAL\_xCoGgg\_10ns5CoGUnderPeakEThr90

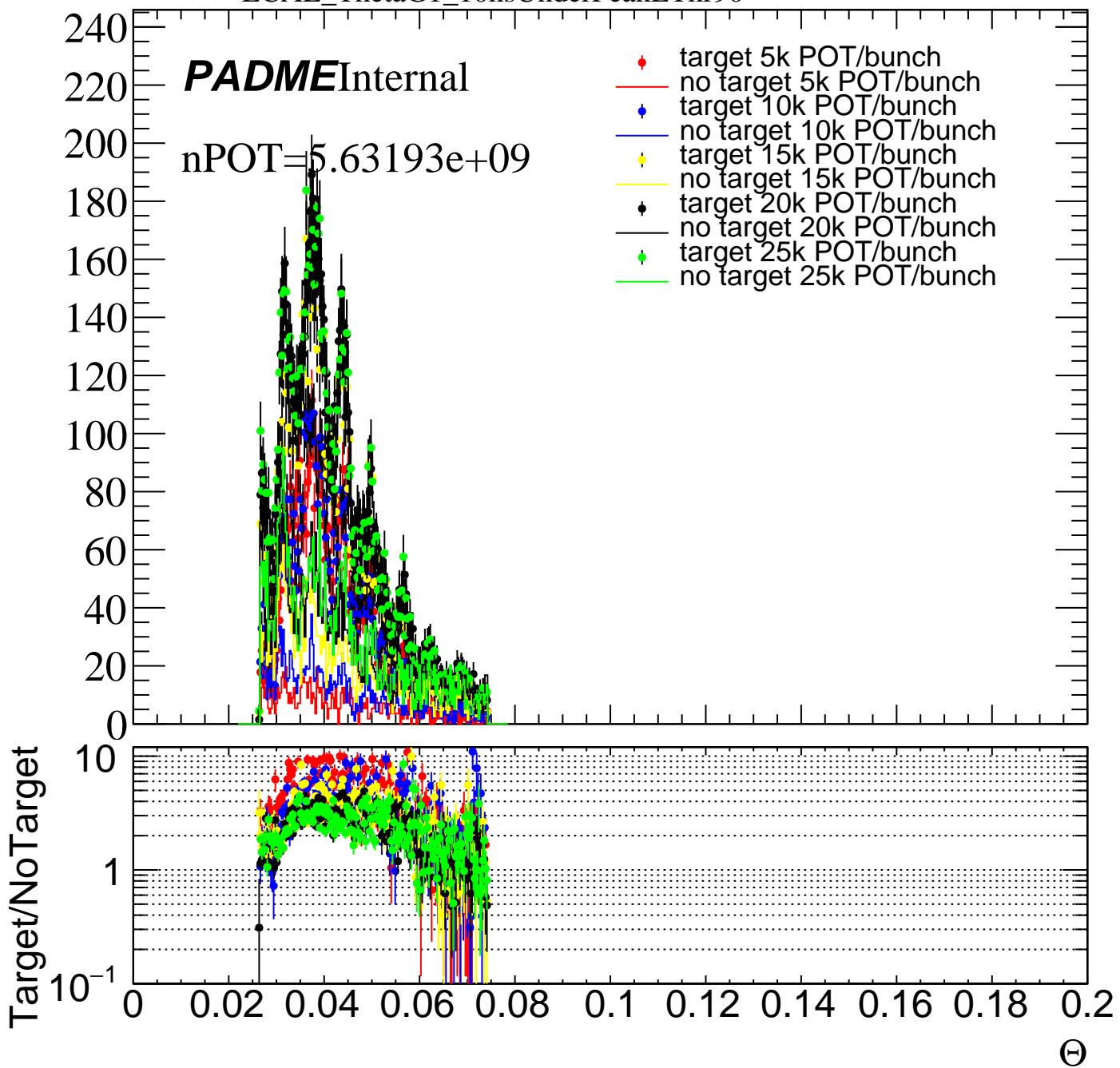




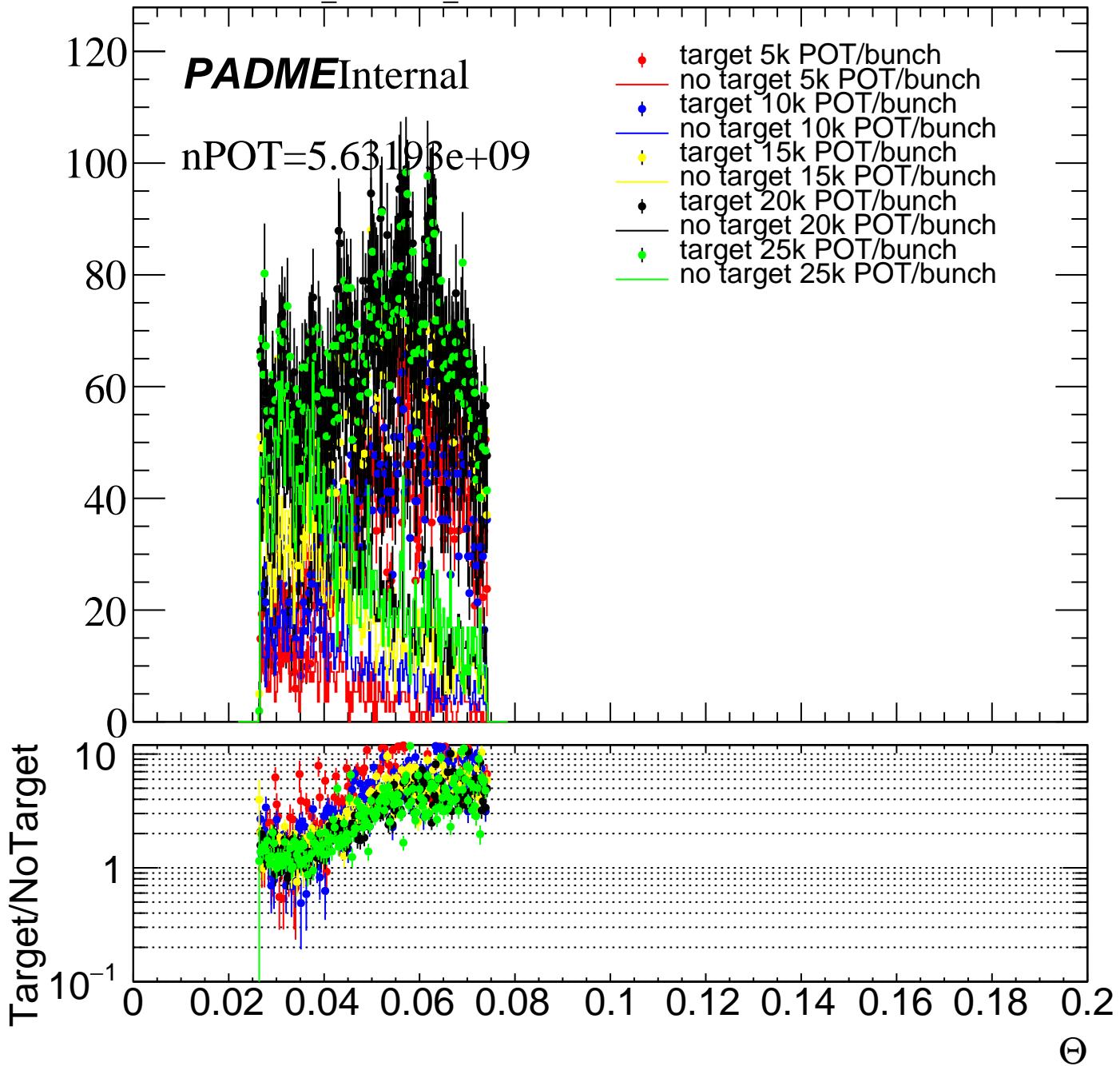
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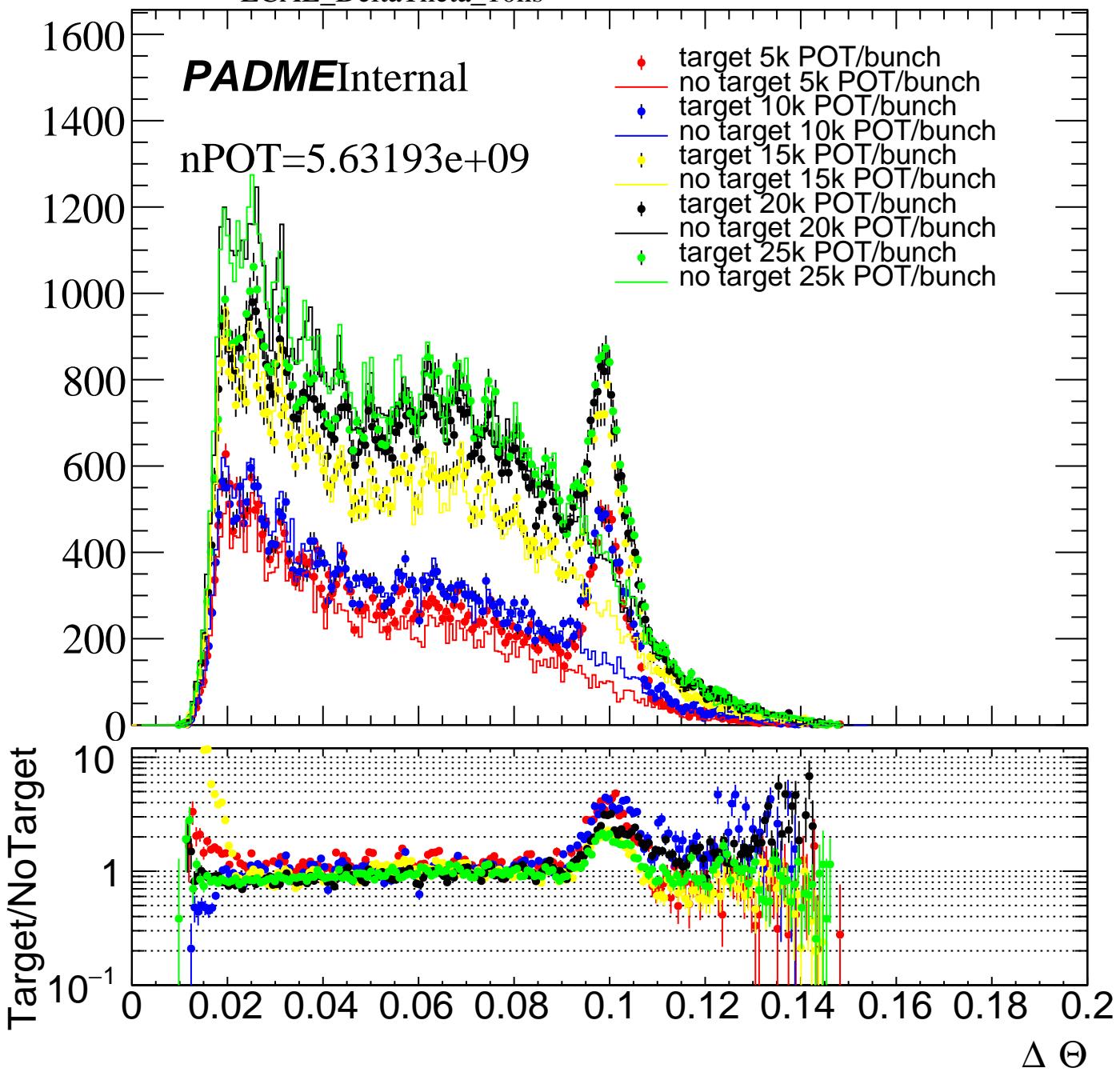
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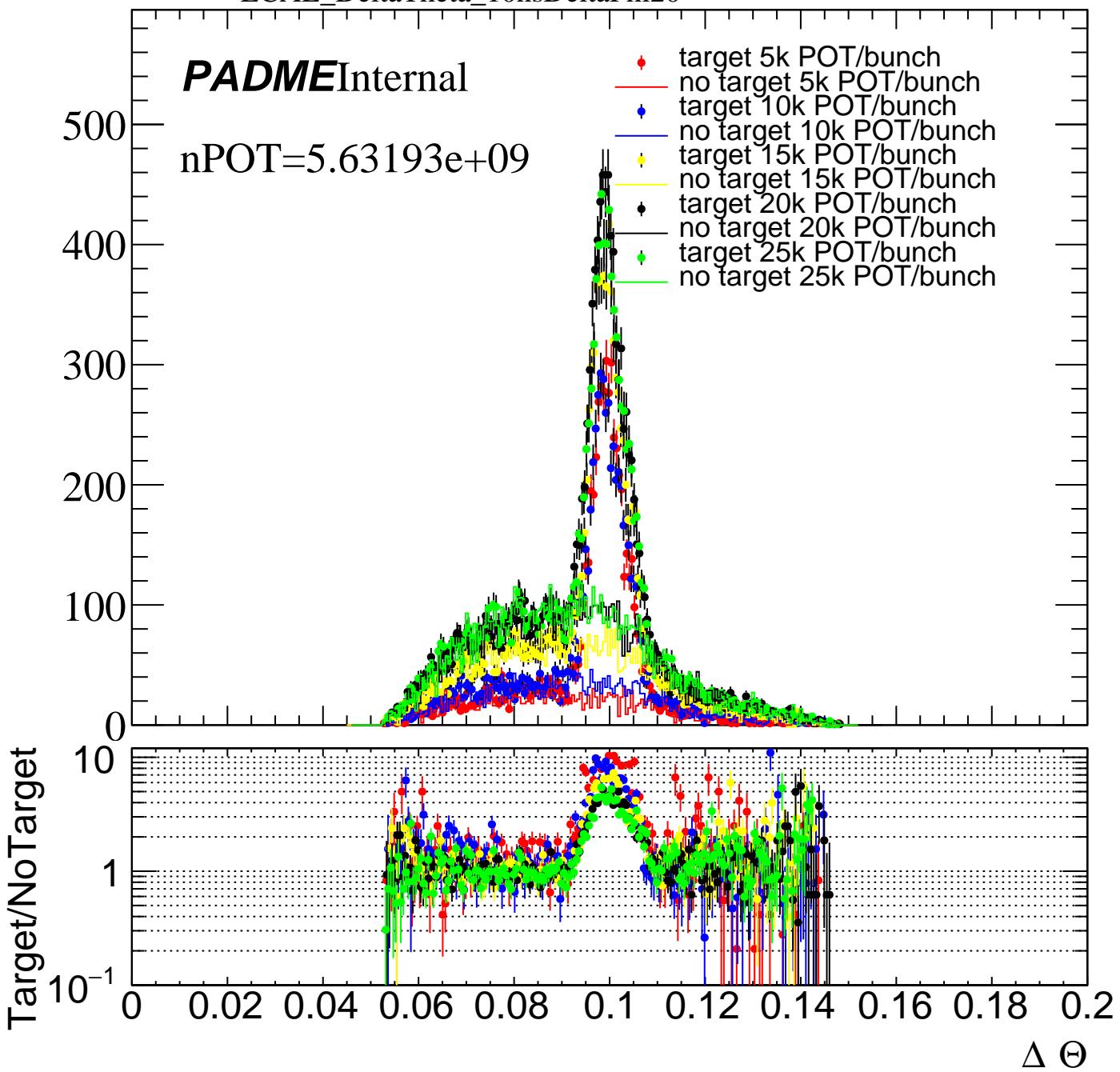
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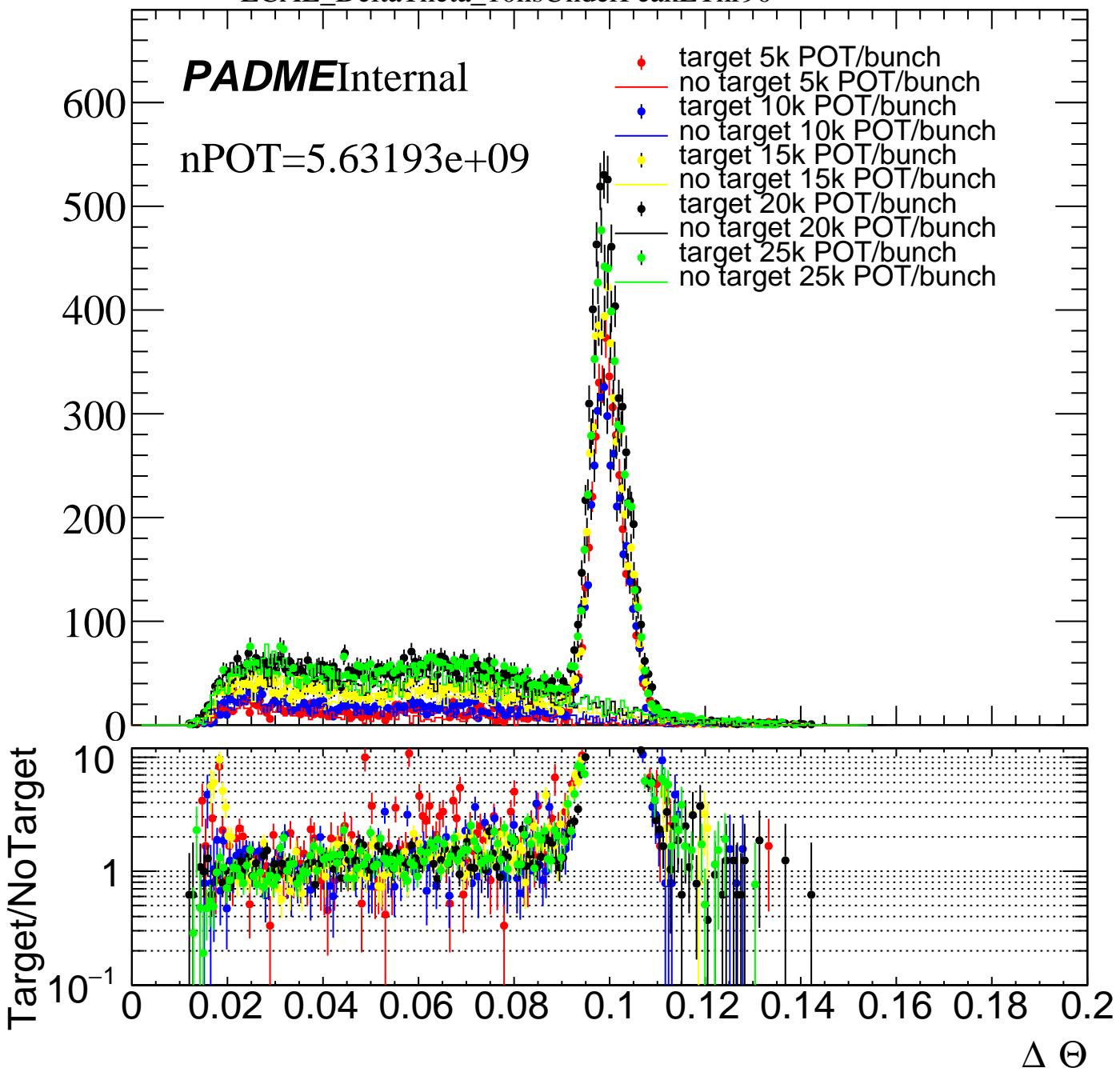
ECAL\_DeltaTheta\_10ns



ECAL\_DeltaTheta\_10nsDeltaPhi20



# ECAL\_DeltaTheta\_10nsUnderPeakEThr90

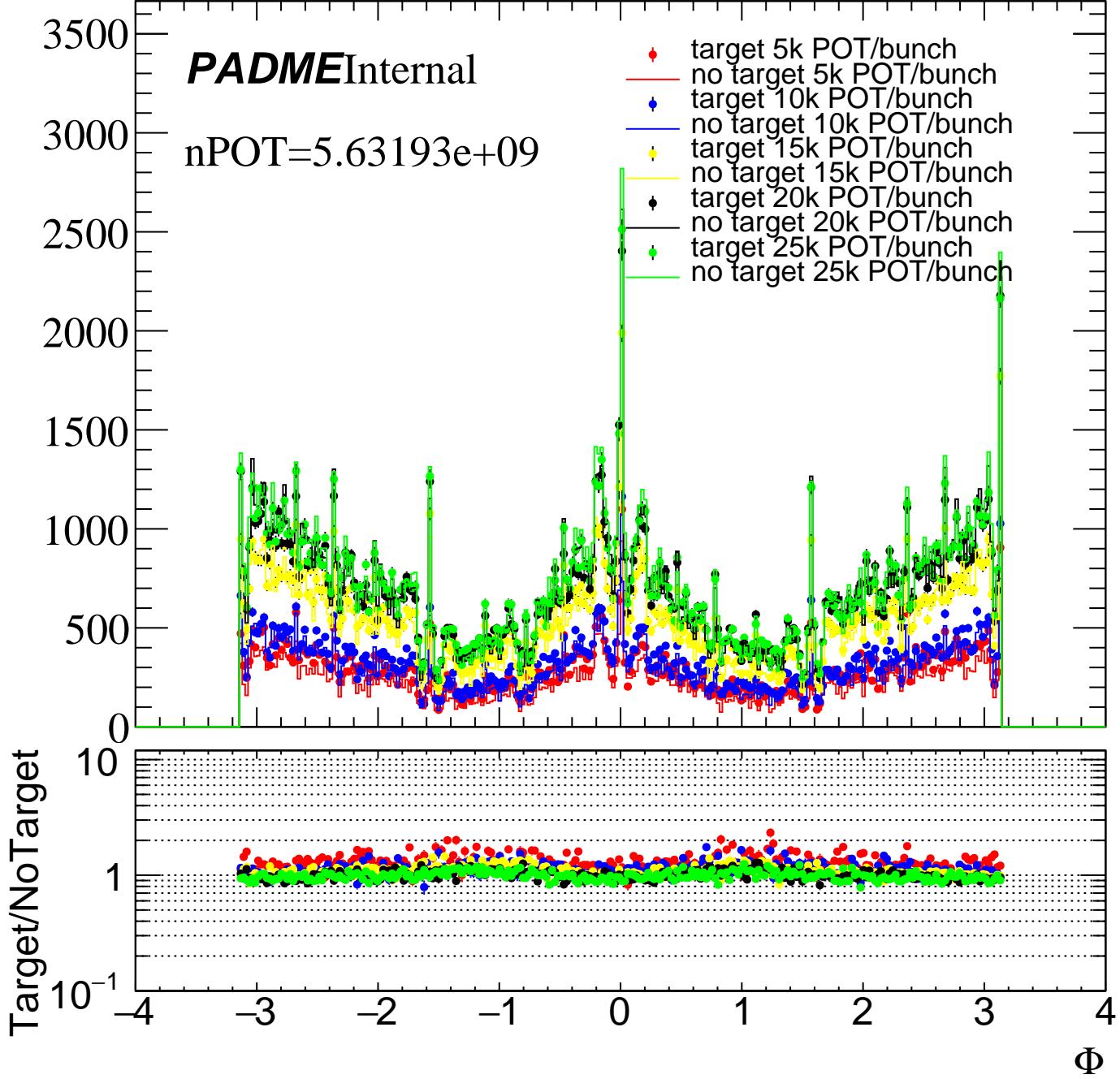


ECAL\_Phi\_10ns

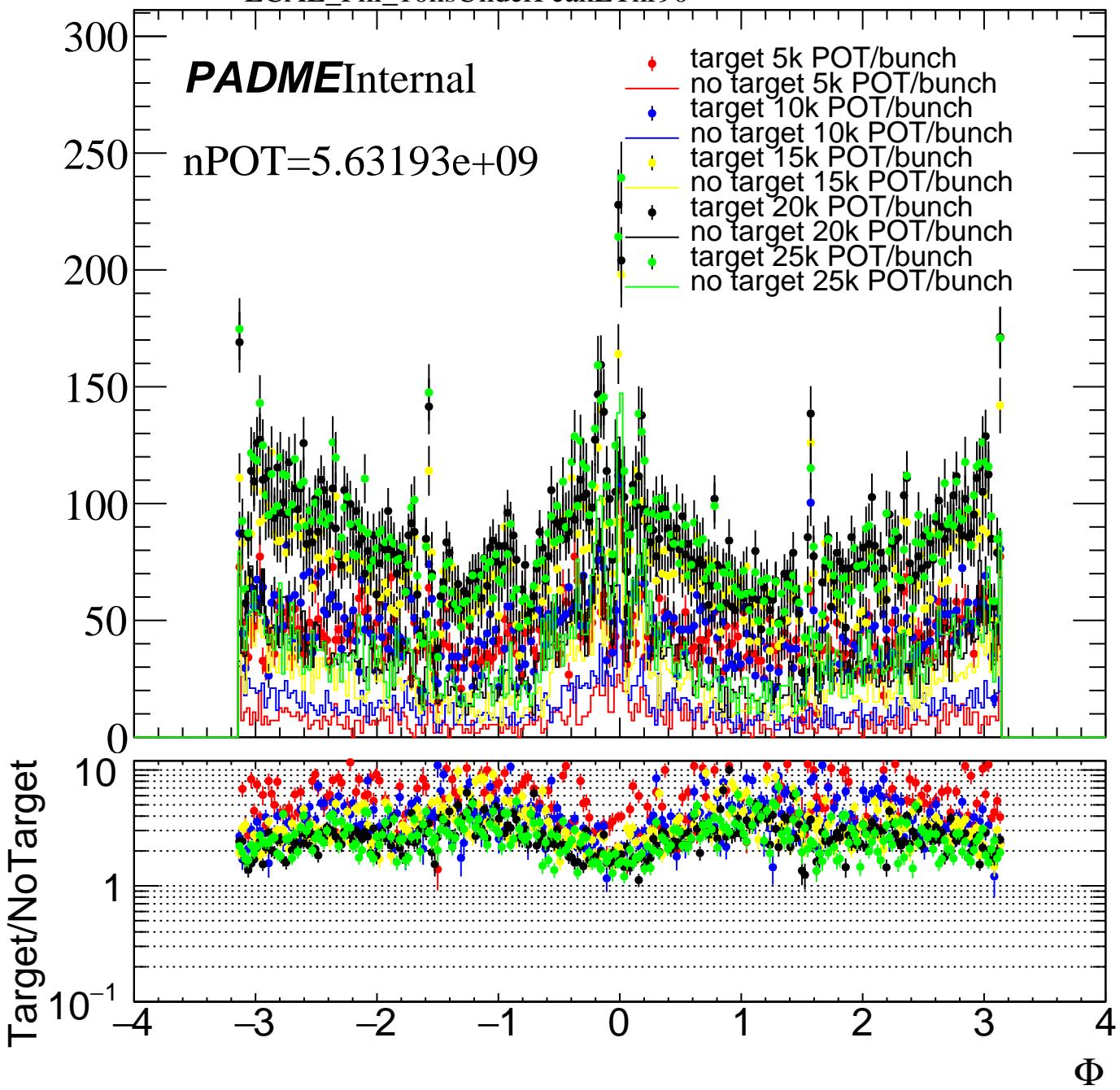
**PADME**Internal

nPOT=5.63193e+09

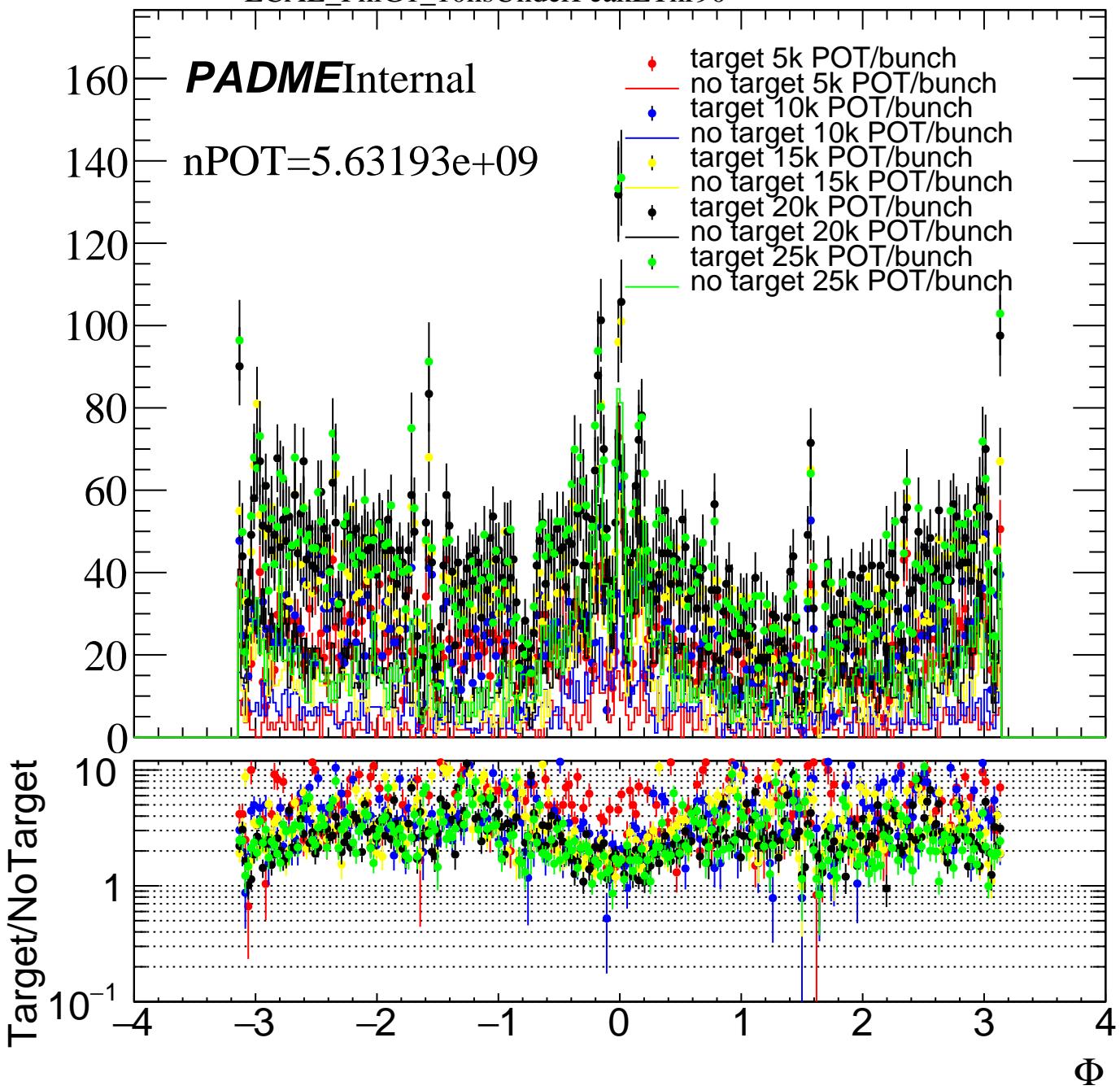
- target 5k POT/bunch
- no target 5k POT/bunch
- target 10k POT/bunch
- no target 10k POT/bunch
- target 15k POT/bunch
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- no target 20k POT/bunch
- target 25k POT/bunch
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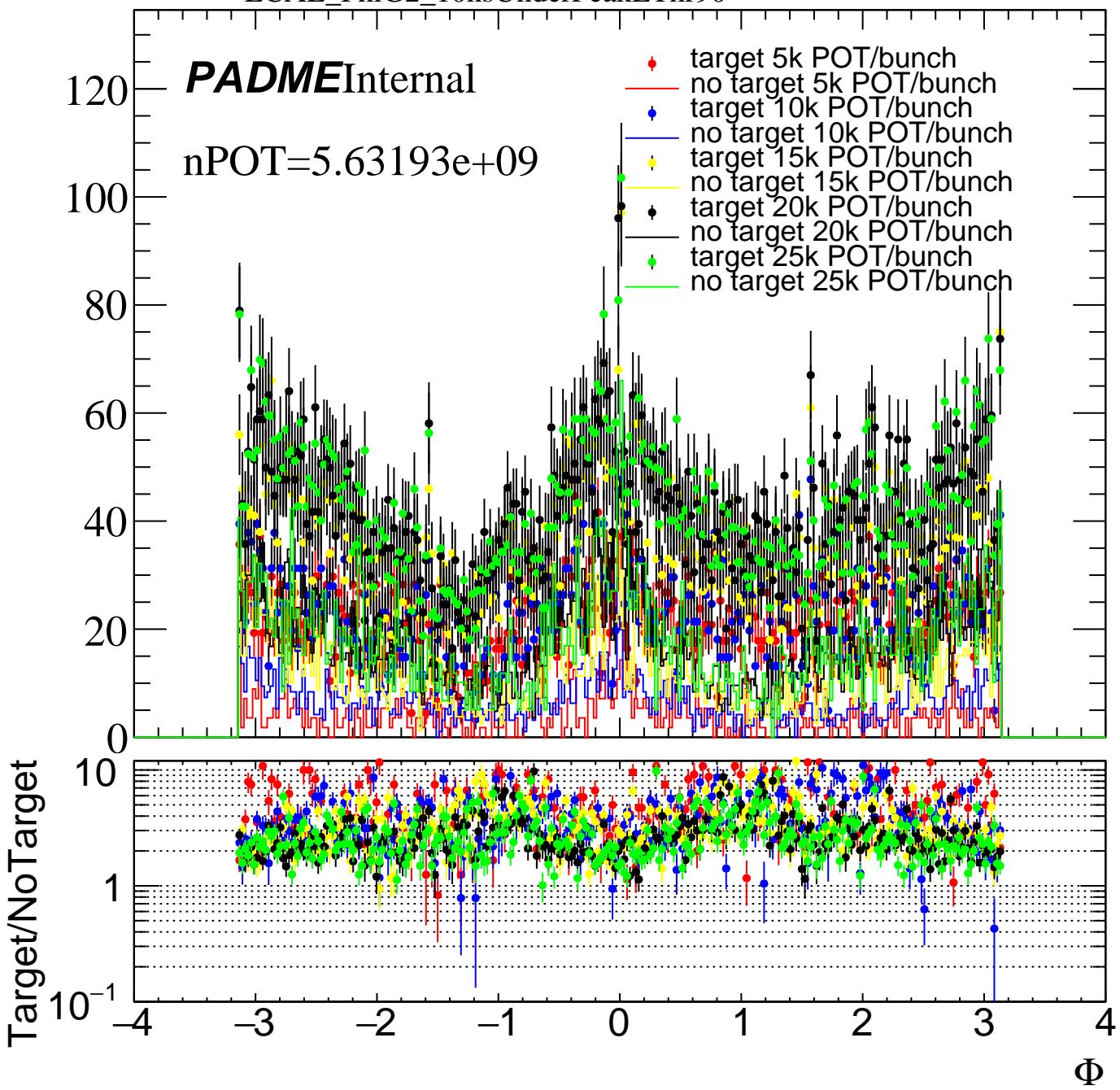
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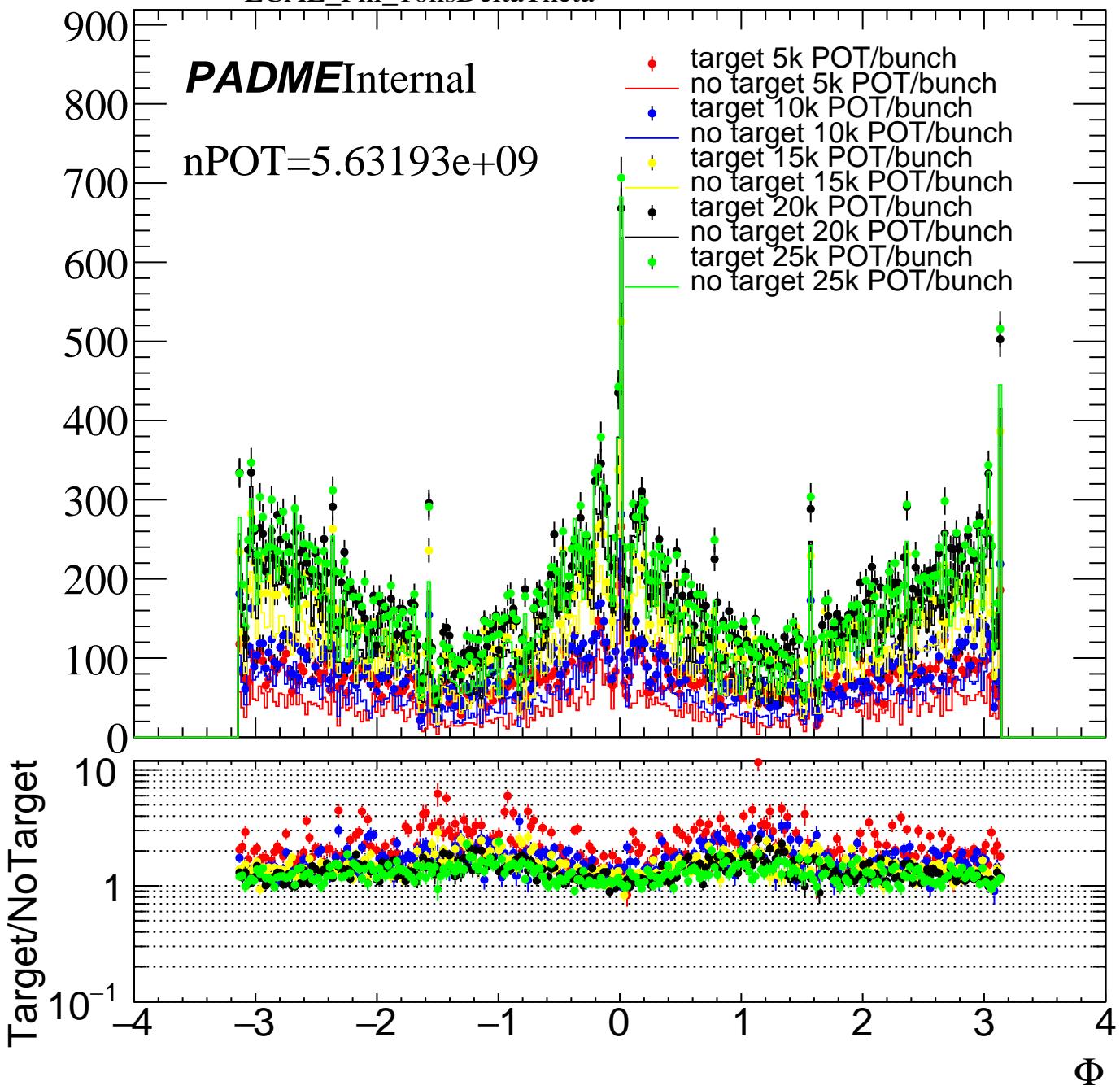
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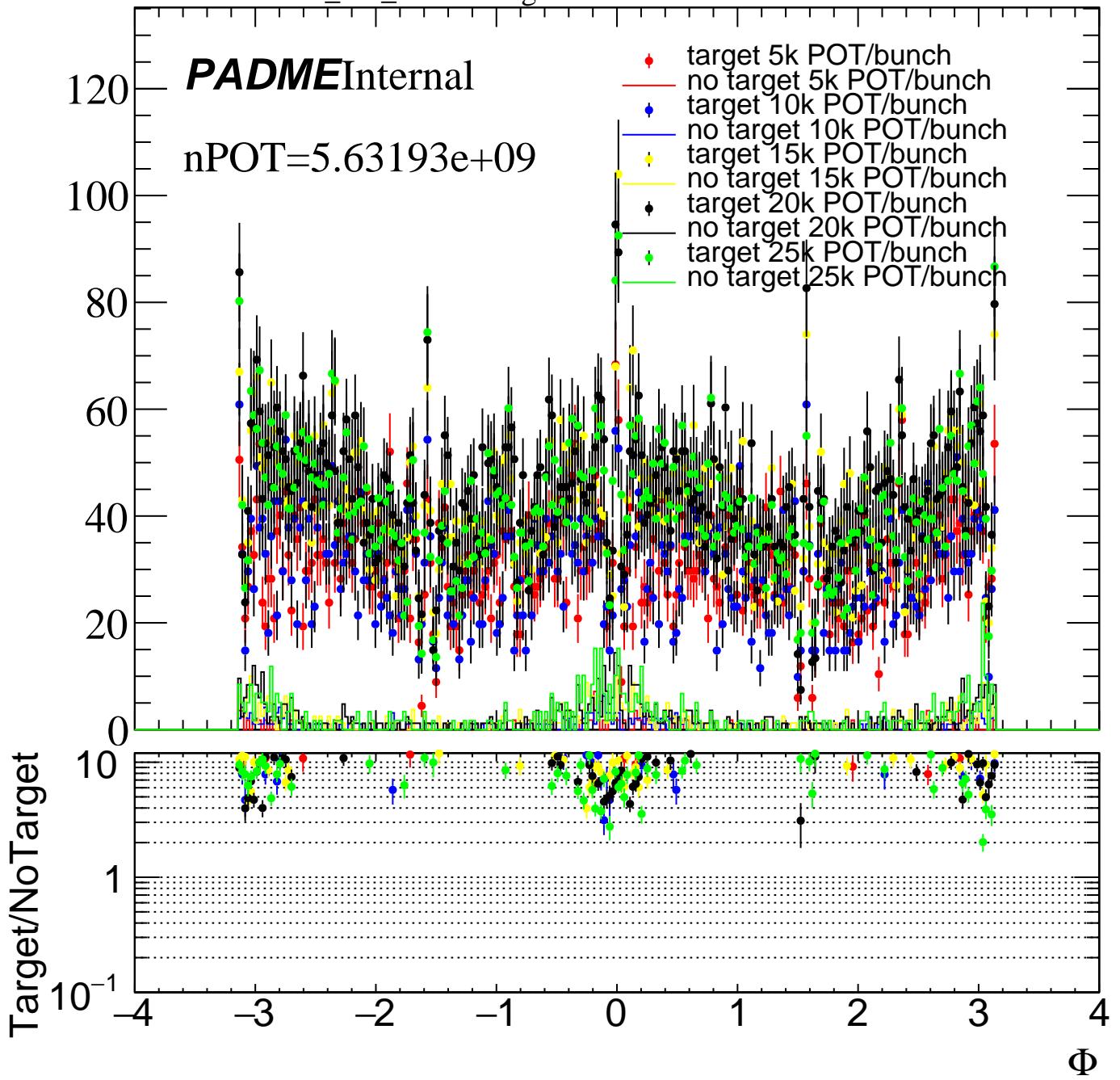
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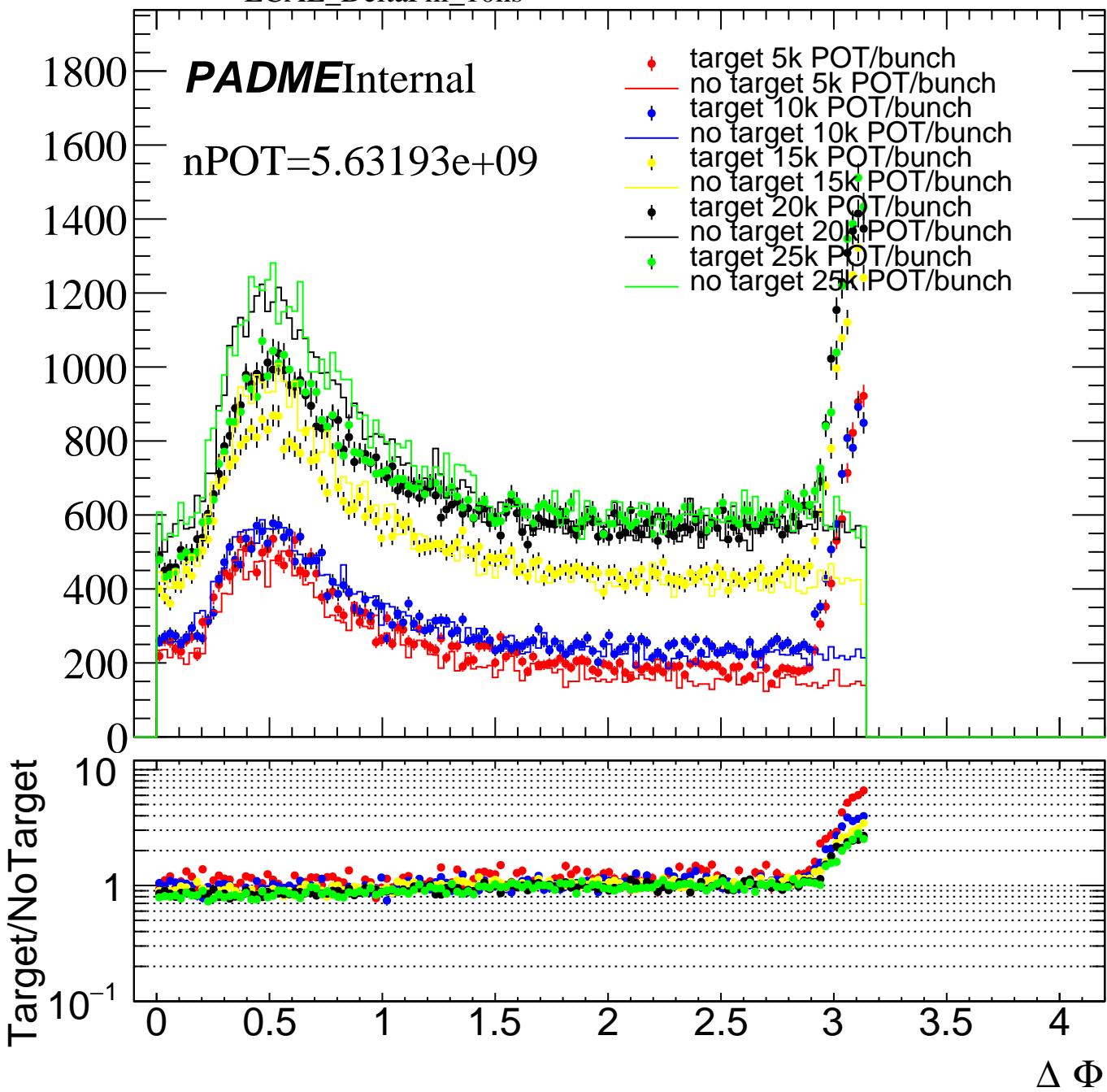
ECAL\_Phi\_10nsDeltaTheta



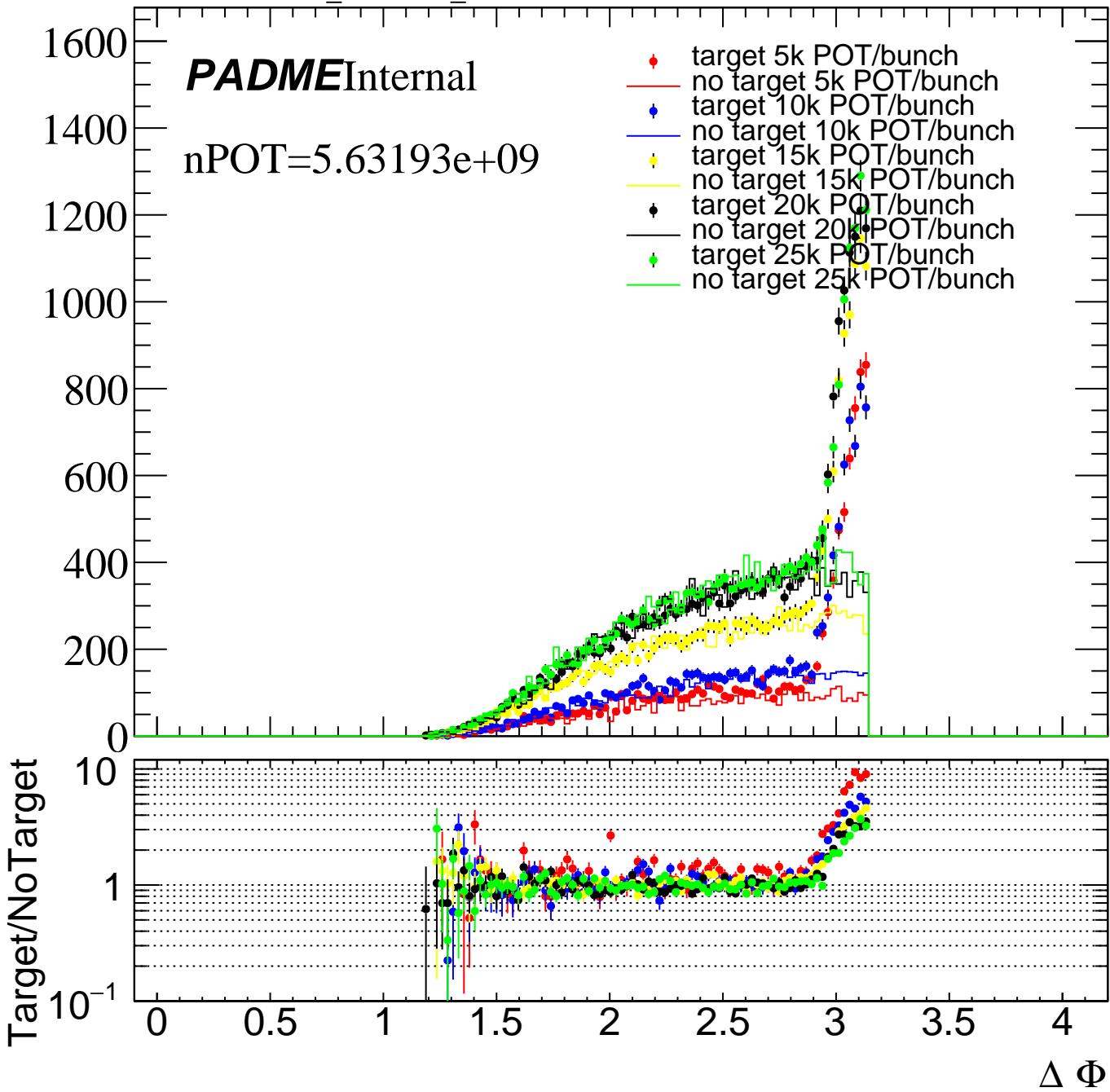
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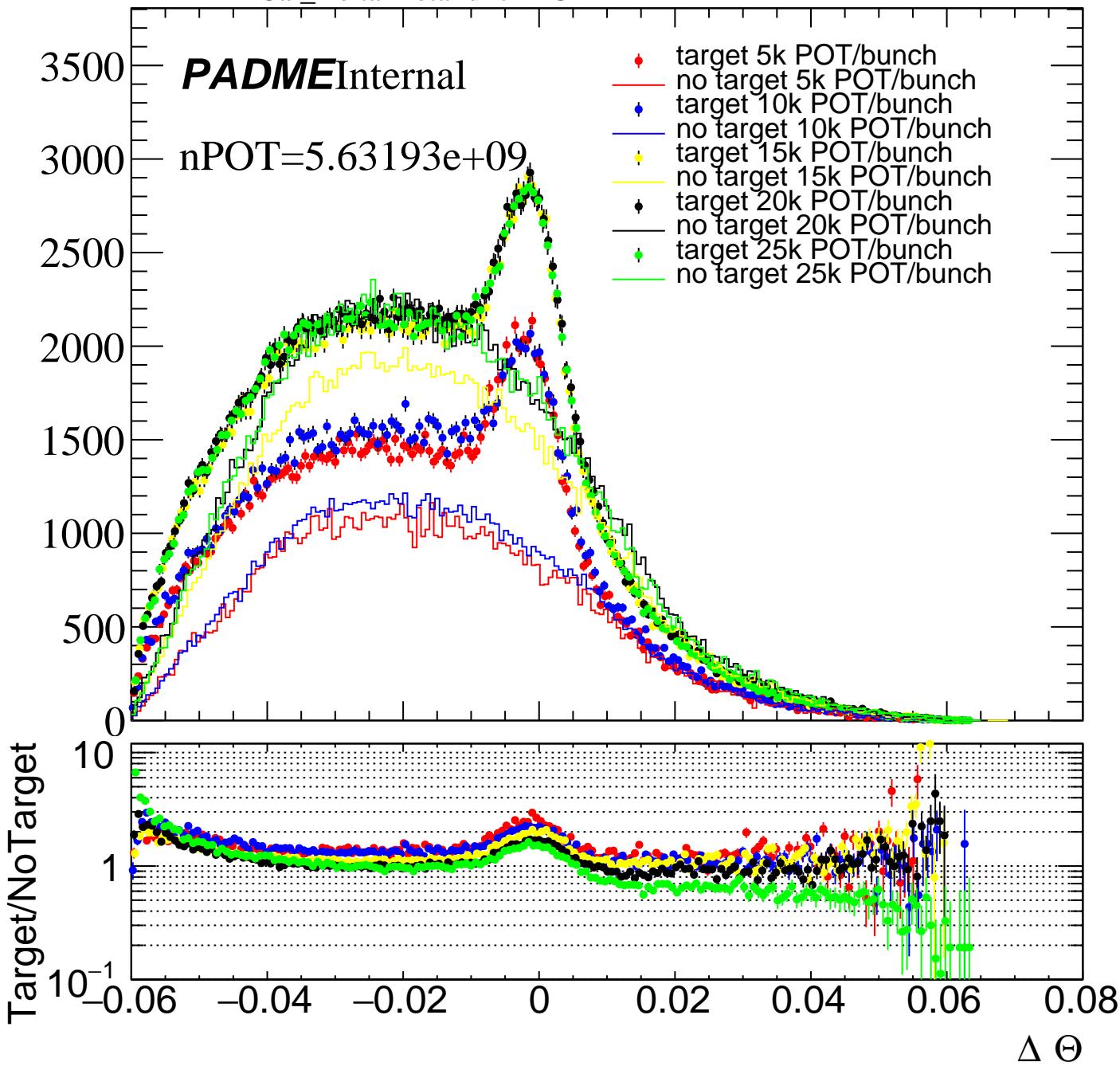
ECAL\_DeltaPhi\_10ns



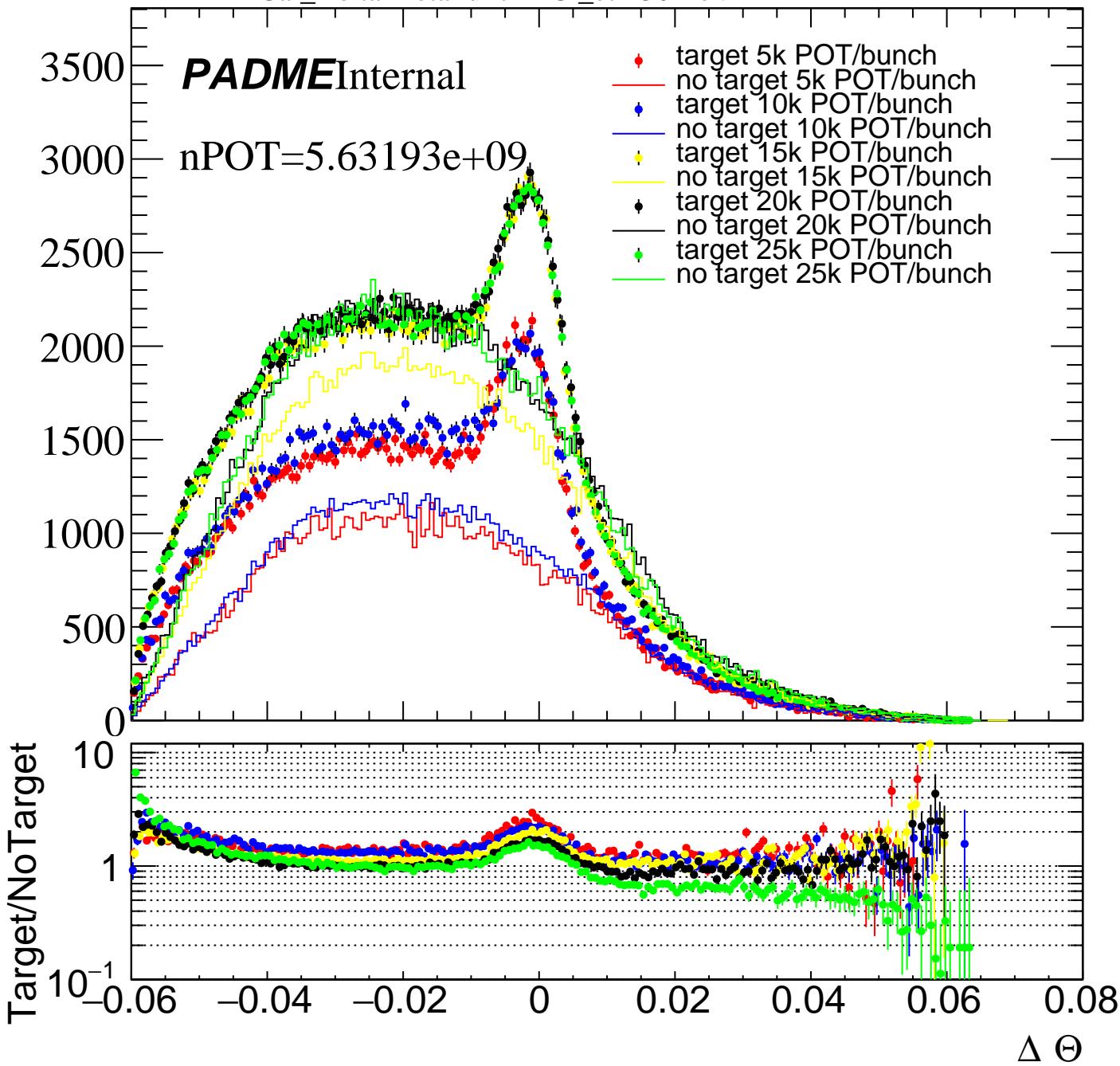
# ECAL\_DeltaPhi\_10nsDeltaTheta



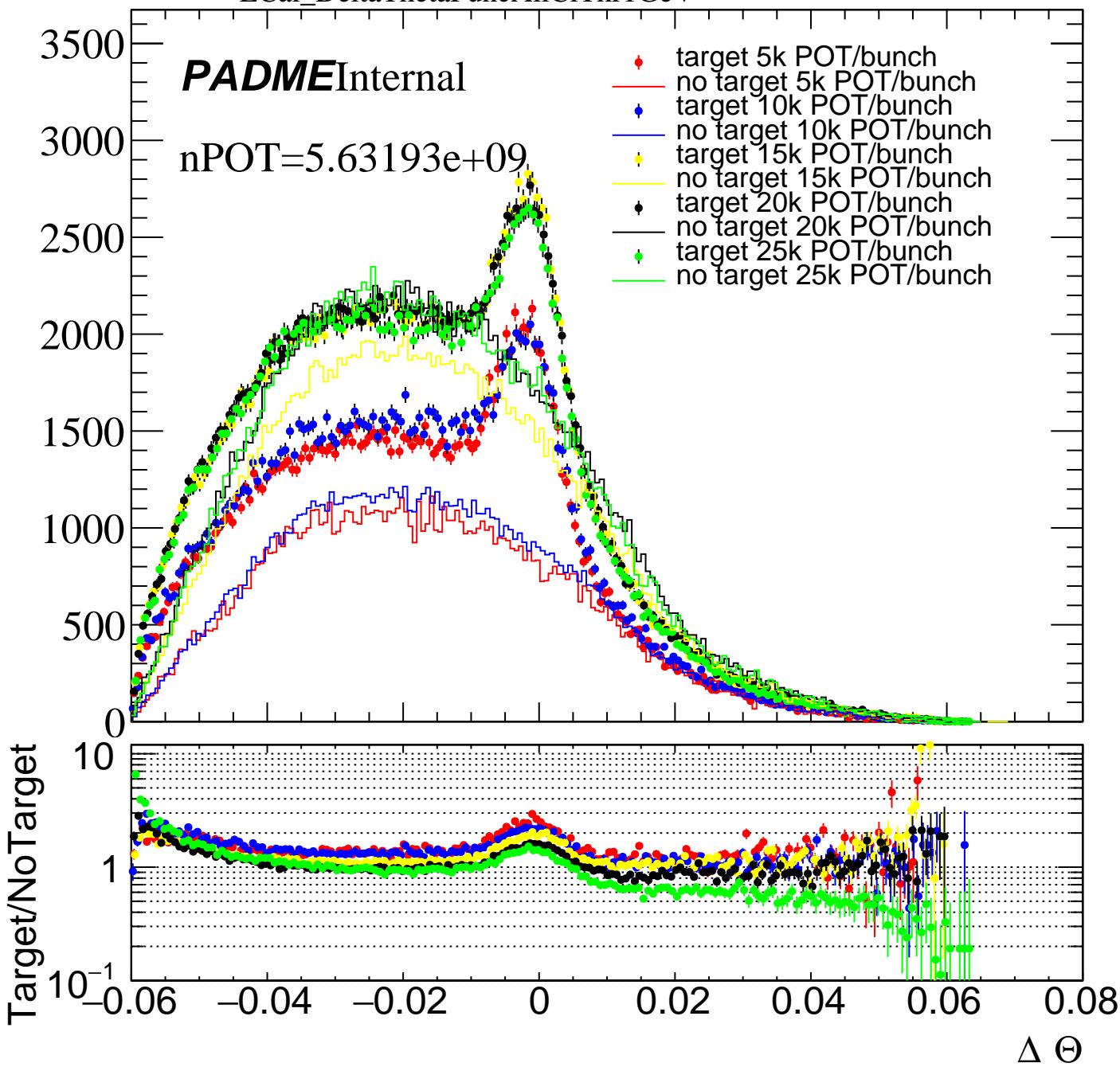
# ECal\_DeltaThetaFuncAllCl



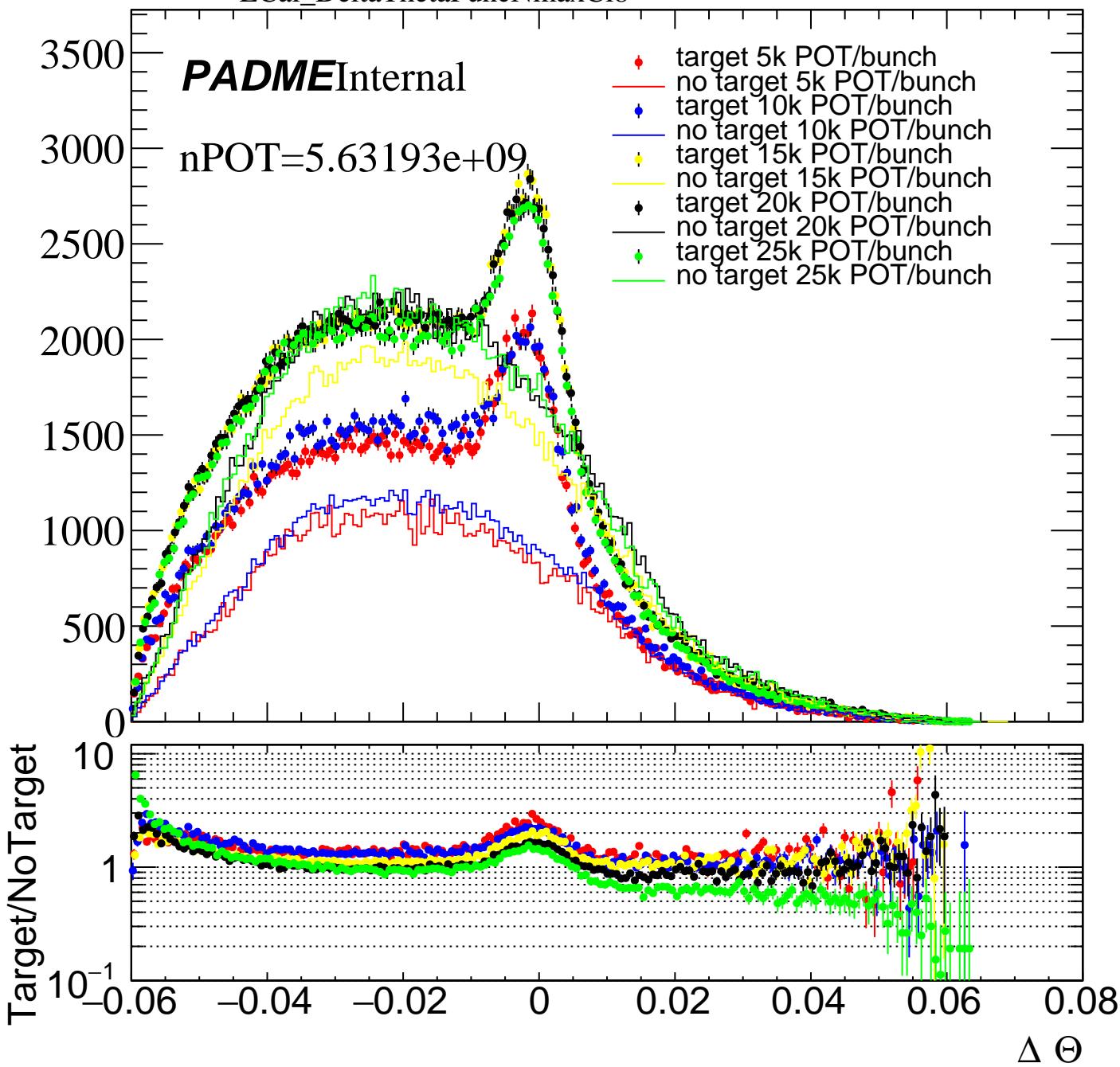
ECal\_DeltaThetaFuncAllCl\_ethyl50MeV



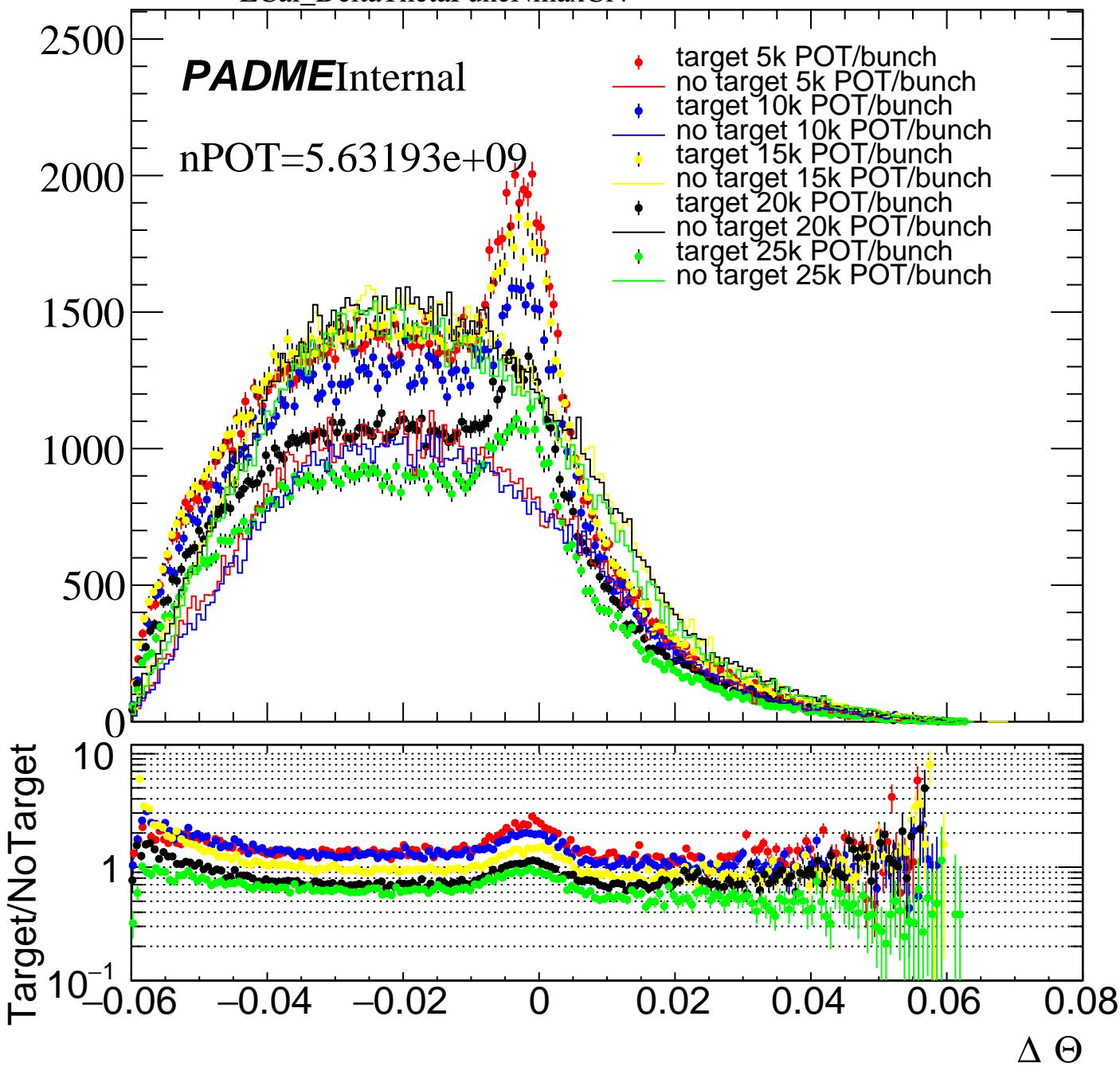
ECal\_DeltaThetaFuncAllClThr1GeV



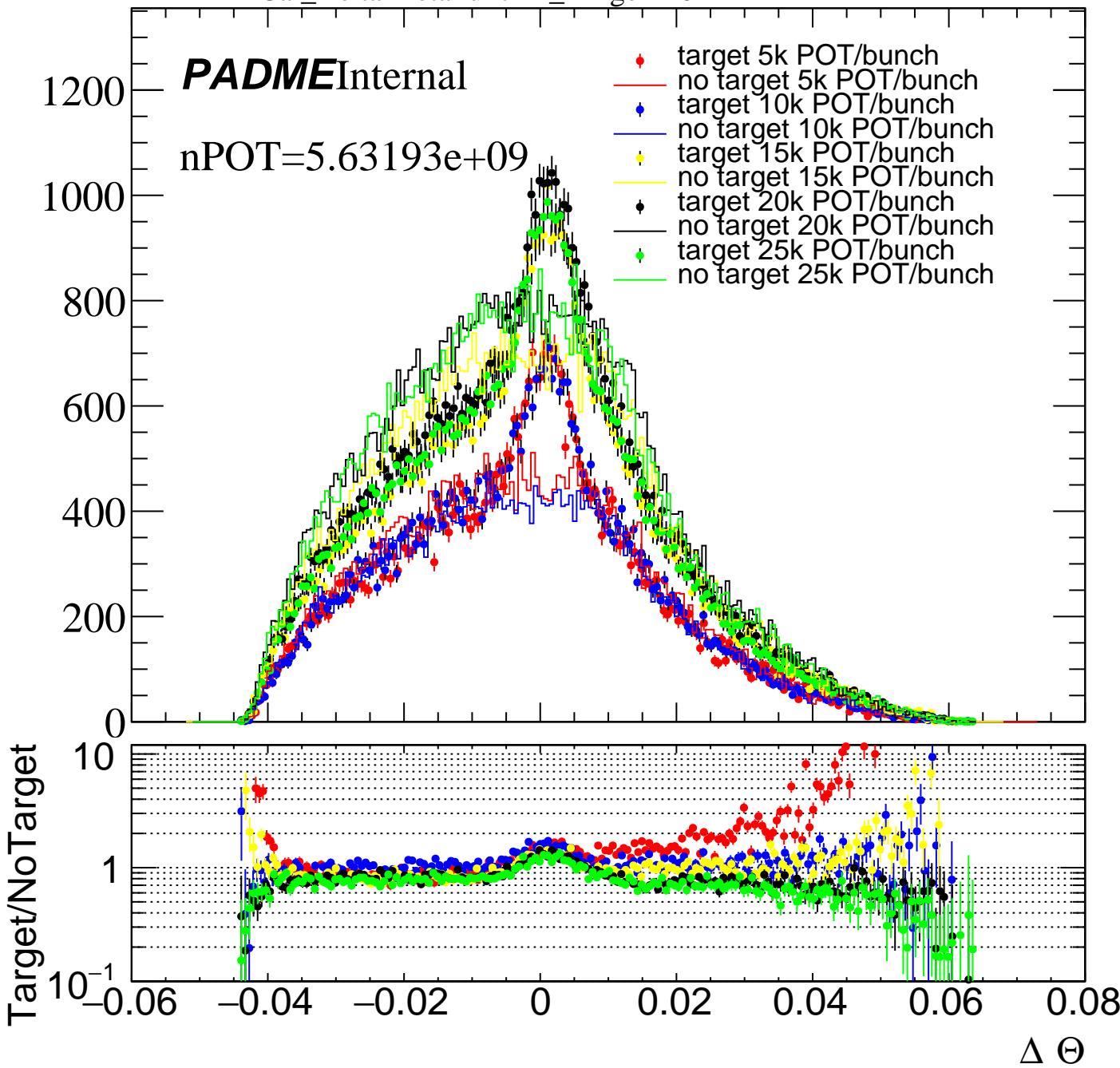
ECal\_DeltaThetaFuncNmaxC18



# ECal\_DeltaThetaFuncNmaxC14



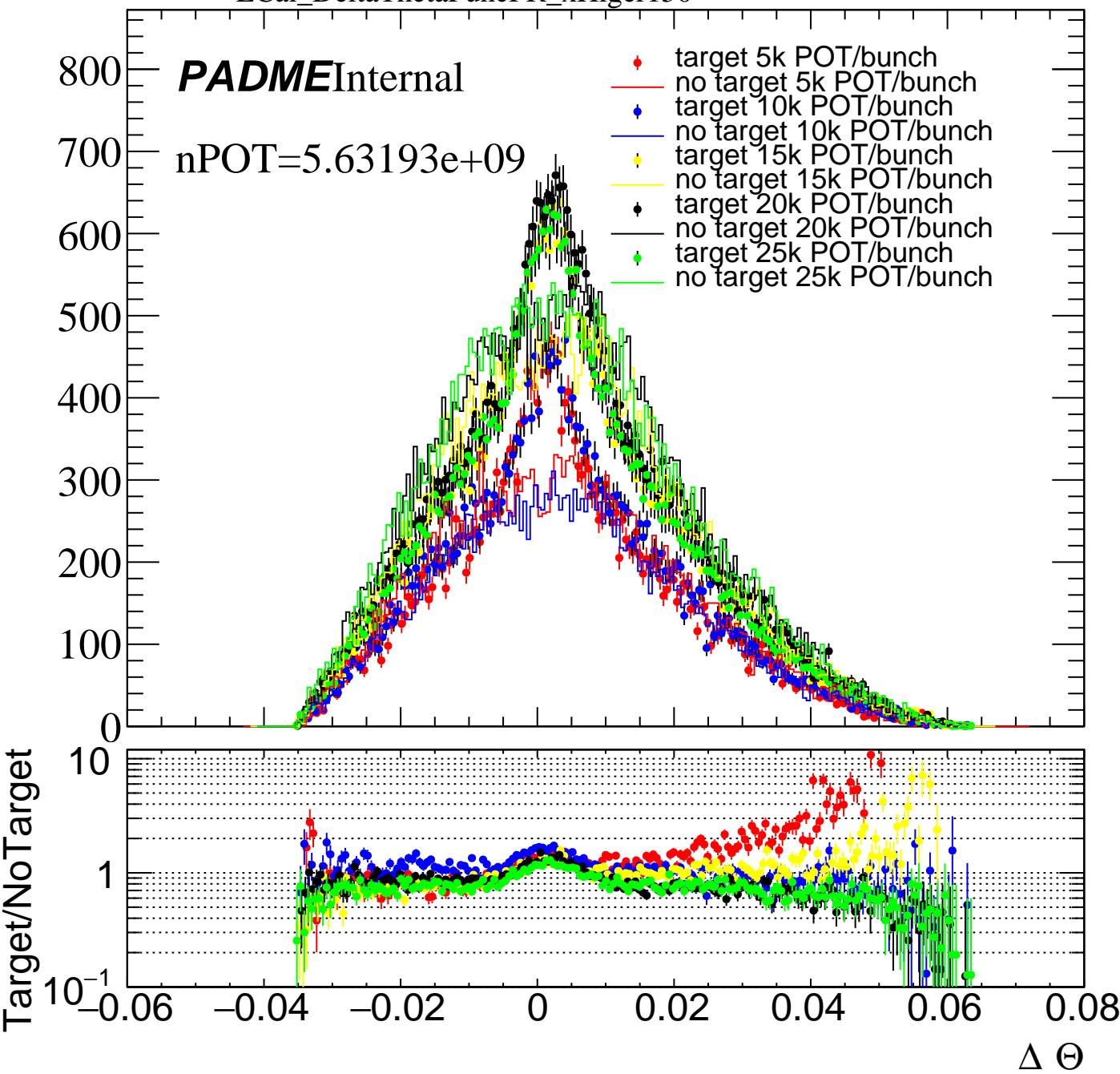
# ECal\_DeltaThetaFuncFR\_xHiger120



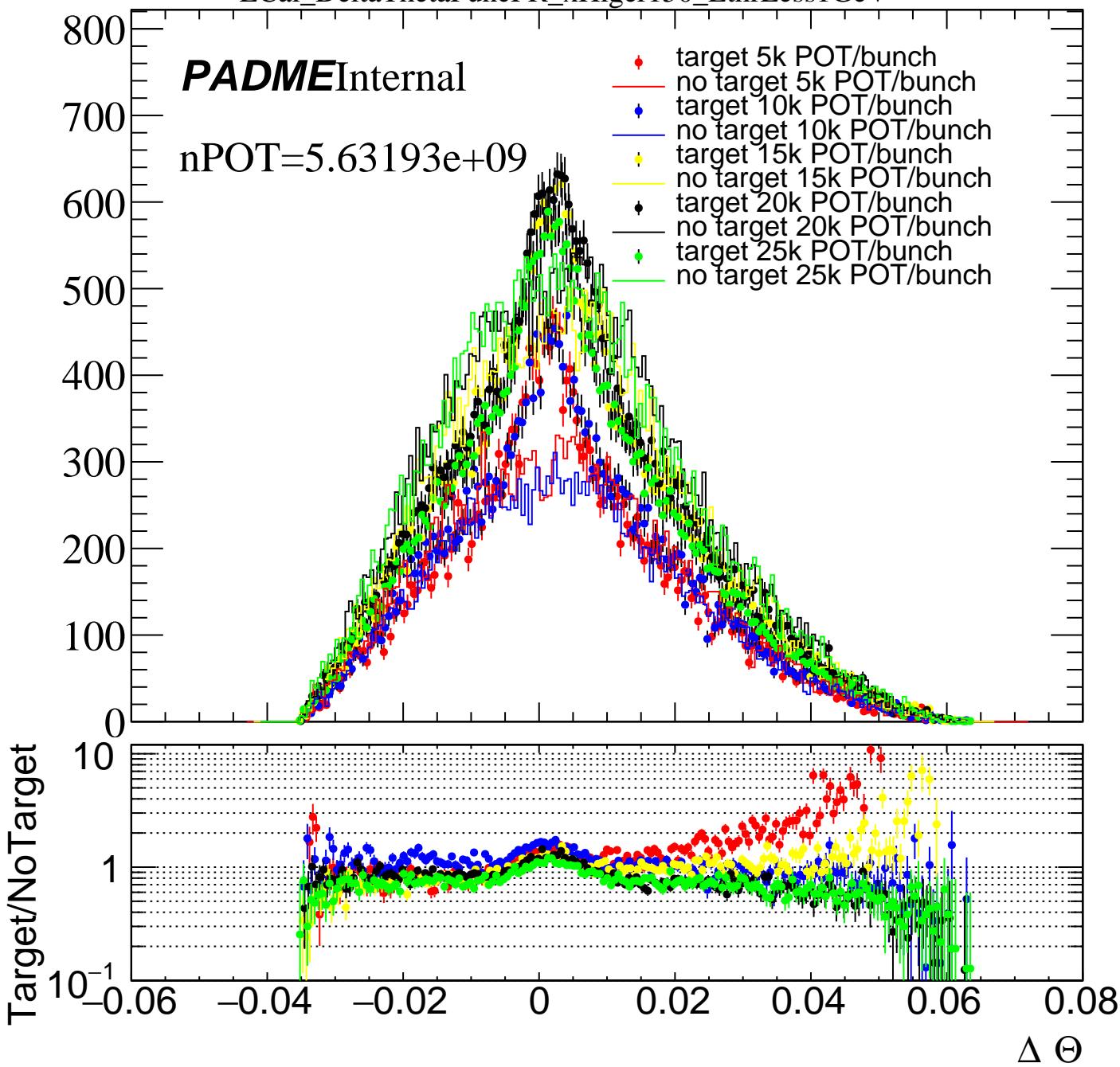
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**PADME** Internal

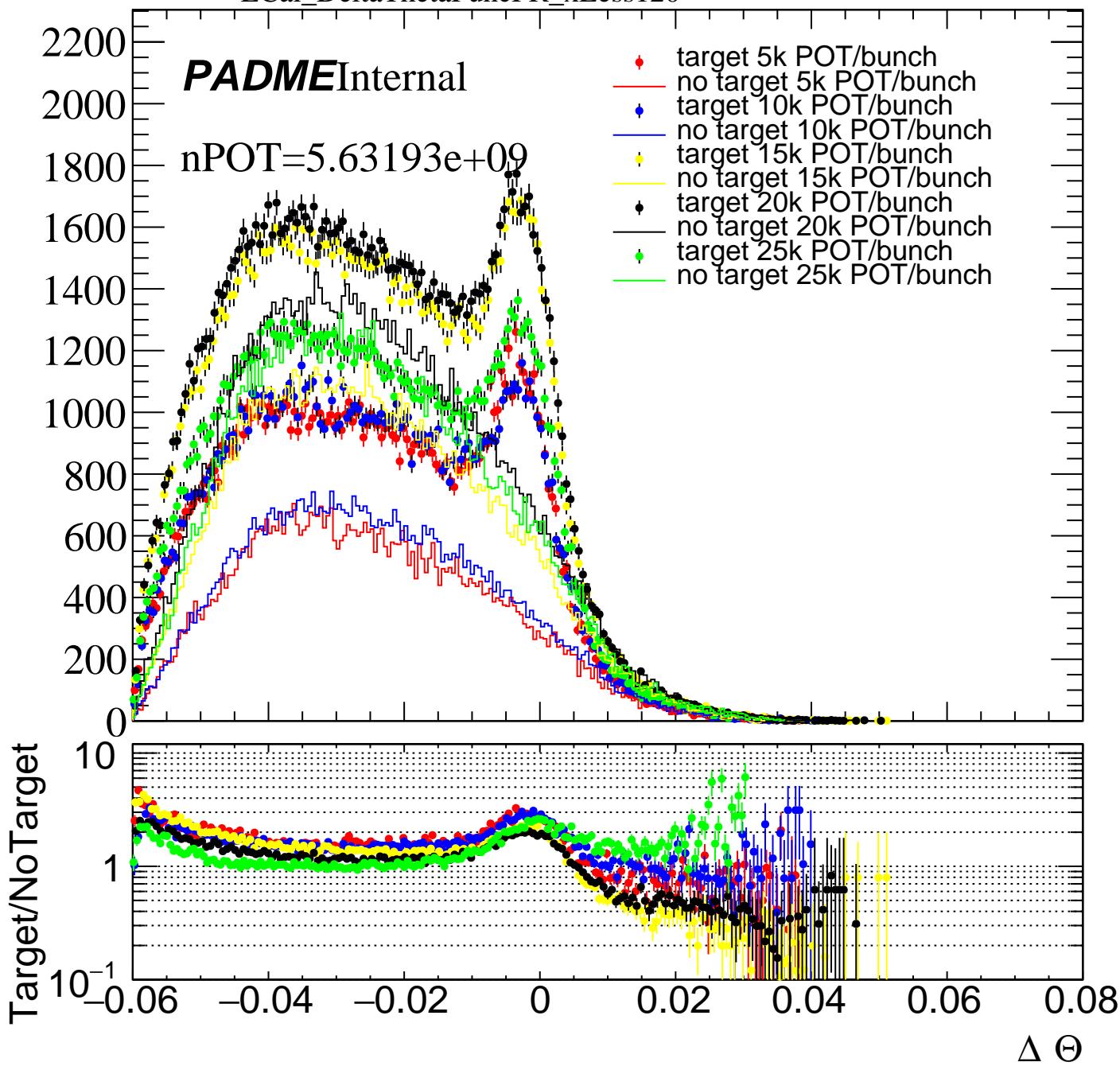
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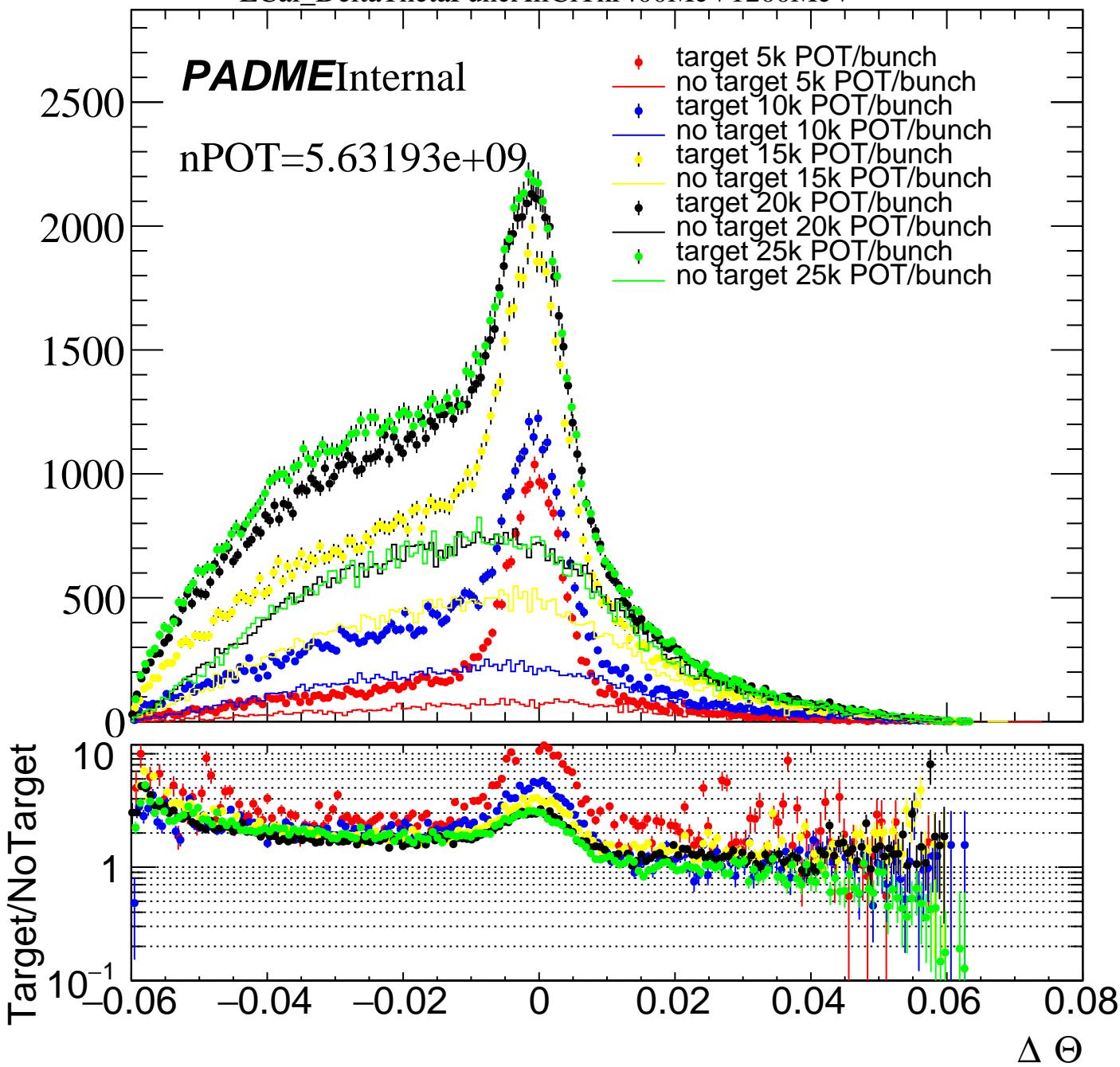
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# ECal\_DeltaThetaFuncFR\_xLess120



ECal\_DeltaThetaFuncAllClThr400MeV1200MeV

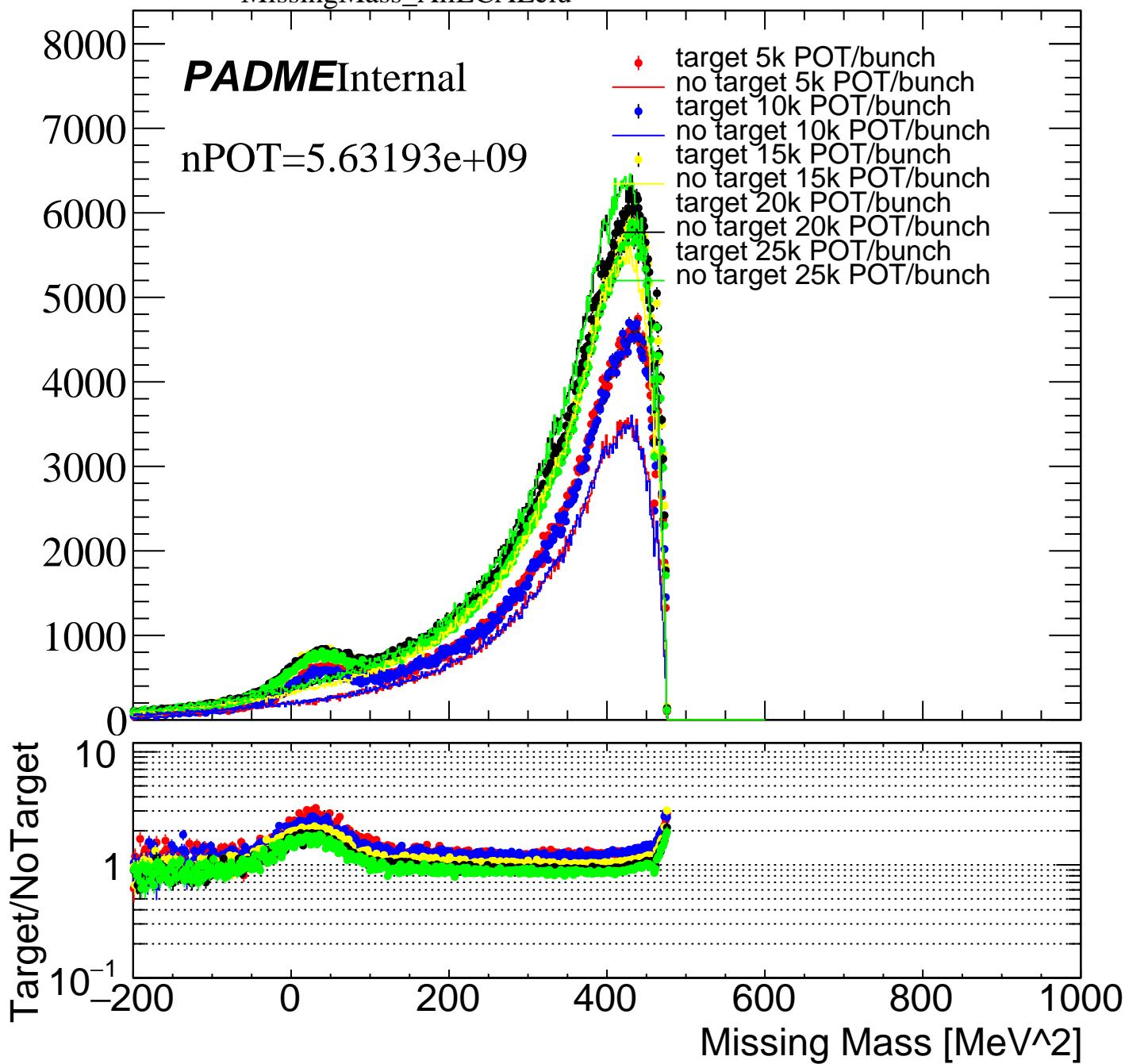


# MissingMass\_AllECALclu

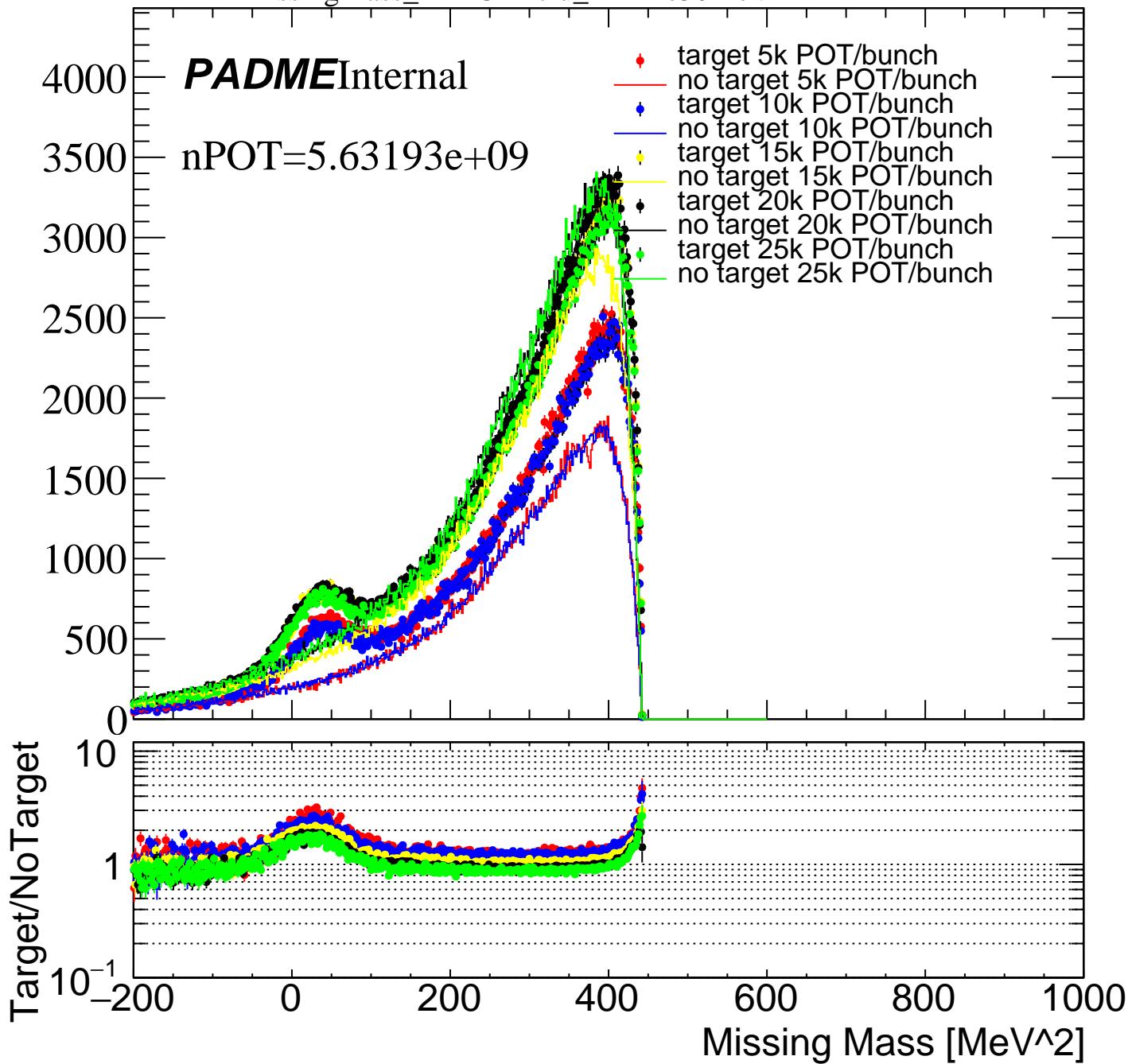
**PADME**Internal

nPOT=5.63193e+09

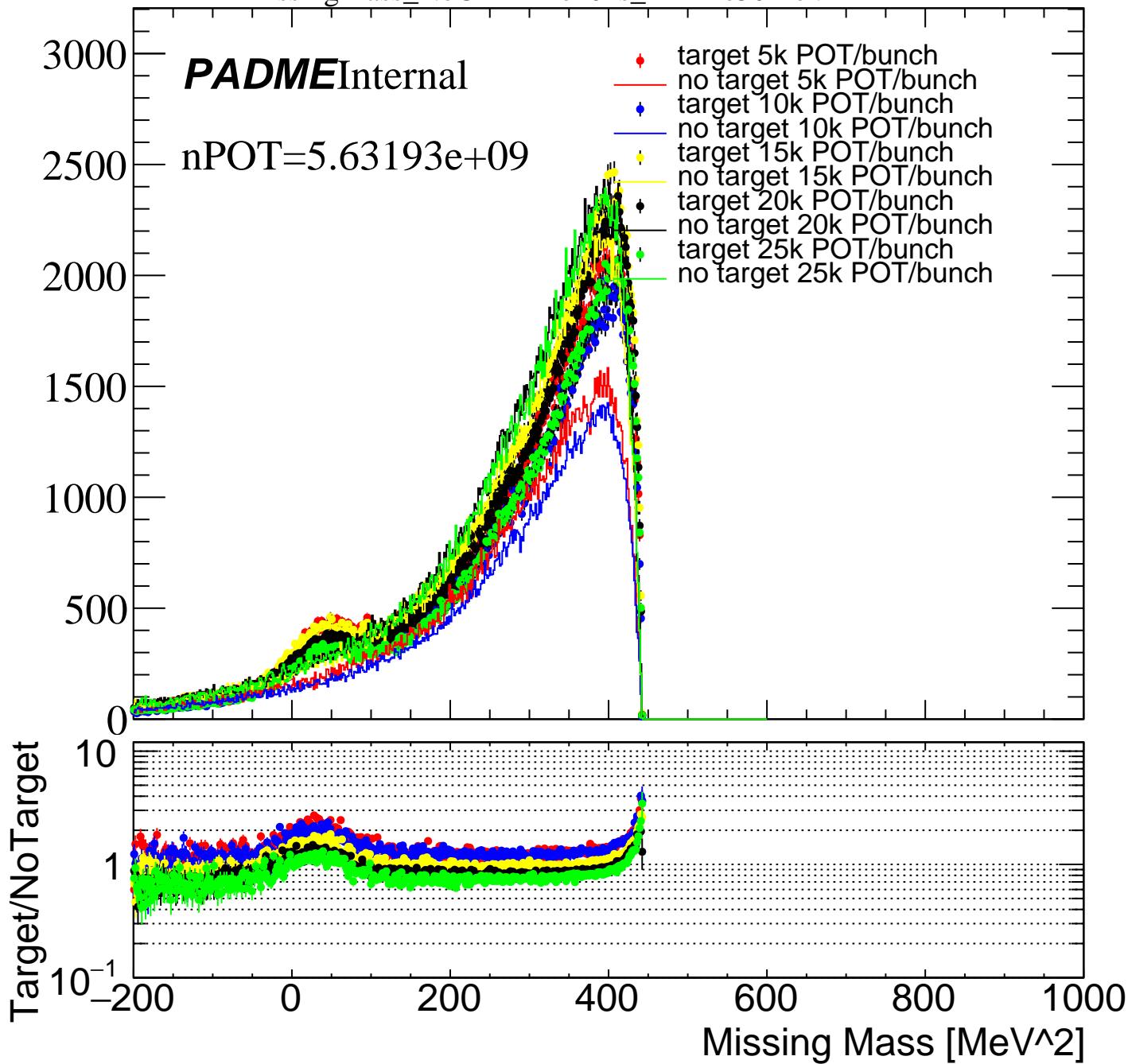
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- no target 5k POT/bunch
- target 10k POT/bunch
- no target 10k POT/bunch
- target 15k POT/bunch
- no target 15k POT/bunch
- target 20k POT/bunch
- no target 20k POT/bunch
- target 25k POT/bunch
- no target 25k POT/bunch



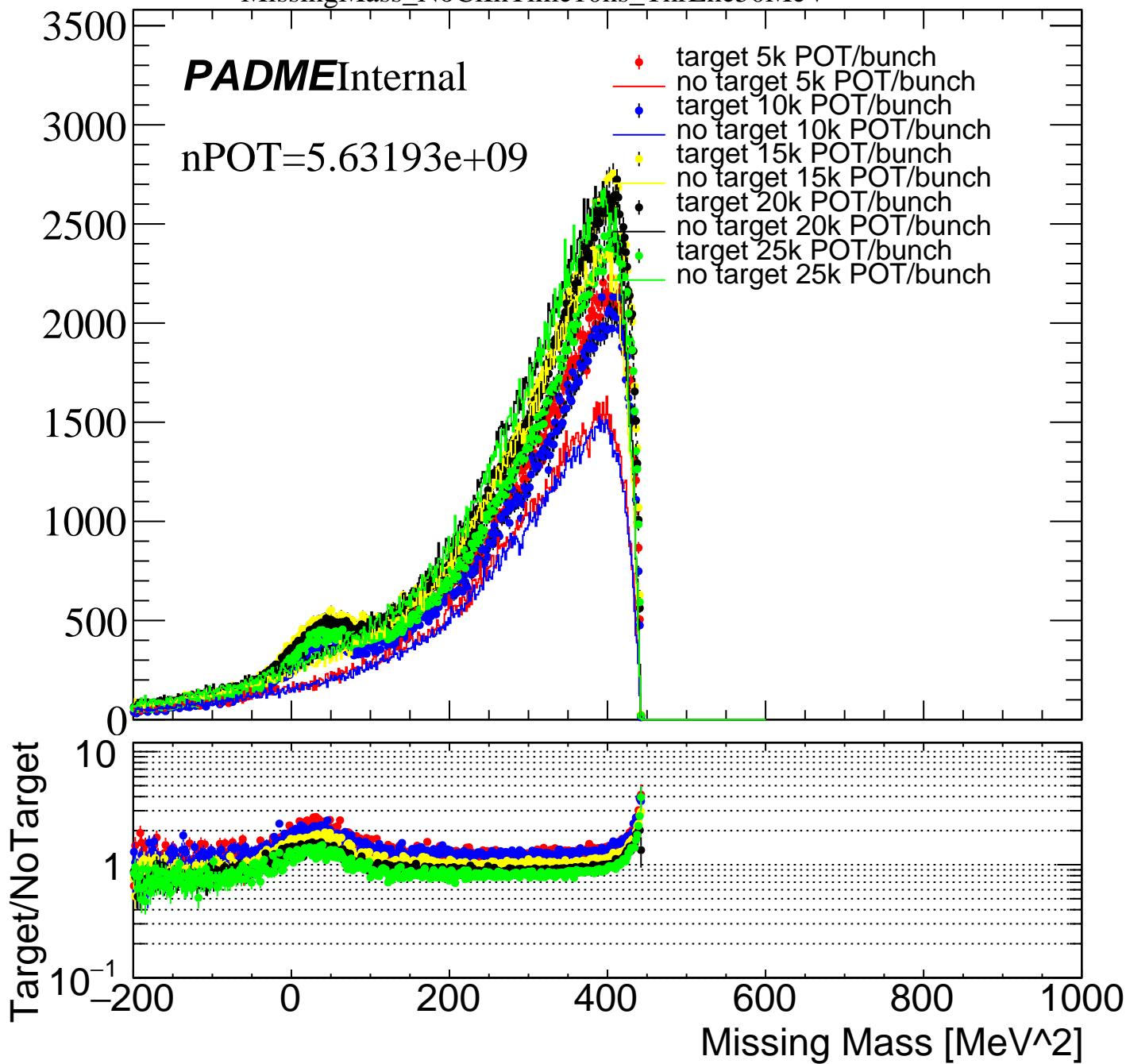
# MissingMass\_AllECALclu\_ThrEne50MeV

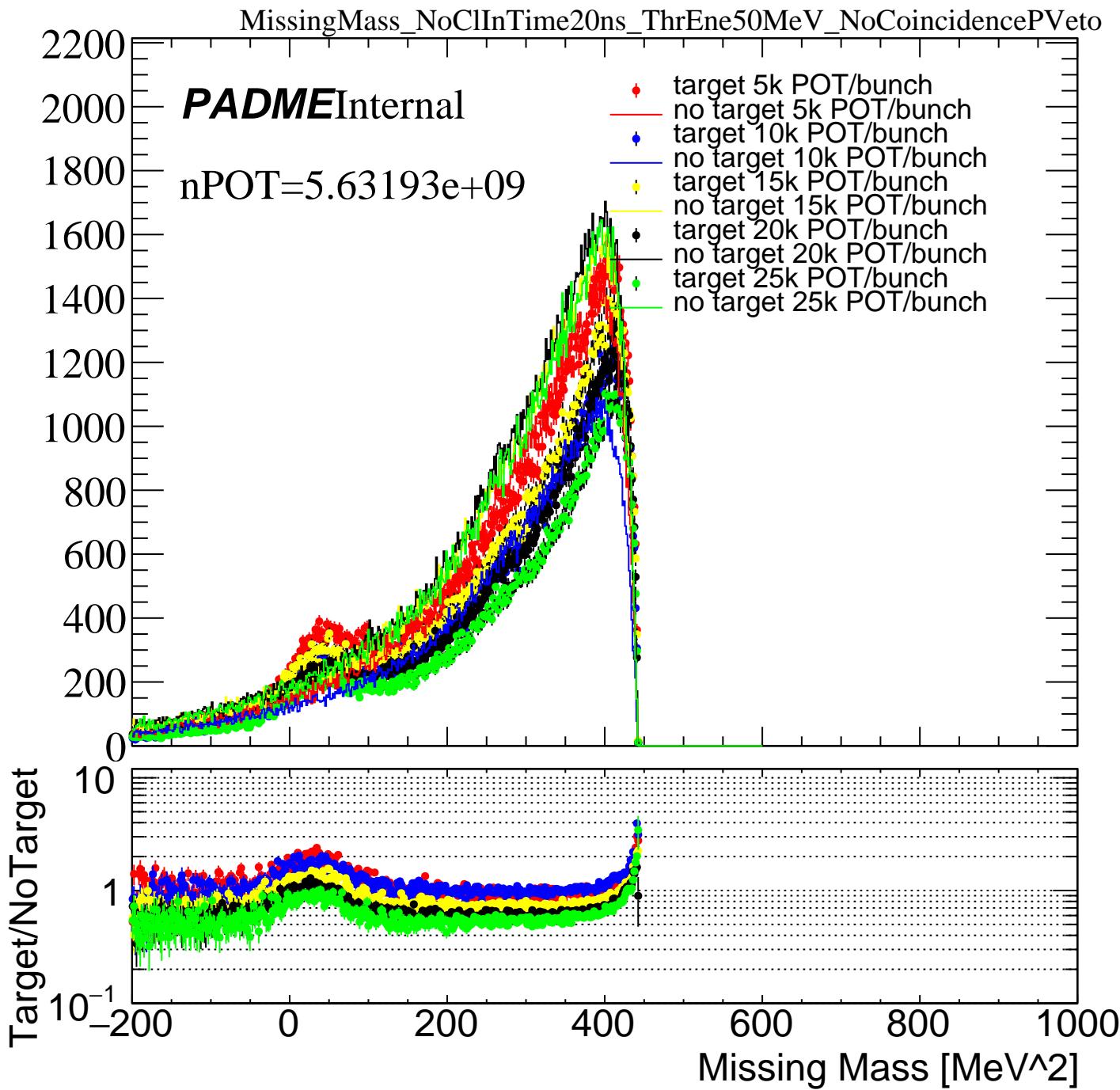


MissingMass\_NoClInTime20ns\_ThrEne50MeV

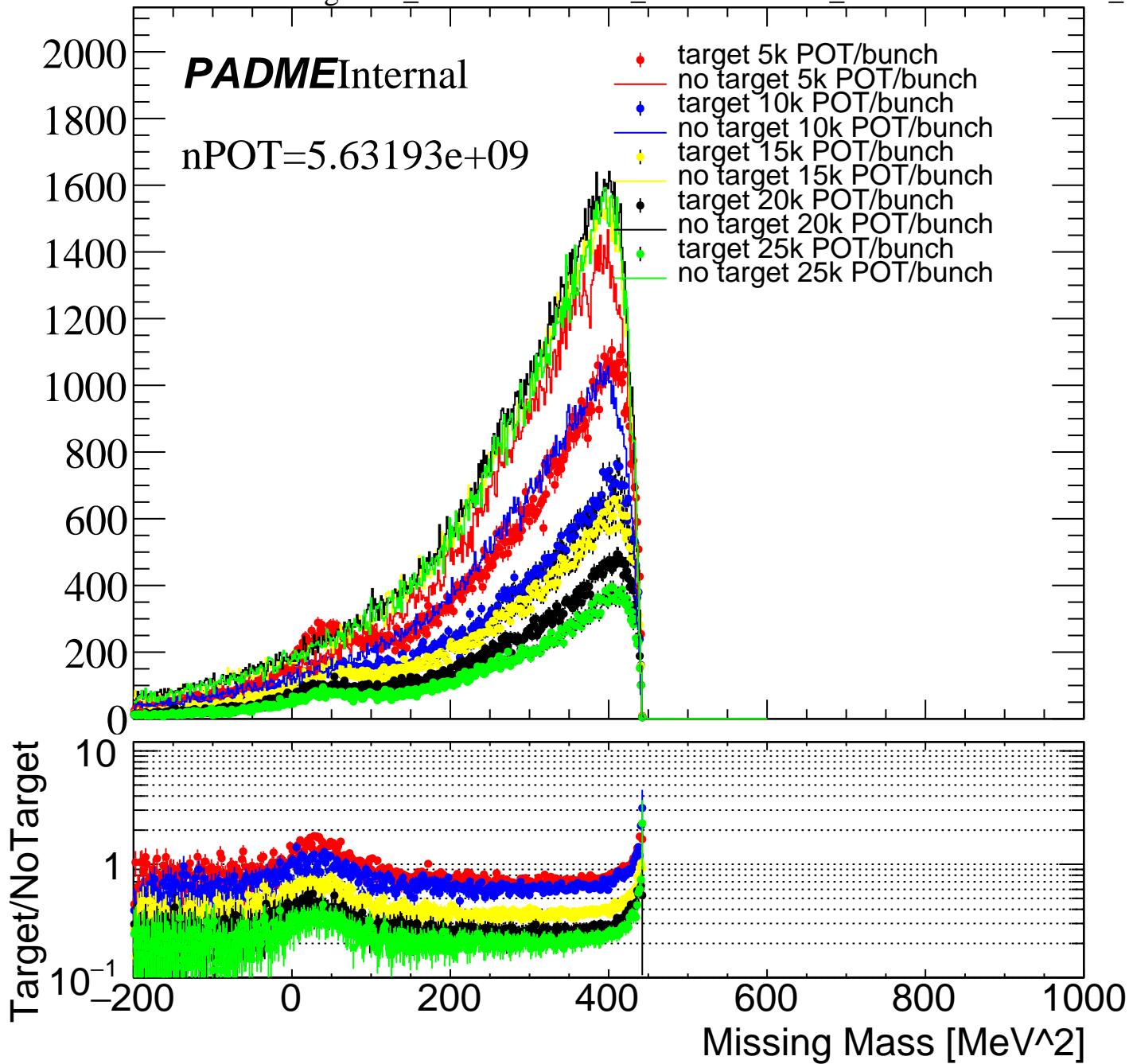


MissingMass\_NoClInTime10ns\_ThrEne50MeV

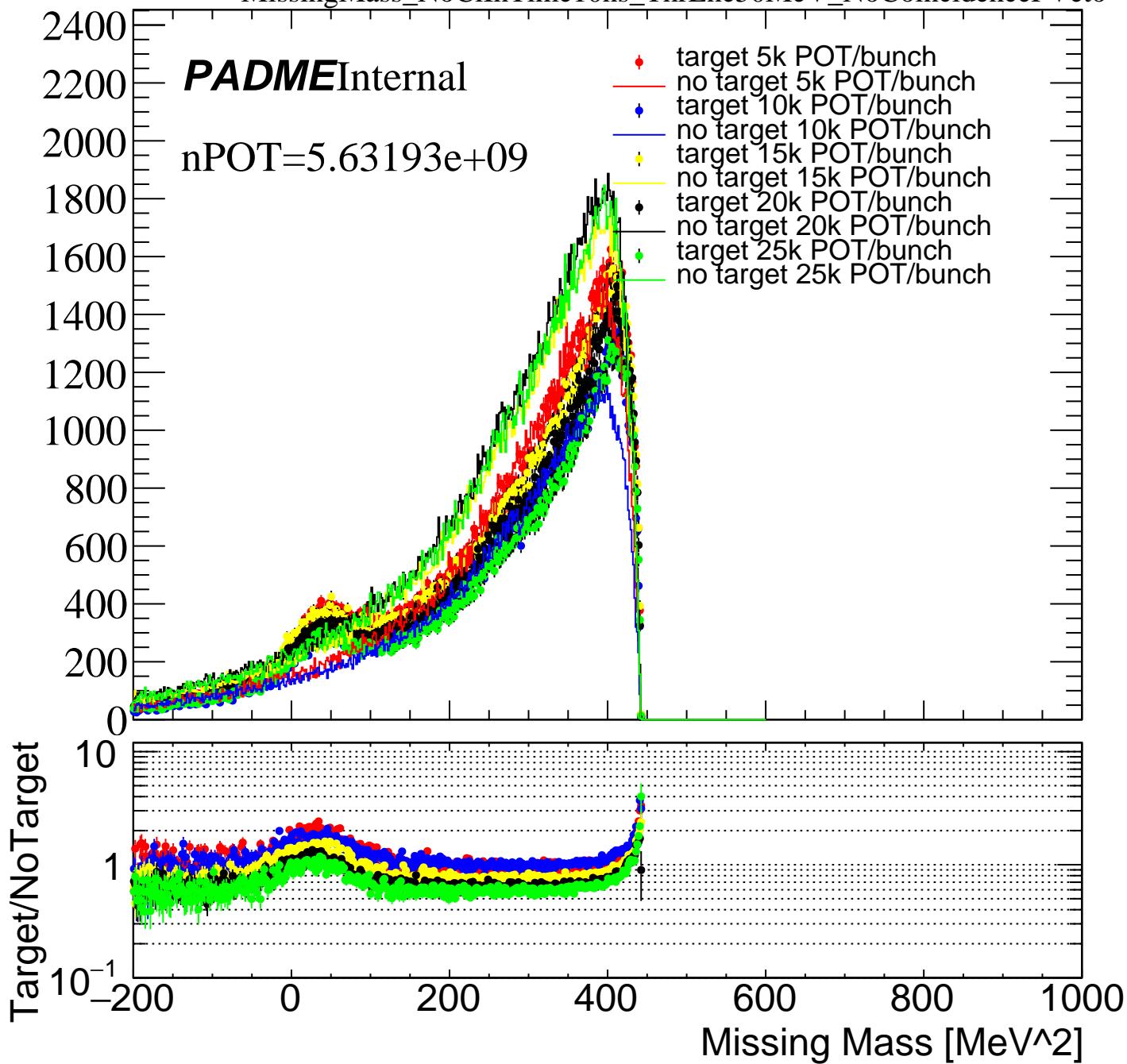




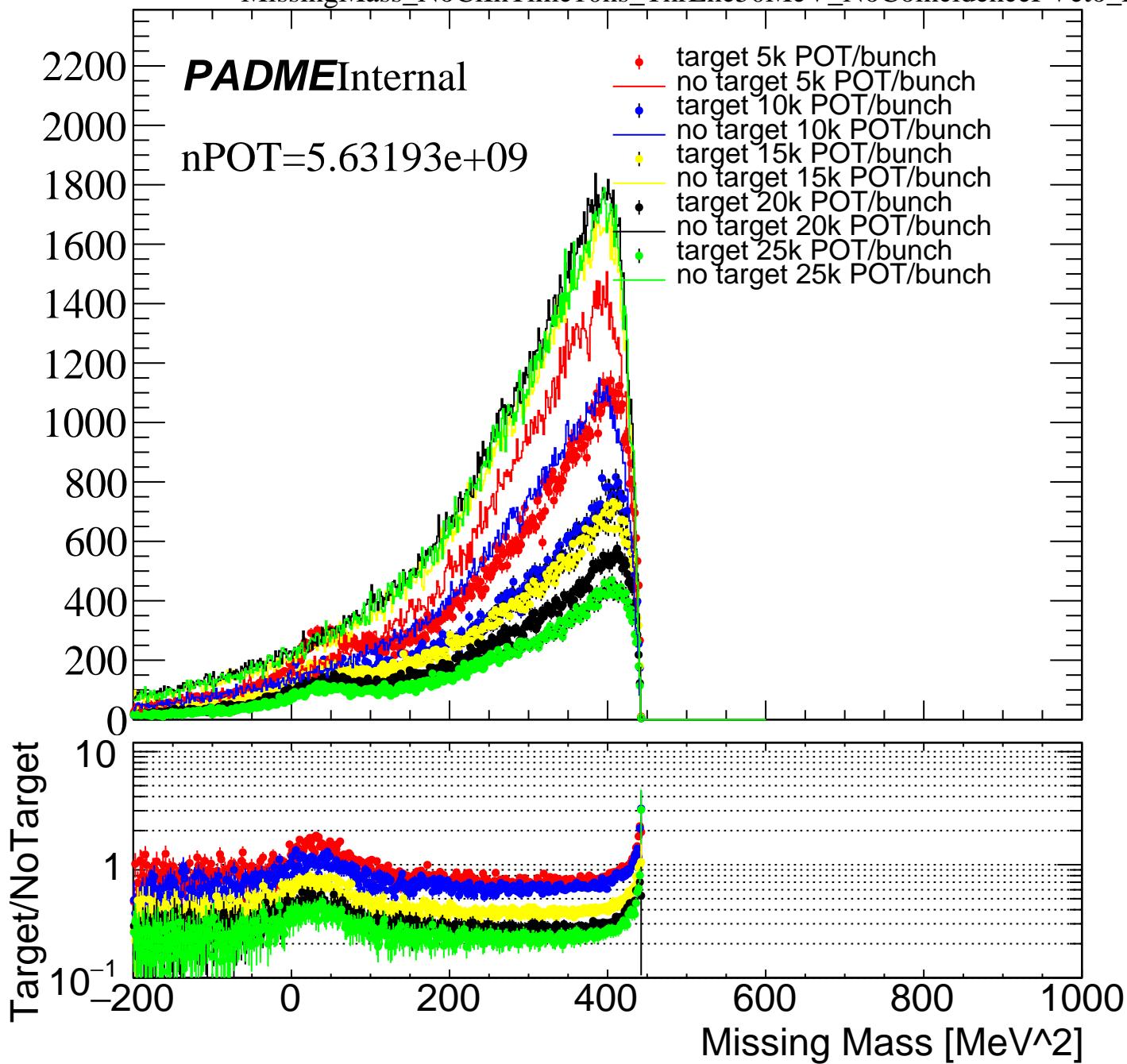
MissingMass\_NoClInTime20ns\_ThrEne50MeV\_NoCoincidencePVeto\_N



MissingMass\_NoClInTime10ns\_ThrEne50MeV\_NoCoincidencePVeto



MissingMass\_NoClInTime10ns\_ThrEne50MeV\_NoCoincidencePVeto\_N



MissingMass\_NoClInTime10ns\_ThrEne50MeV\_NoCoincidencePVeto\_N

