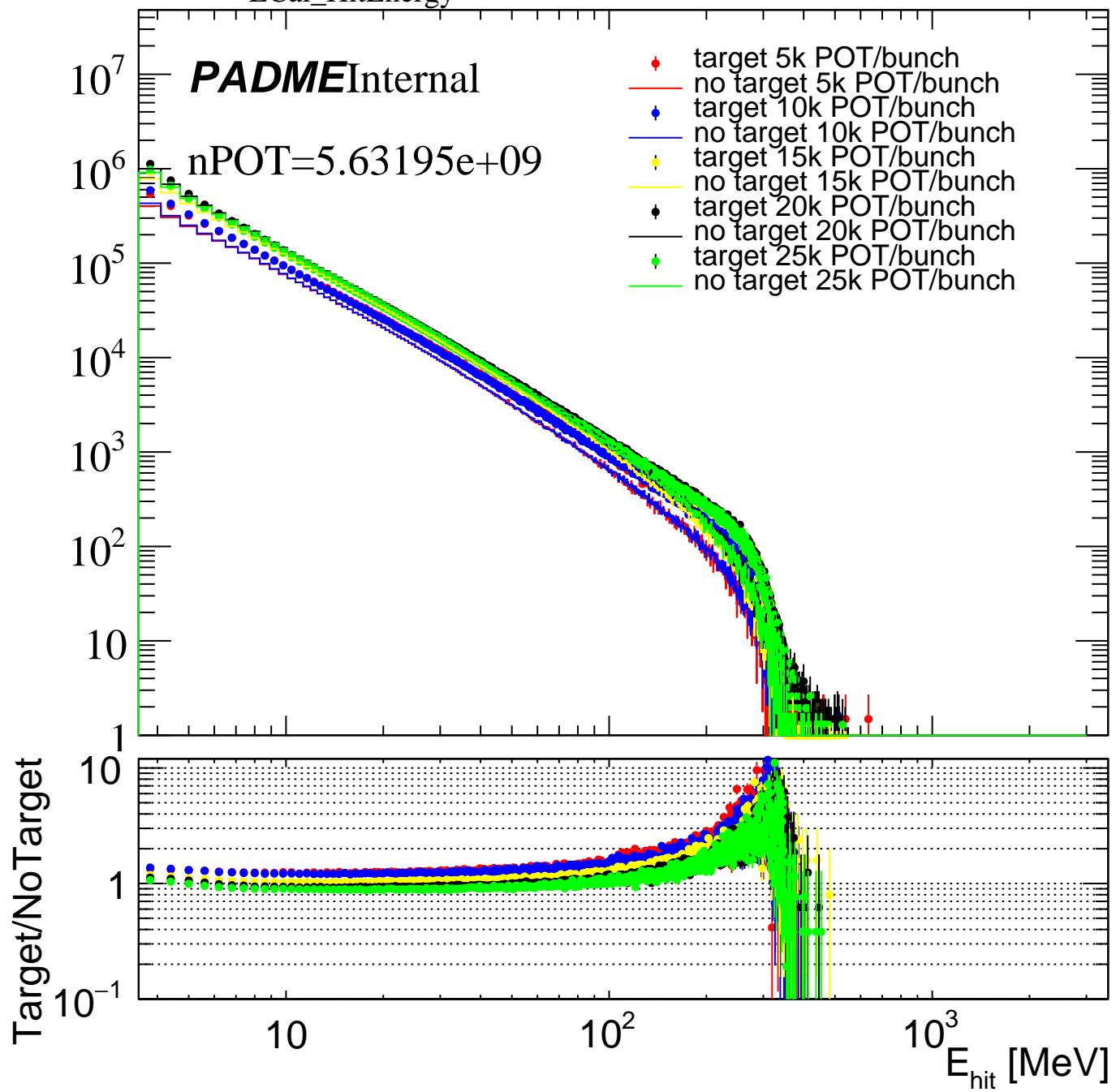


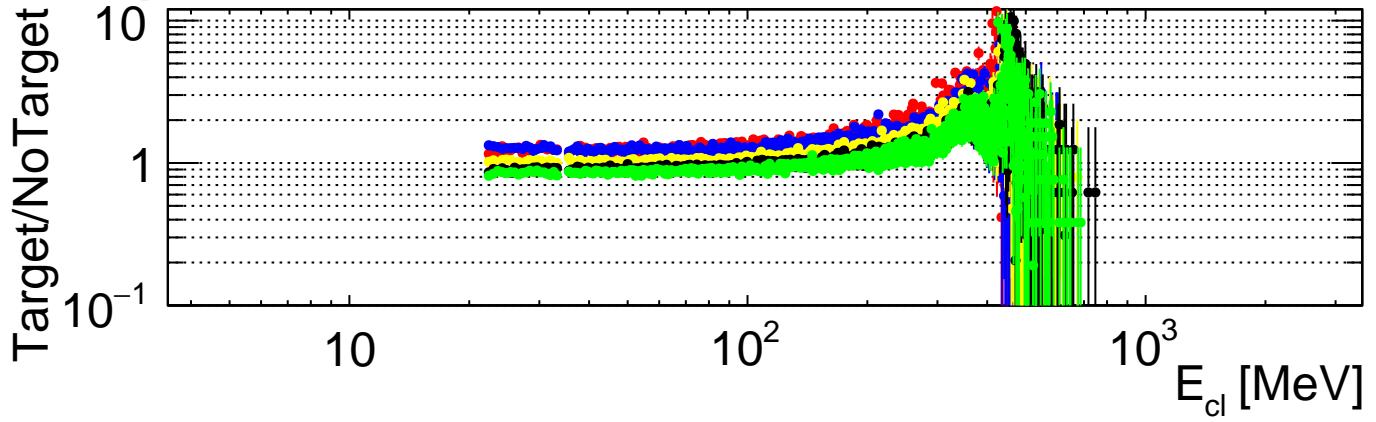
ECal_HitEnergy



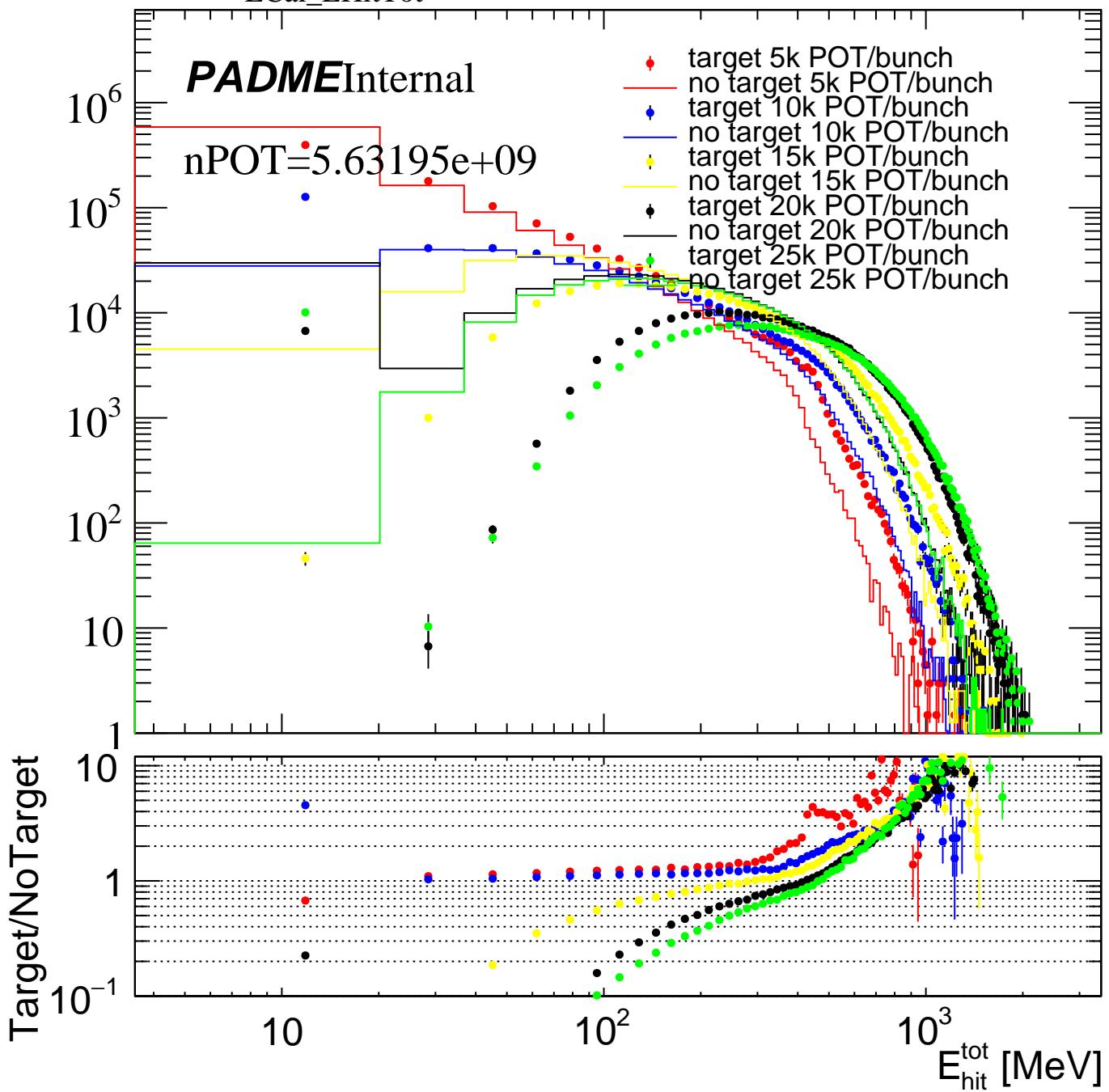
ECal_ClusterEnergy

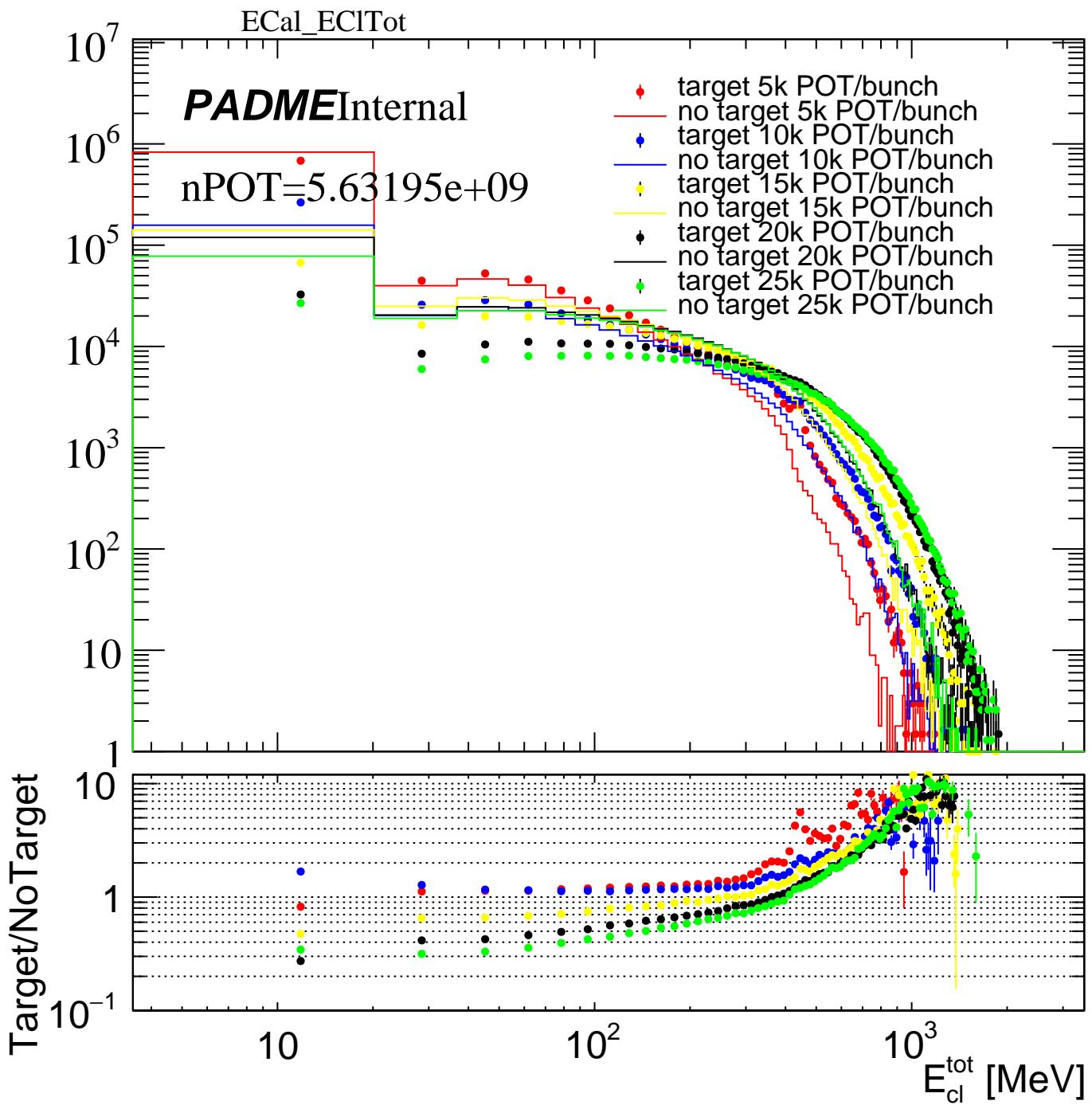
PADMEInternal $n\text{POT} = 5.63195 \times 10^9$

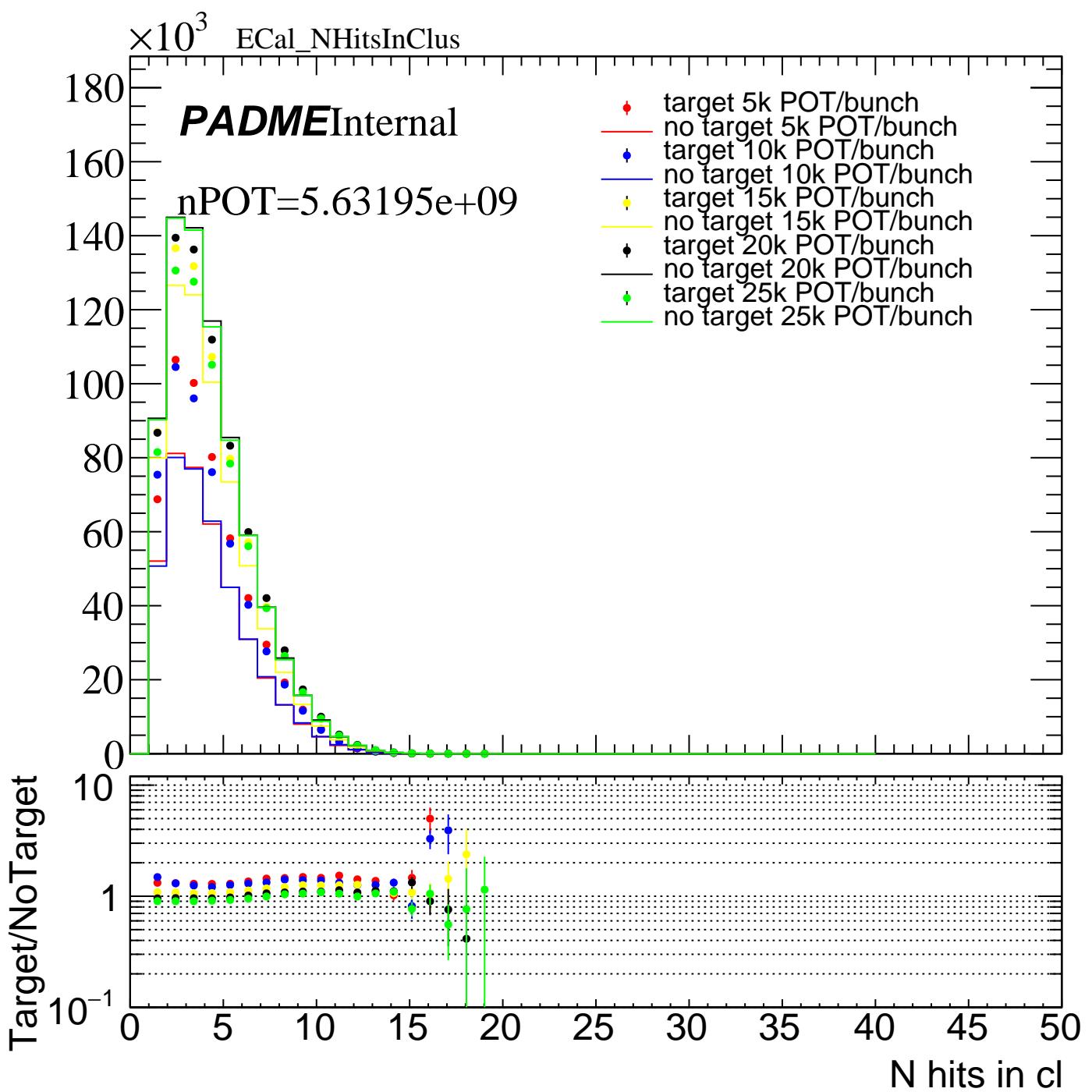
- target 5k POT/bunch
- no target 5k POT/bunch
- target 10k POT/bunch
- no target 10k POT/bunch
- target 15k POT/bunch
- no target 15k POT/bunch
- target 20k POT/bunch
- no target 20k POT/bunch
- target 25k POT/bunch
- no target 25k POT/bunch

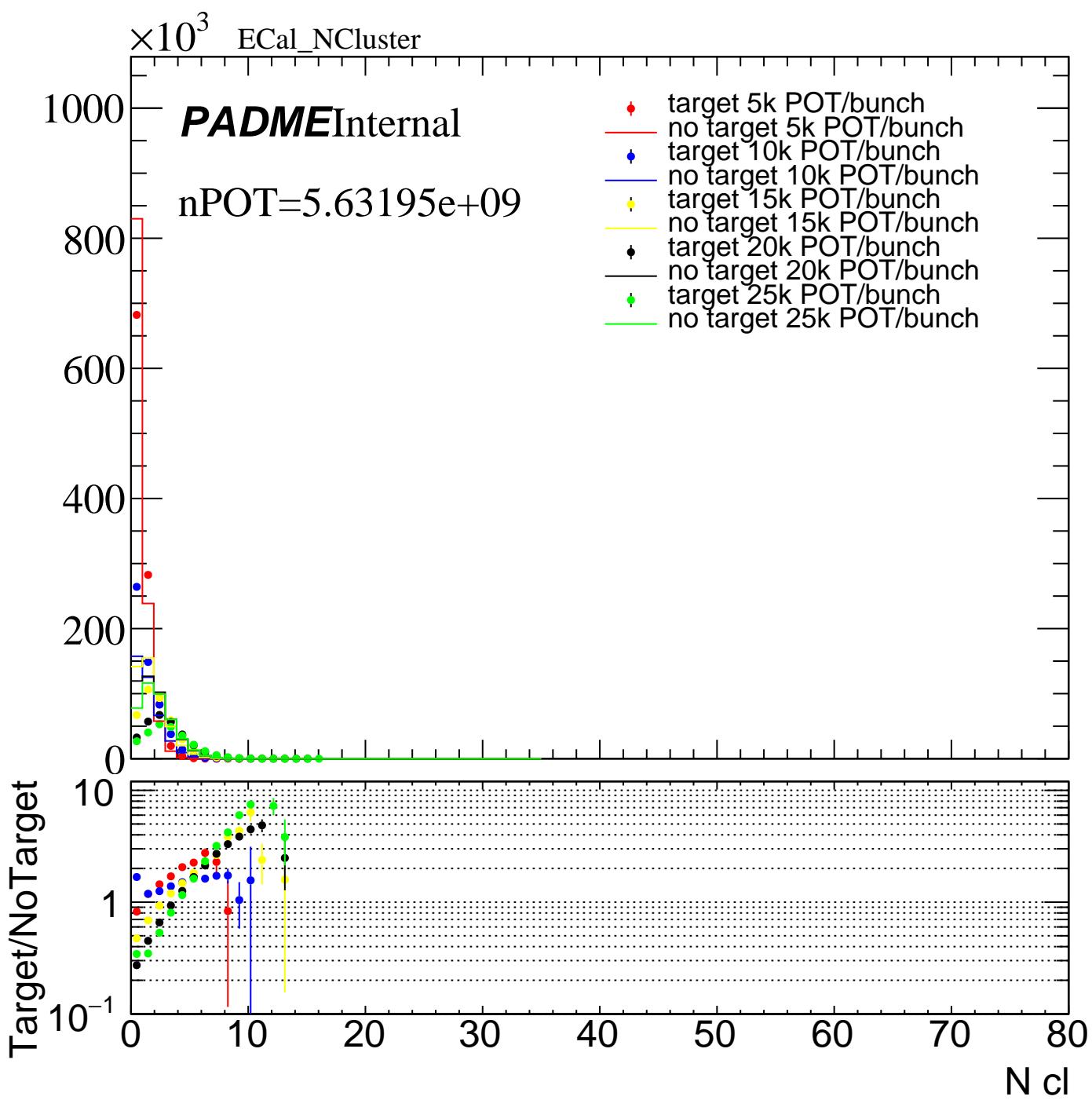


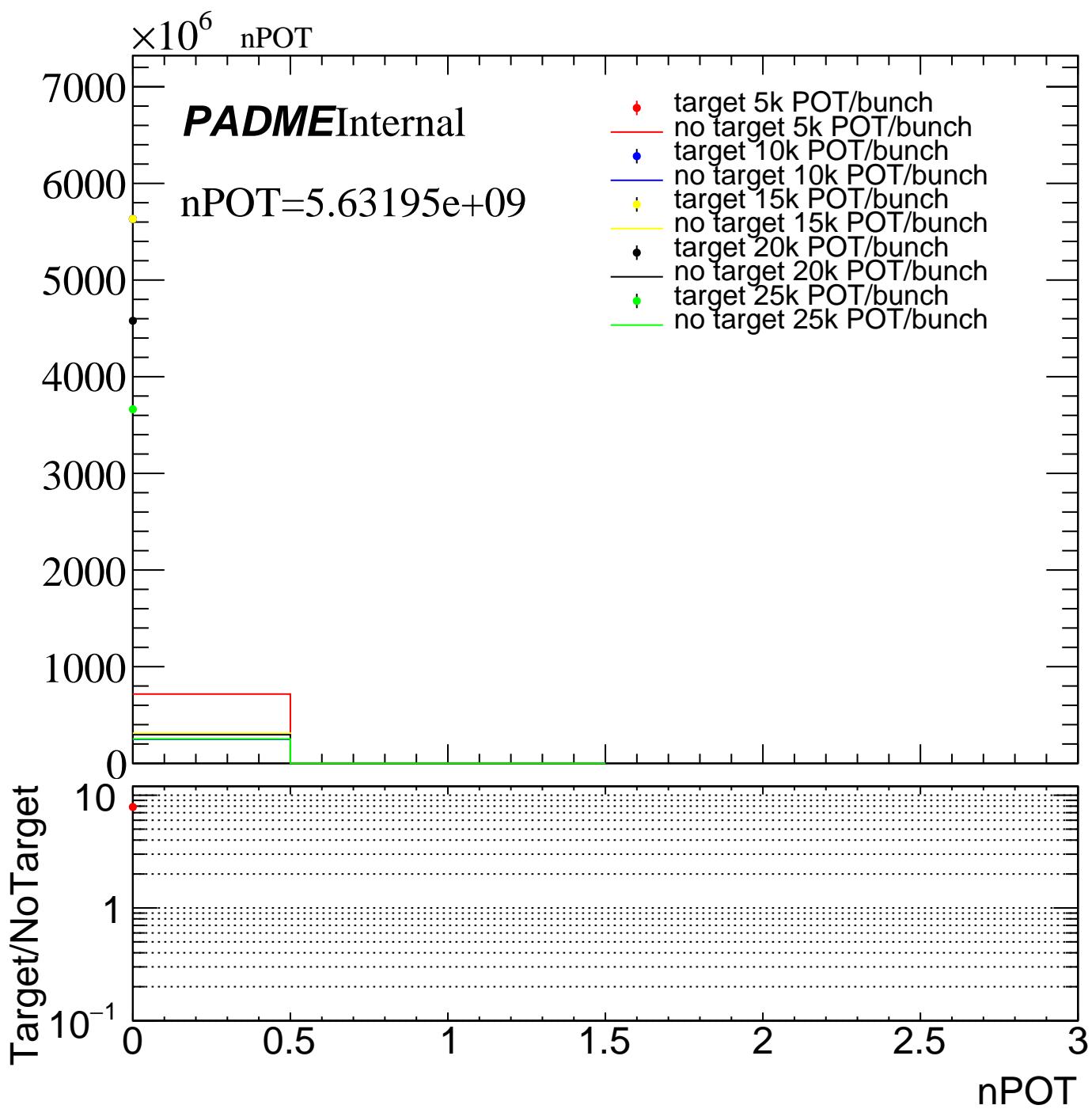
ECal_EHitTot

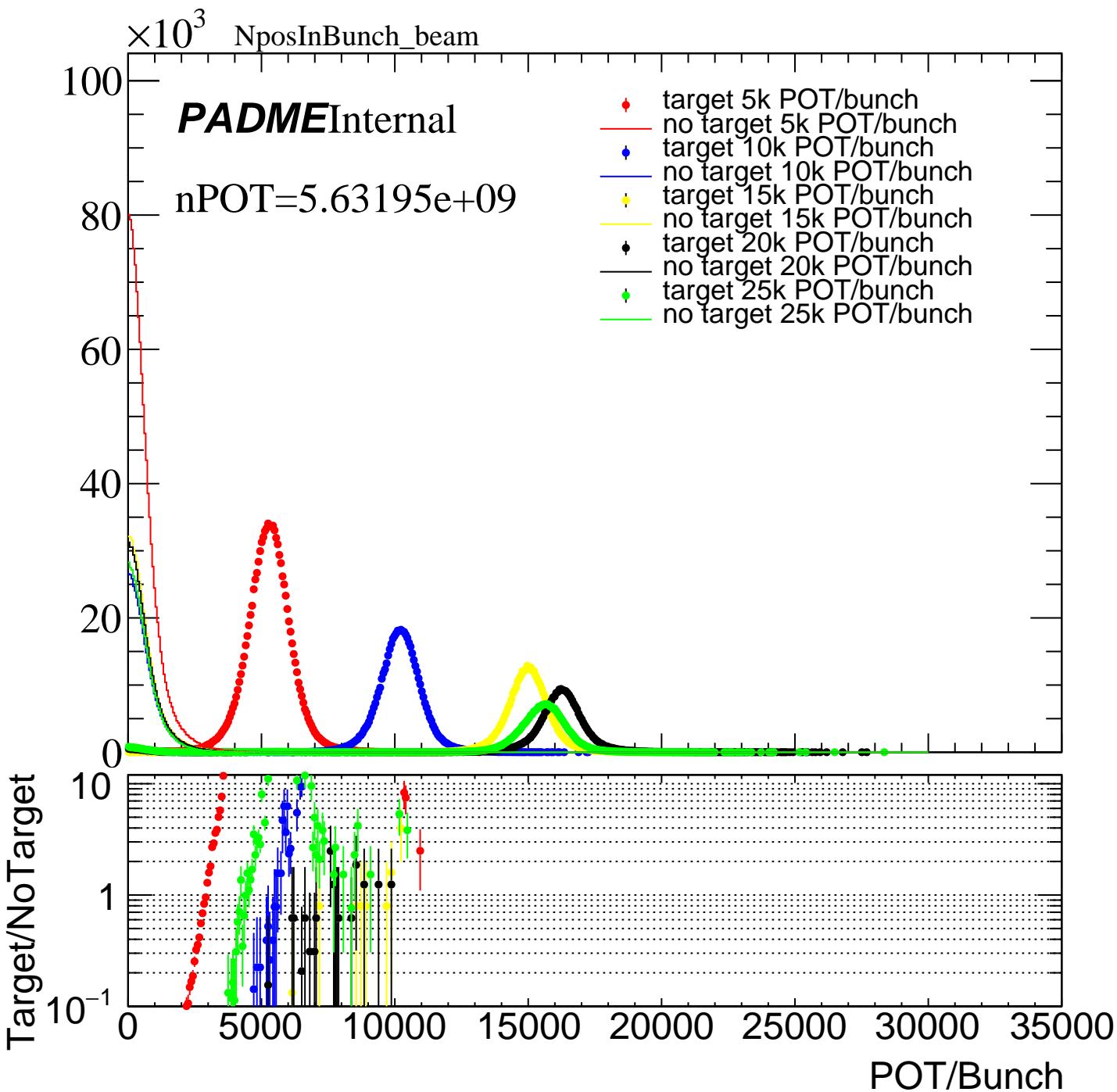




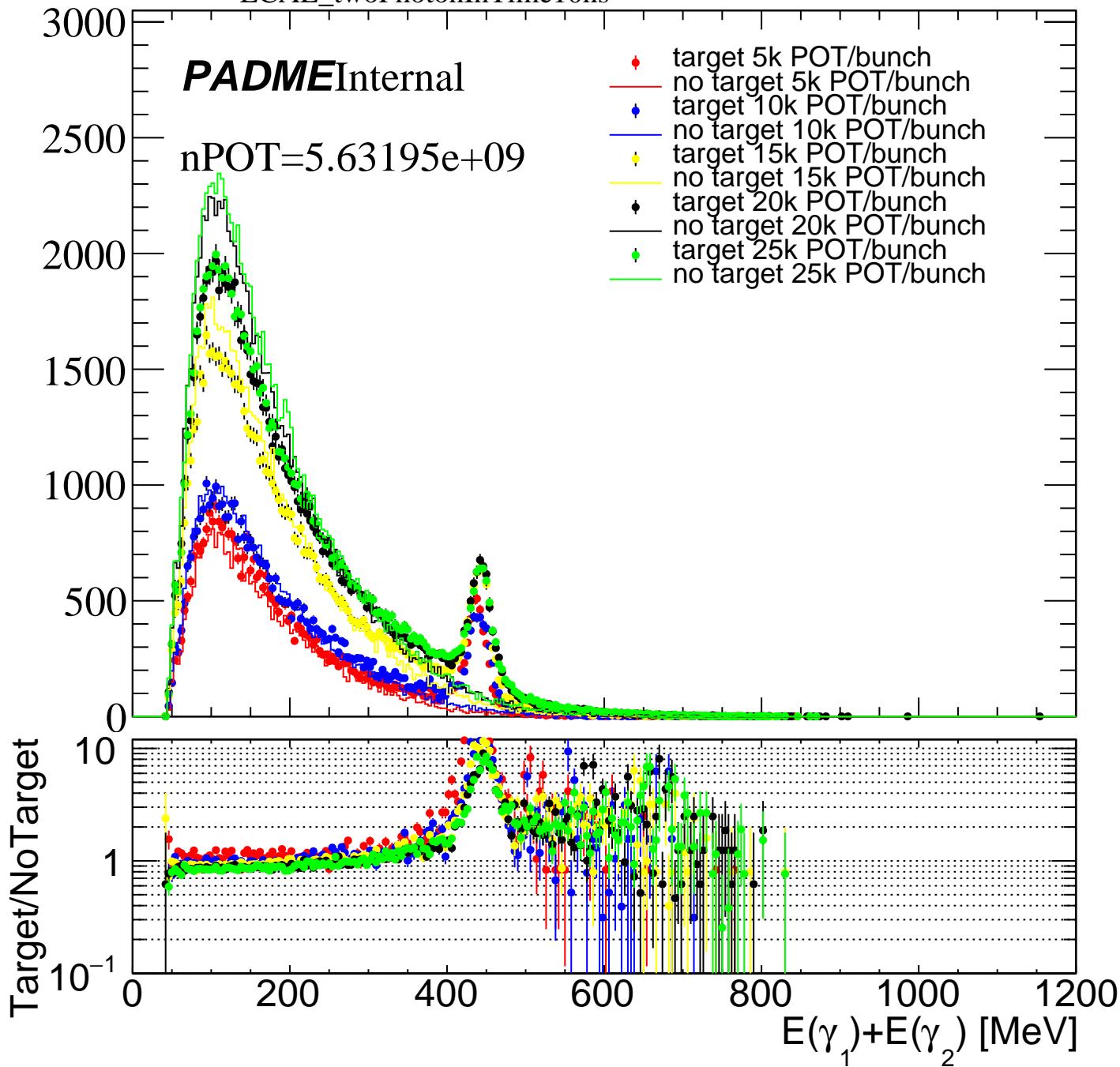




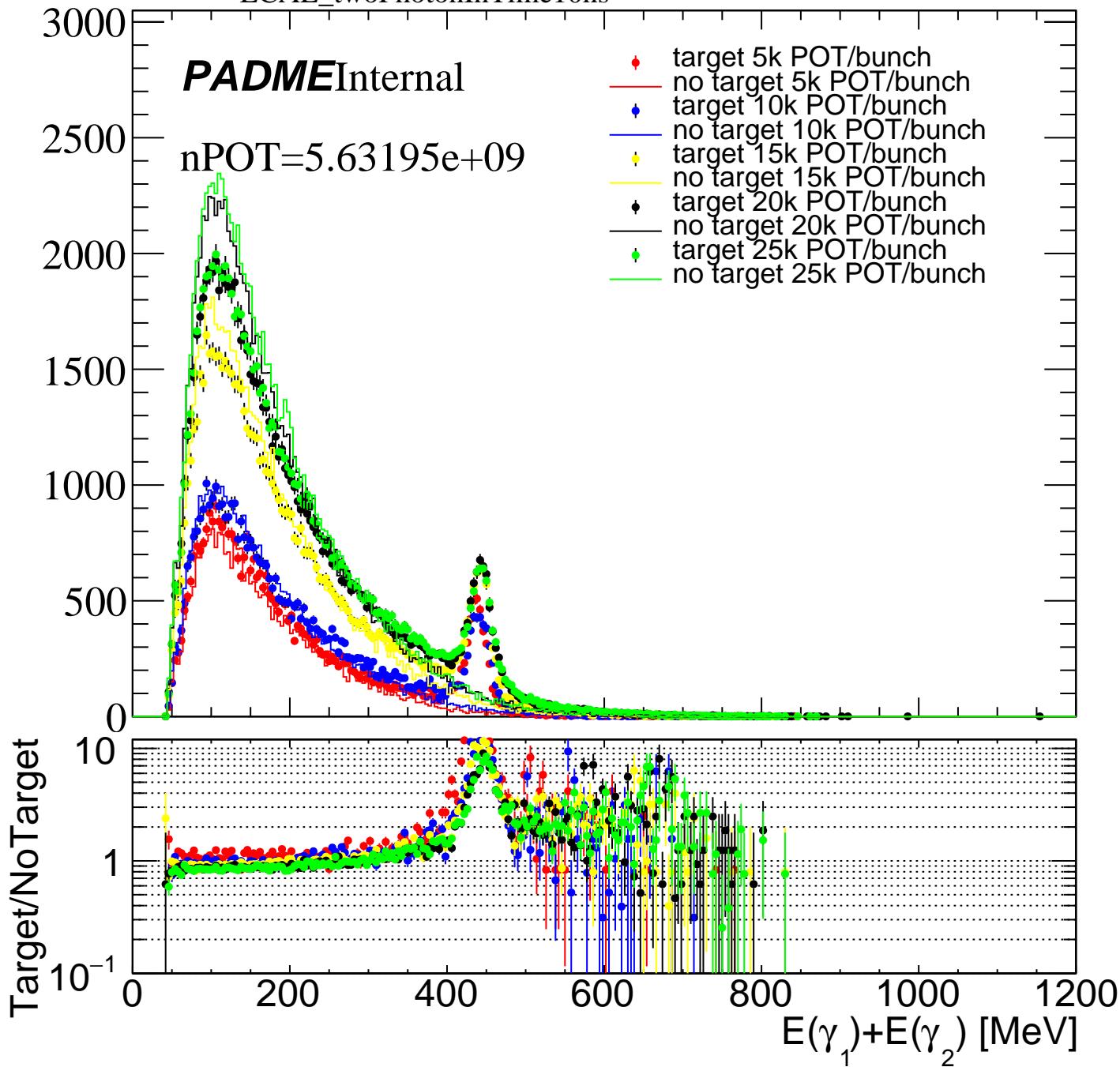




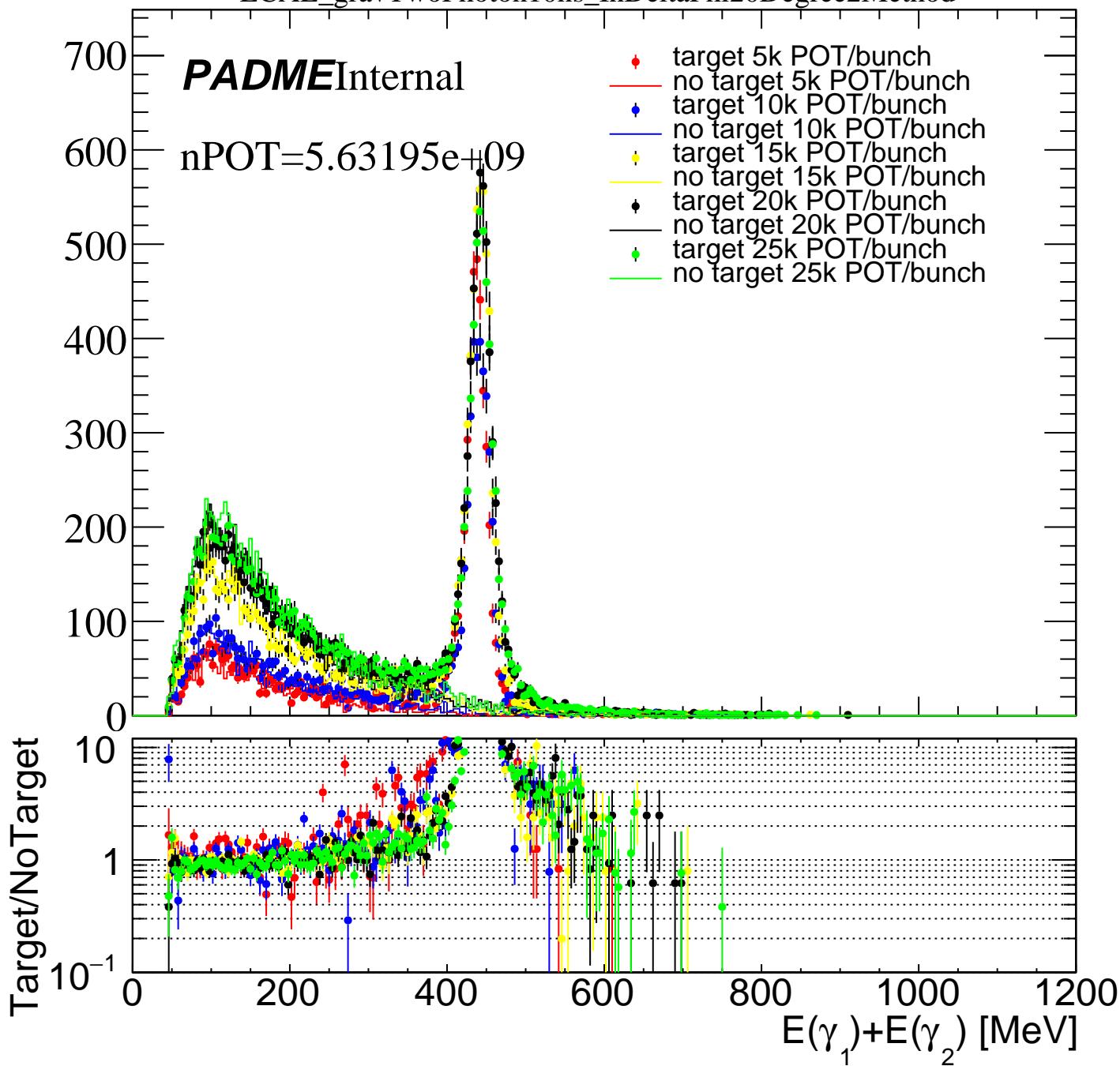
ECAL_twoPhotonInTime10ns



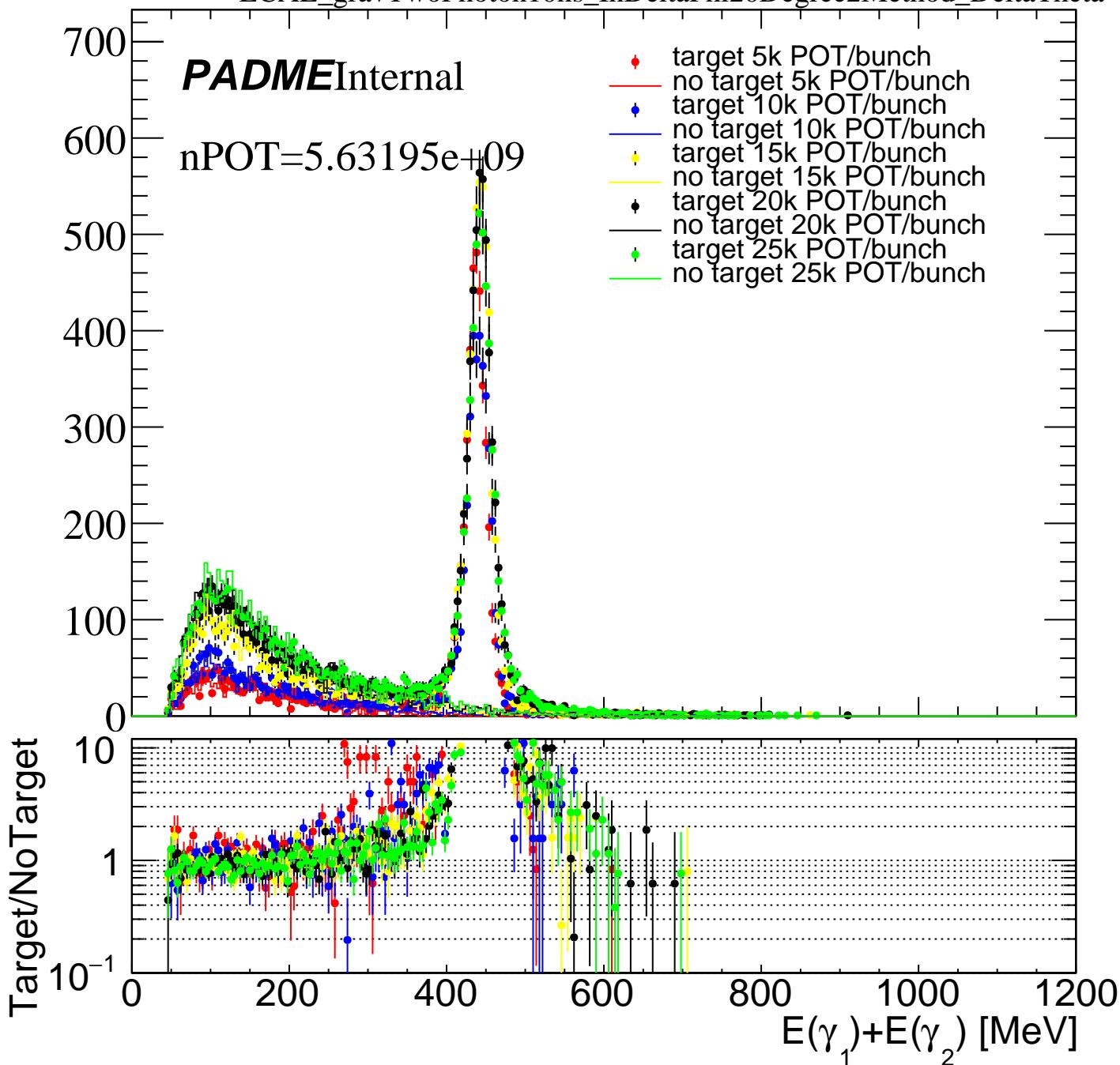
ECAL_twoPhotonInTime10ns



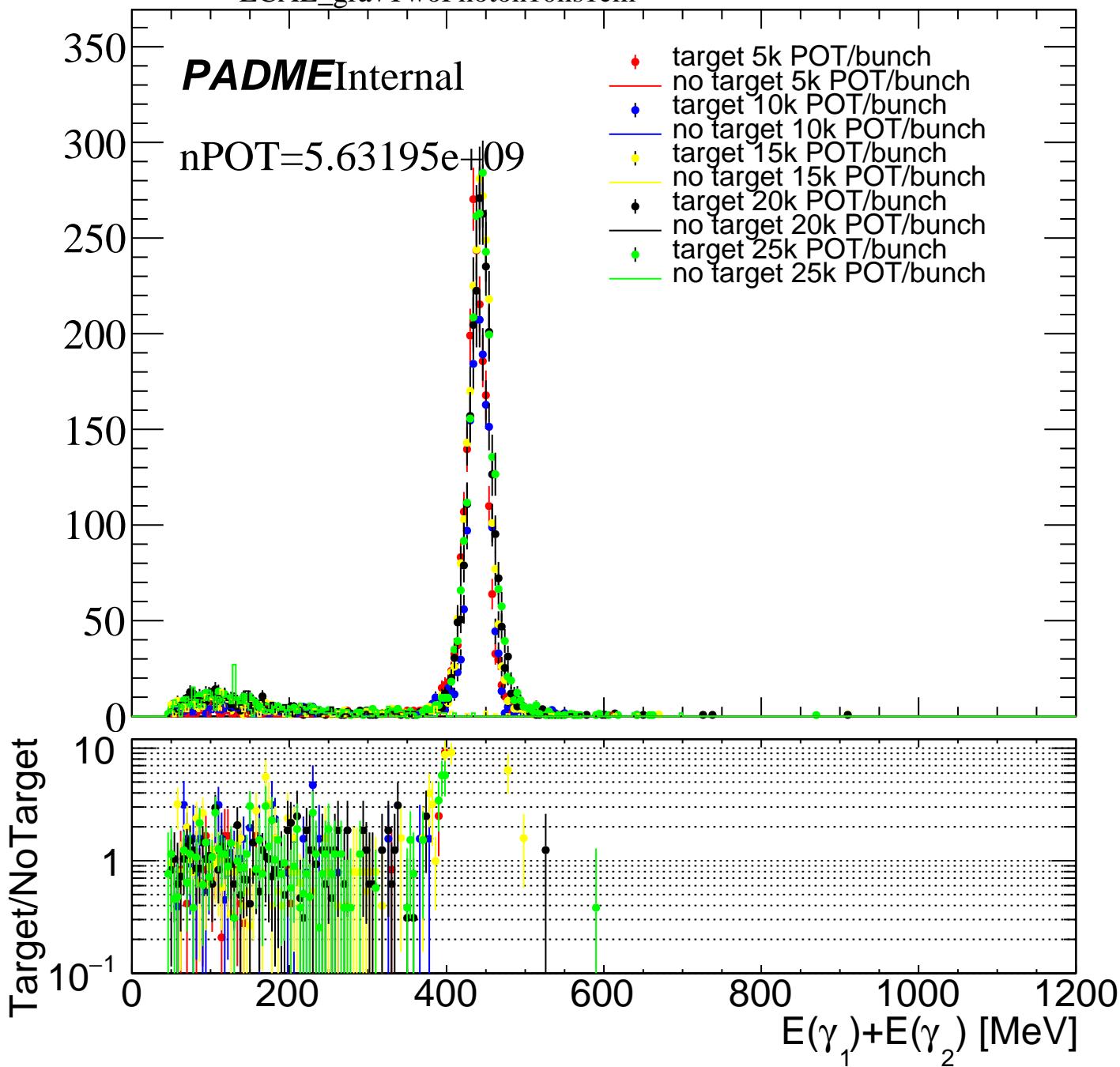
ECAL_gravTwoPhoton10ns_InDeltaPhi20Degree2Method



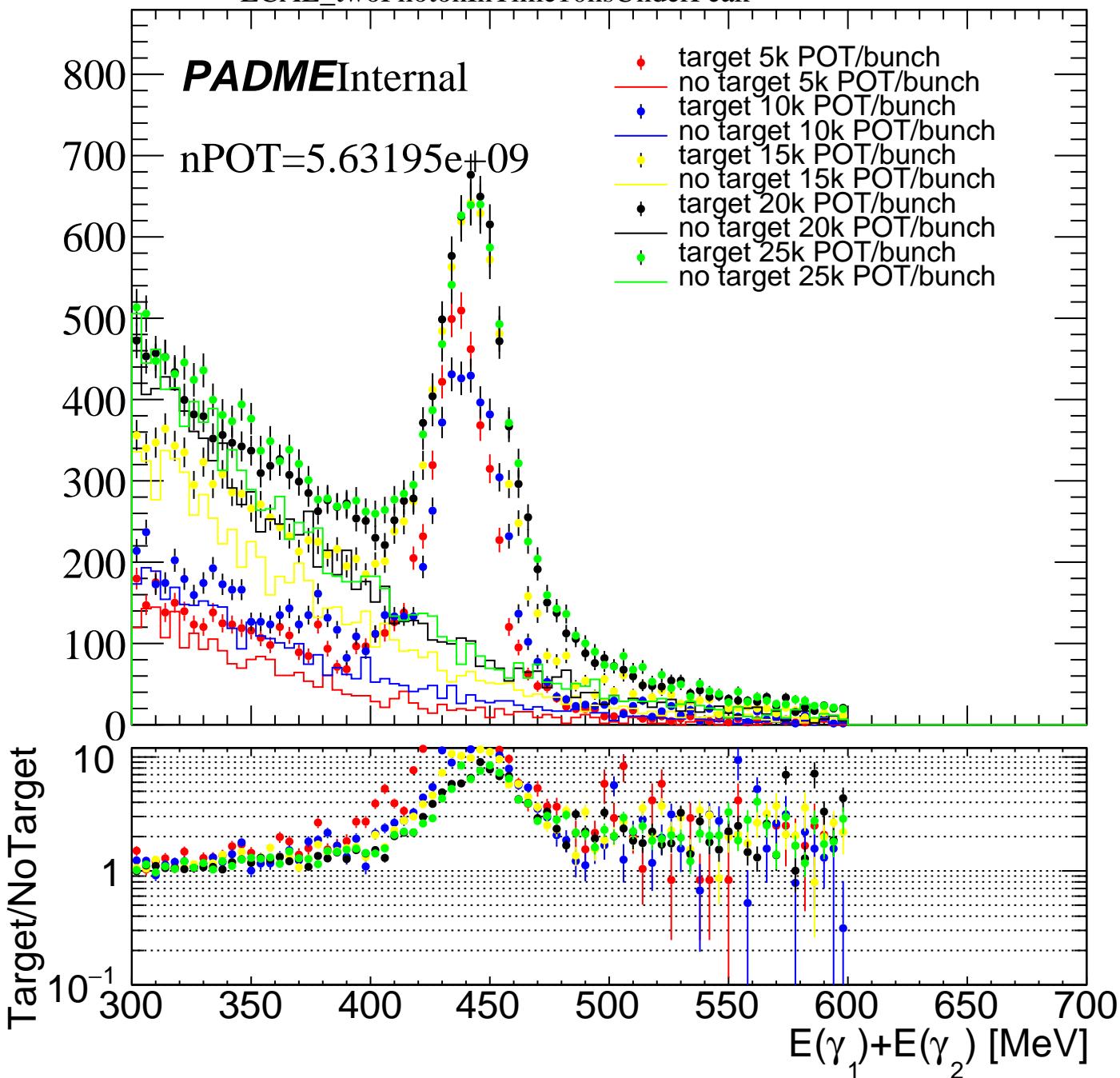
ECAL_gravTwoPhoton10ns_InDeltaPhi20Degree2Method_DeltaTheta



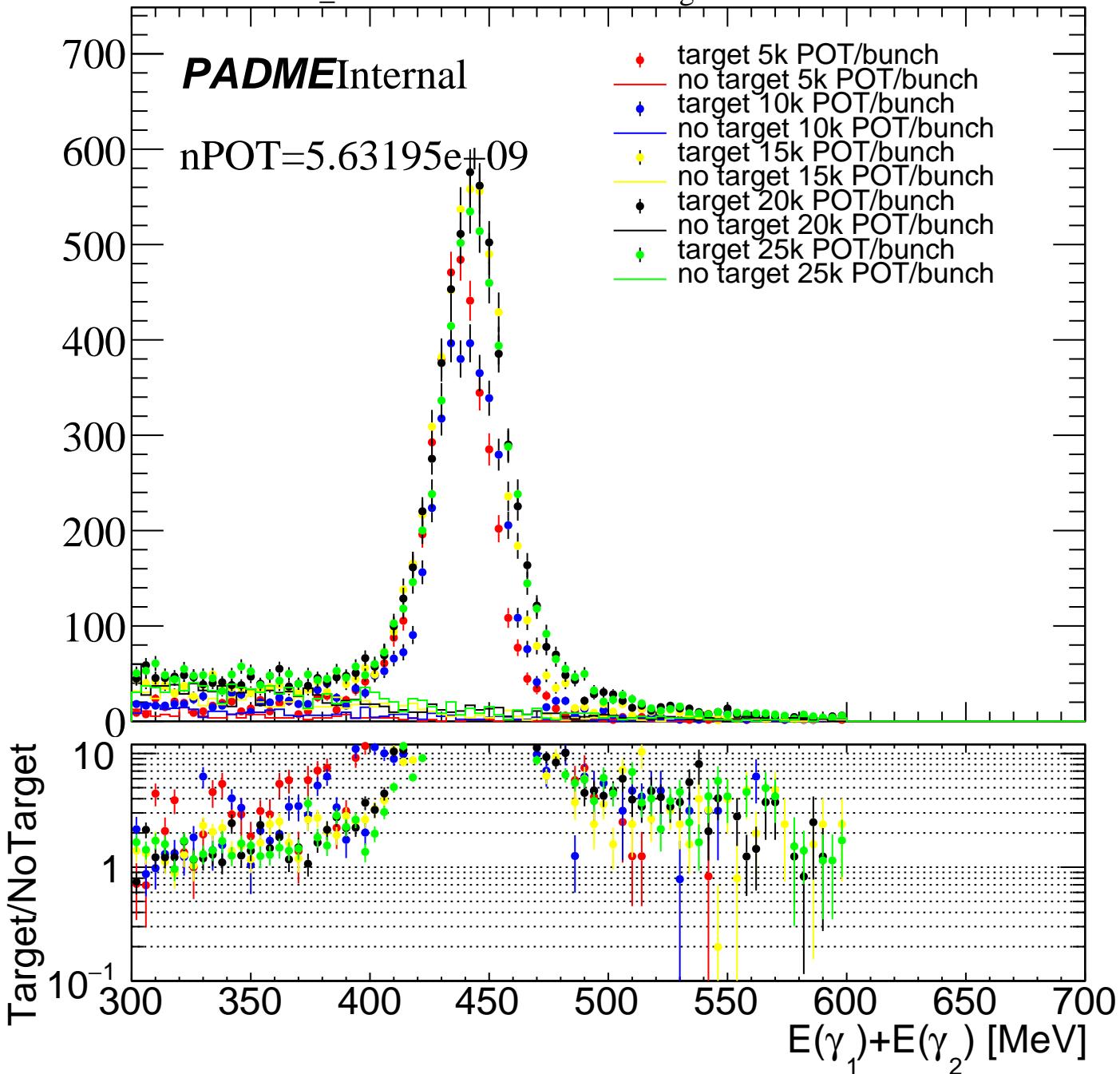
ECAL_gravTwoPhoton10ns1cm



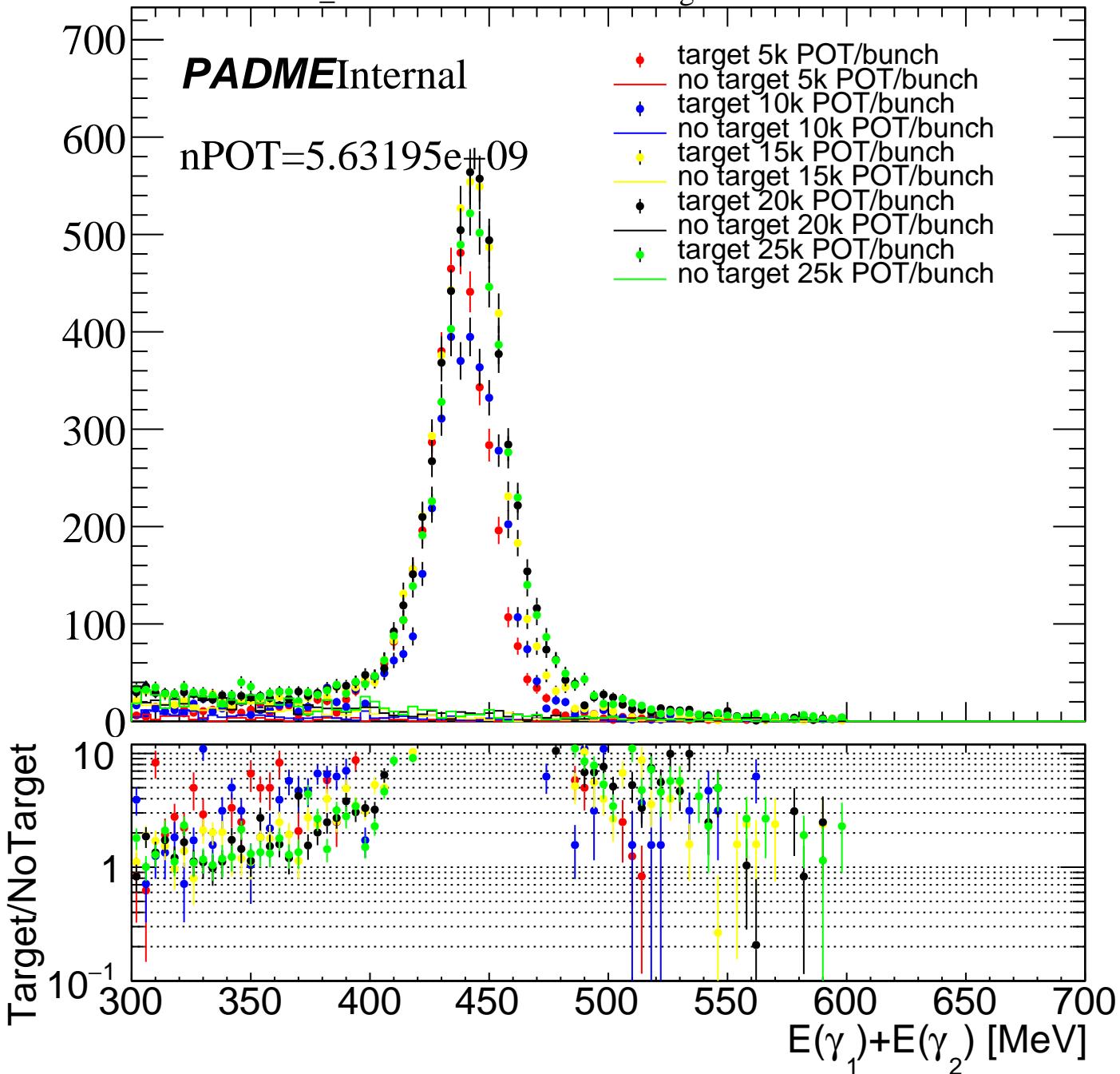
ECAL_twoPhotonInTime10nsUnderPeak



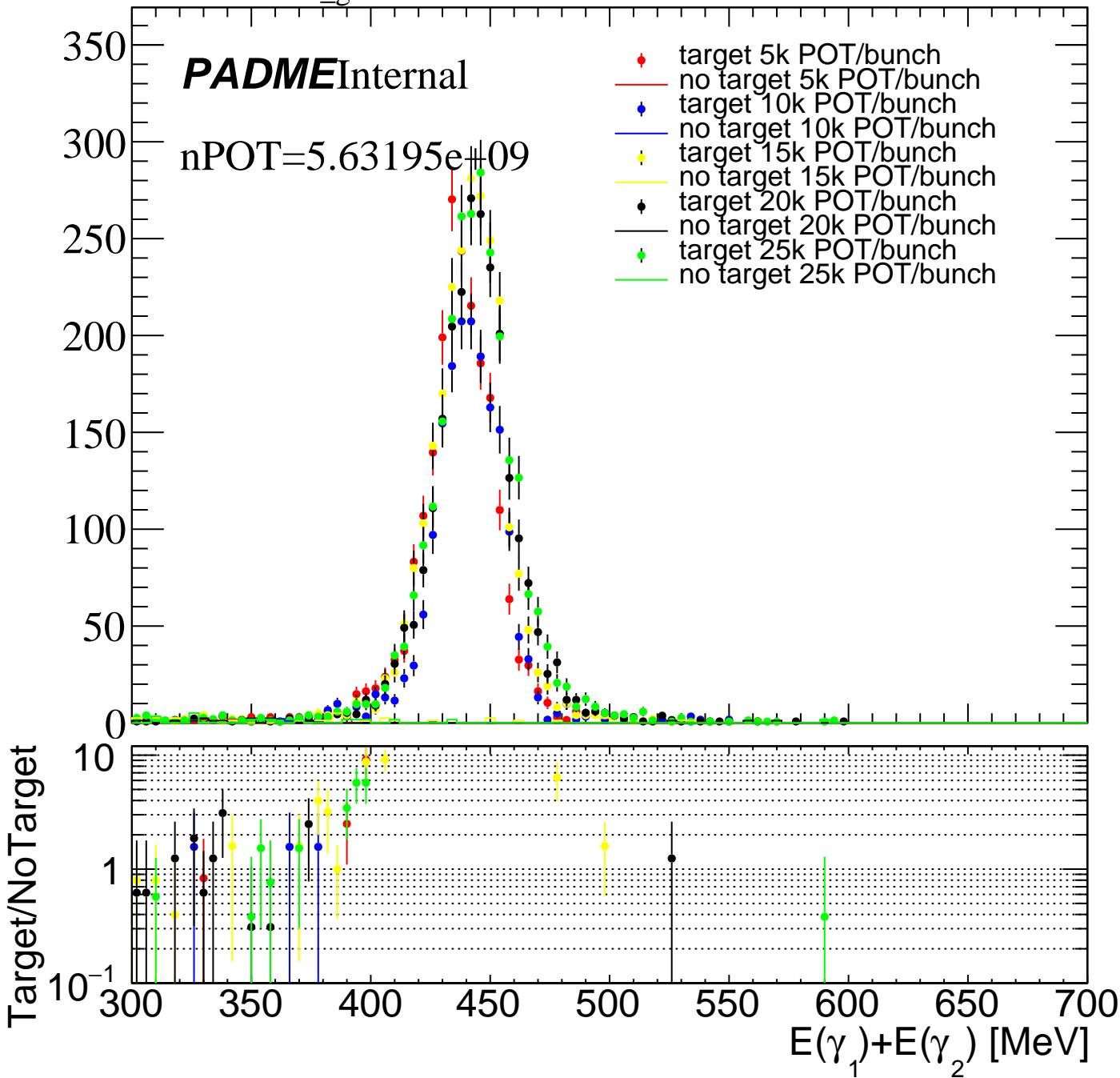
ECAL_twoPhotonInTime10ns20DegreeUnderPeak



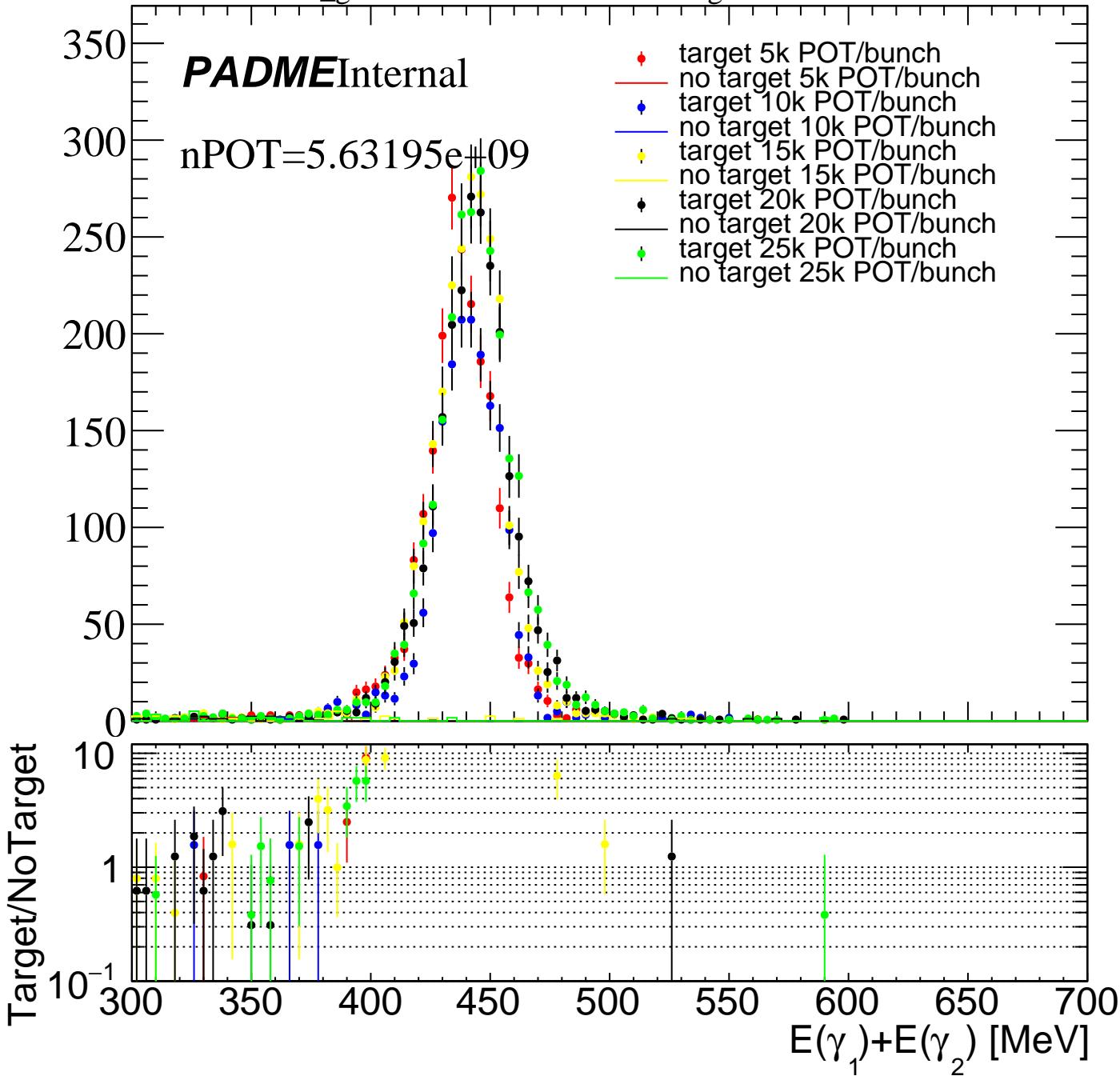
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaUnderPeak



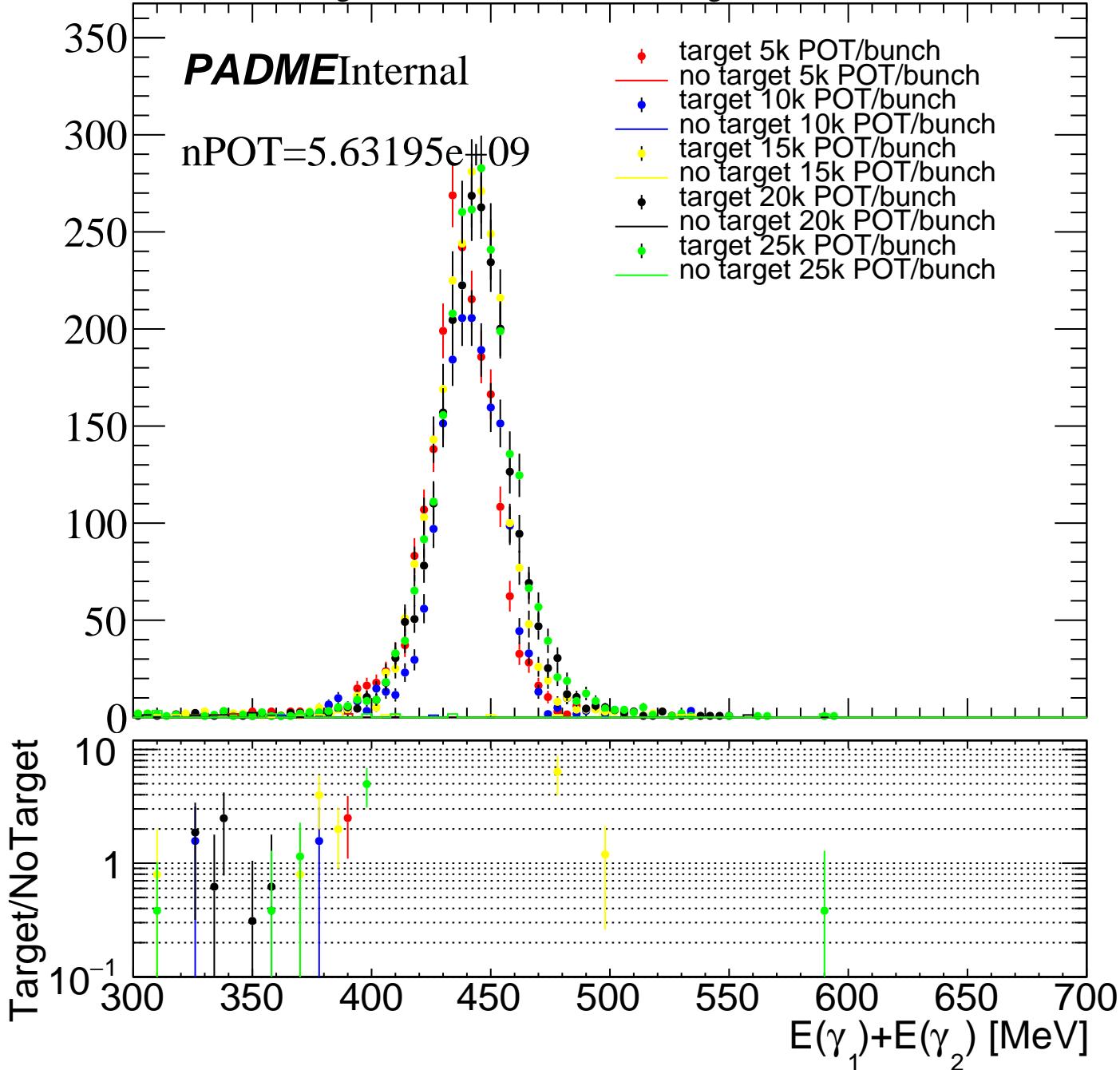
ECAL_gravTwoPhoton10ns1cmUnderPeak



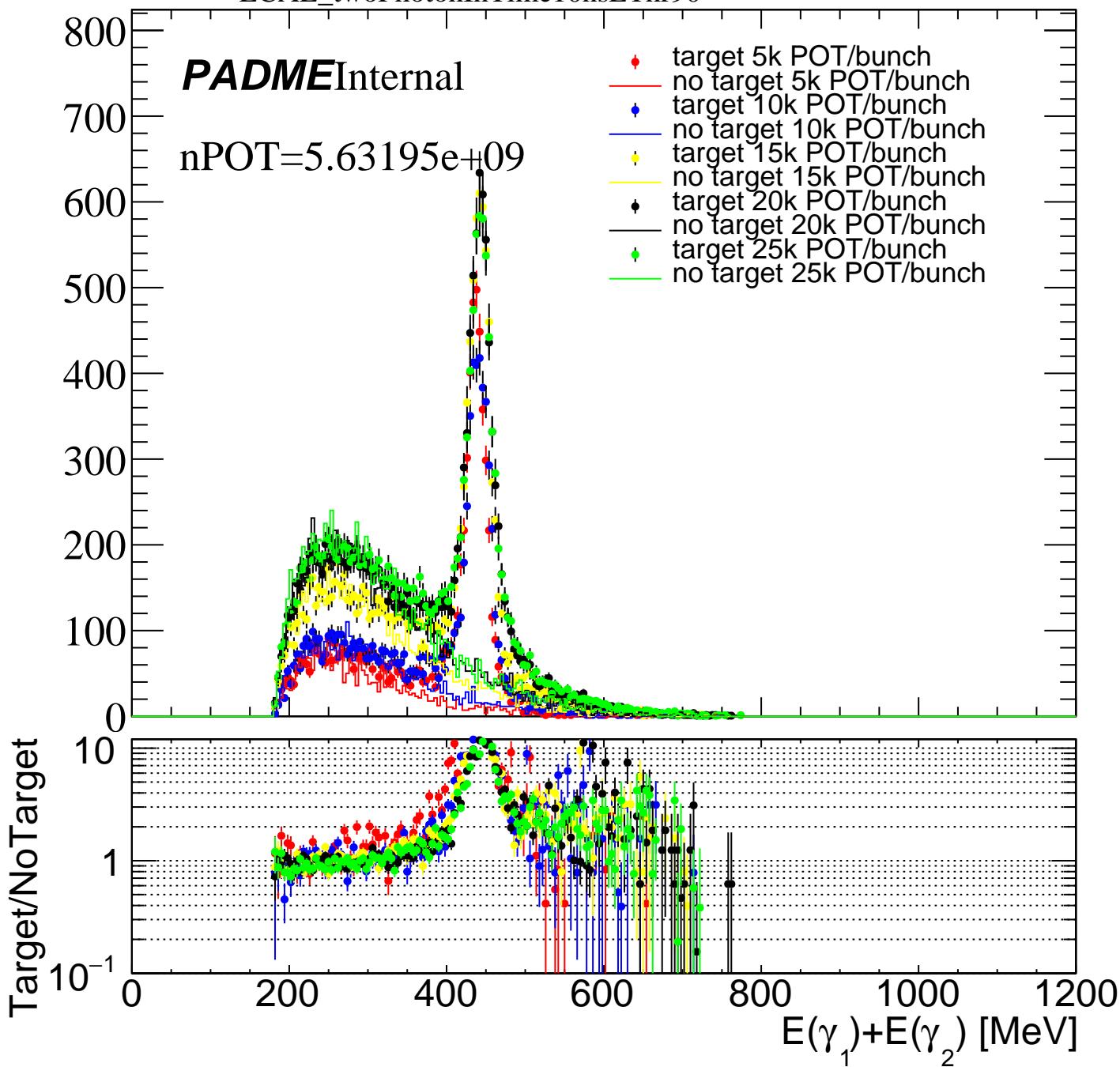
ECAL_gravTwoPhoton10ns1cm20DegreeUnderPeak



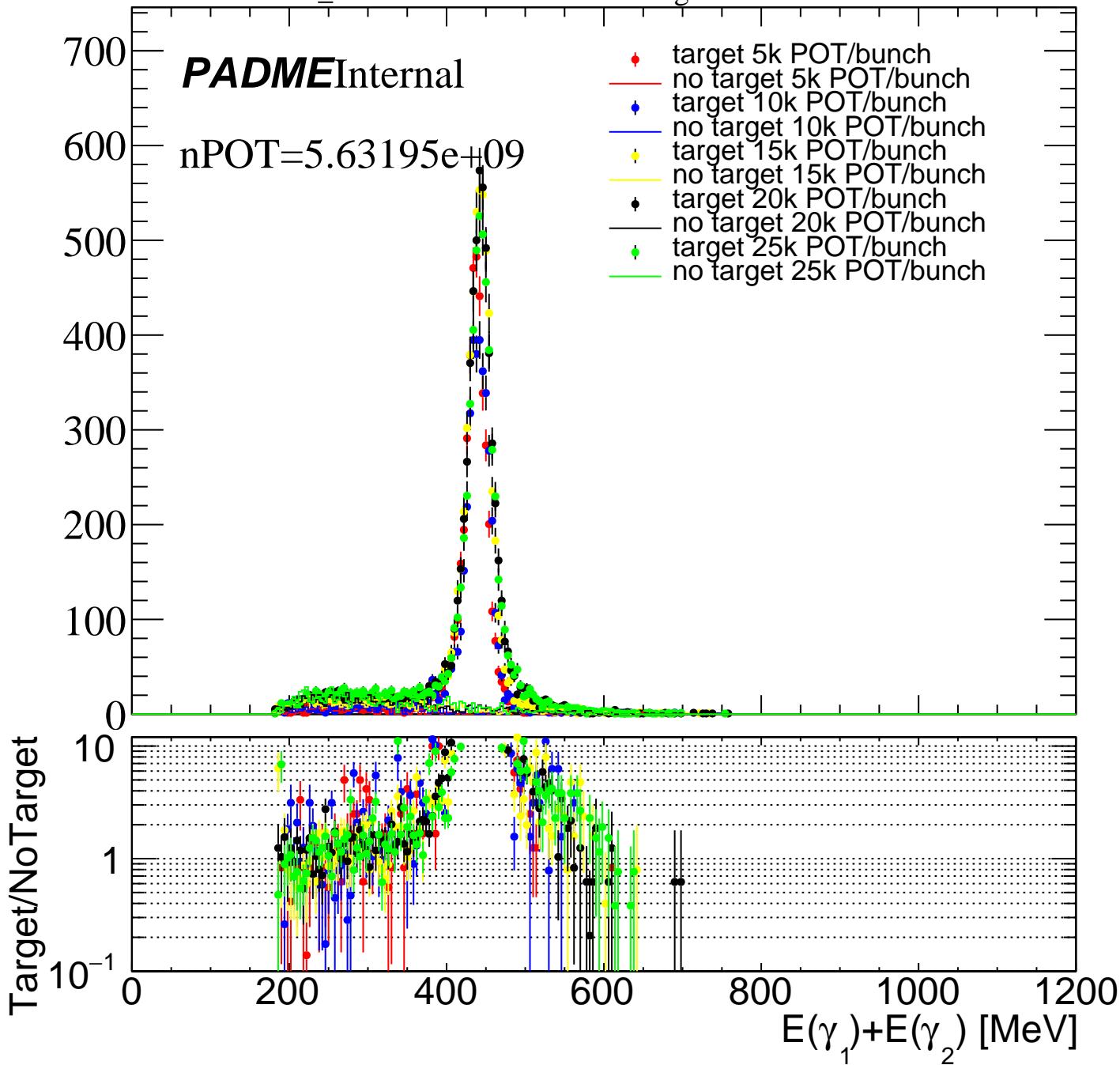
ECAL_gravTwoPhoton10ns1cm20DegreeDeltaThetaUnderPeak



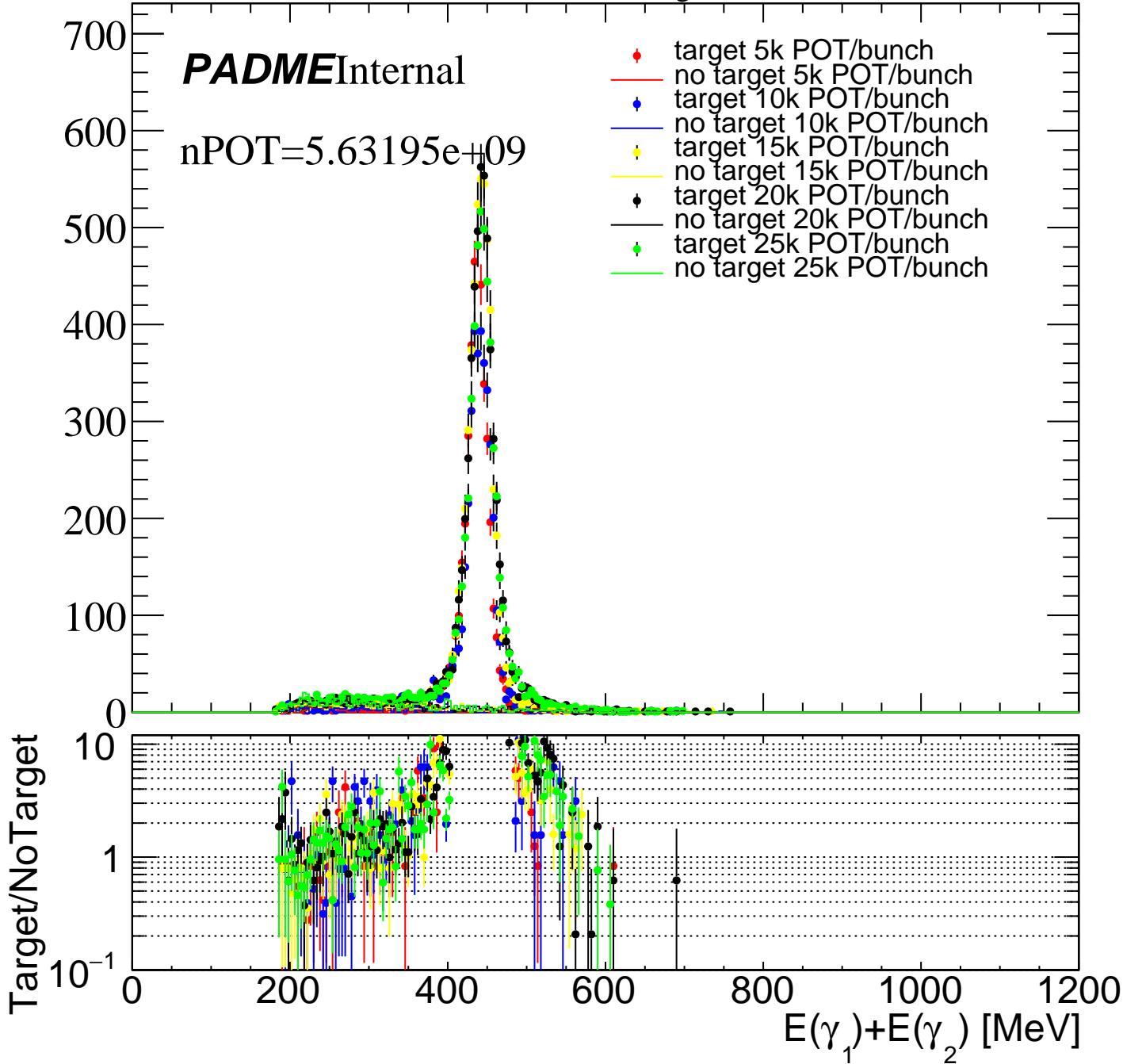
ECAL_twoPhotonInTime10nsEThr90



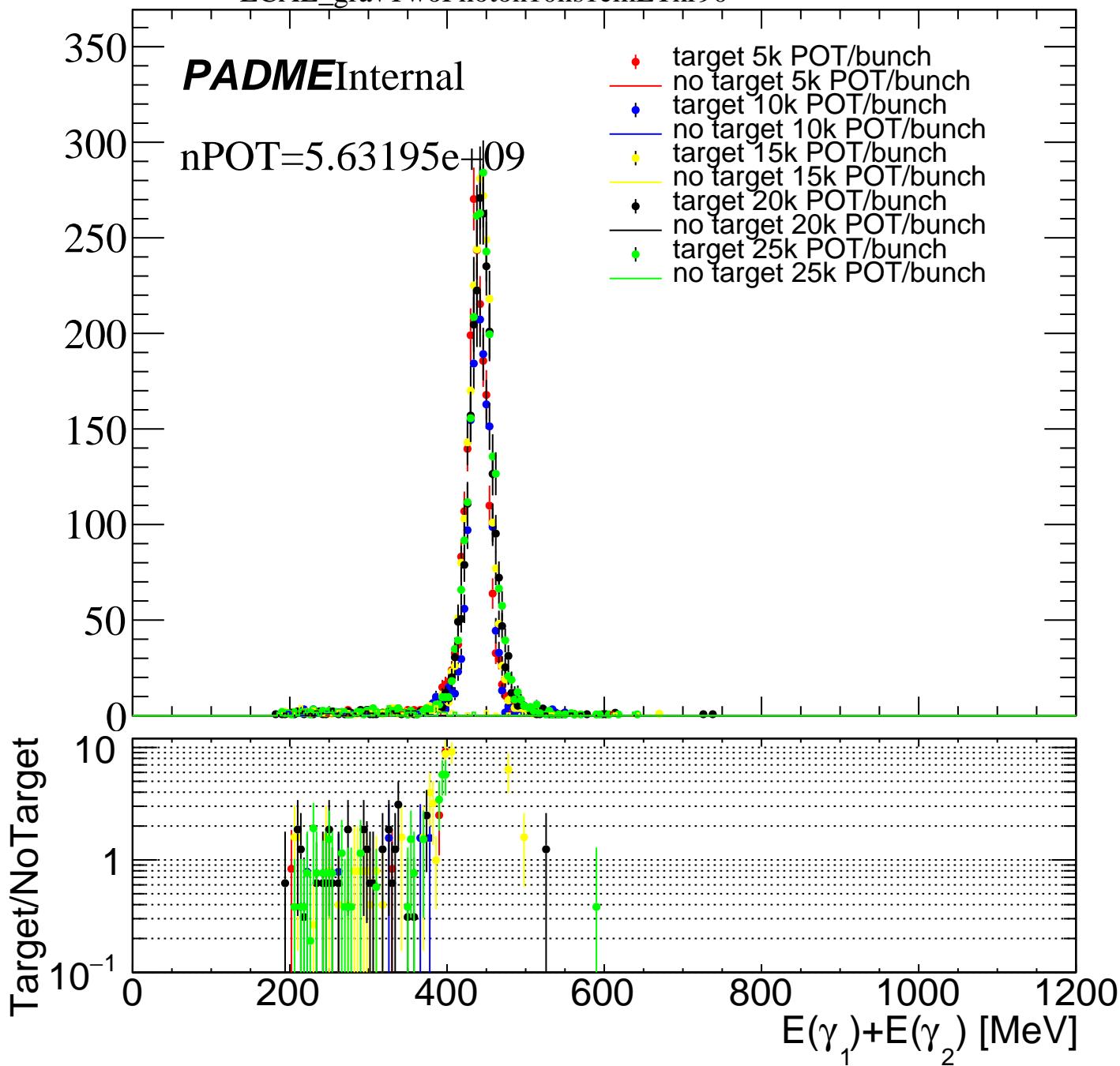
ECAL_twoPhotonInTime10ns20DegreeEThr90



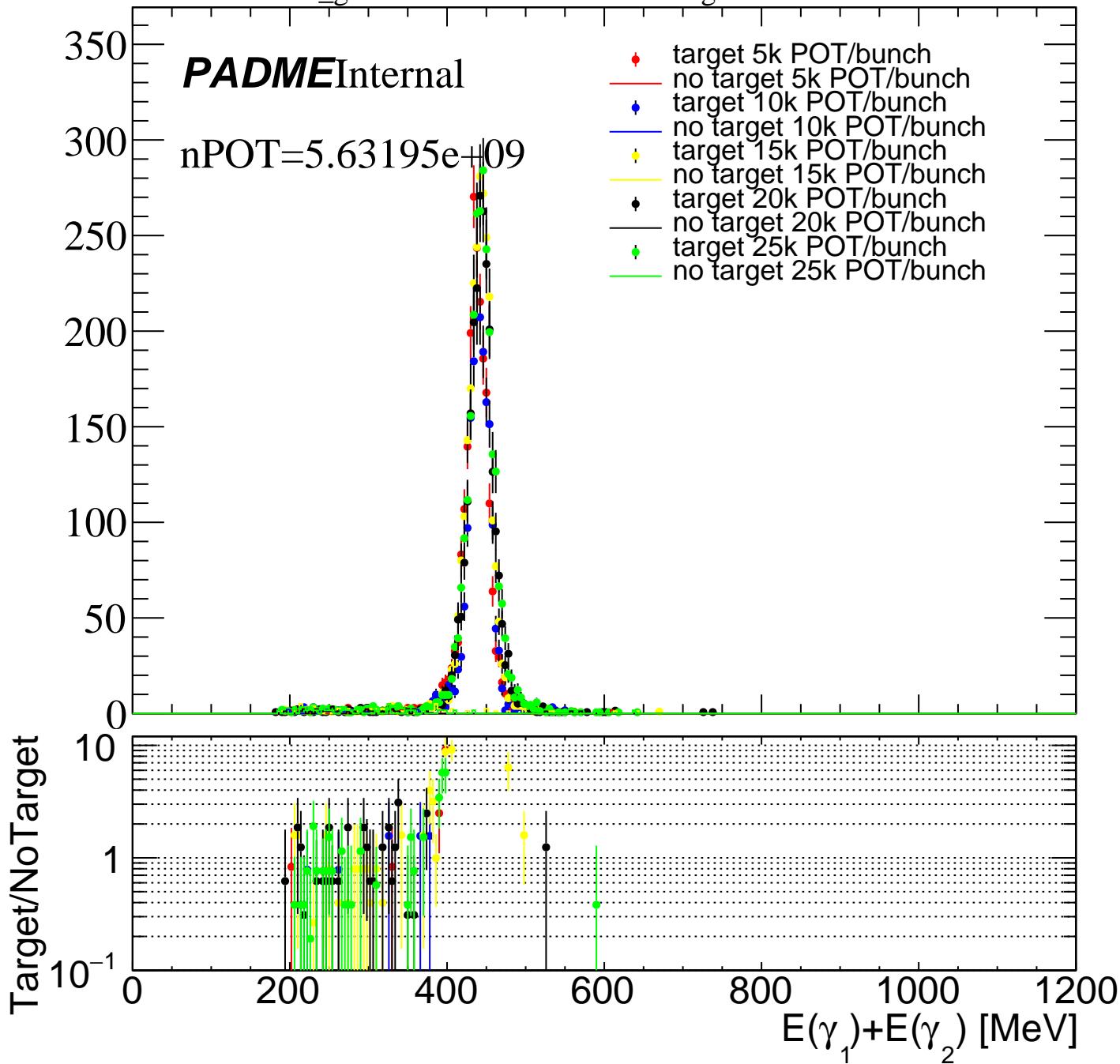
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaEThr90



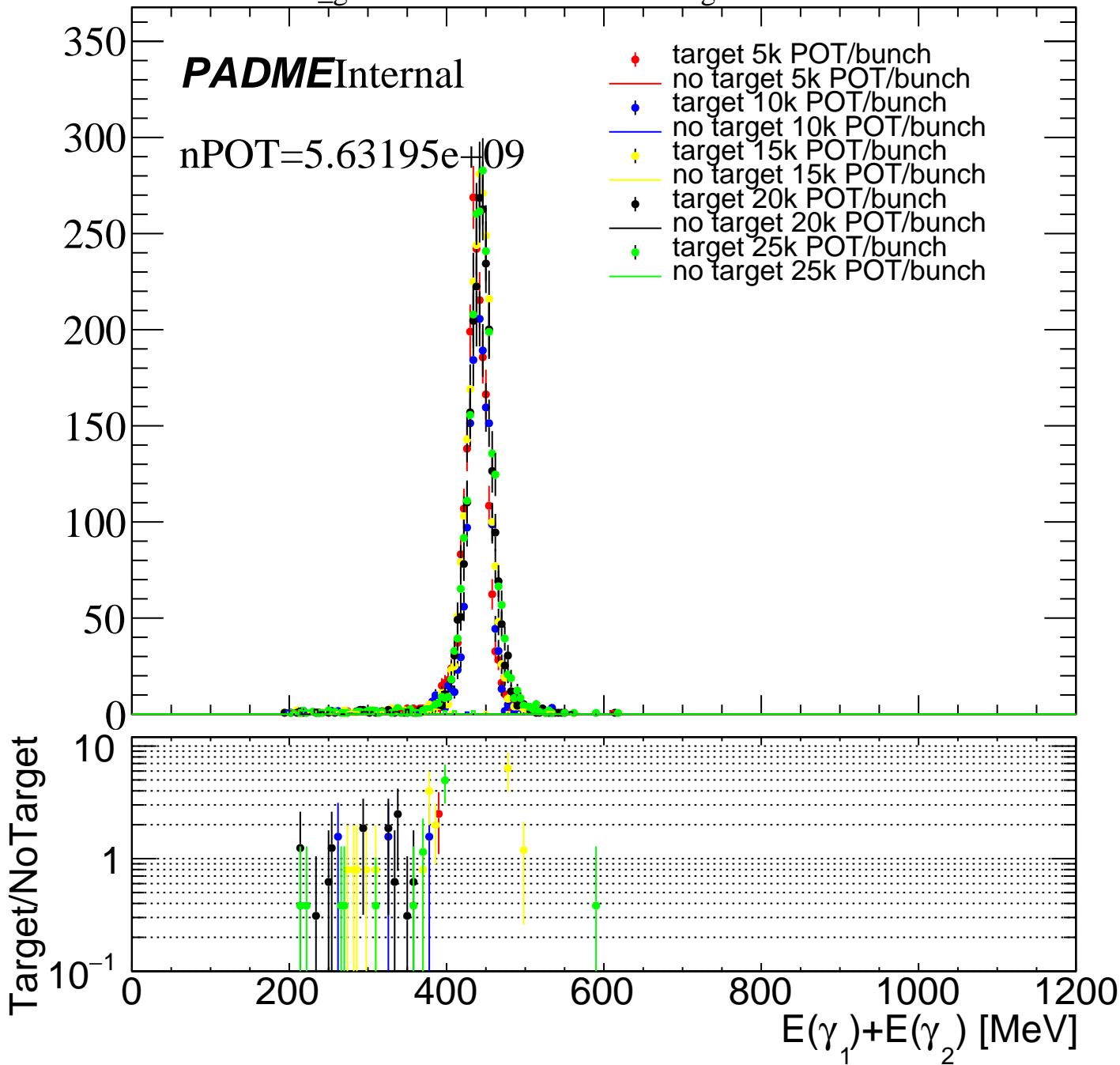
ECAL_gravTwoPhoton10ns1cmEThr90



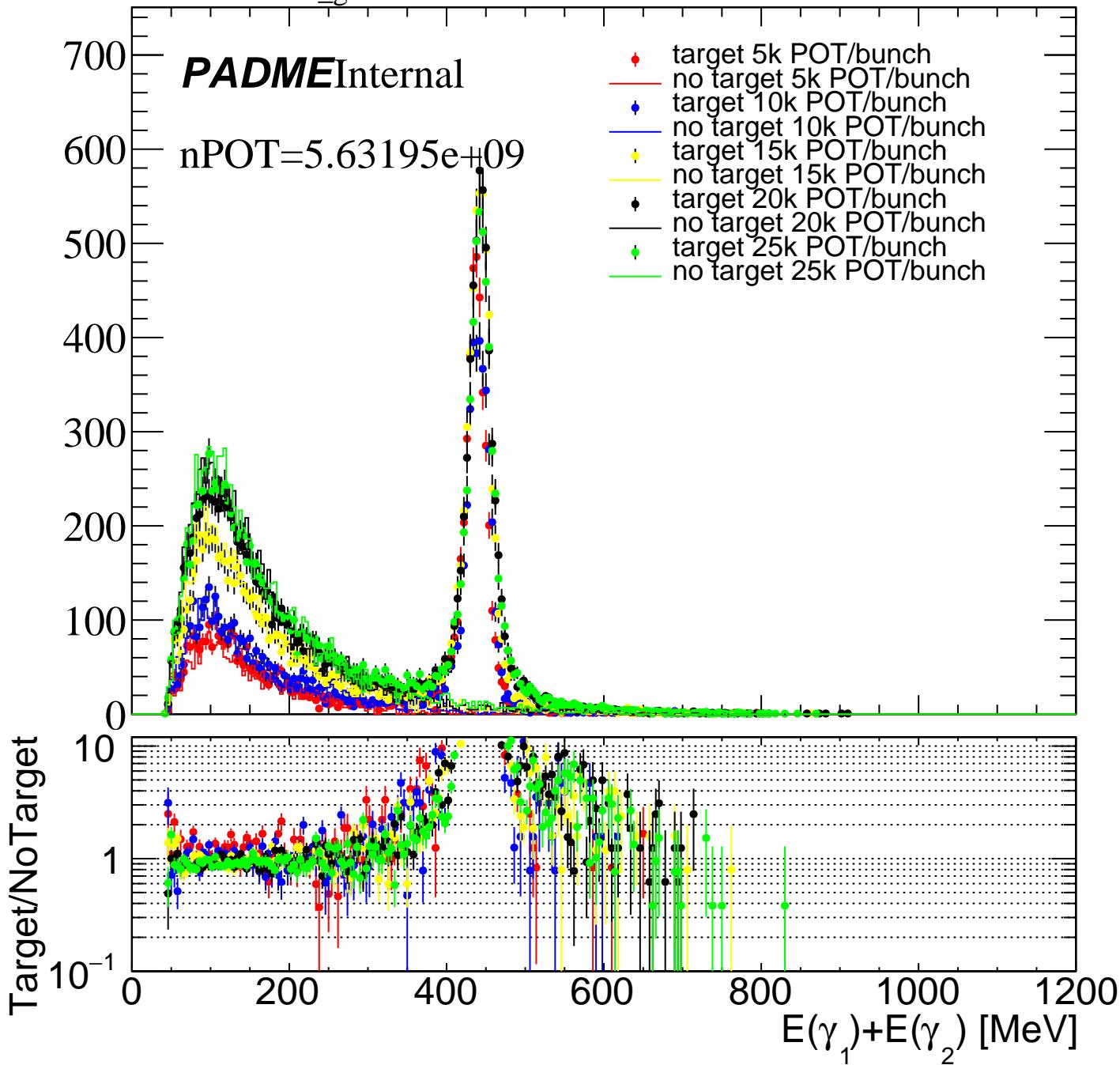
ECAL_gravTwoPhoton10ns1cm20DegreeEThr90



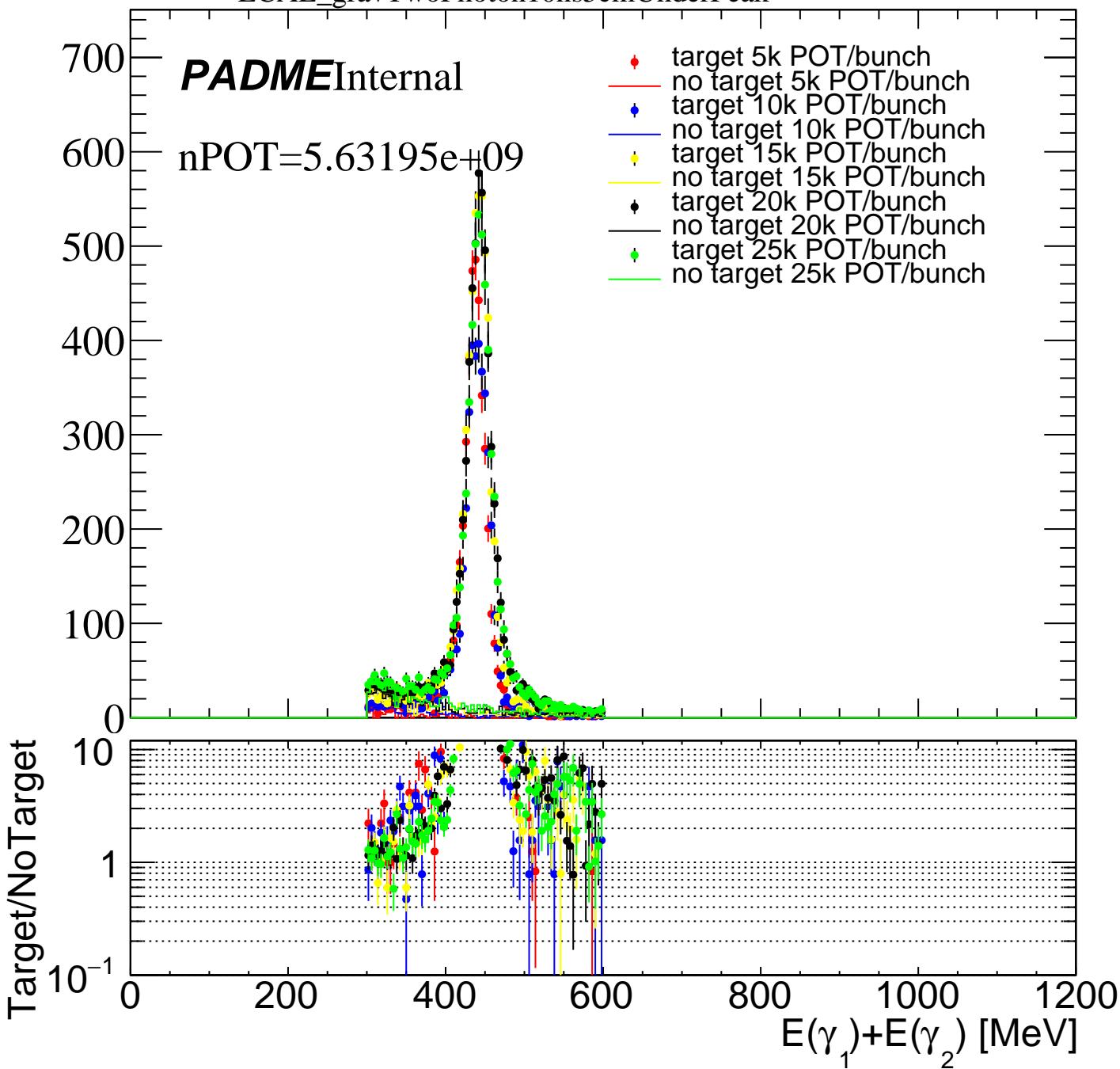
ECAL_gravTwoPhoton10ns1cm20DegreeDeltaThetaEThr90



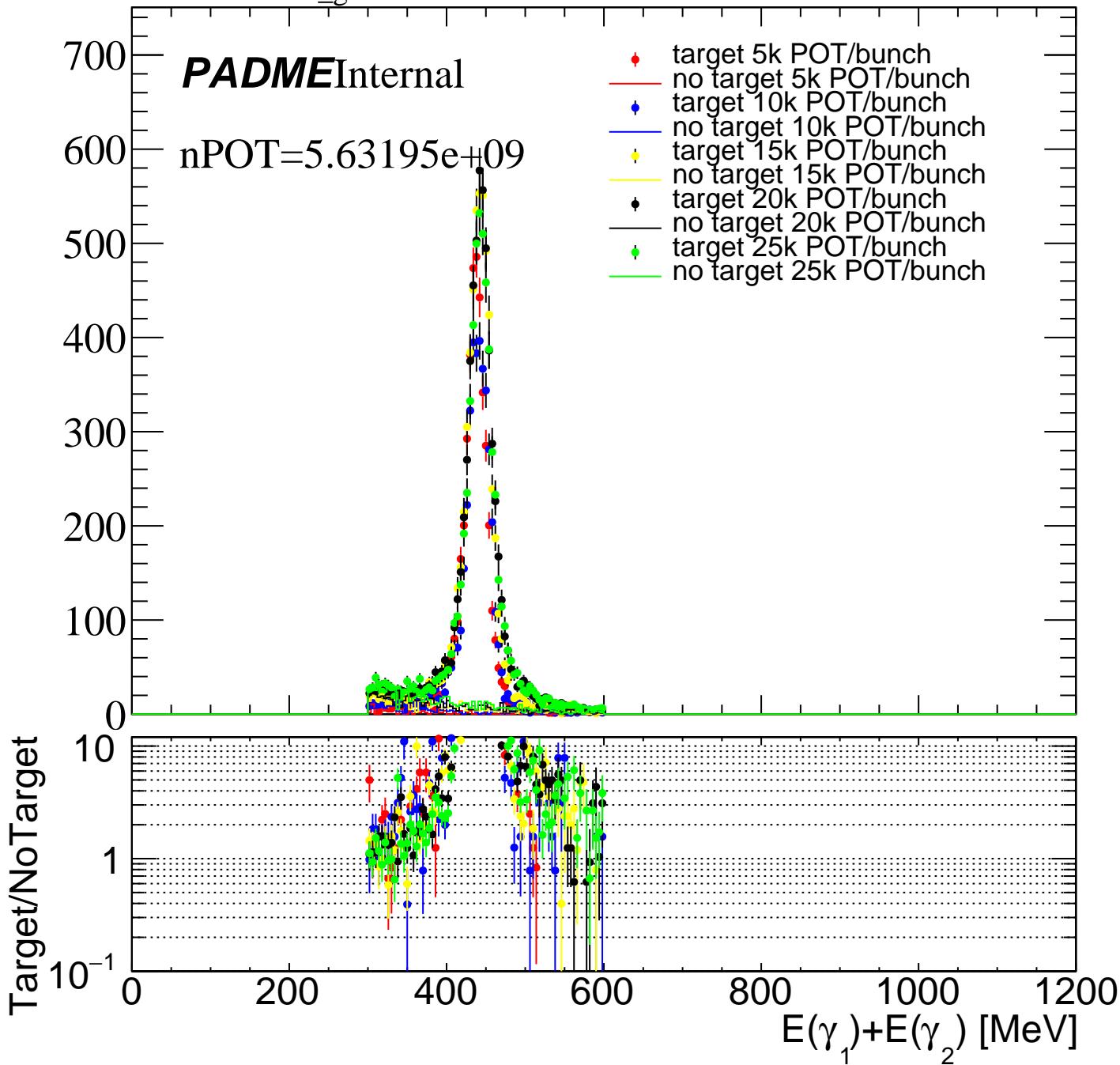
ECAL_gravTwoPhoton10ns5cm



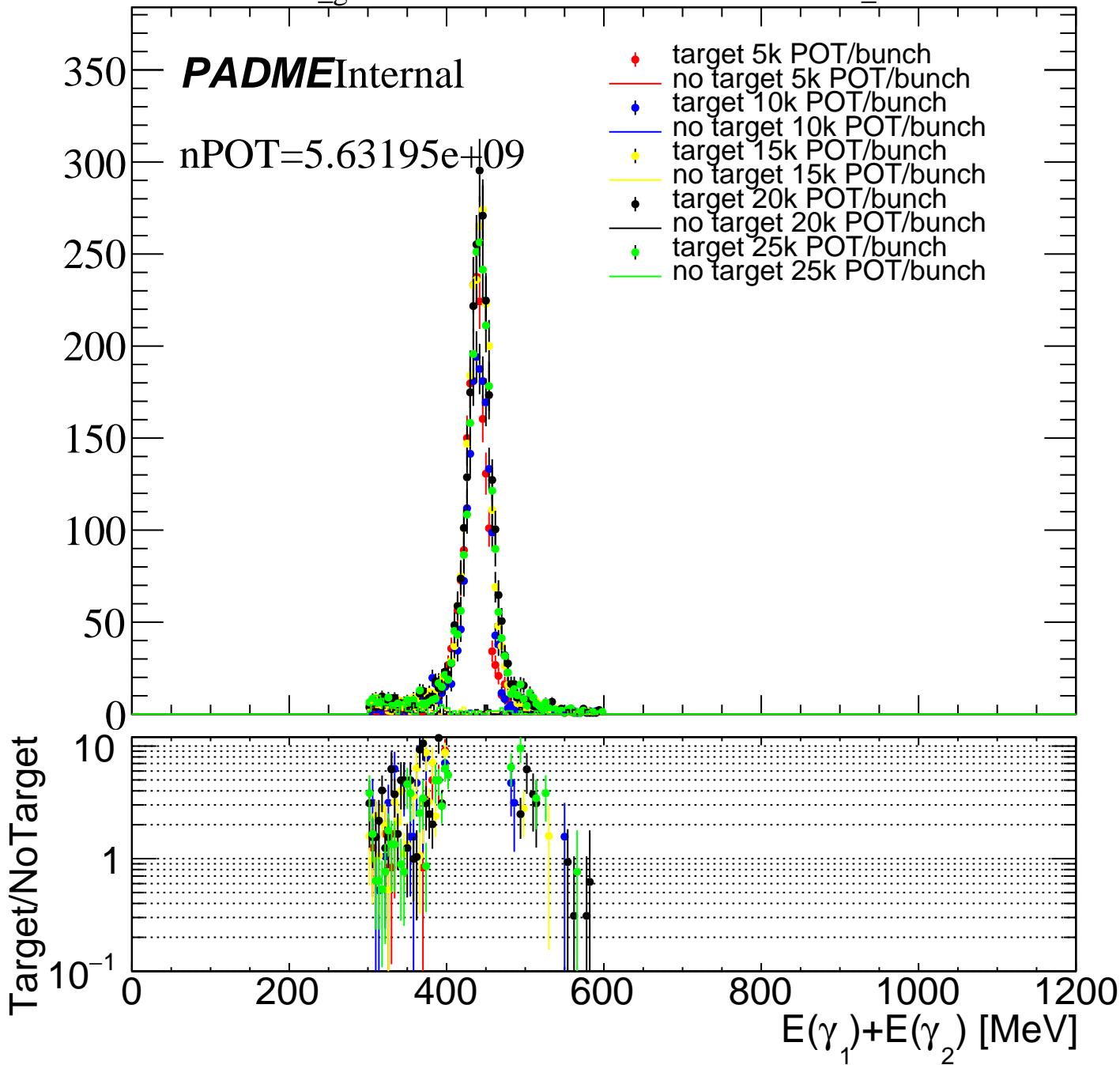
ECAL_gravTwoPhoton10ns5cmUnderPeak



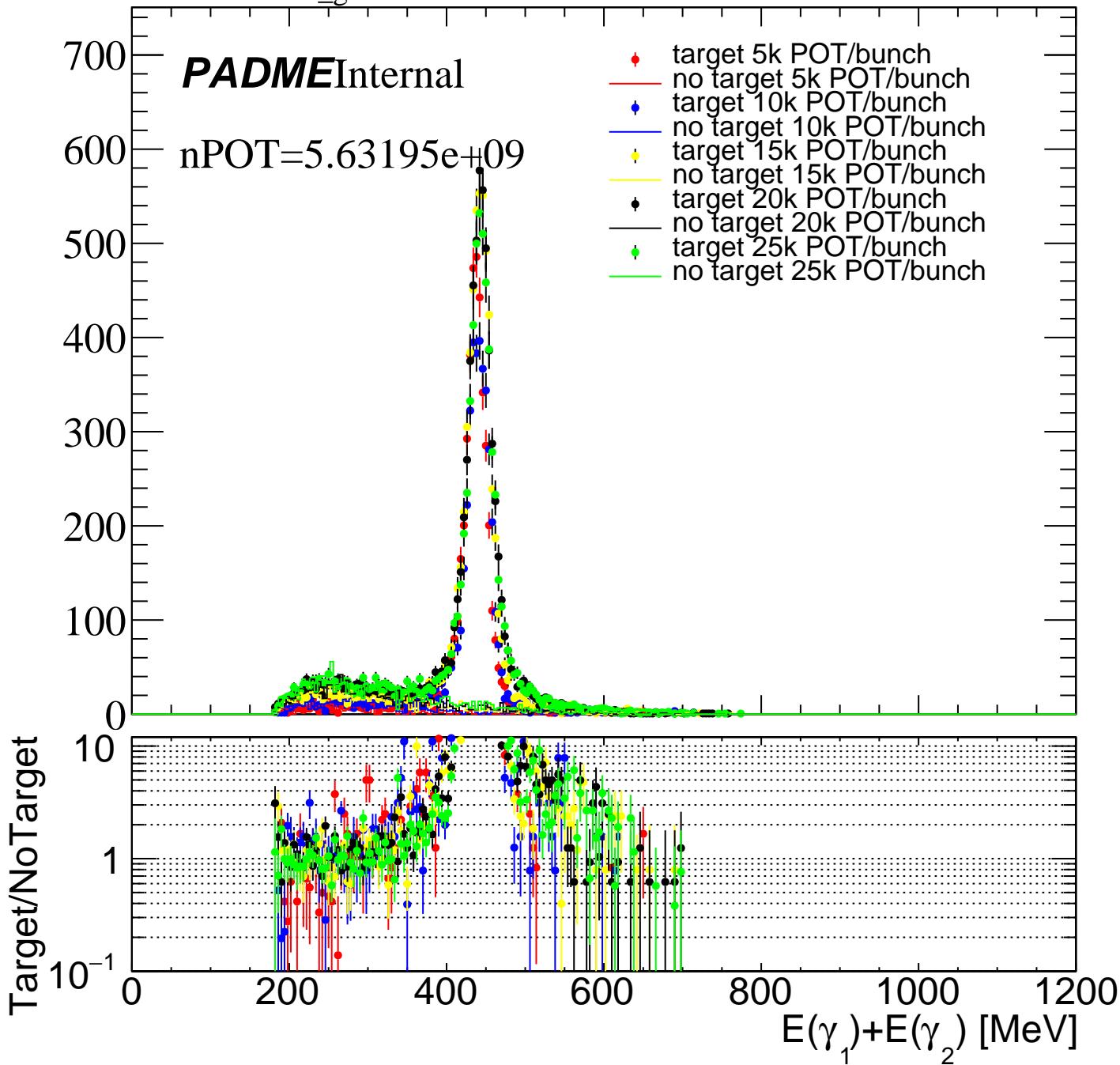
ECAL_gravTwoPhoton10ns5cmUnderPeakEThr90



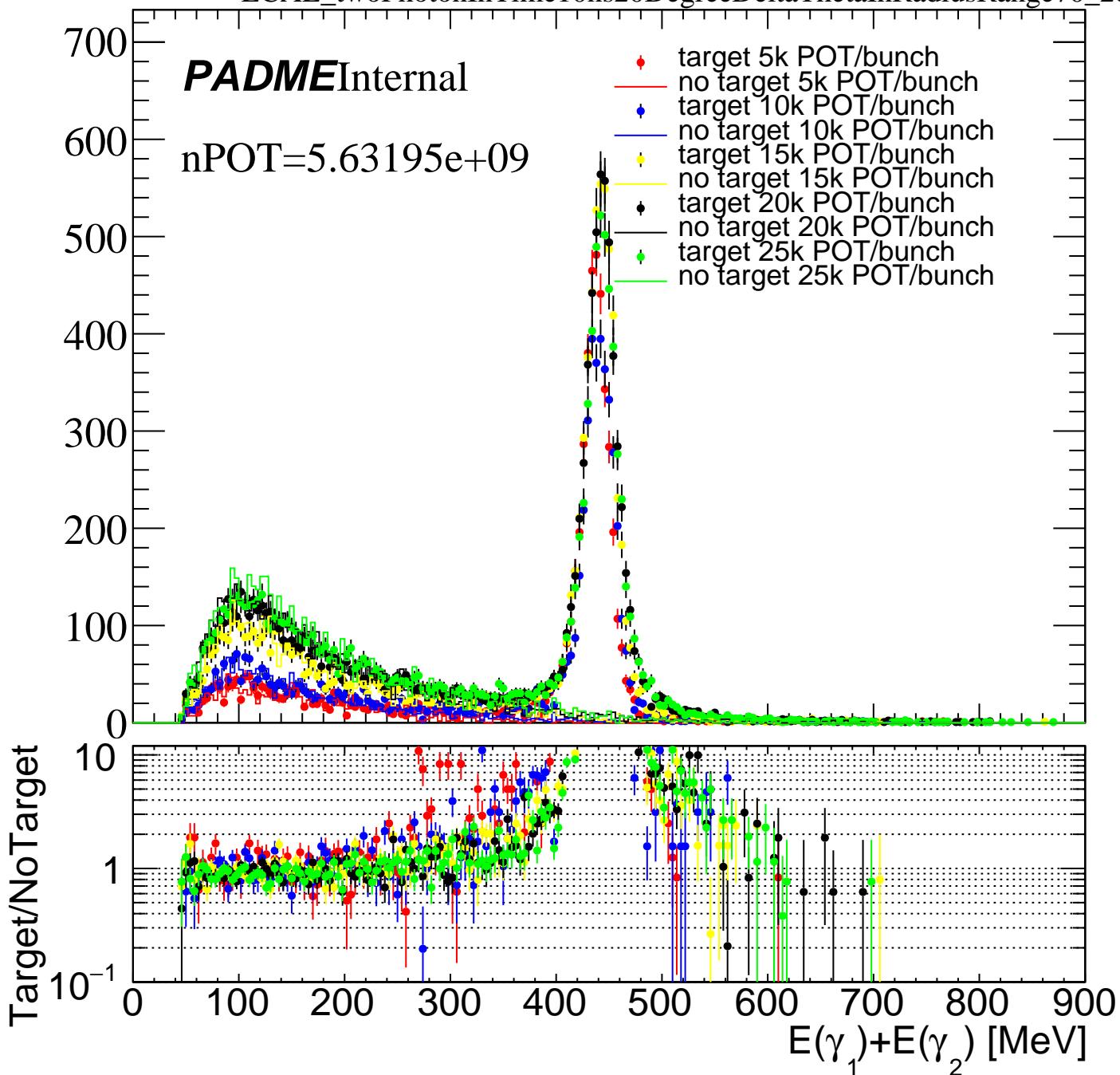
ECAL_gravTwoPhoton10ns5cmUnderPeakEThr90_FRY



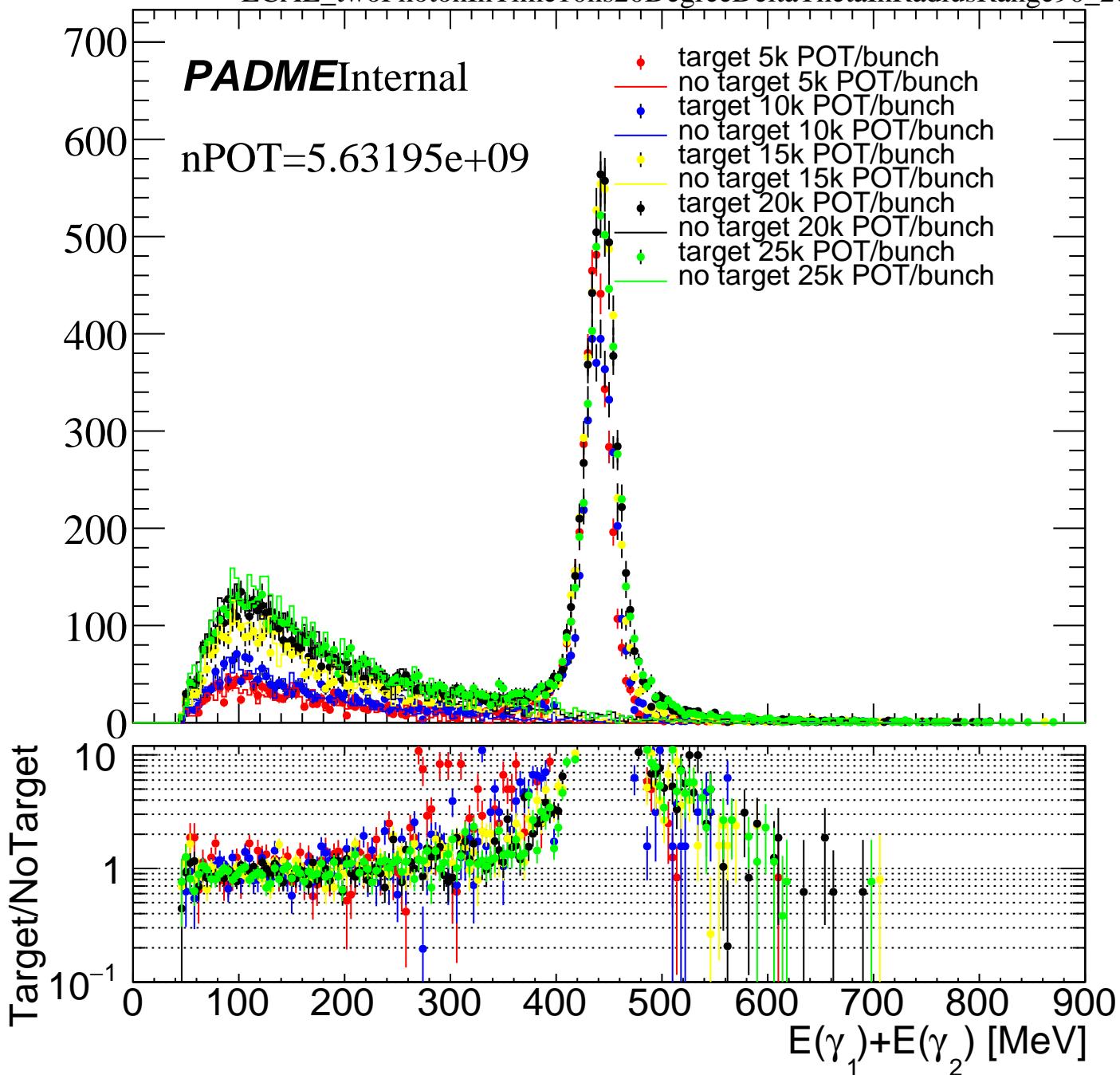
ECAL_gravTwoPhoton10ns5cmEThr90

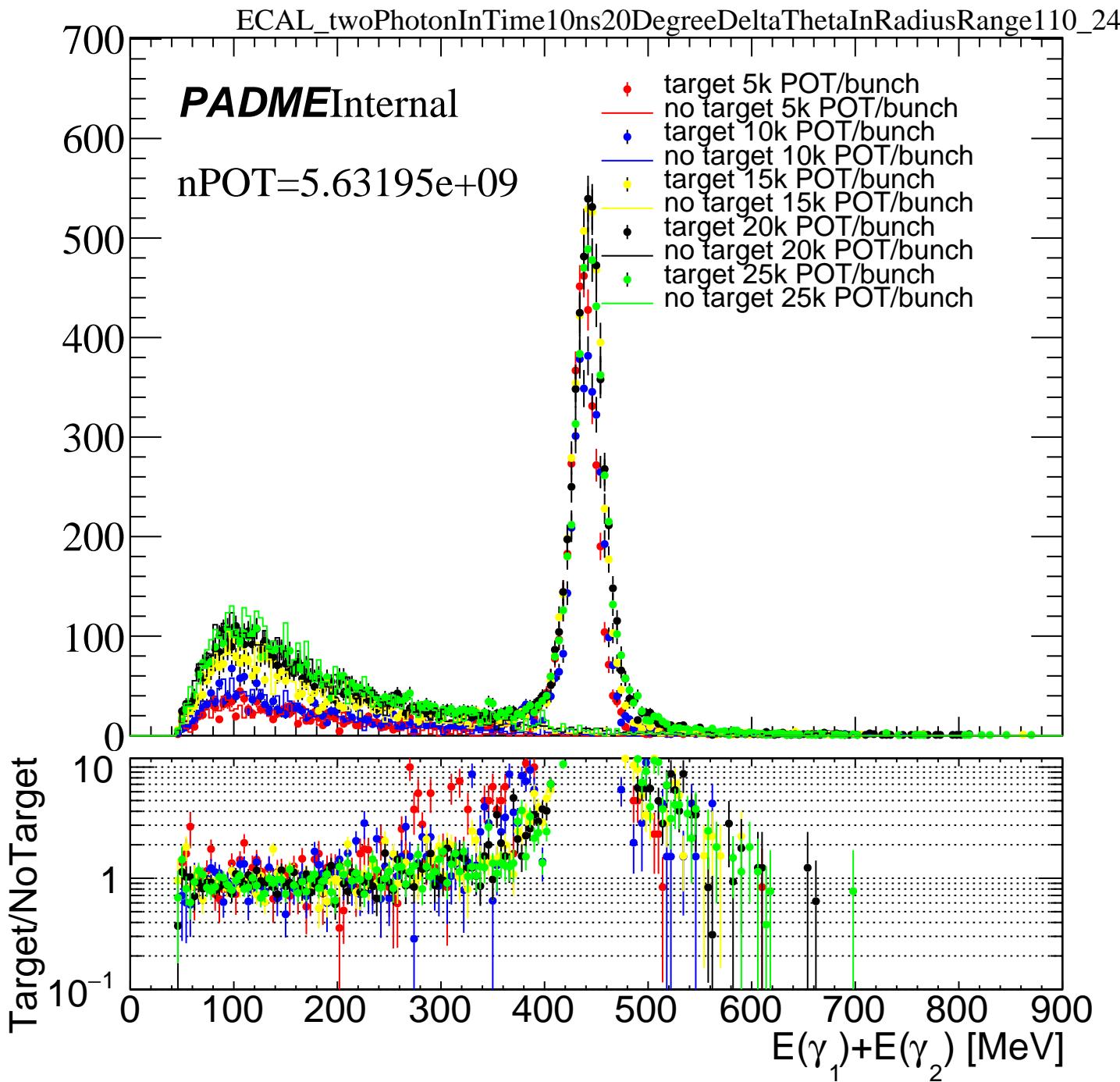


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70_280

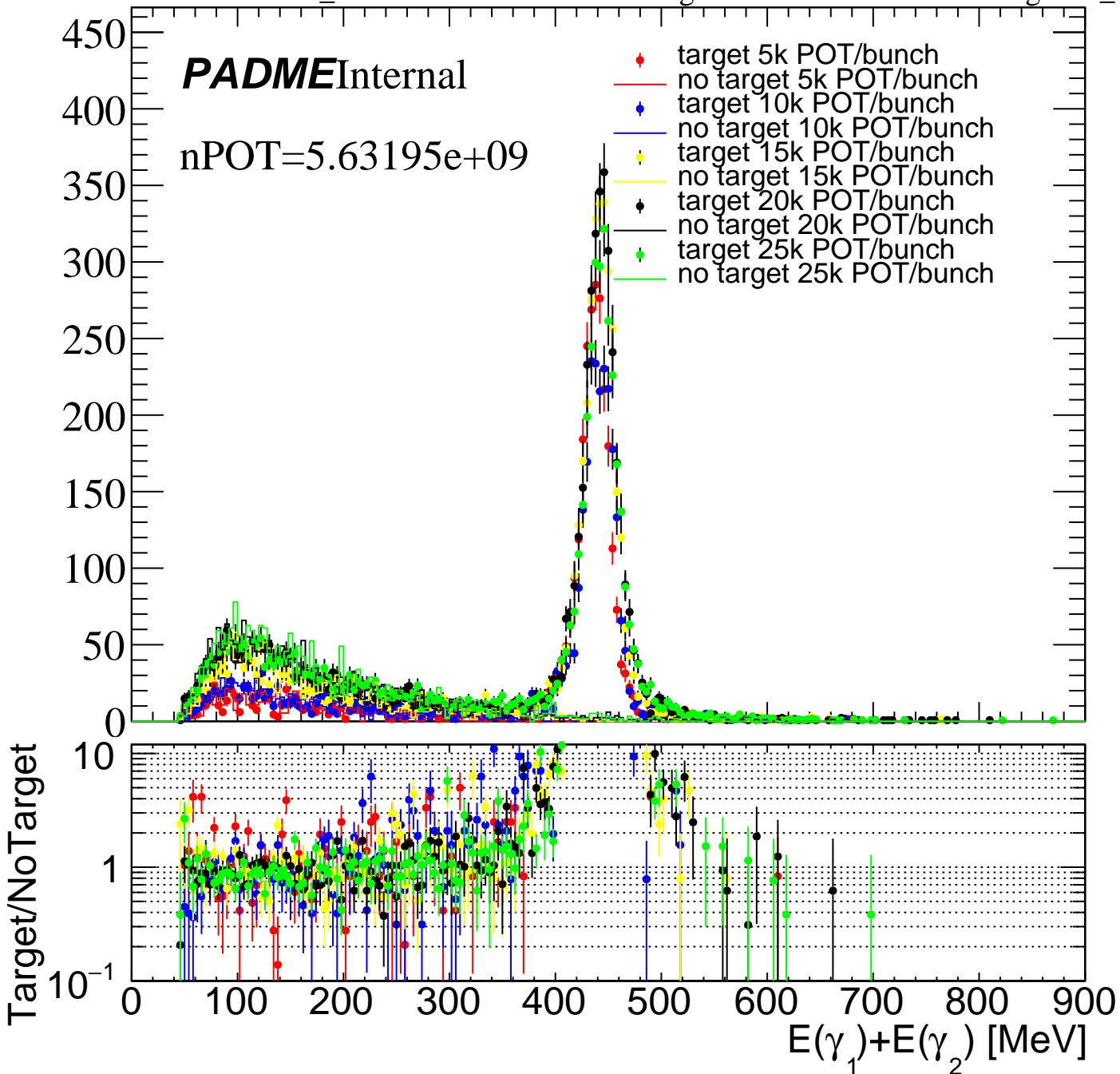


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_260

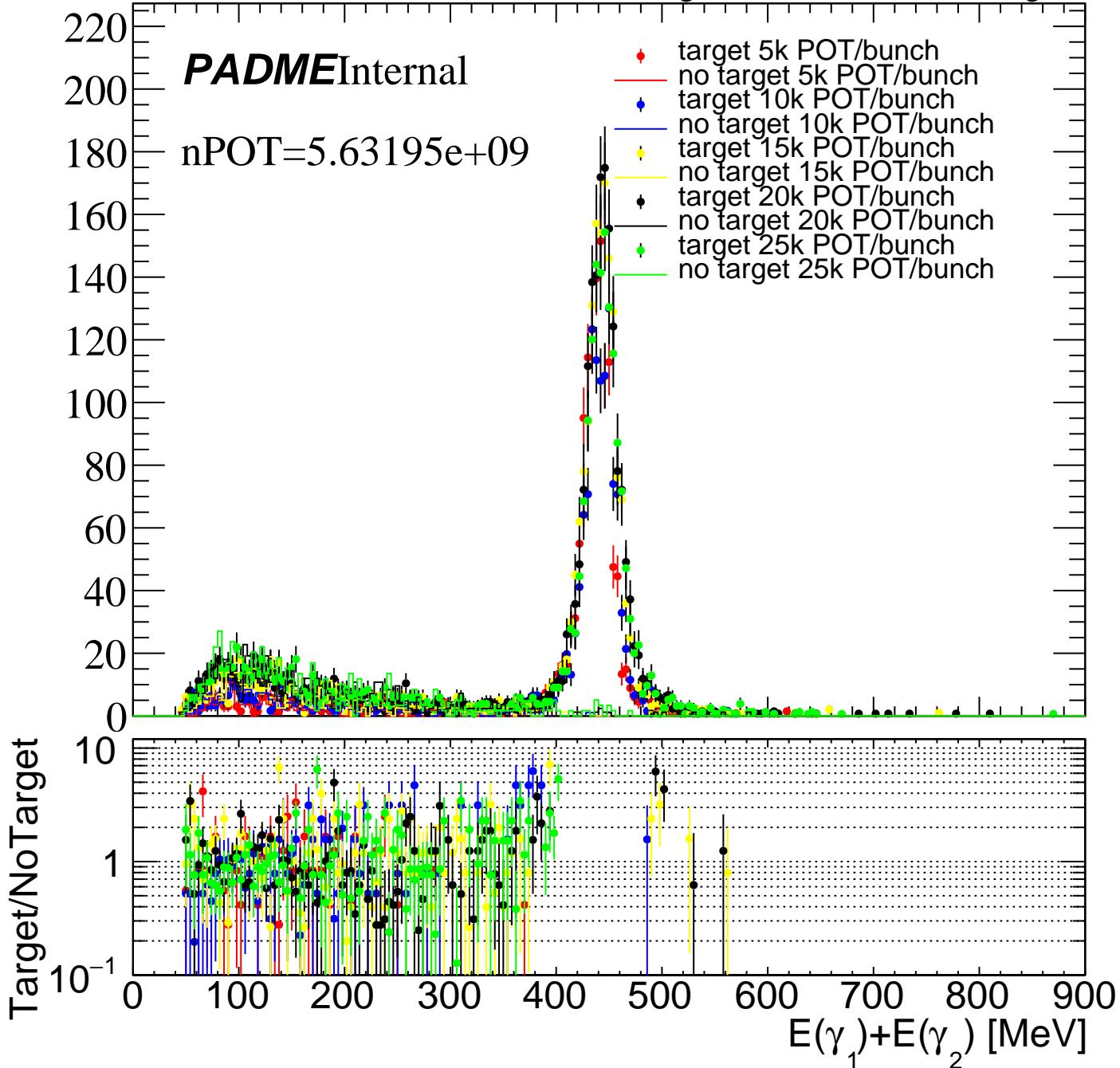




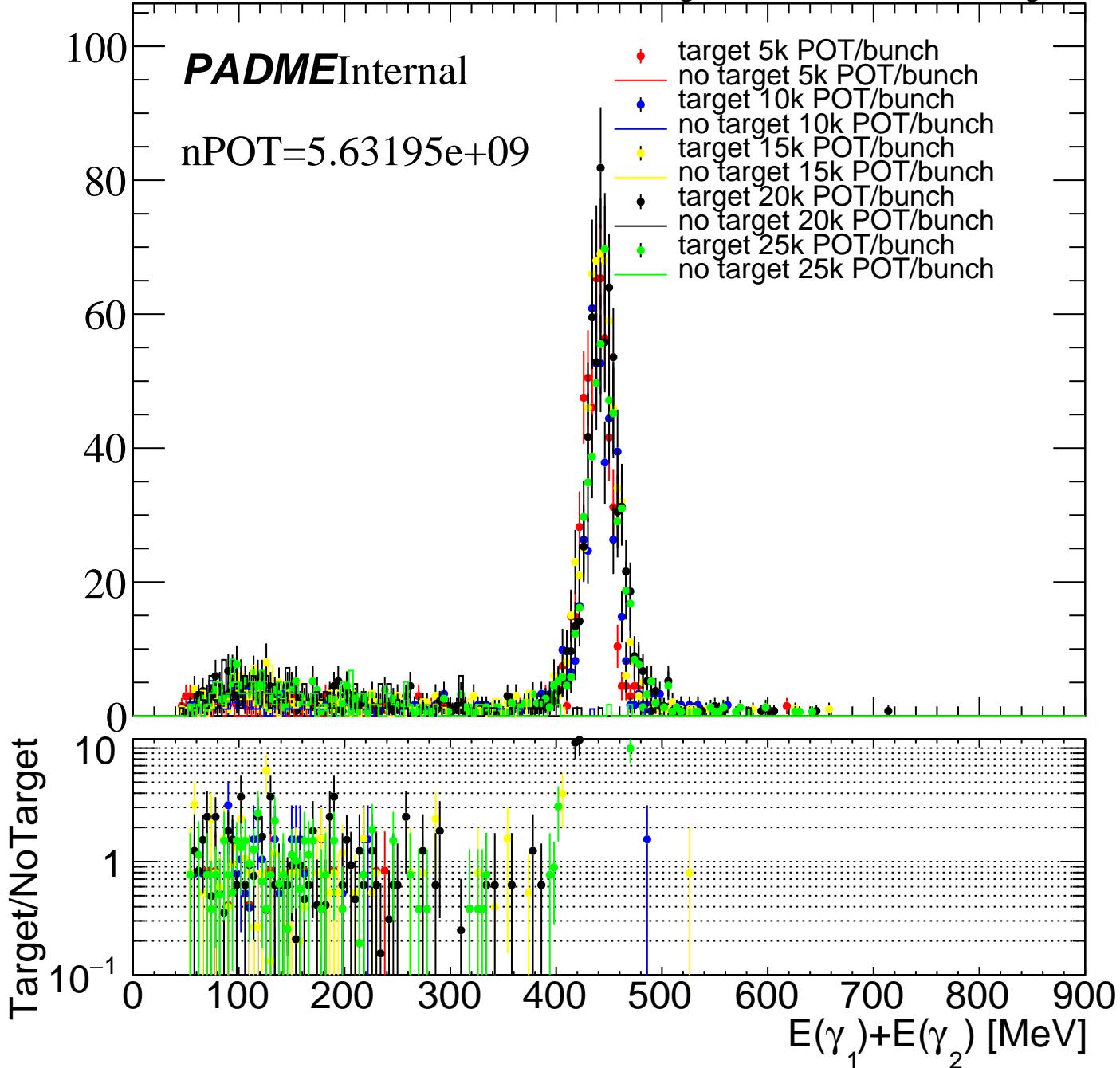
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_22



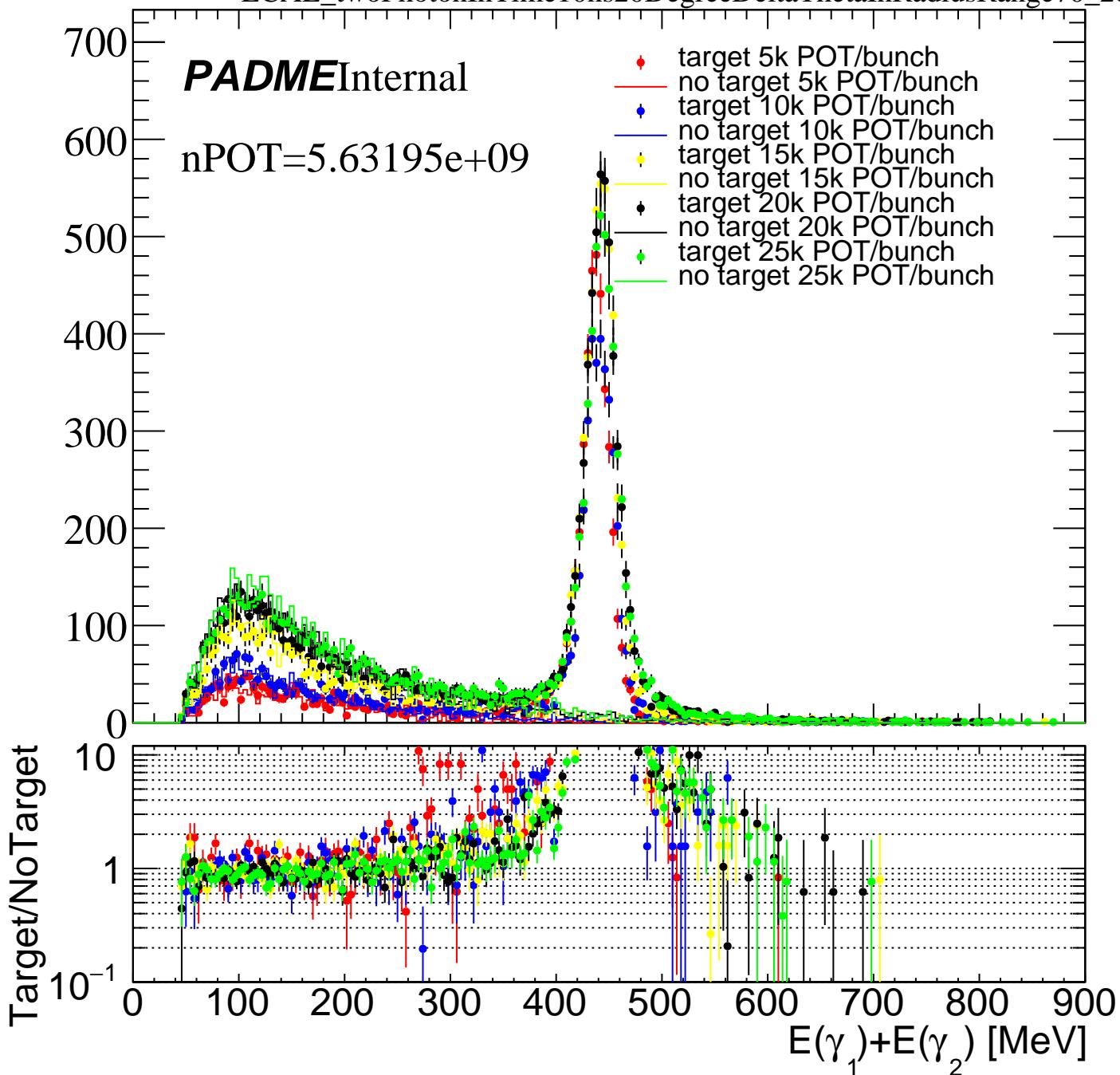
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_20



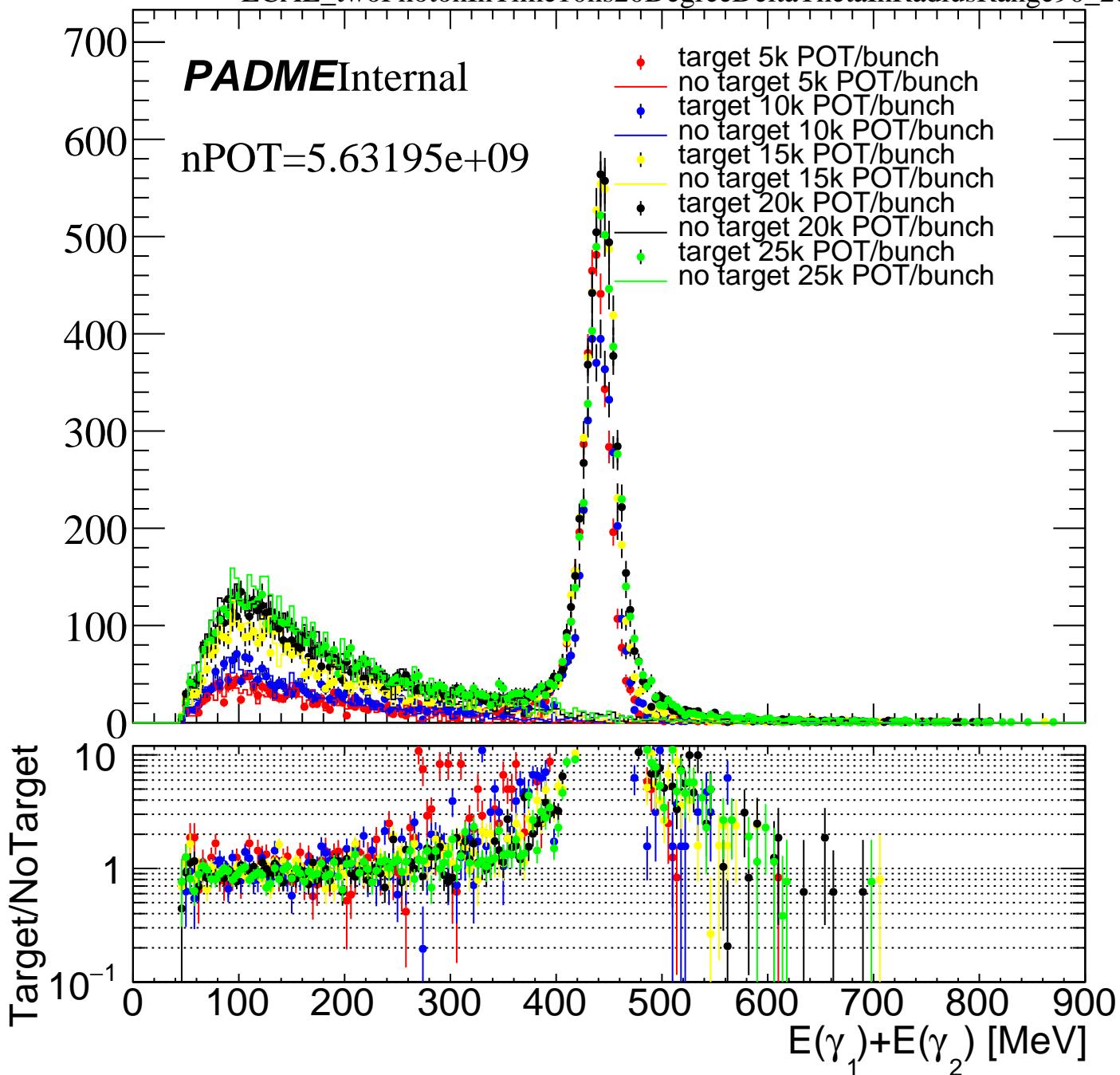
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_19

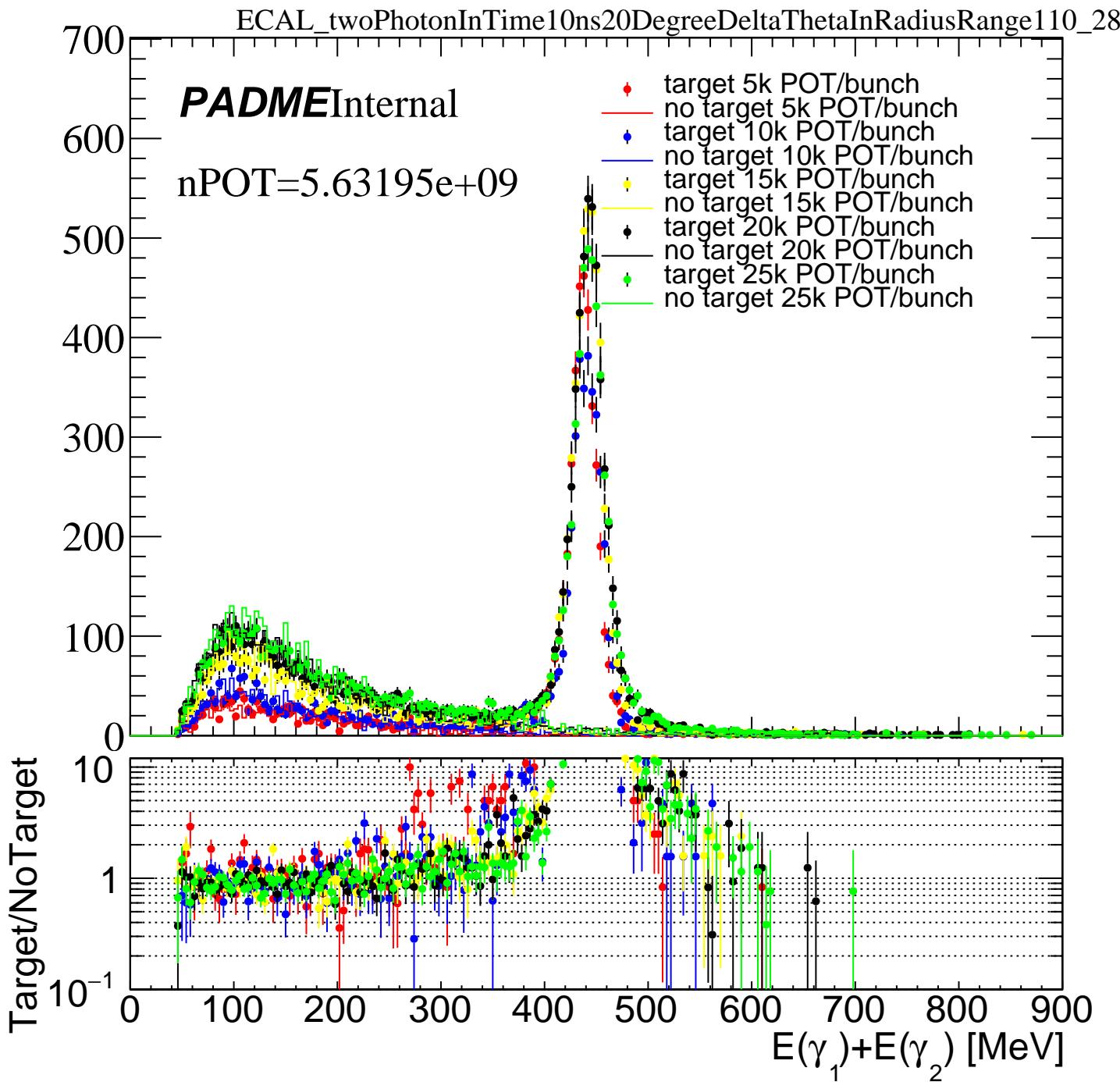


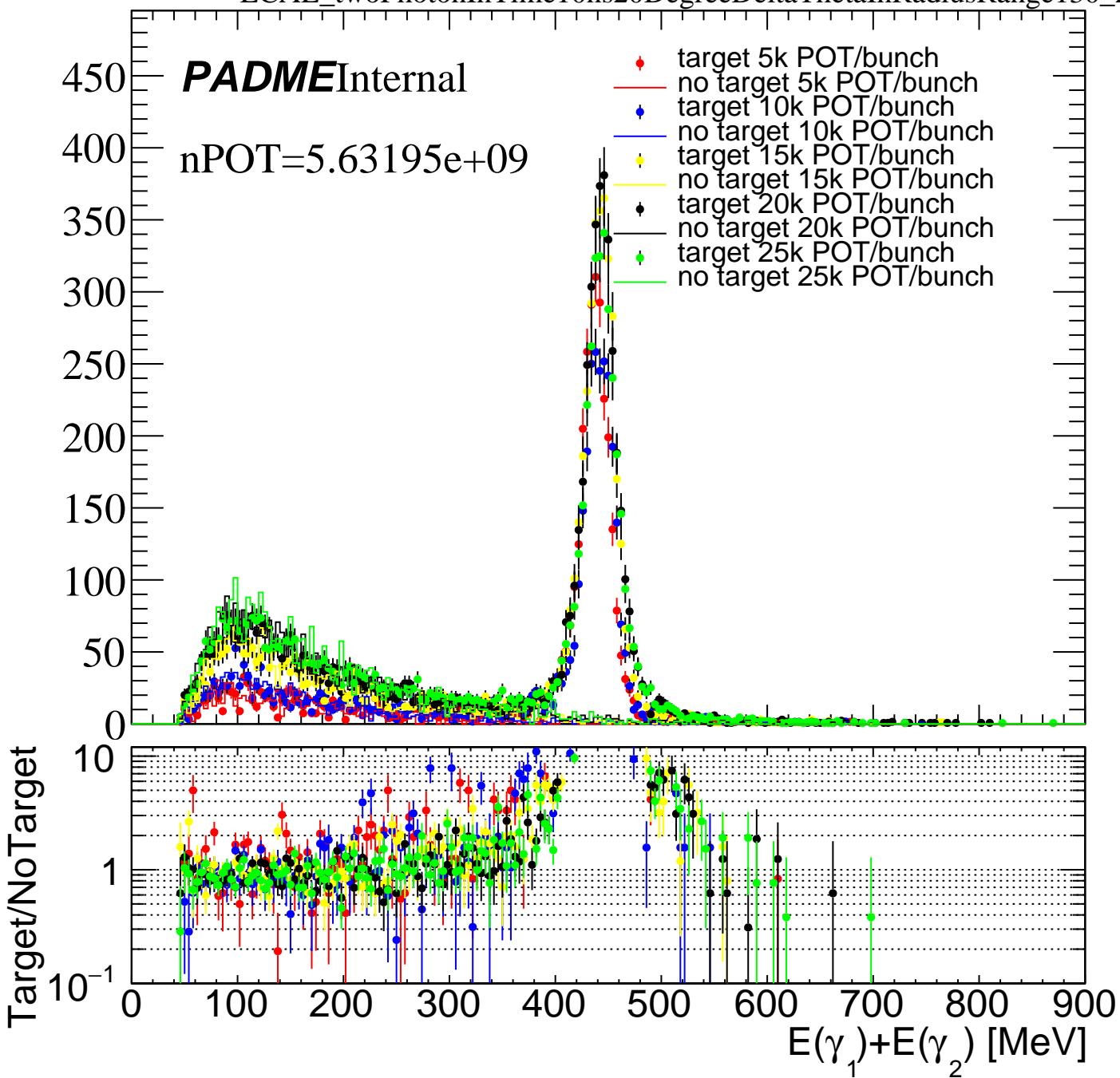
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70_280

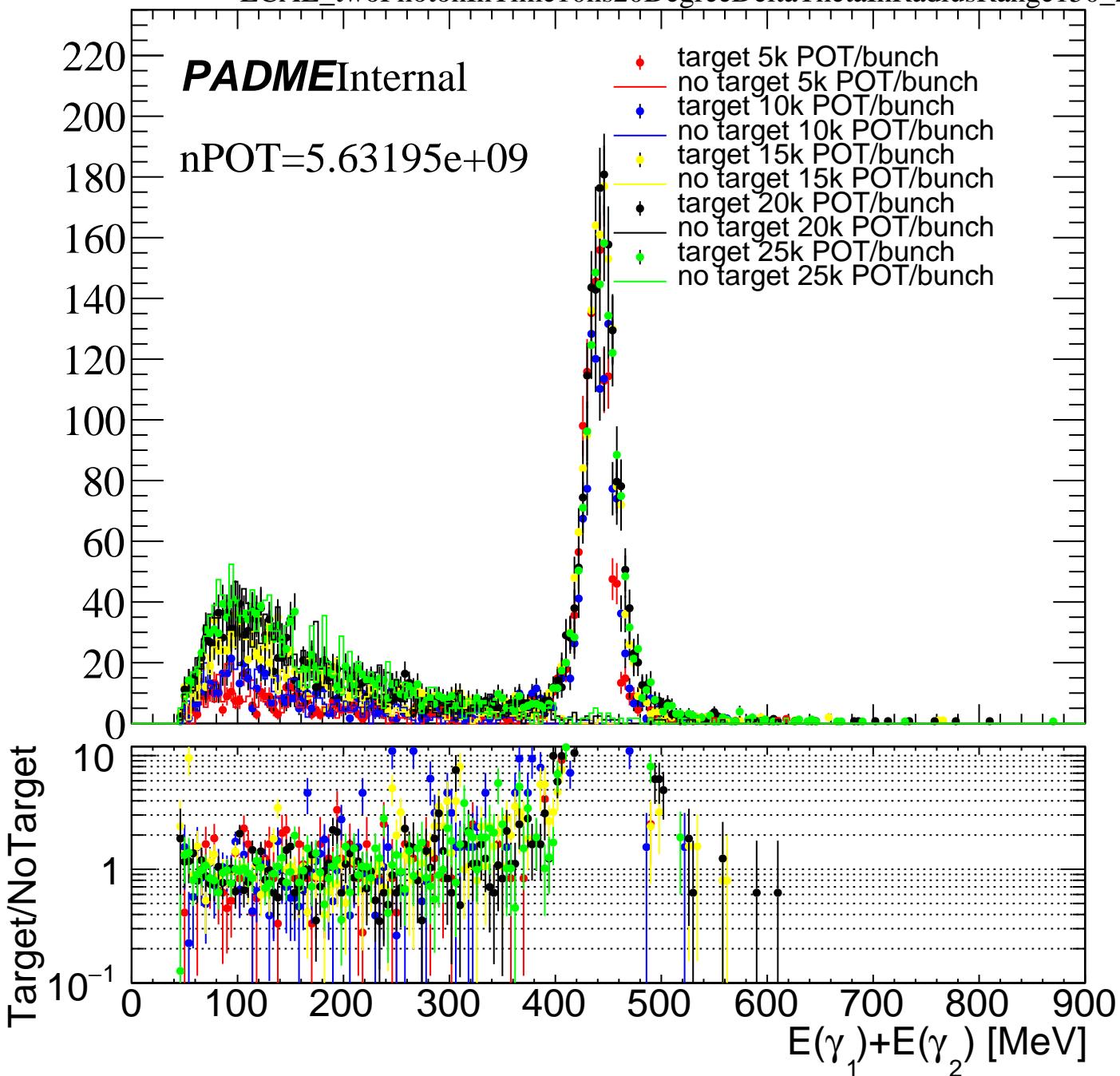


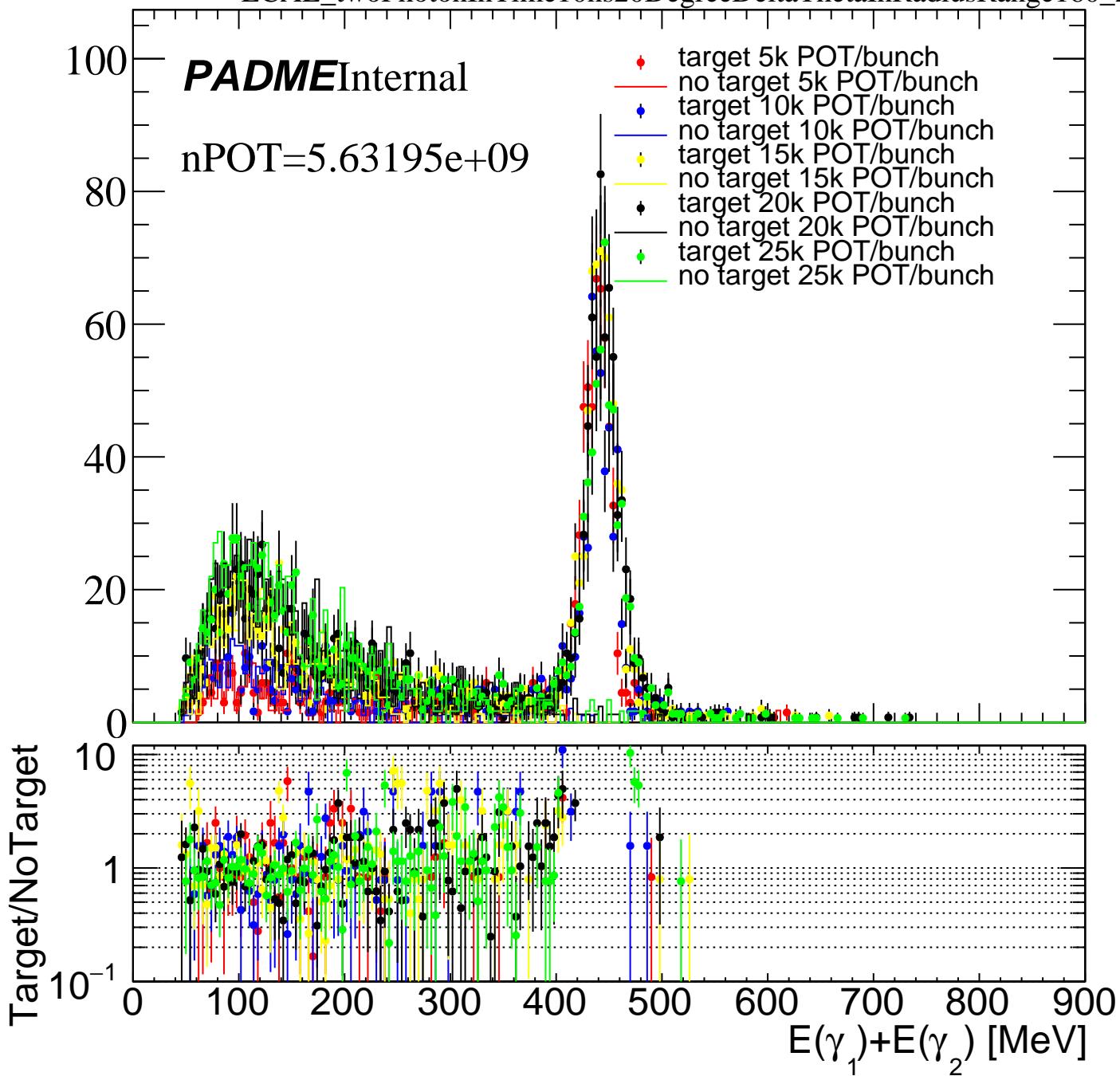
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_280



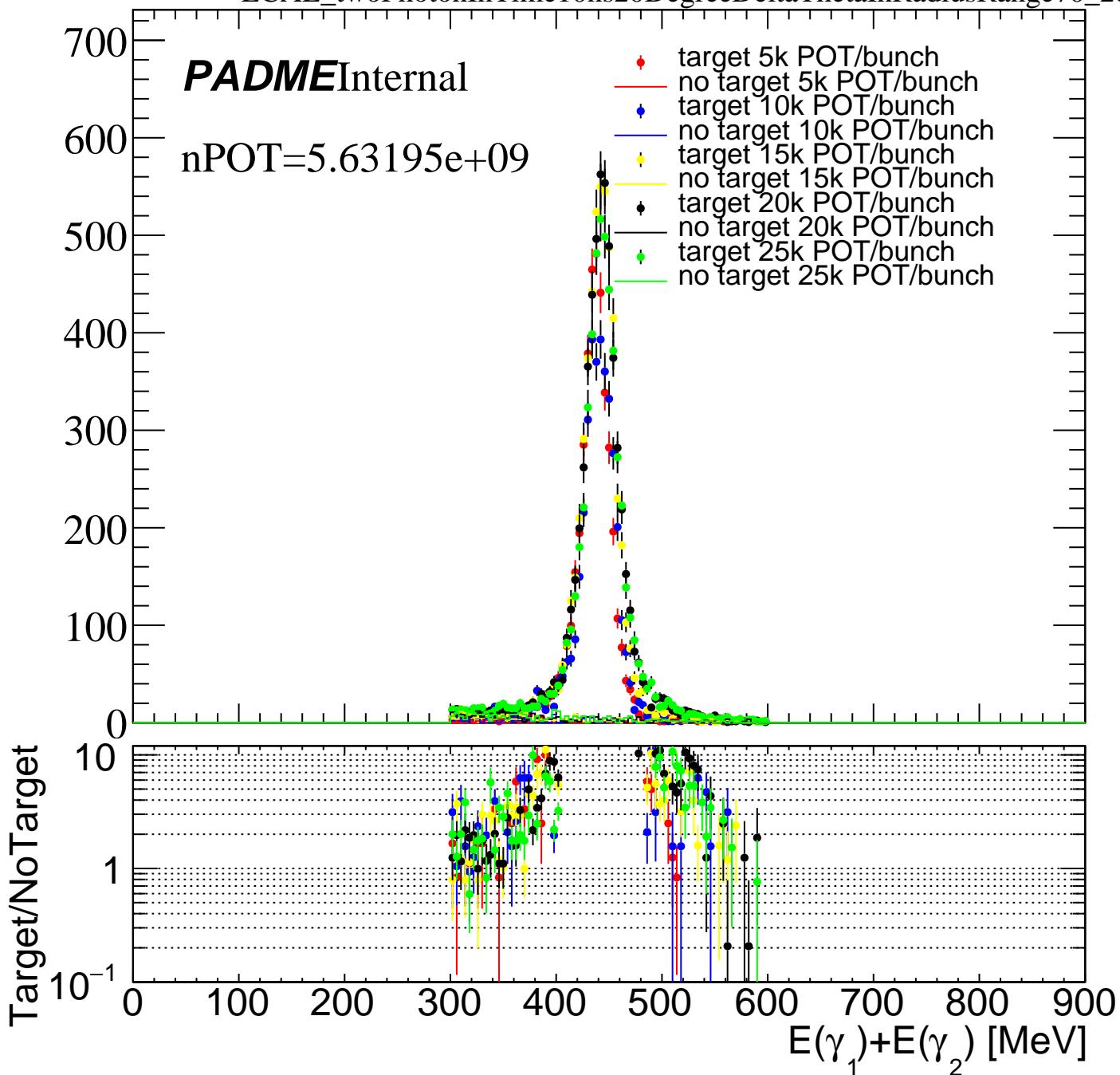




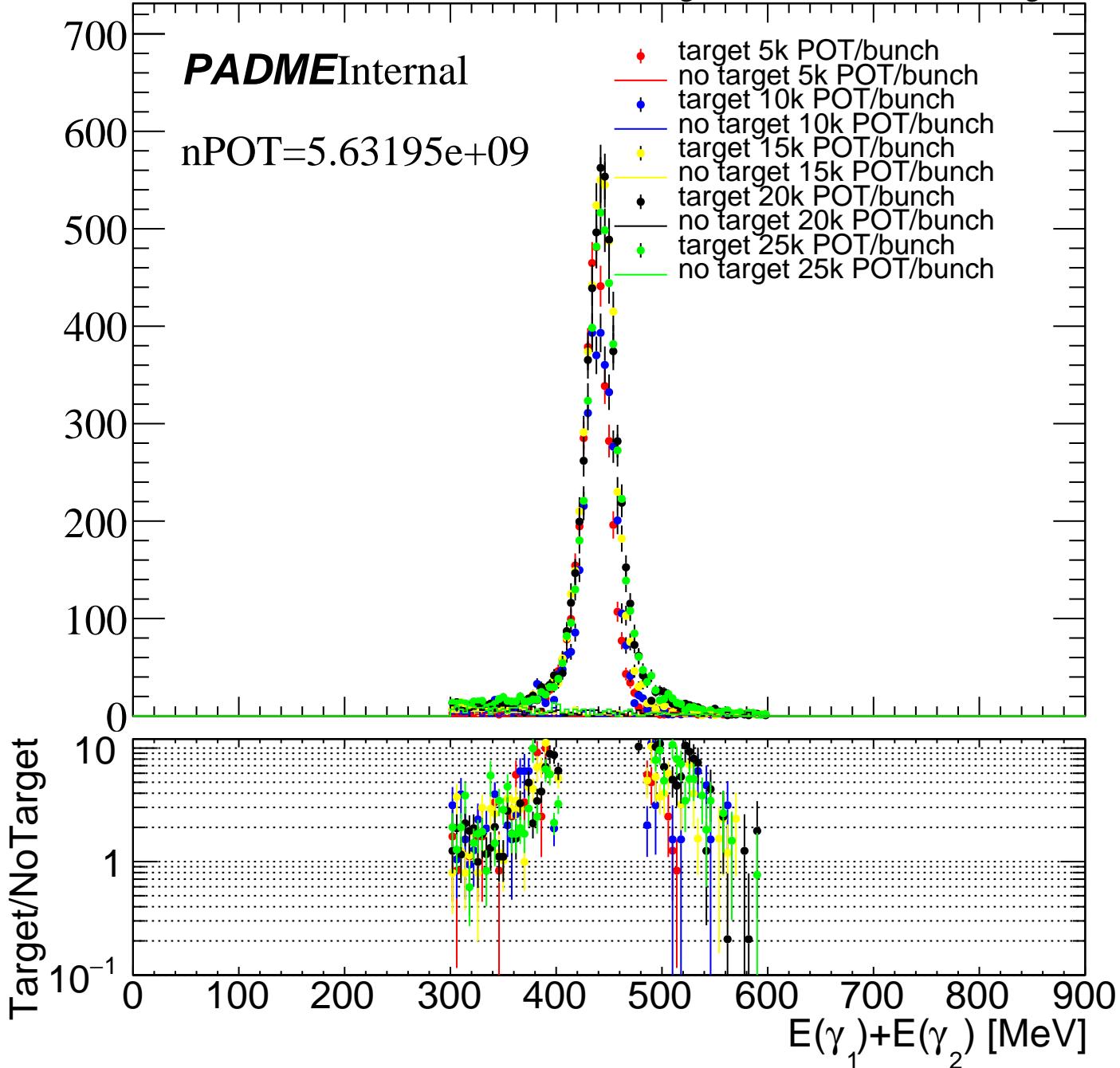


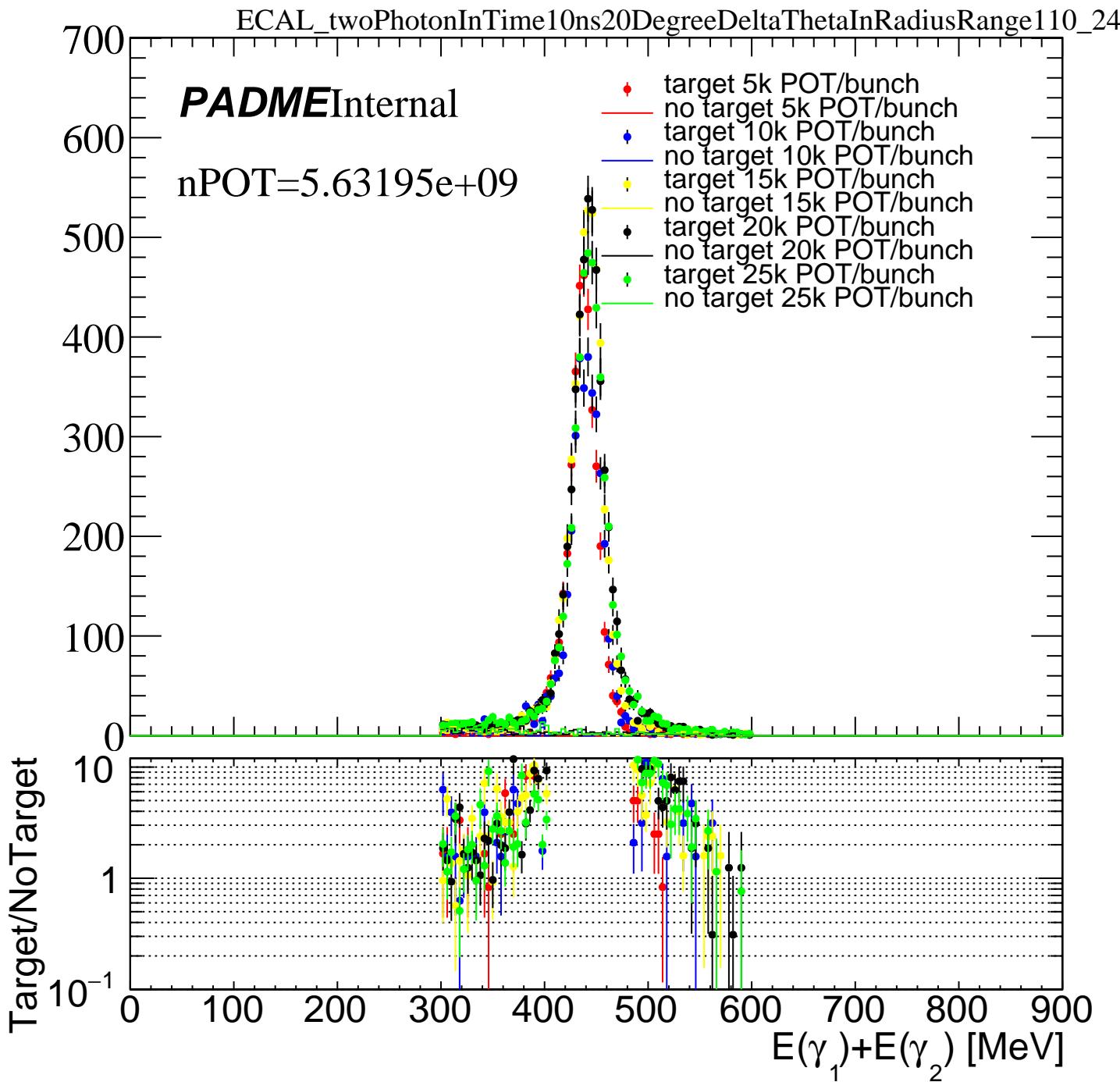


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70_280

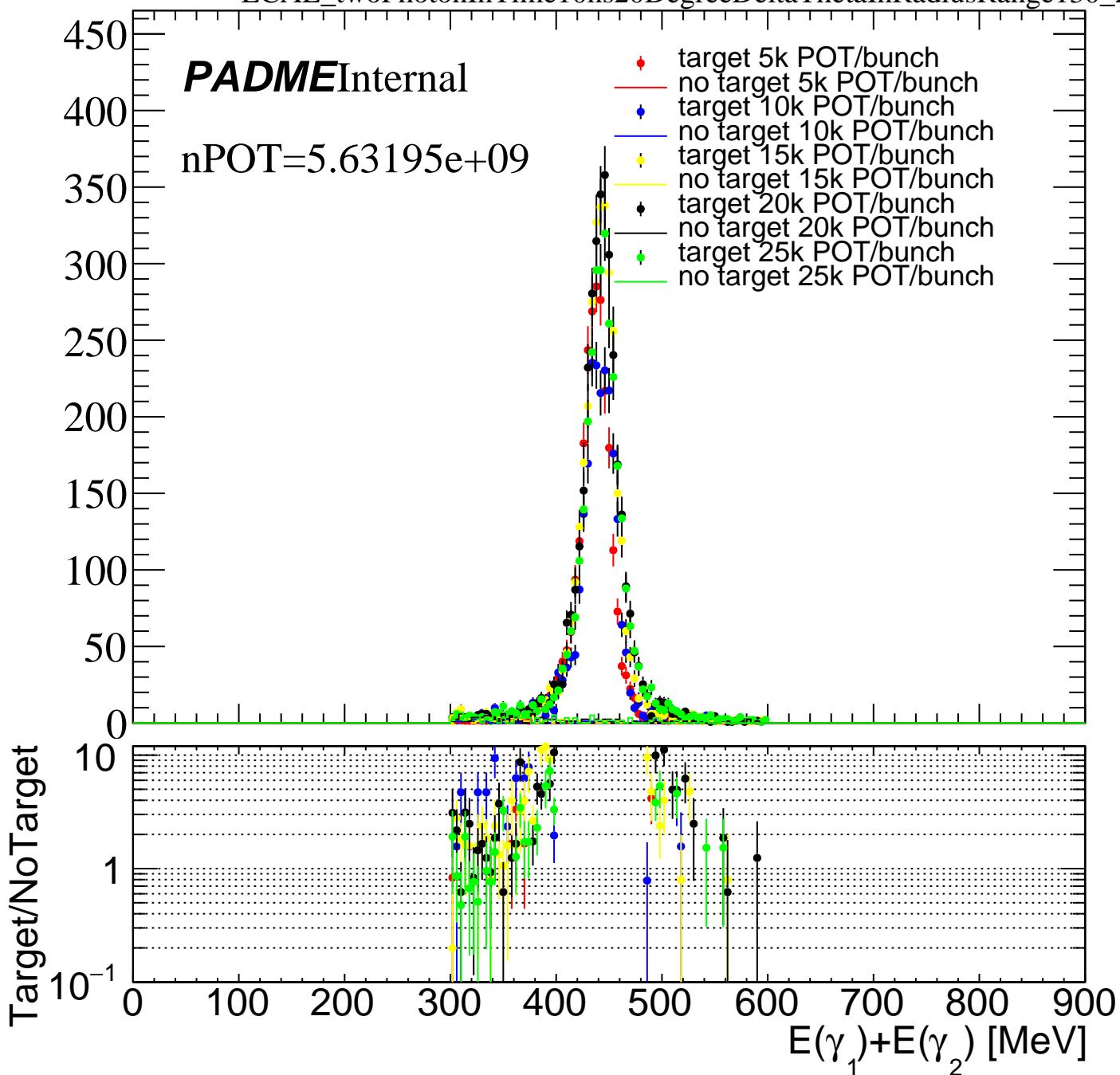


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_260

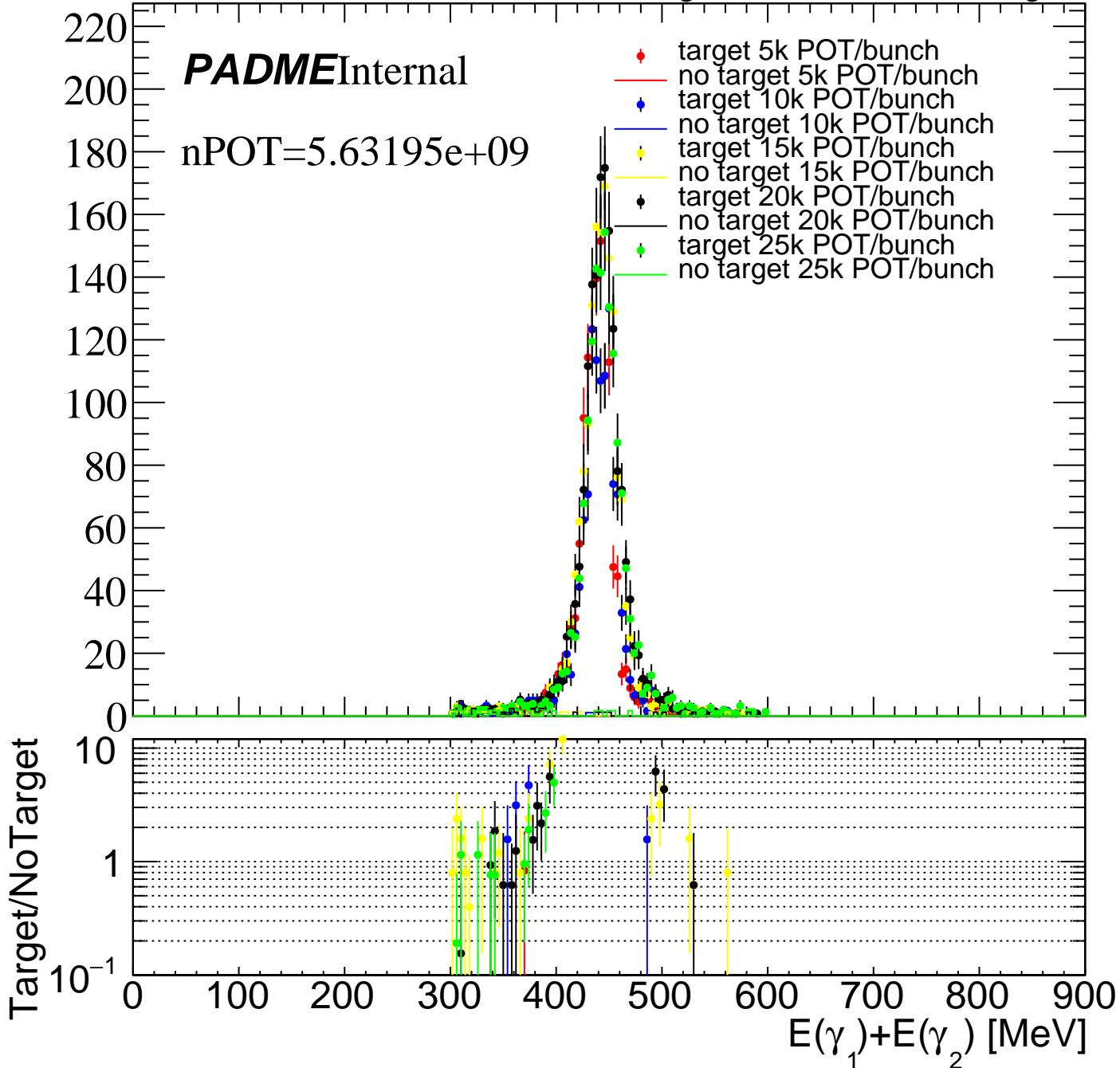




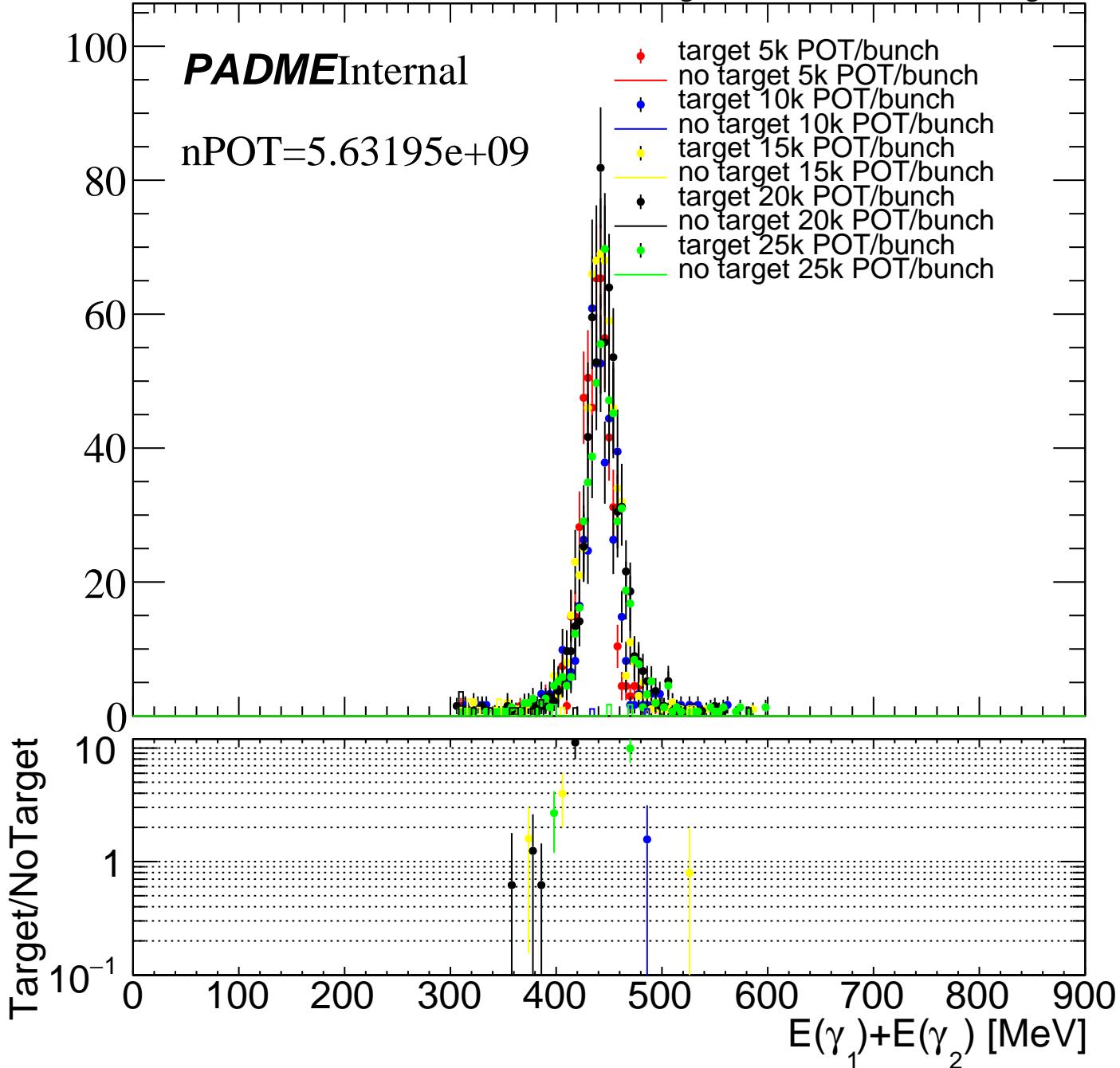
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_22



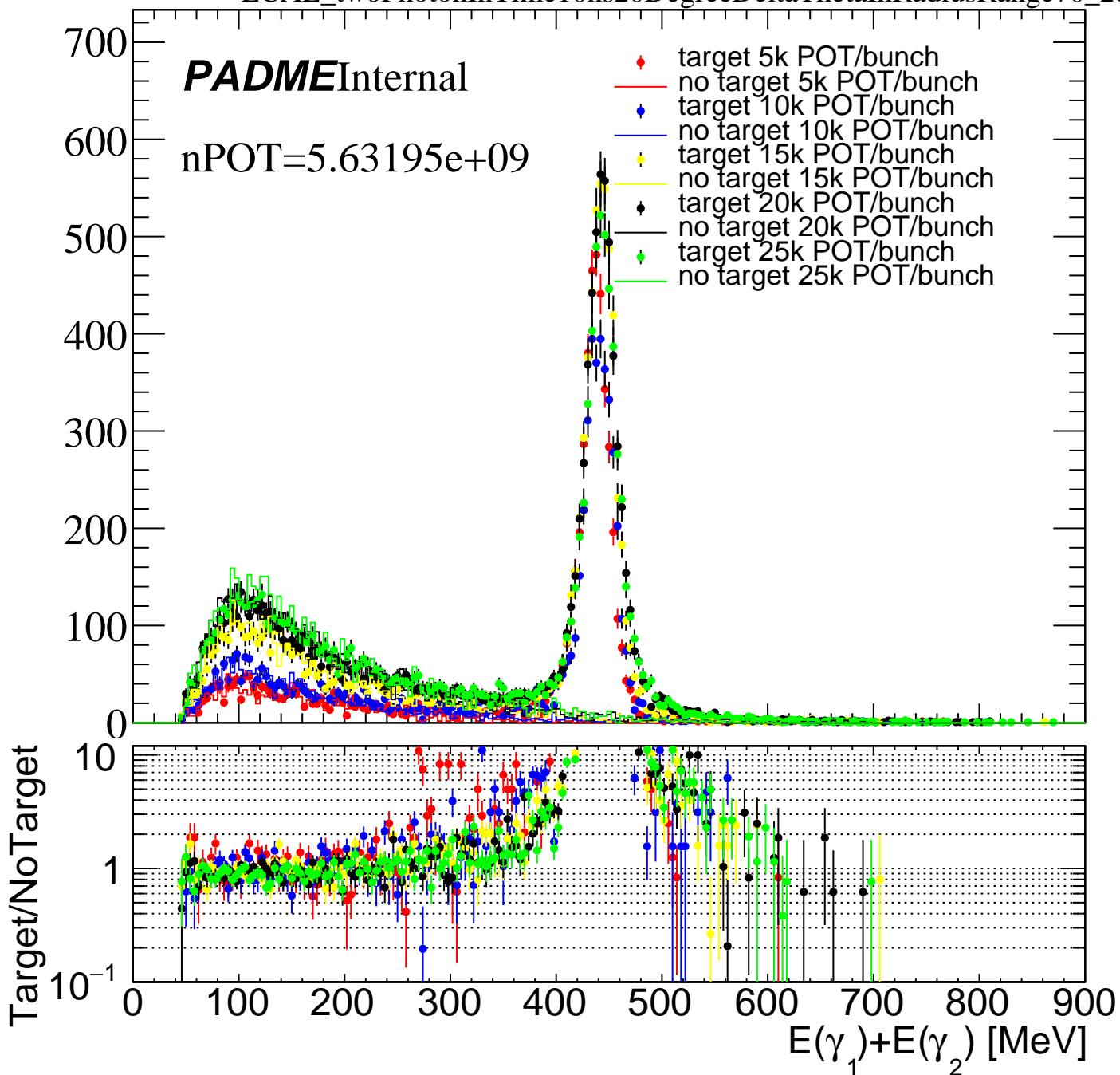
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_20

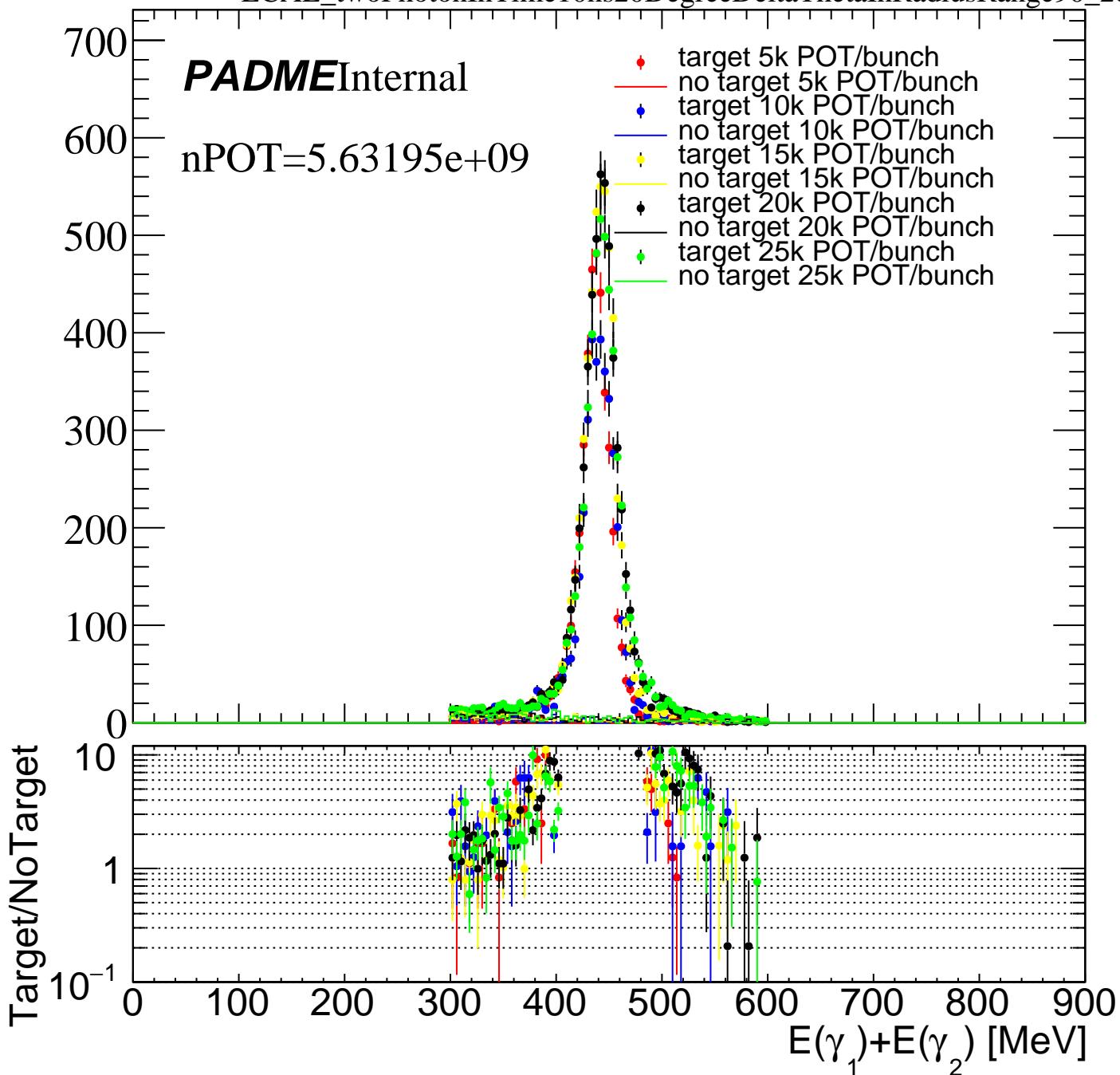


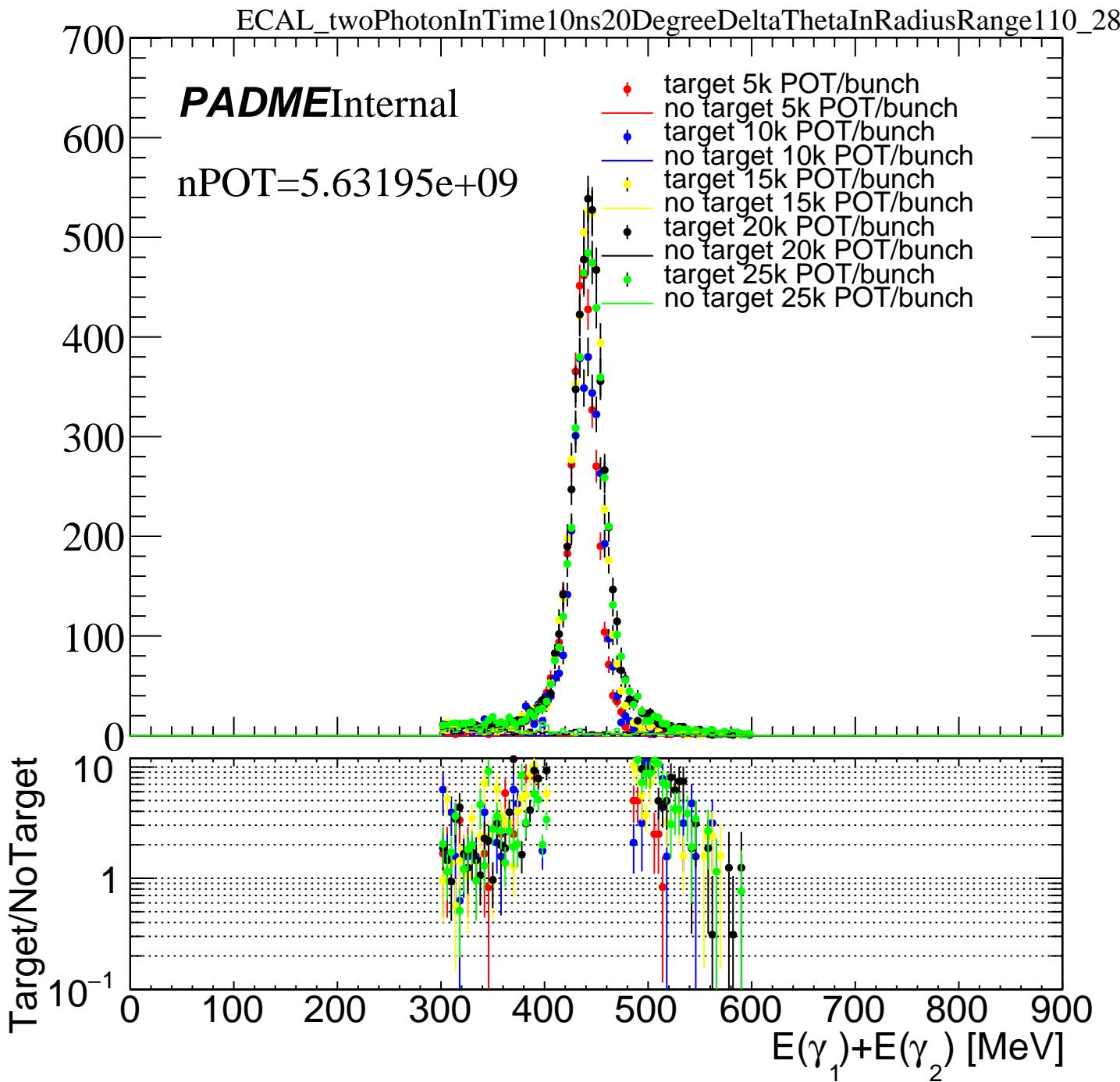
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_19

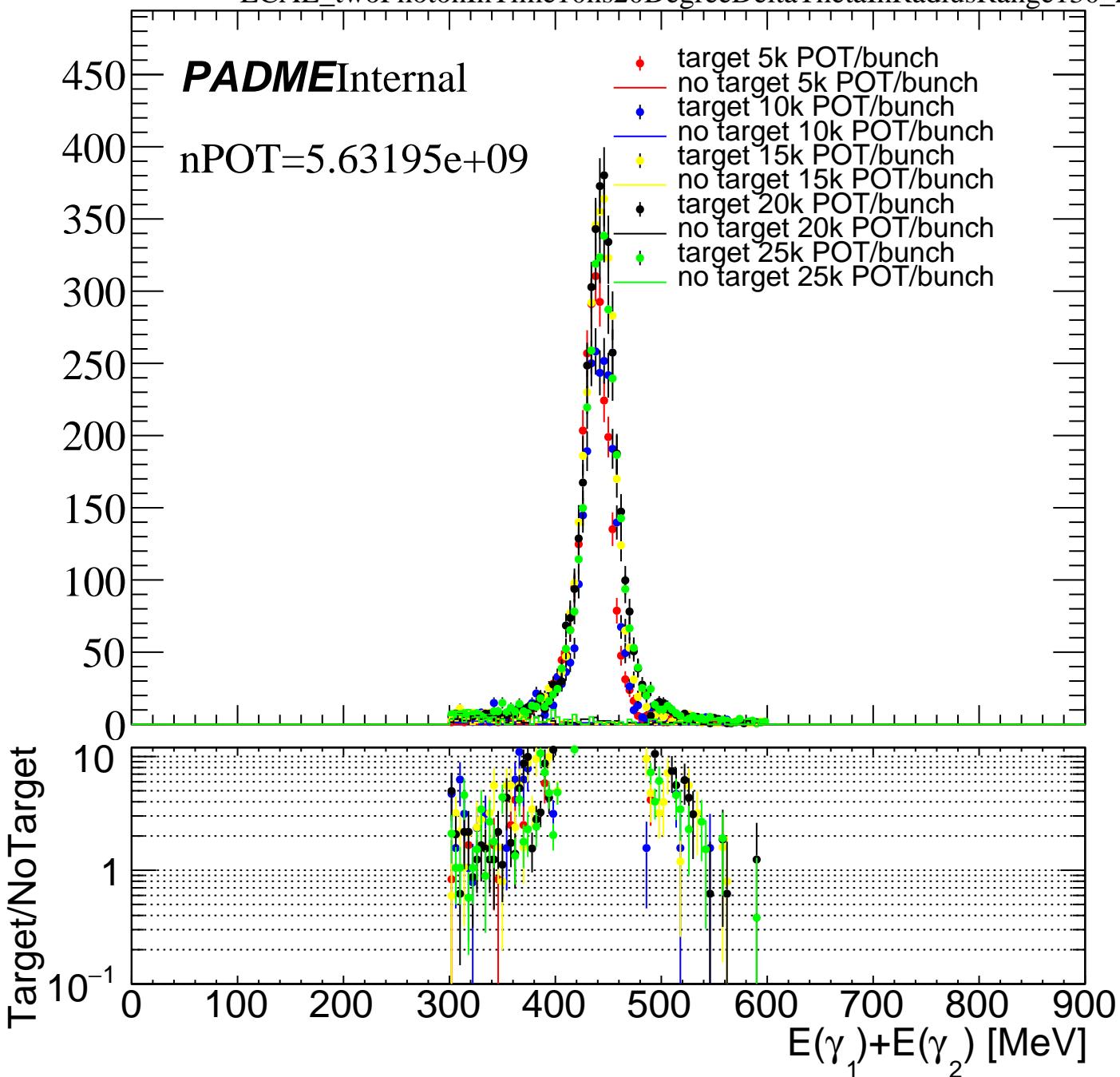


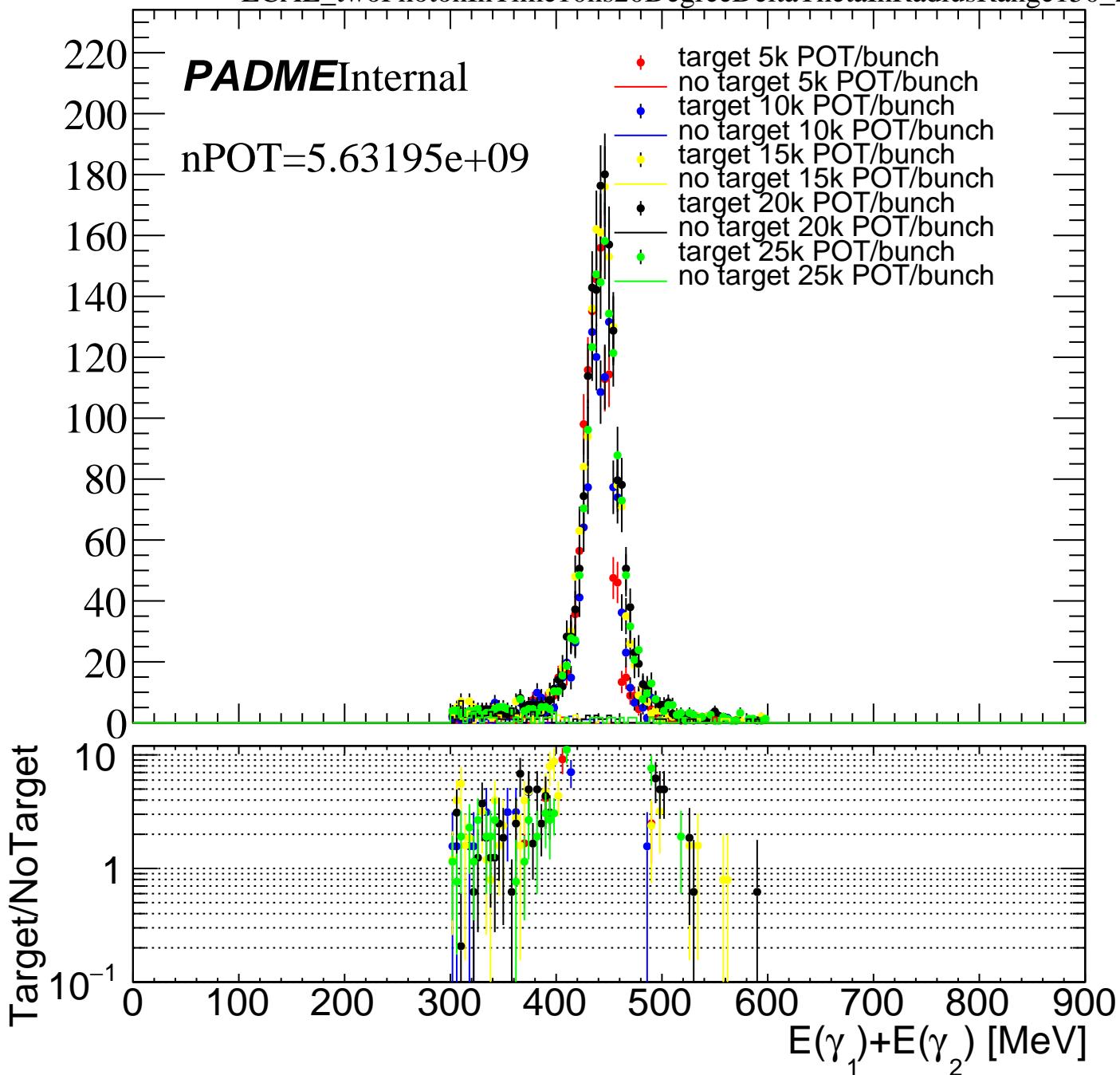
ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70_280

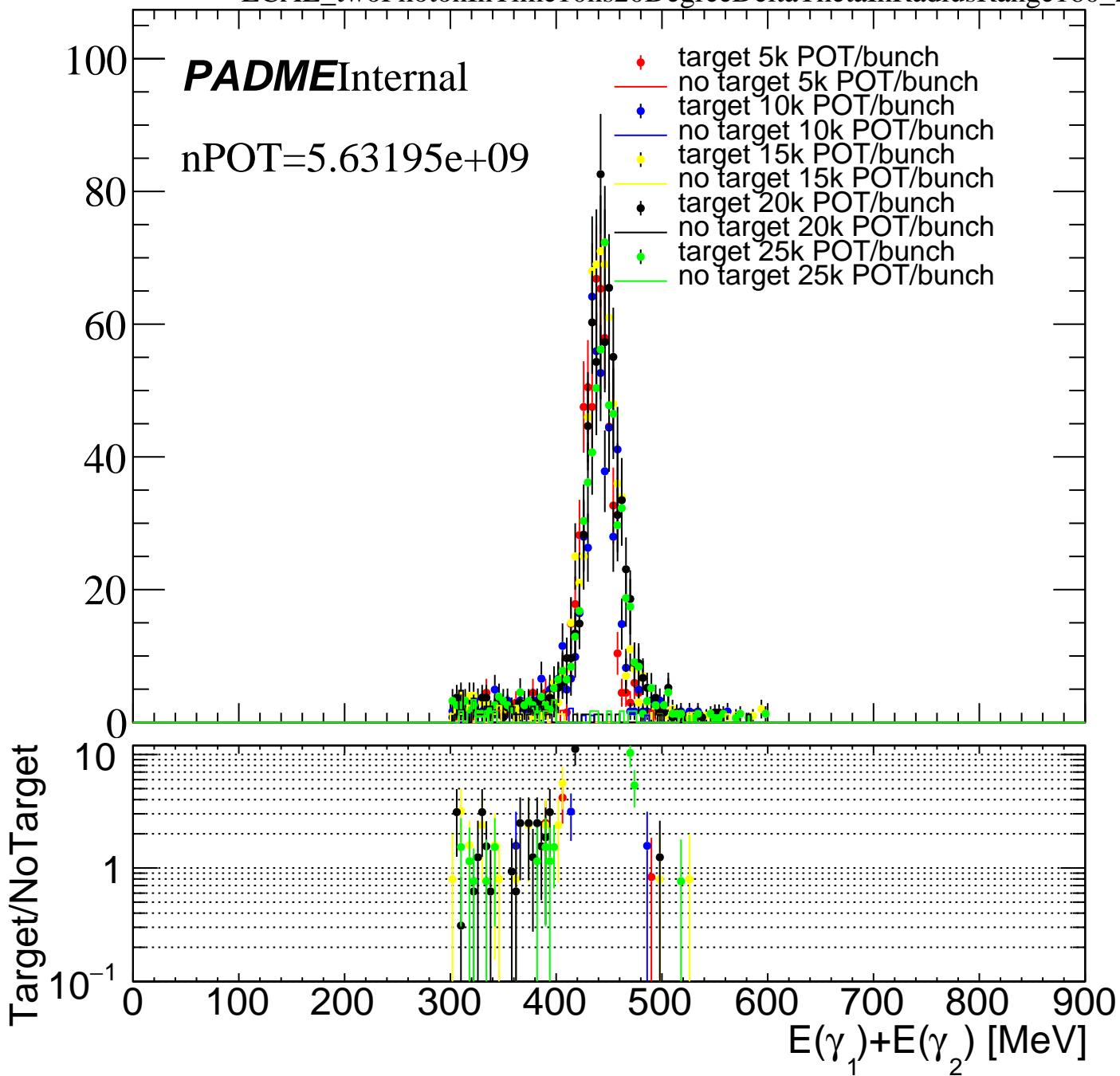




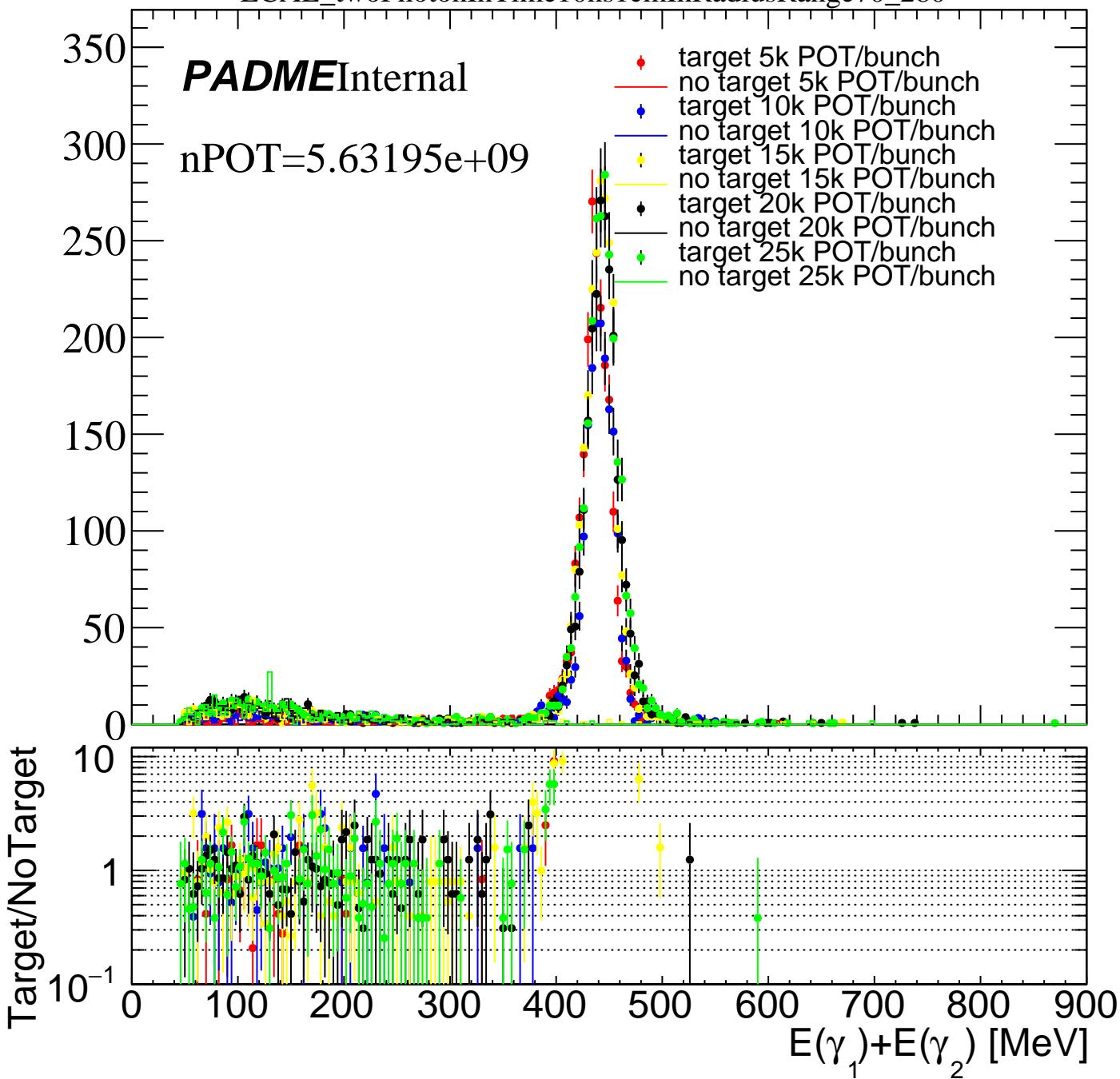




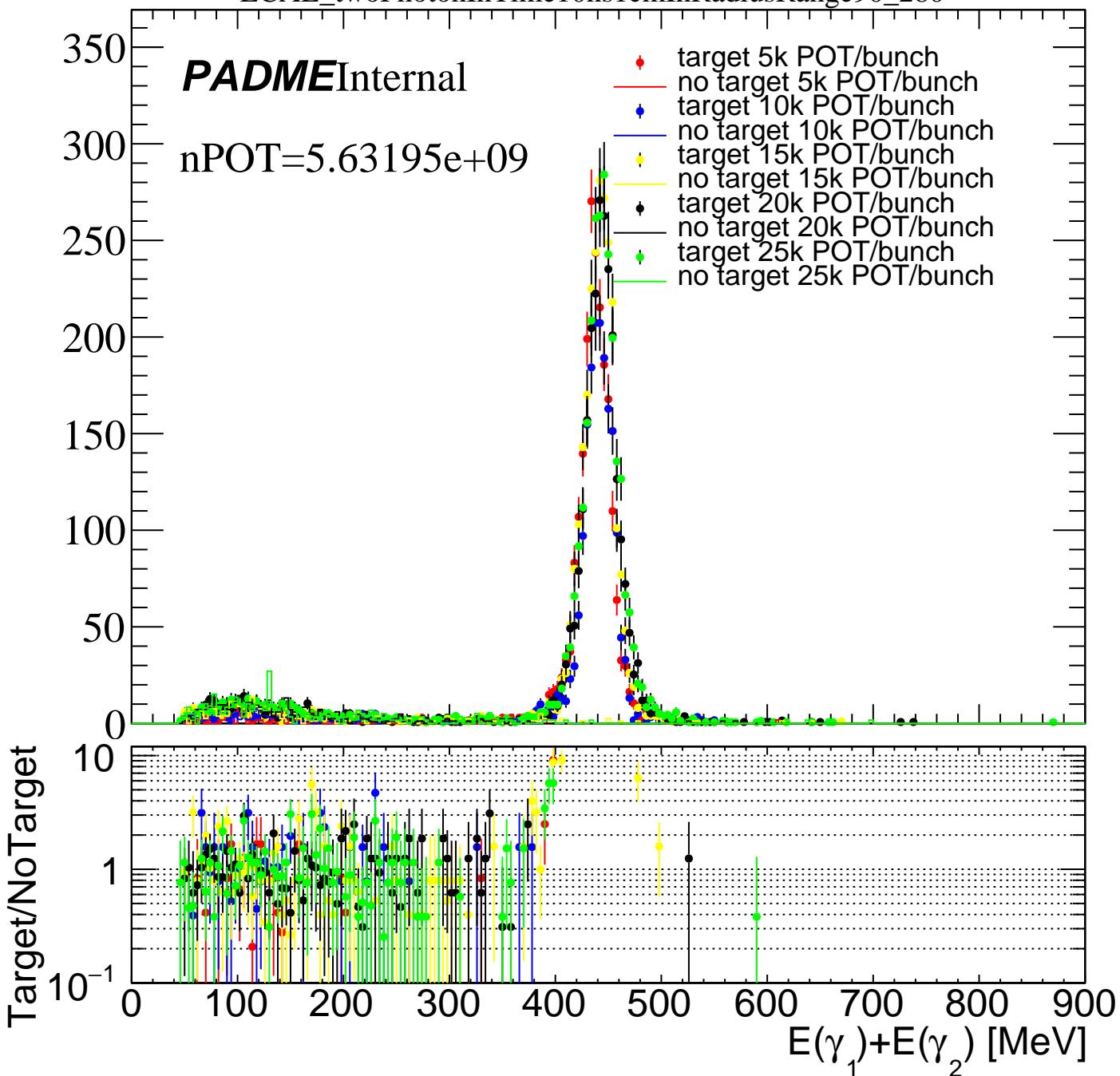




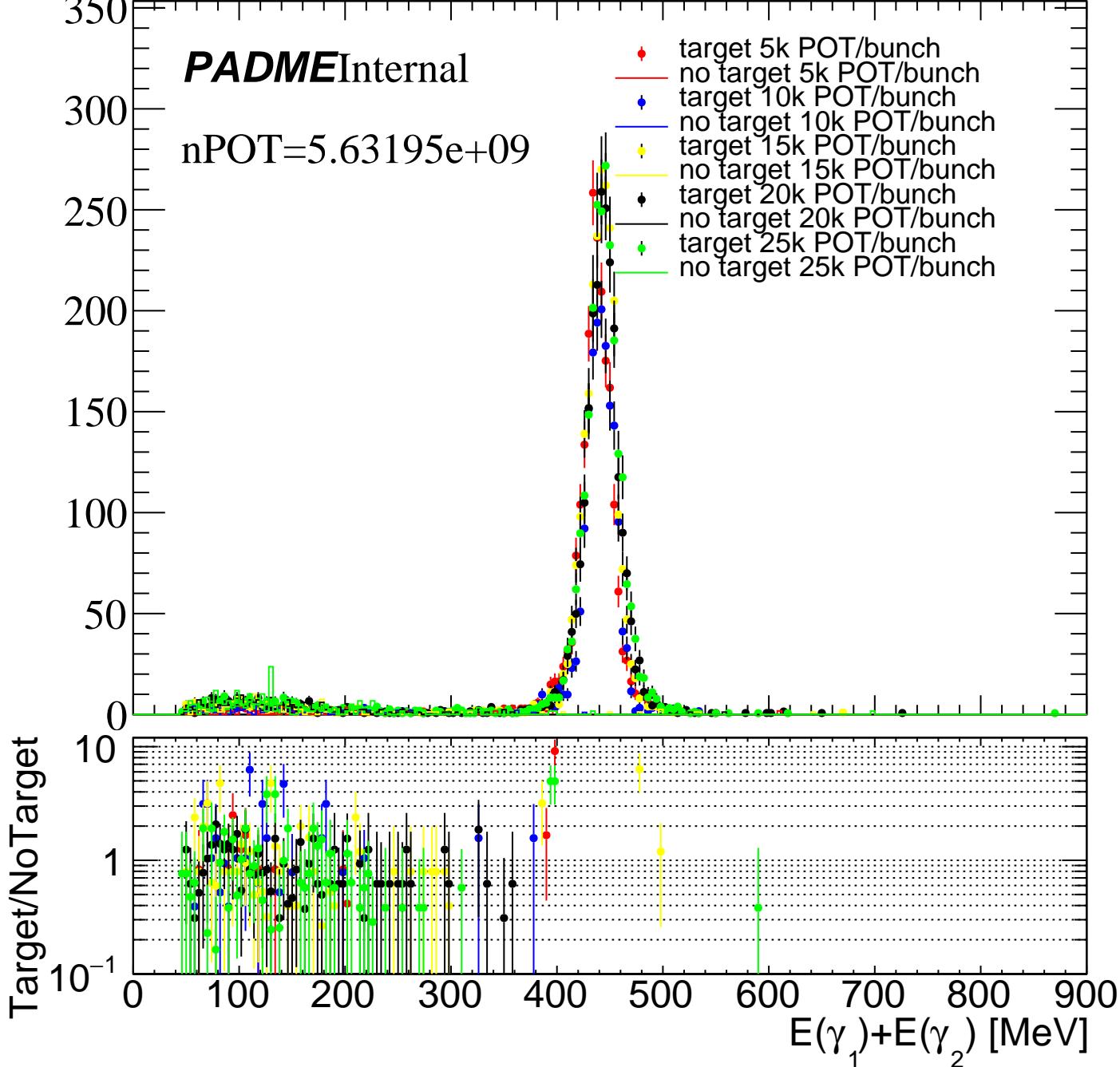
ECAL_twoPhotonInTime10ns1cmInRadiusRange70_280

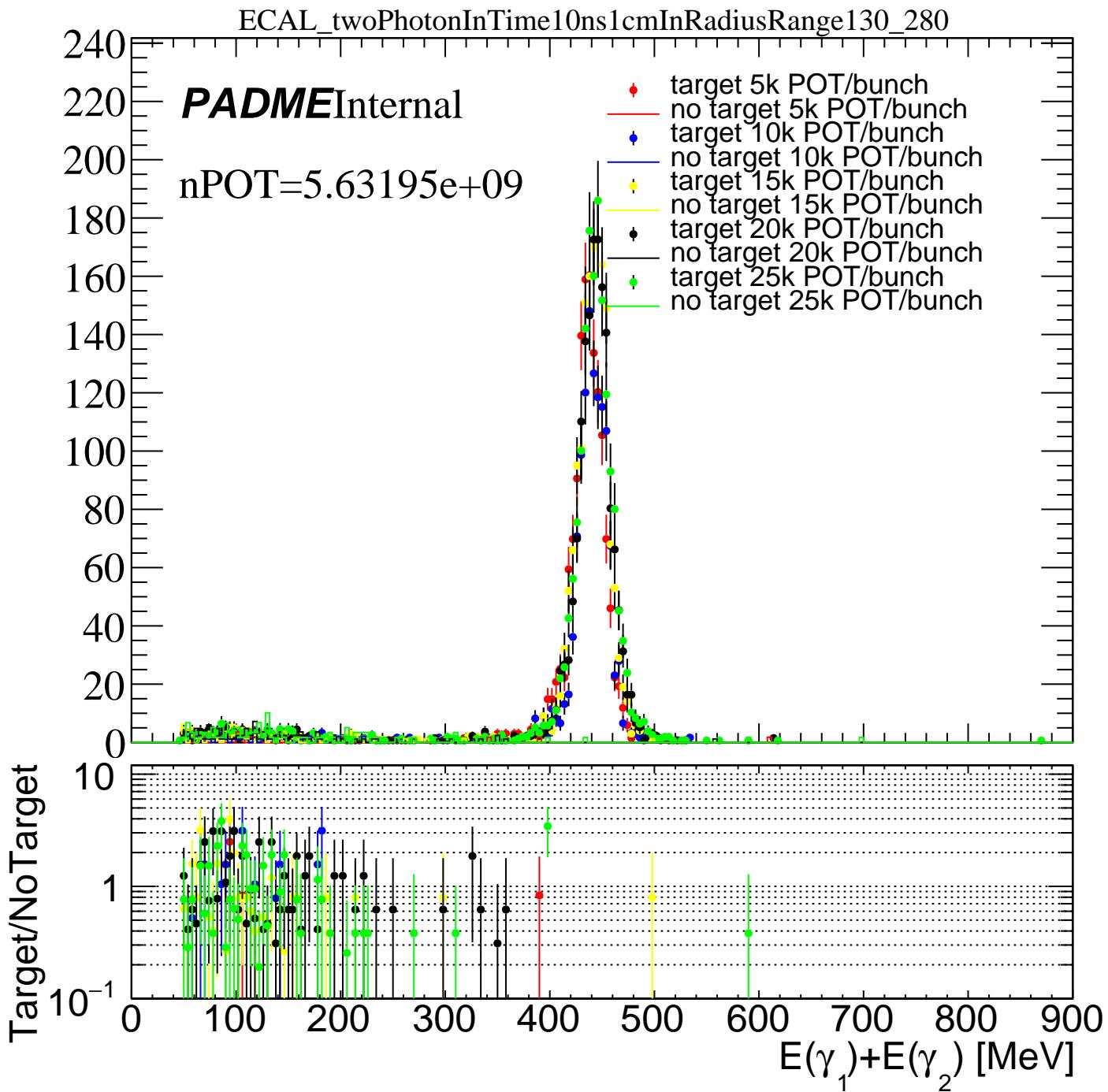


ECAL_twoPhotonInTime10ns1cmInRadiusRange90_280

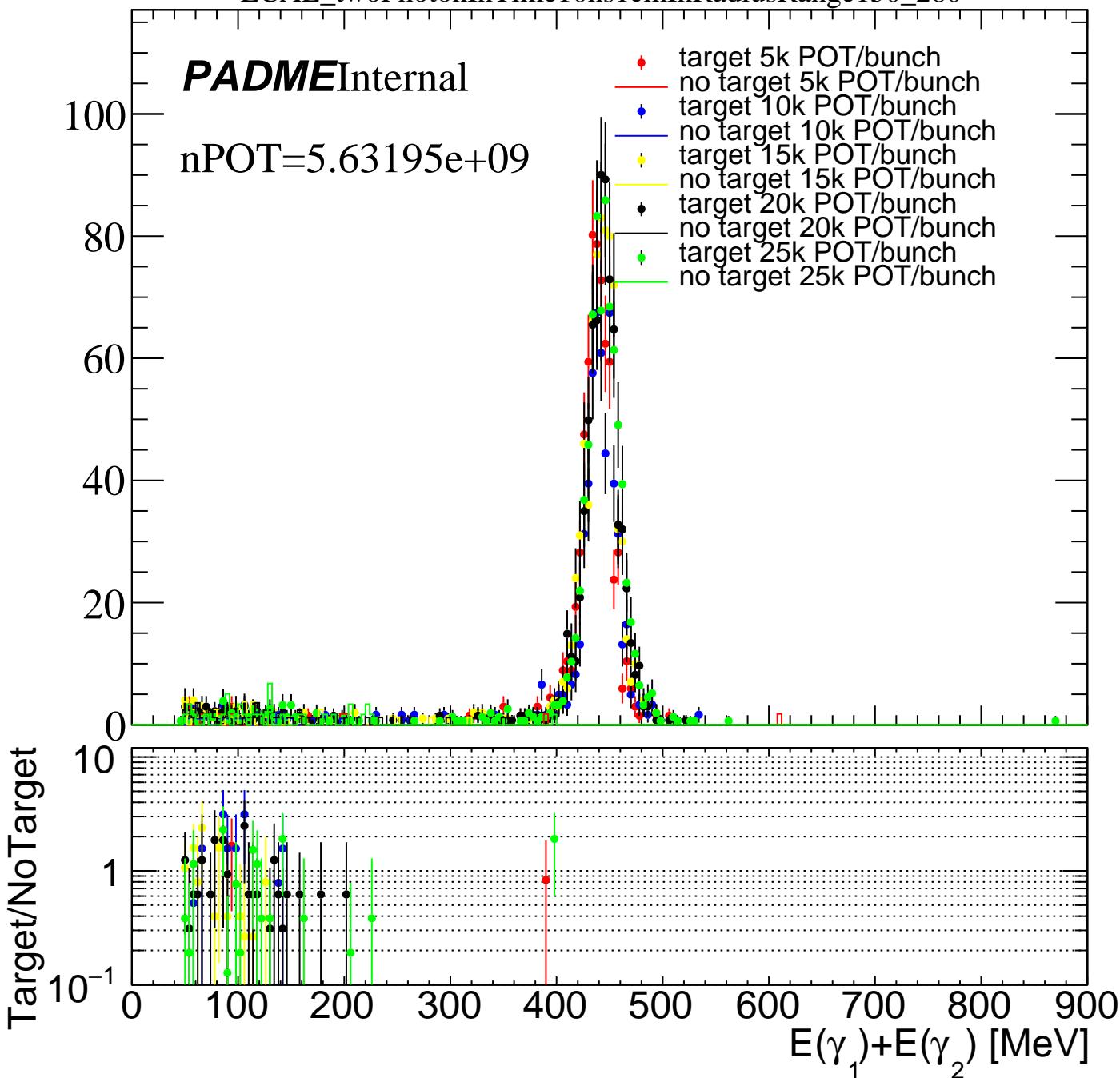


ECAL_twoPhotonInTime10ns1cmInRadiusRange110_280

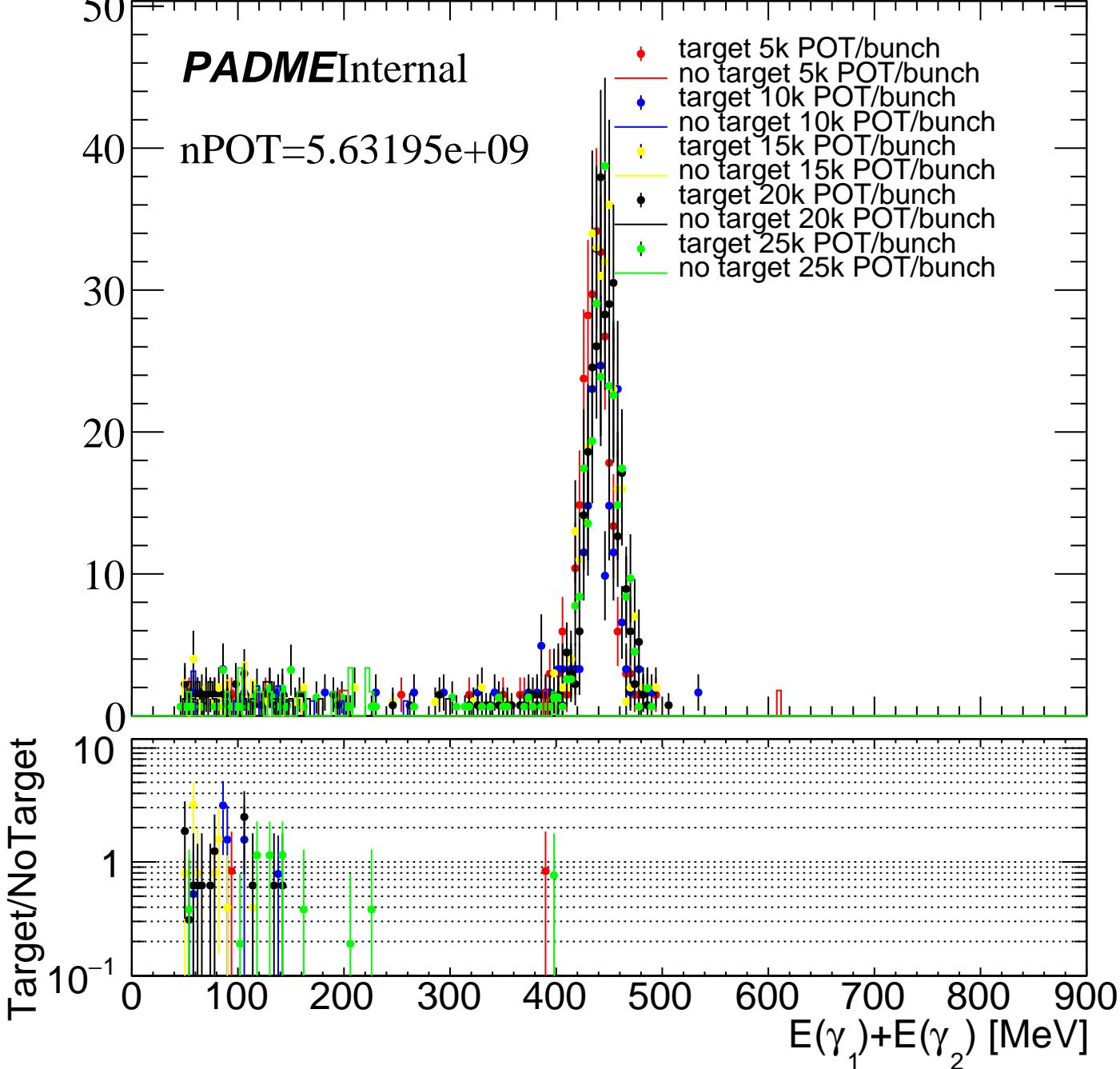




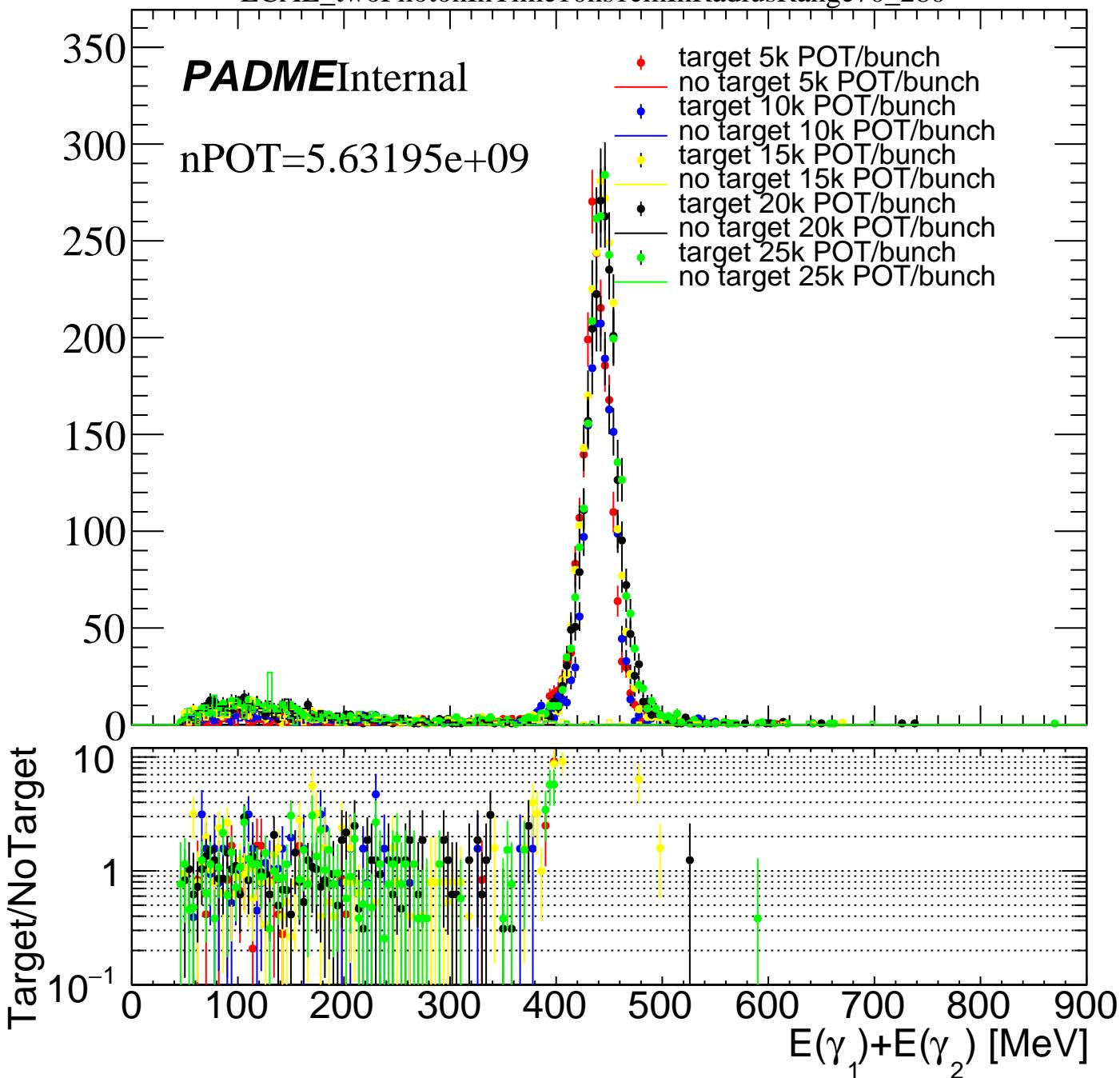
ECAL_twoPhotonInTime10ns1cmInRadiusRange150_280



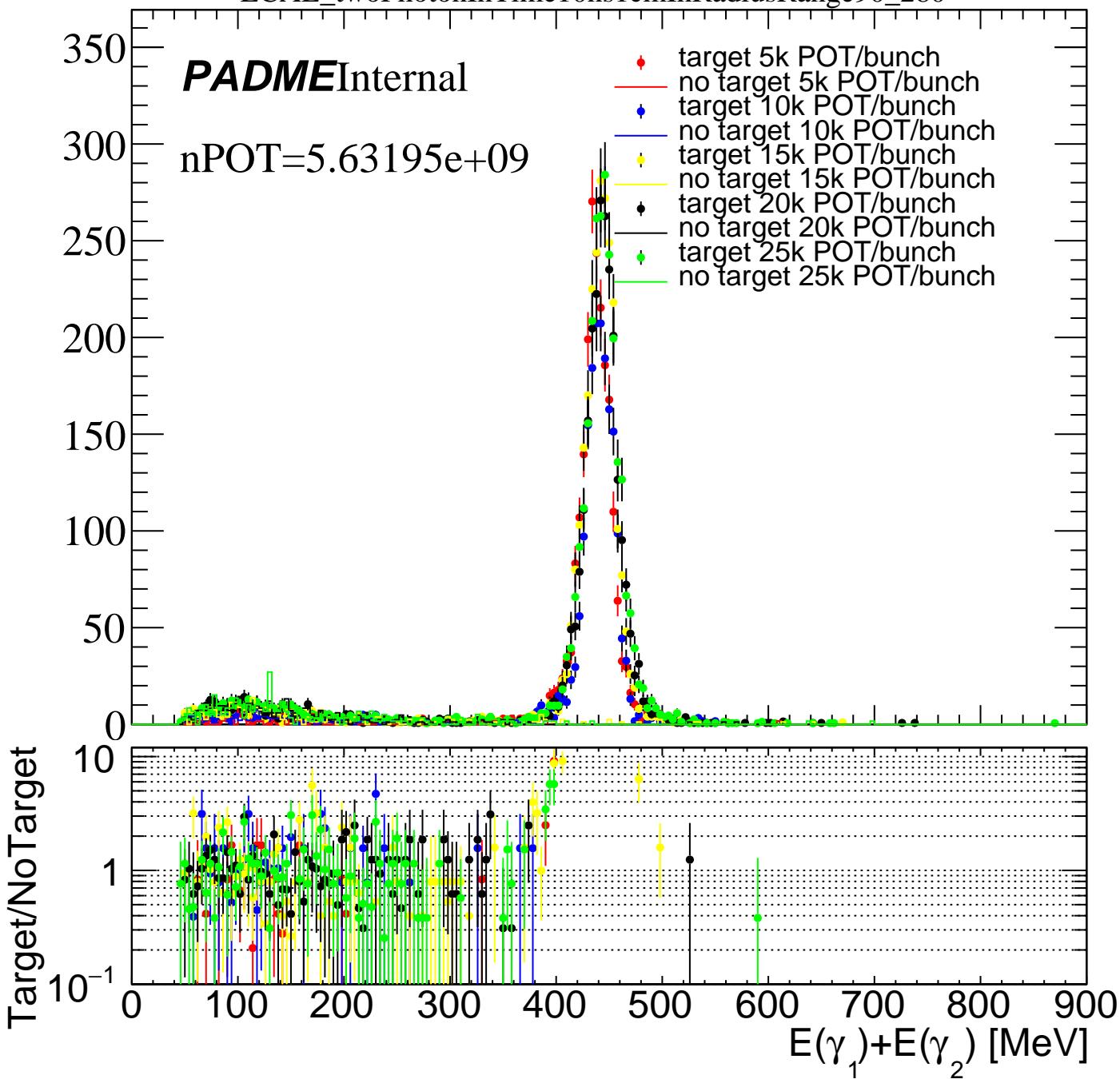
ECAL_twoPhotonInTime10ns1cmInRadiusRange160_280



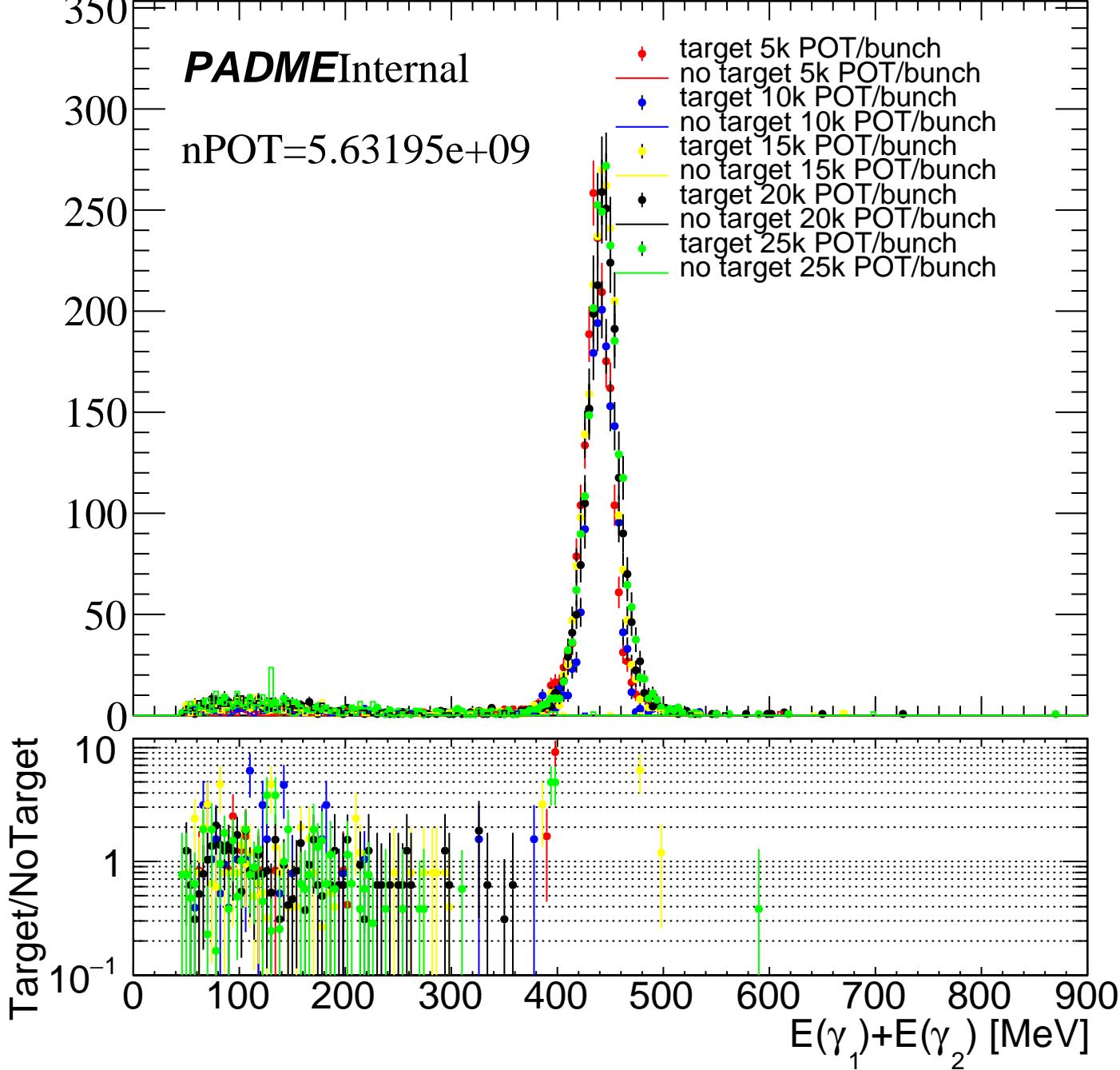
ECAL_twoPhotonInTime10ns1cmInRadiusRange70_280

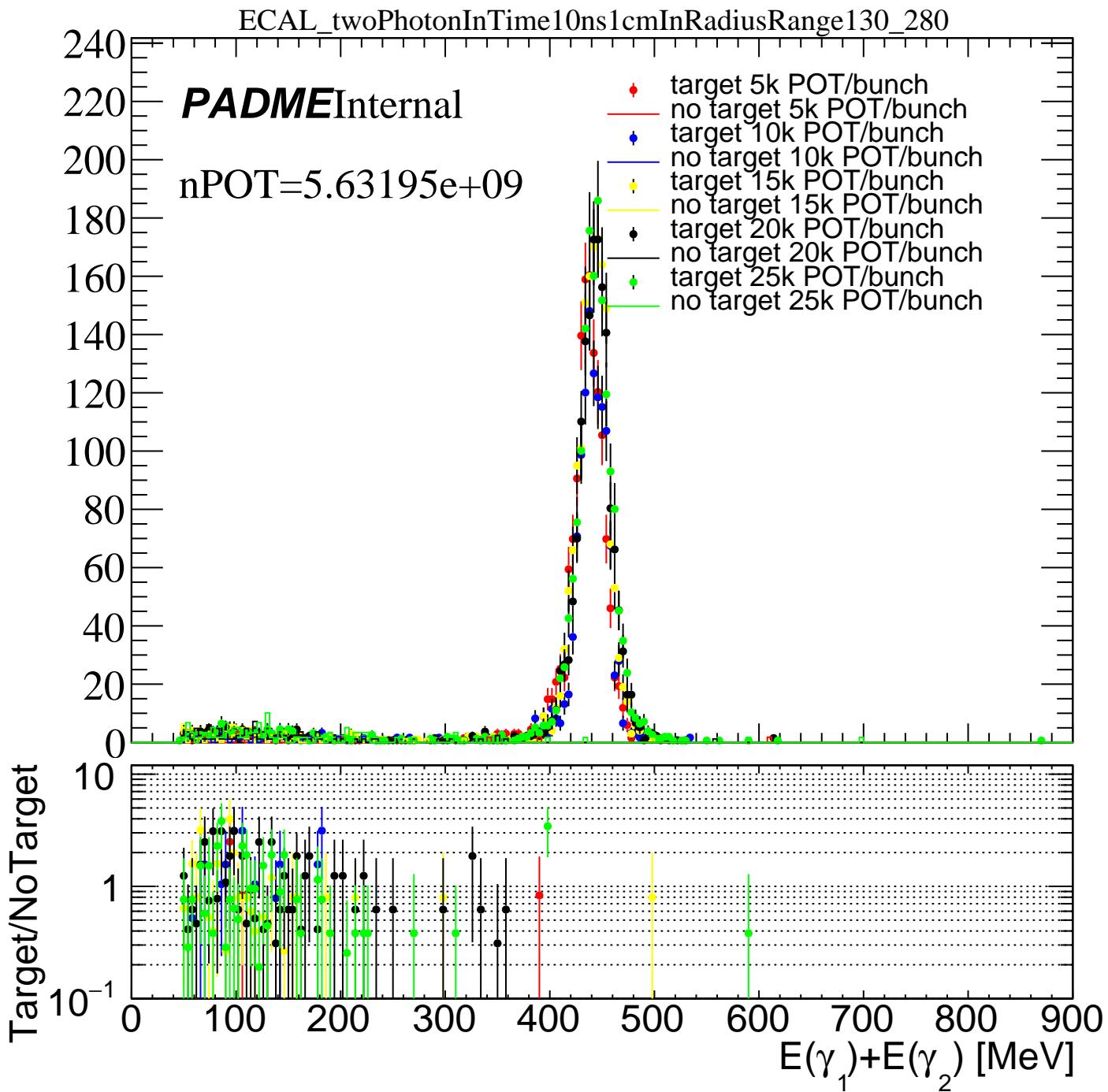


ECAL_twoPhotonInTime10ns1cmInRadiusRange90_280

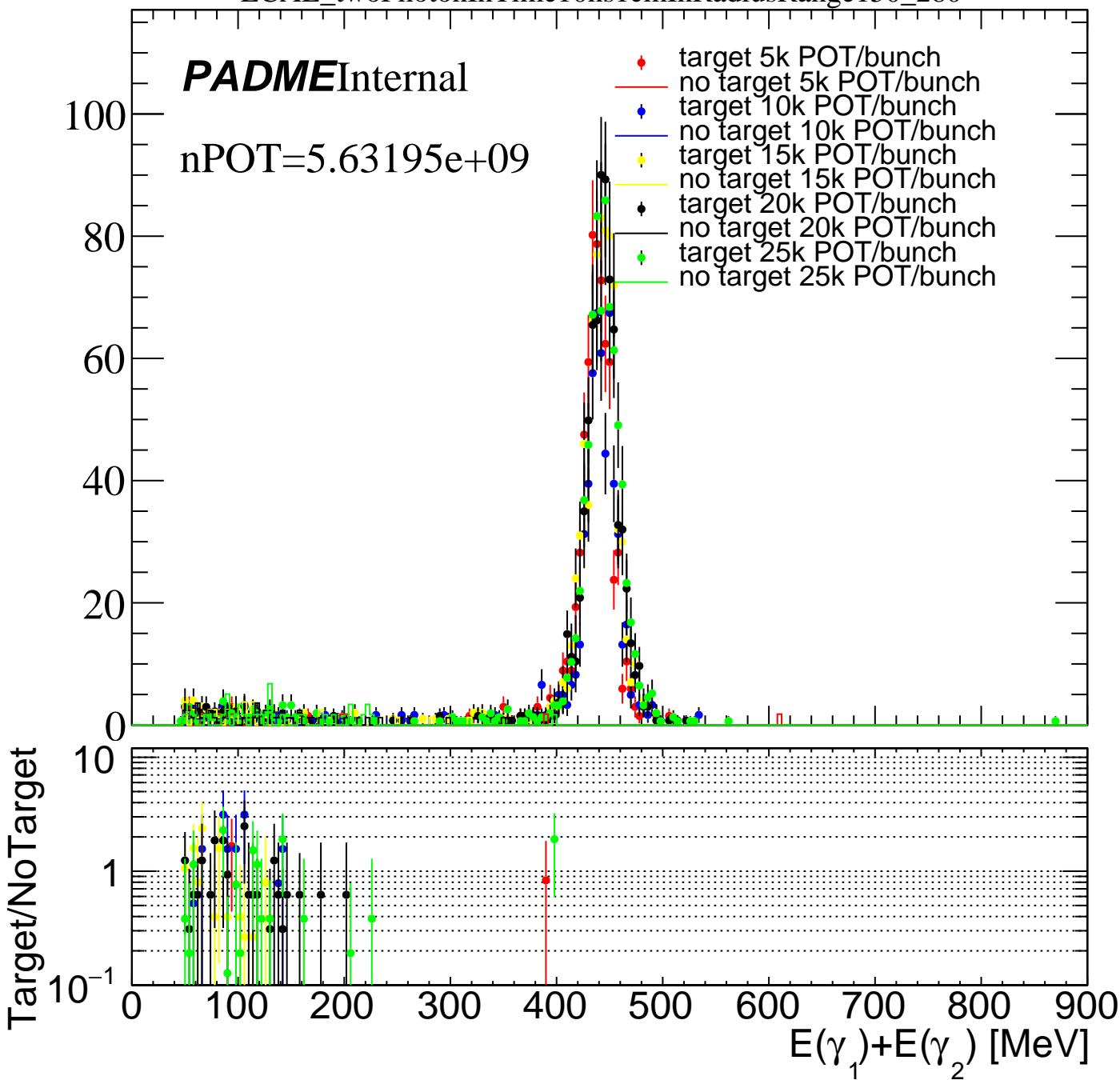


ECAL_twoPhotonInTime10ns1cmInRadiusRange110_280

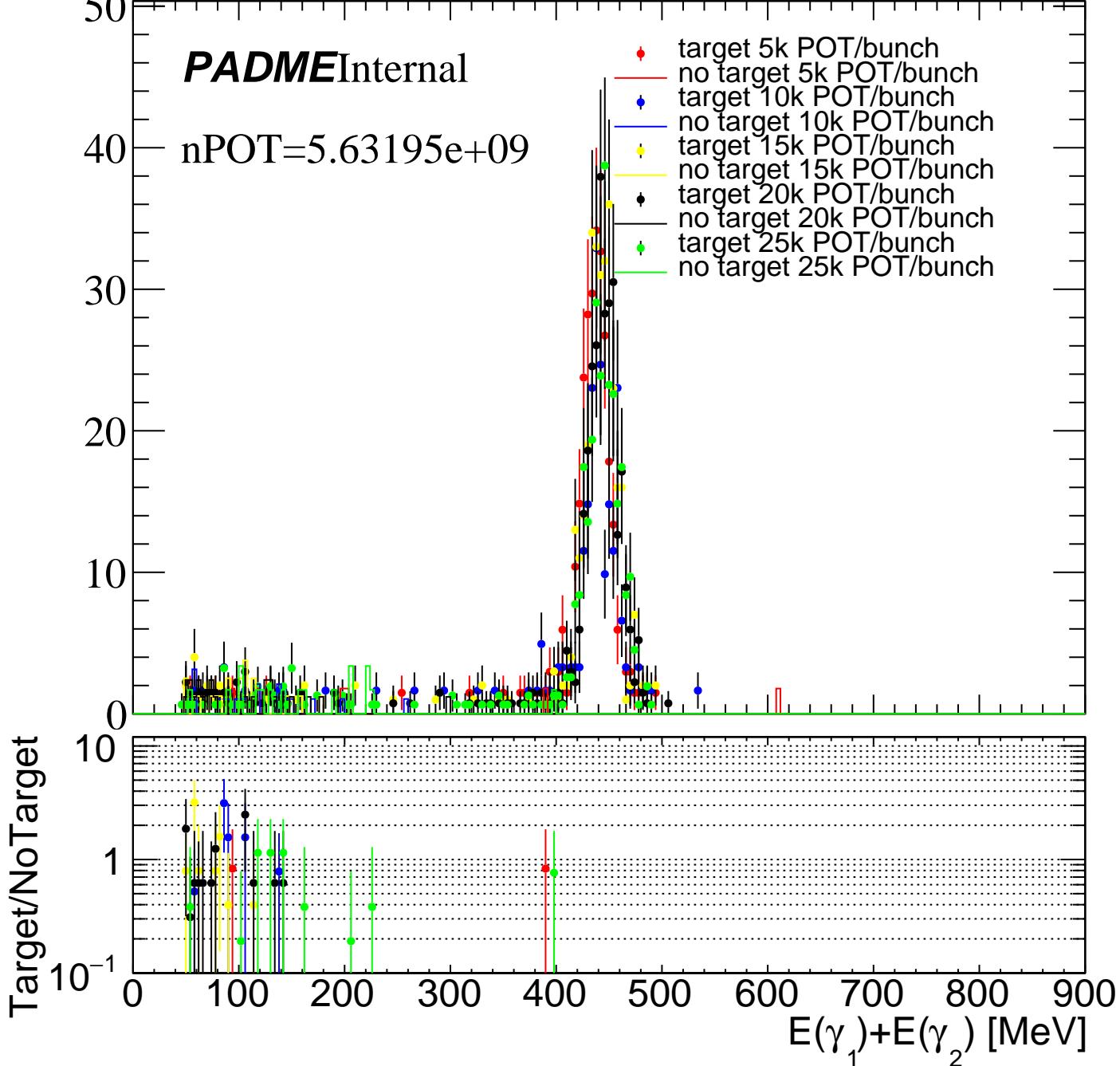


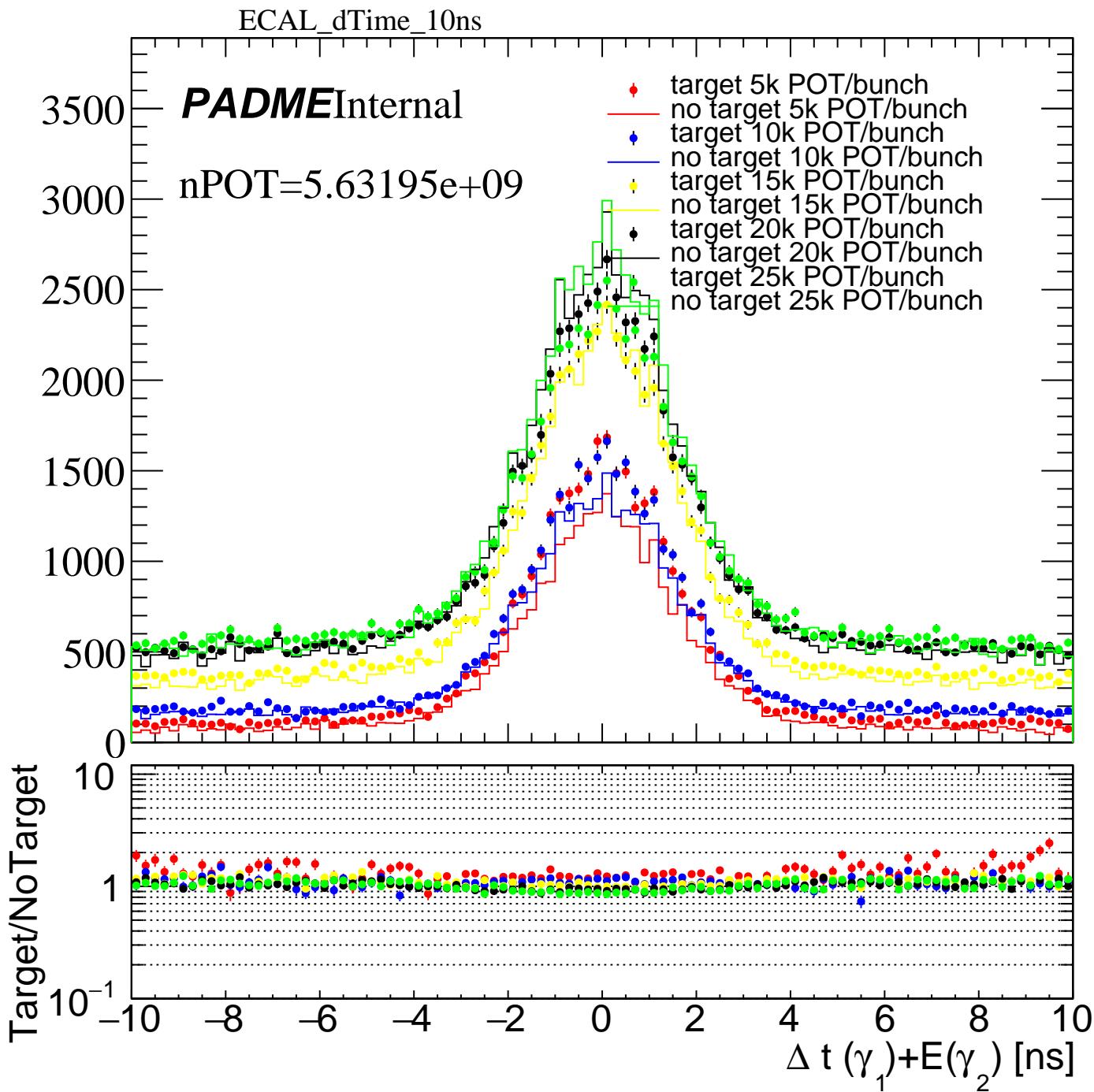


ECAL_twoPhotonInTime10ns1cmInRadiusRange150_280

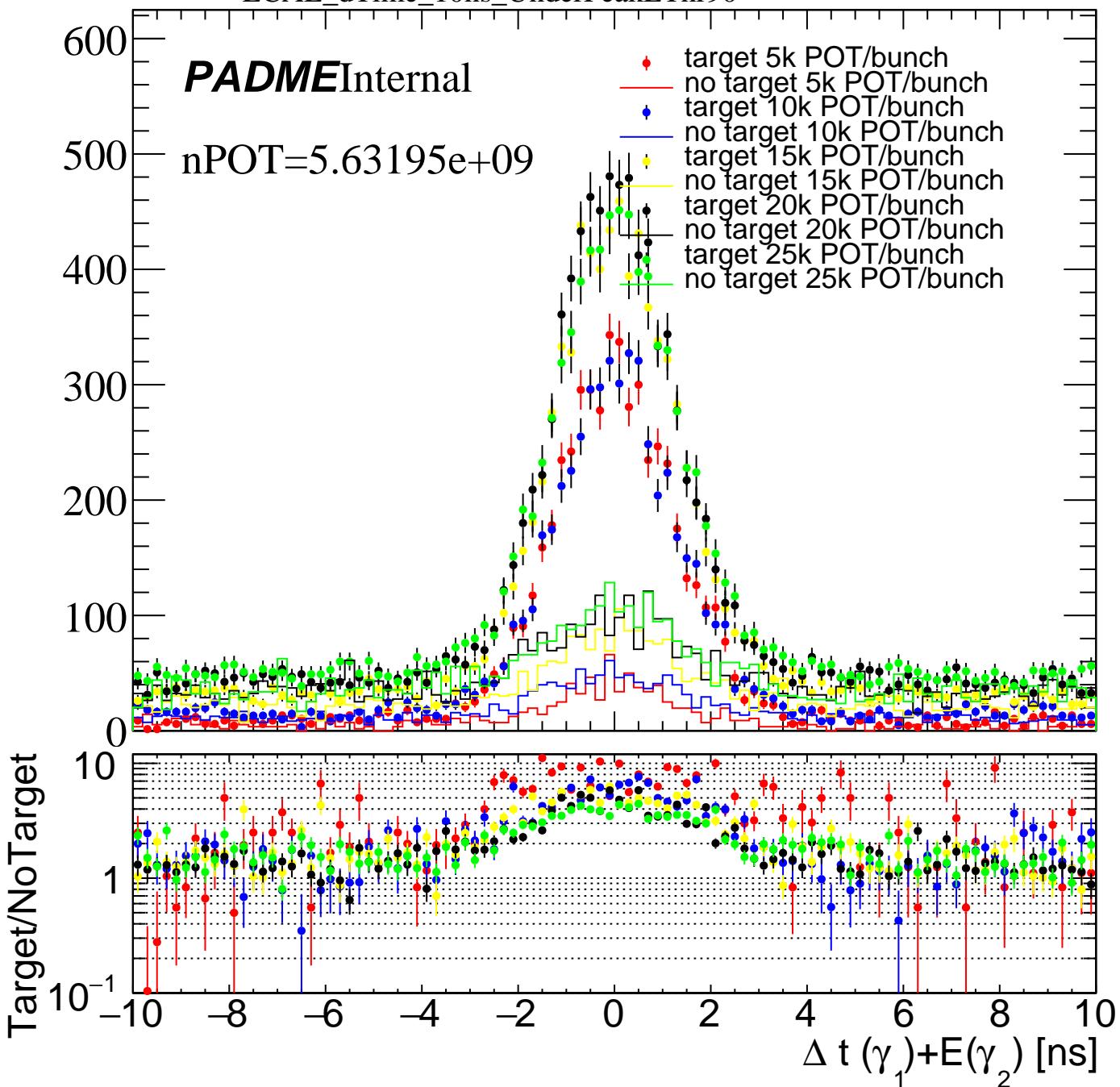


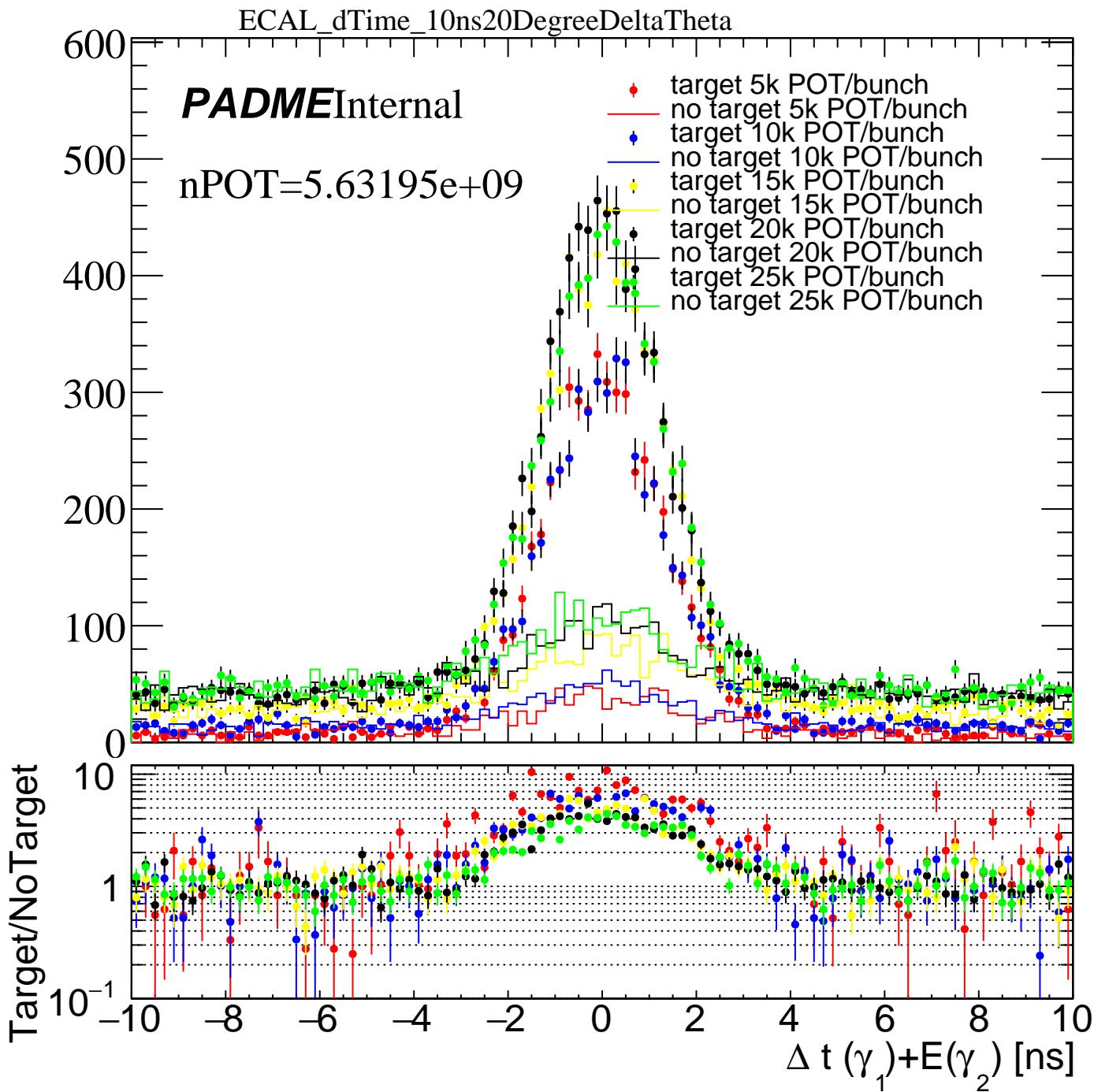
ECAL_twoPhotonInTime10ns1cmInRadiusRange160_280



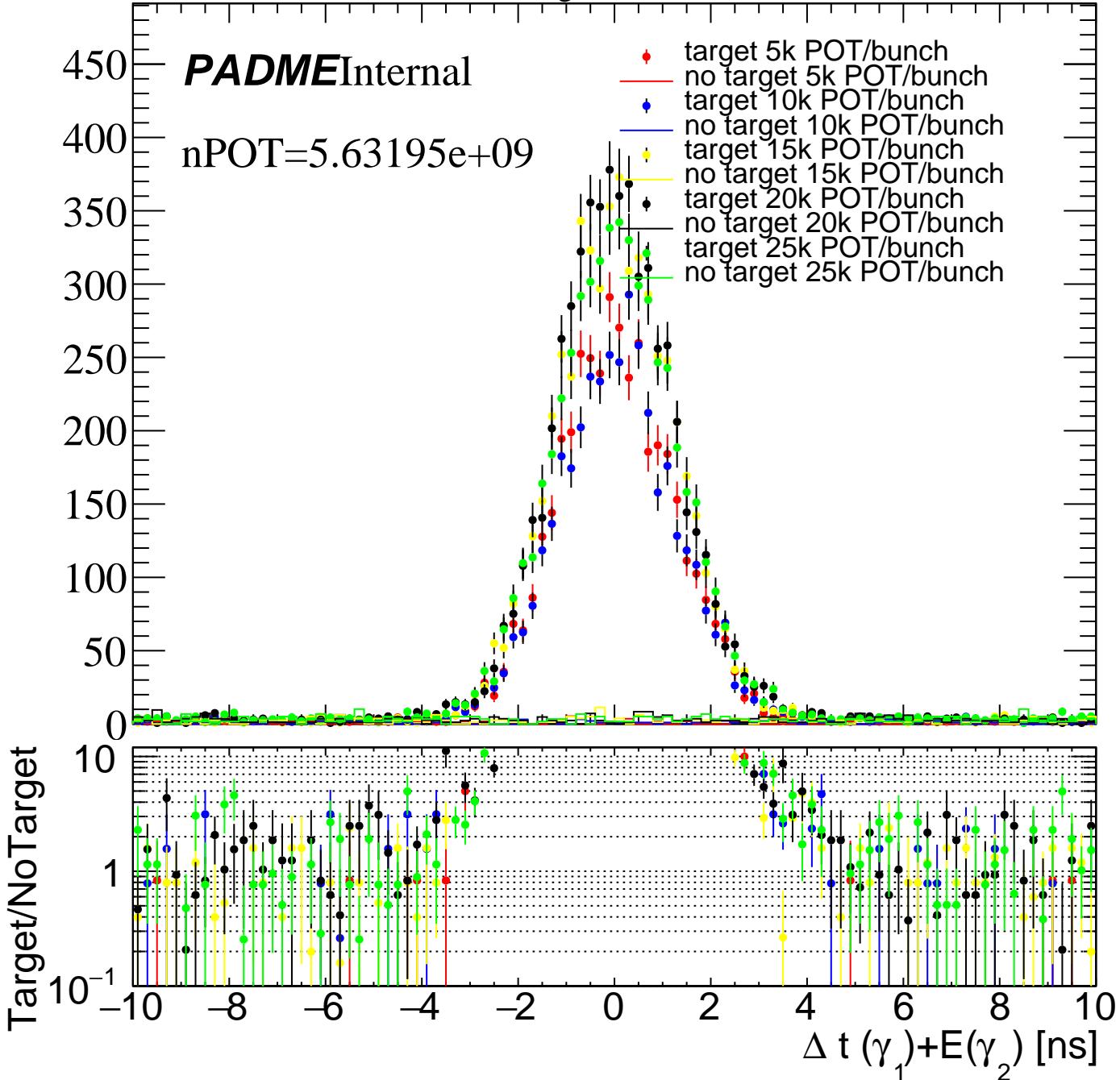


ECAL_dTime_10ns_UnderPeakETHr90

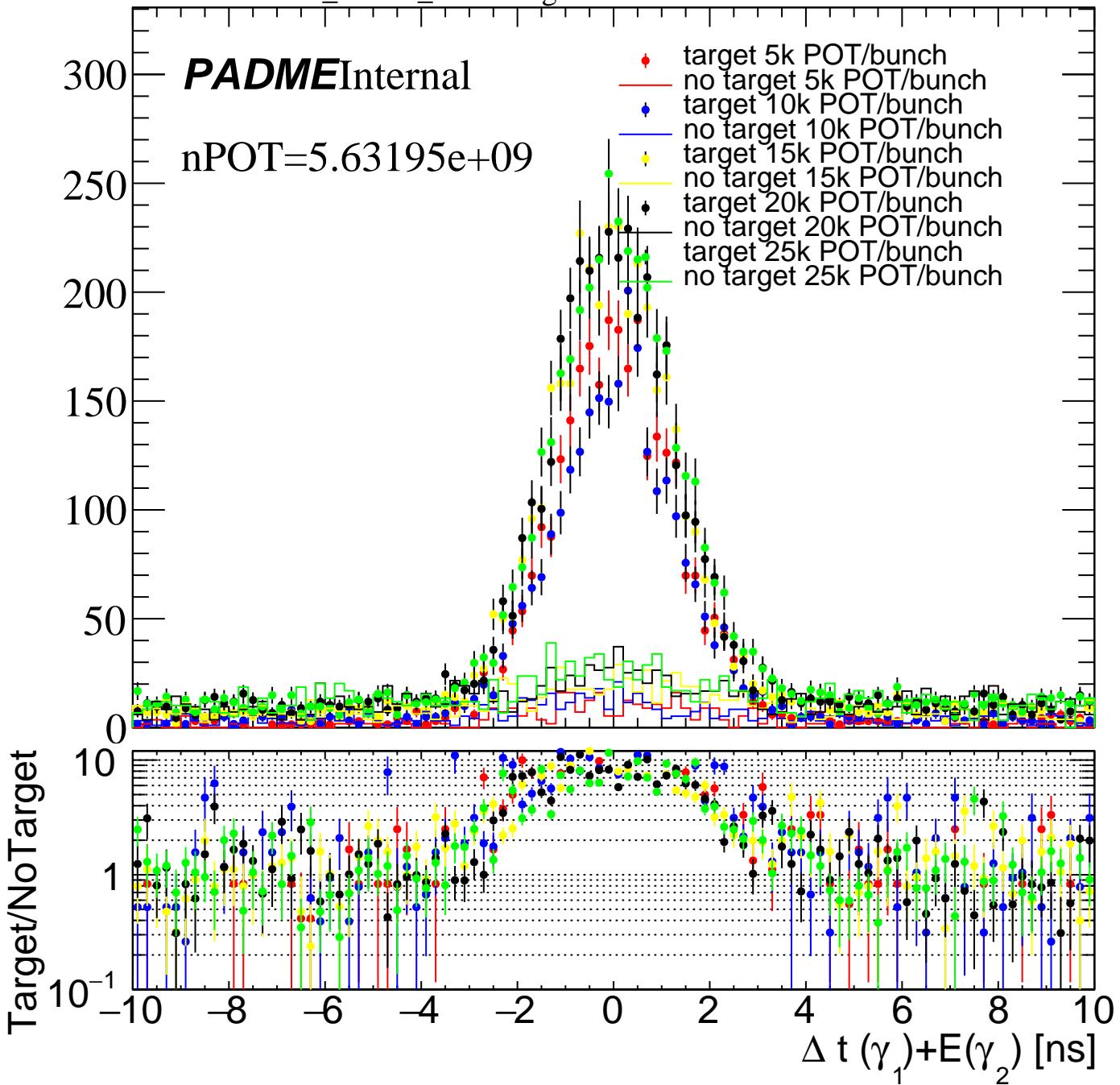




ECAL_dTime_10ns20DegreeDeltaThetaUnderPeakEThr90



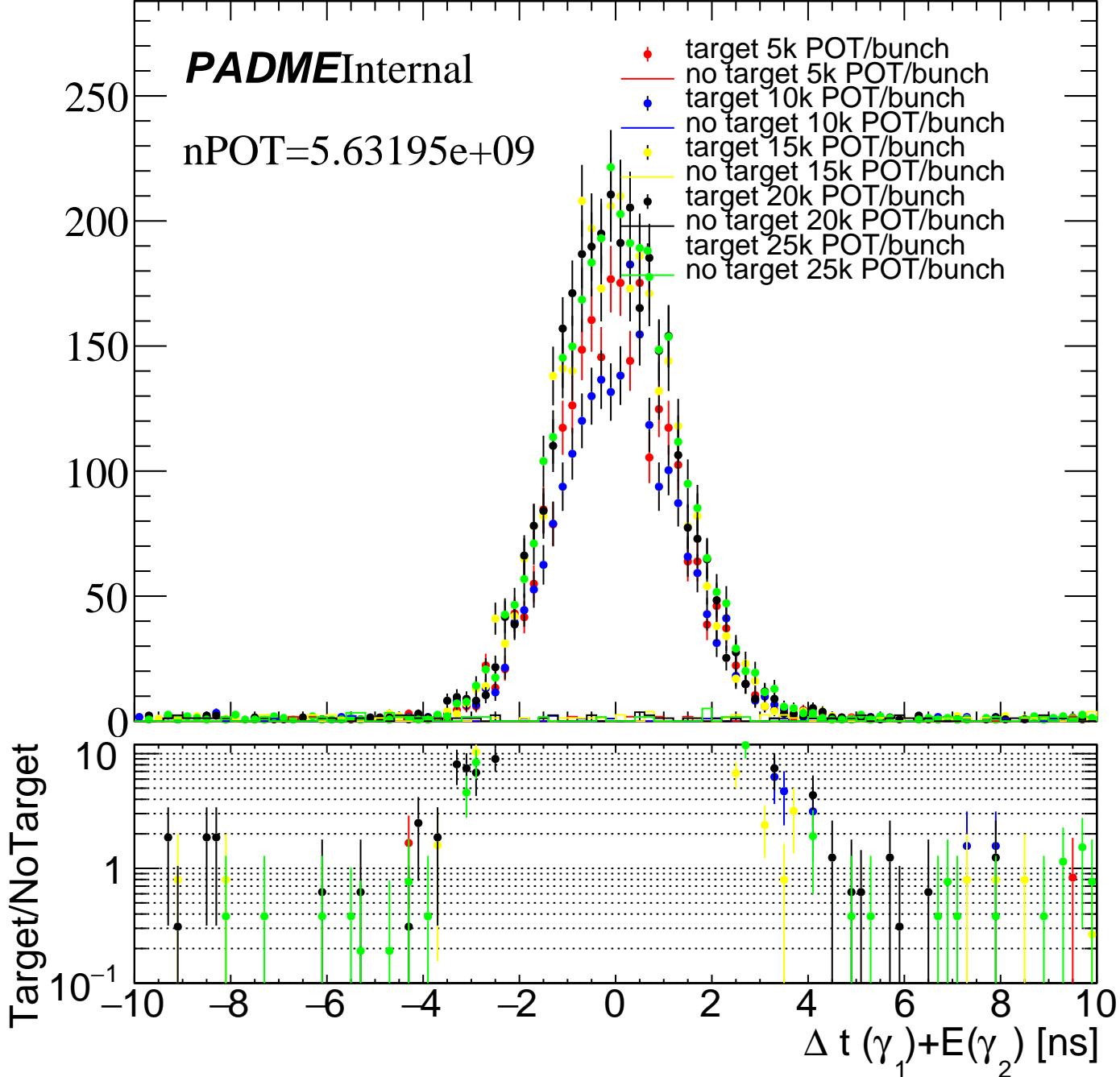
ECAL_dTime_10ns5DegreeDeltaTheta



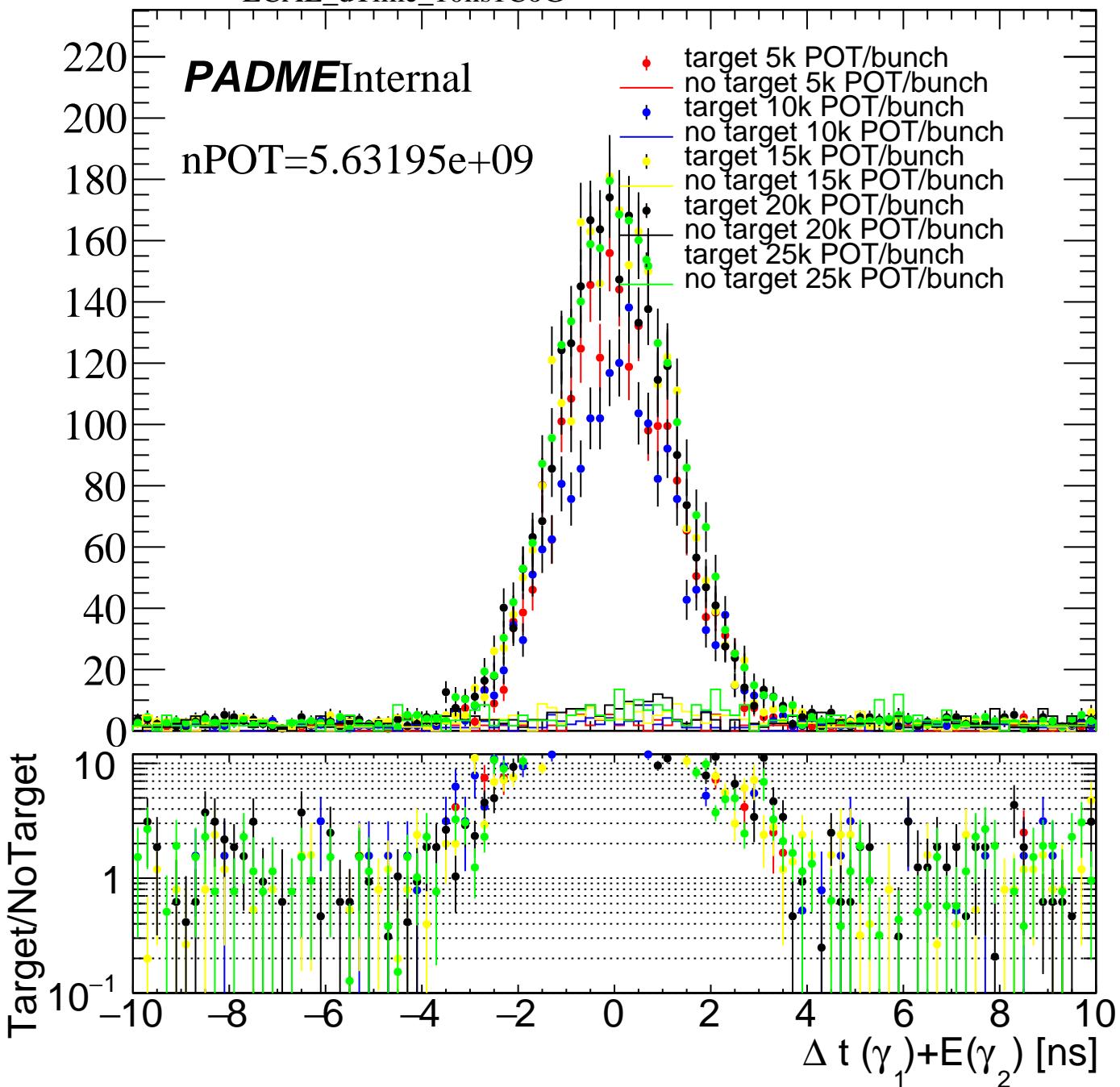
ECAL_dTime_10ns5DegreeDeltaThetaUnderPeakEThr90

PADME Internal

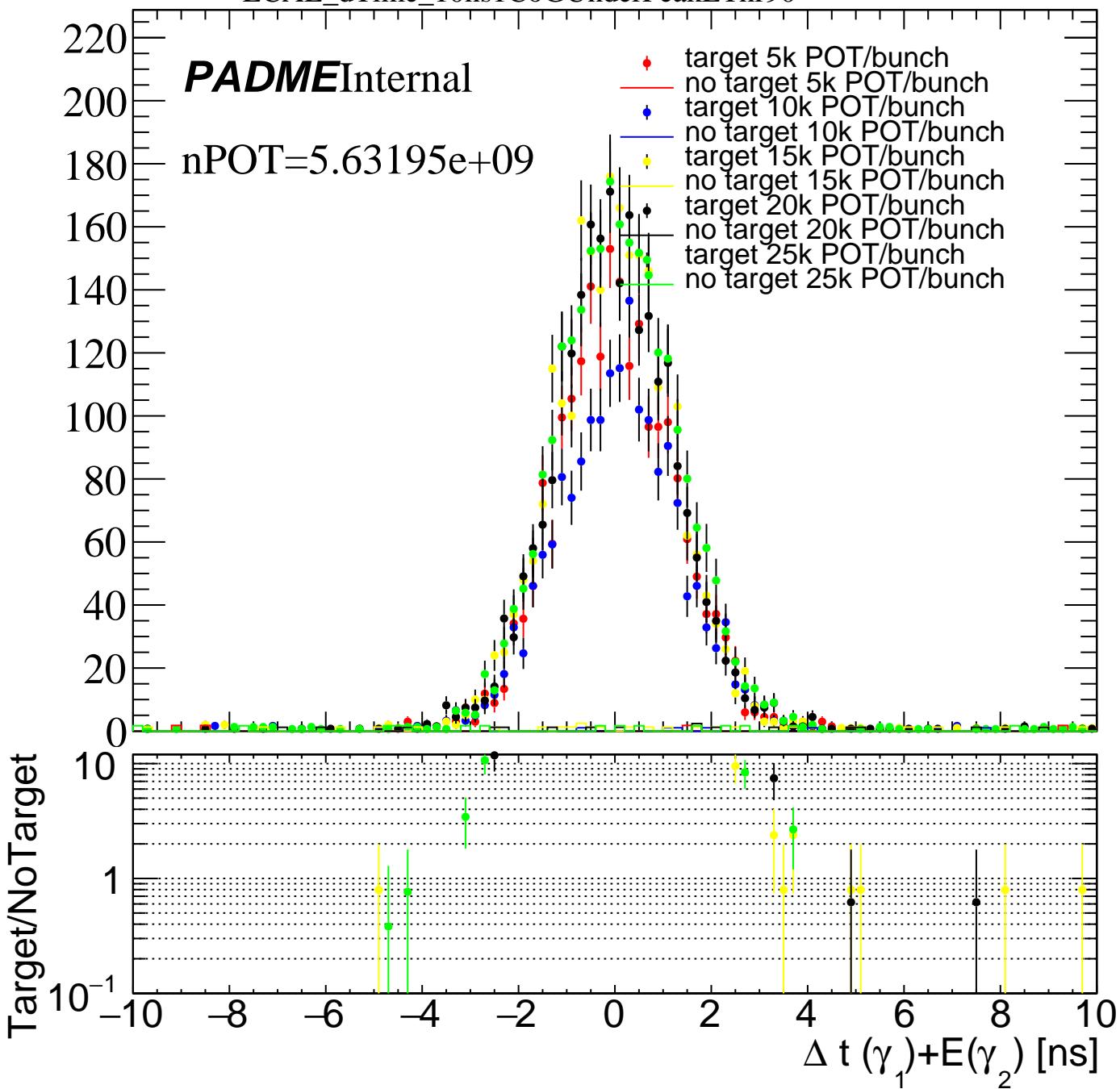
nPOT=5.63195e+09



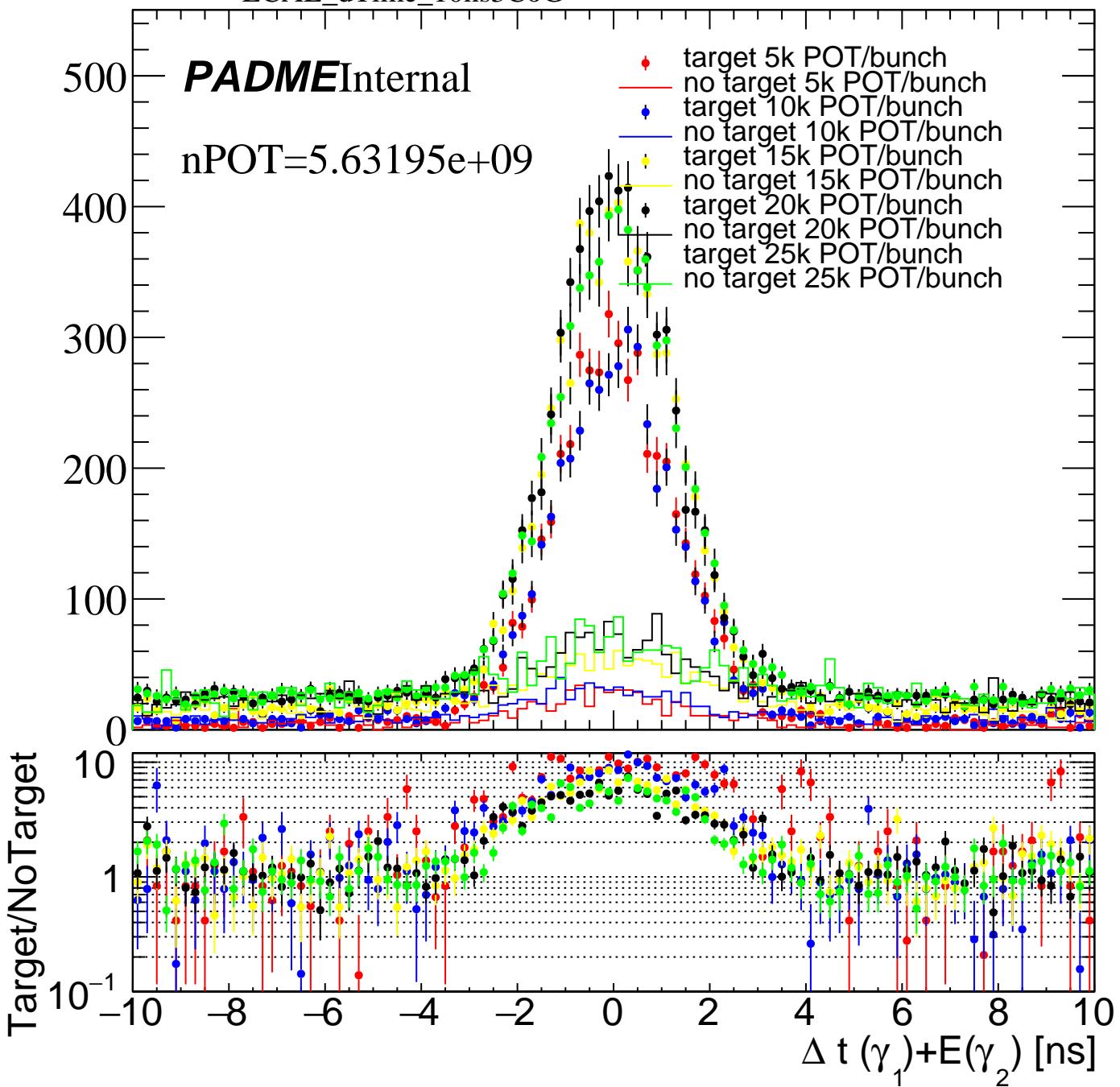
ECAL_dTime_10ns1CoG



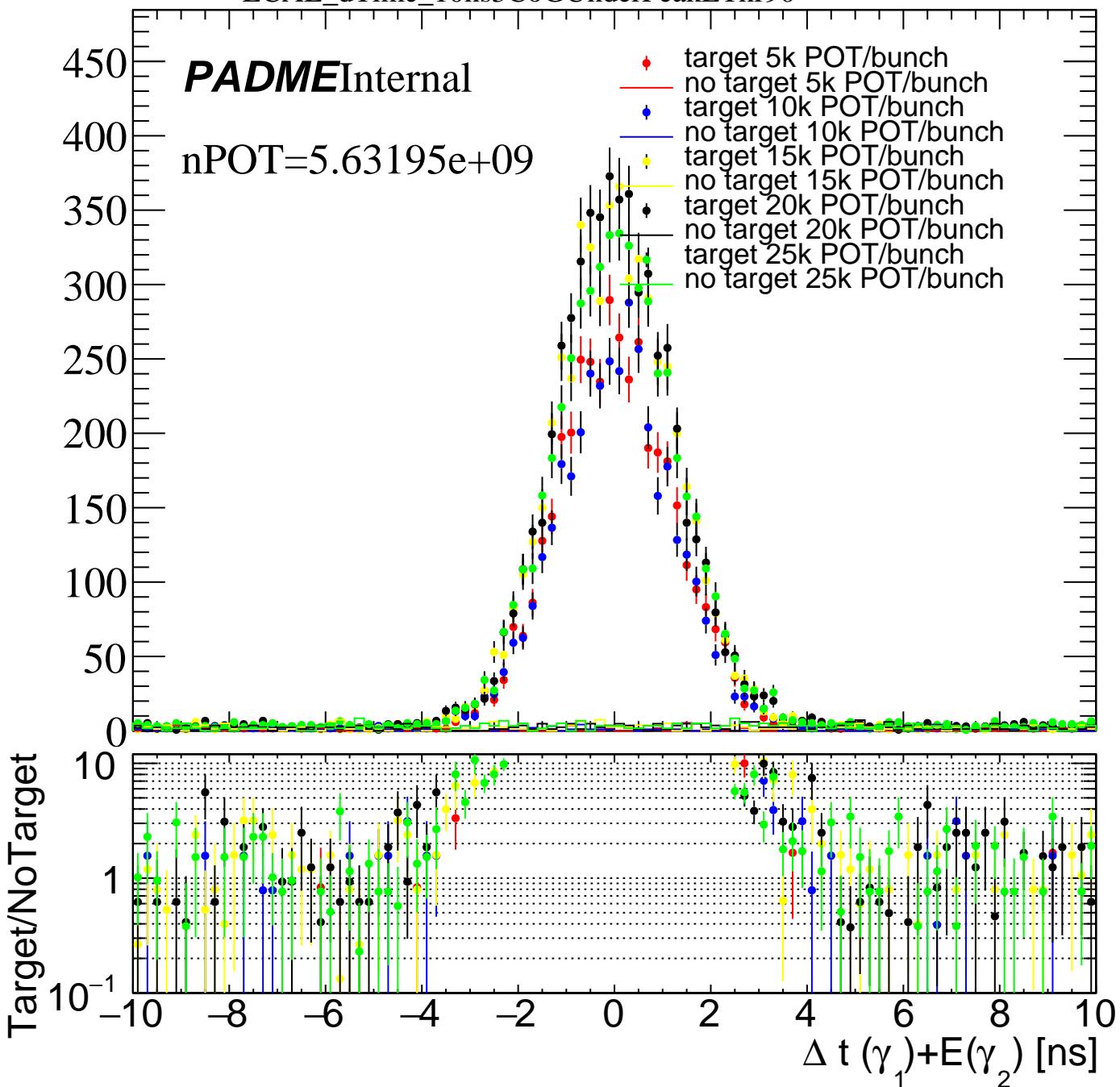
ECAL_dTime_10ns1CoGUnderPeakETHr90

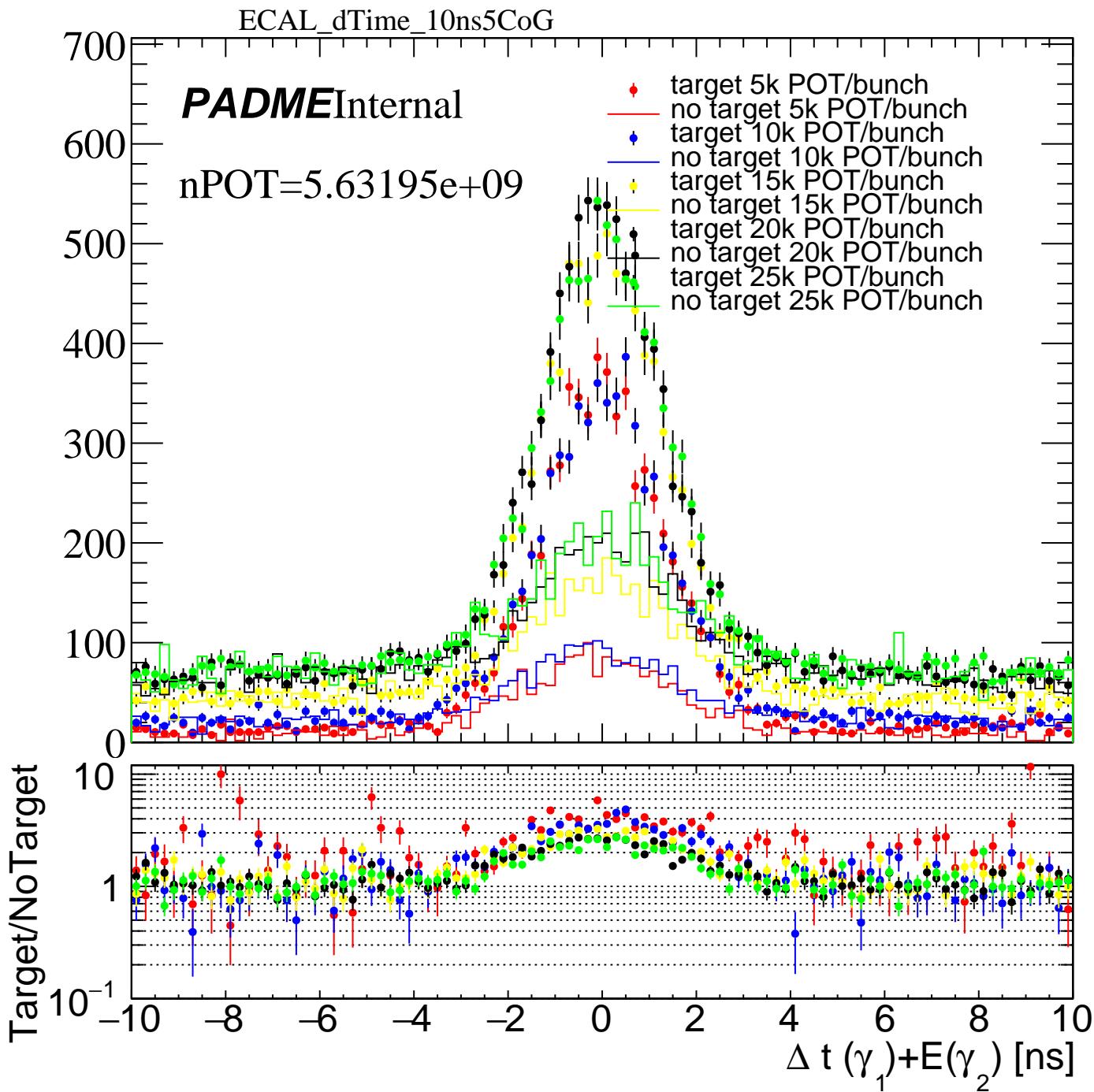


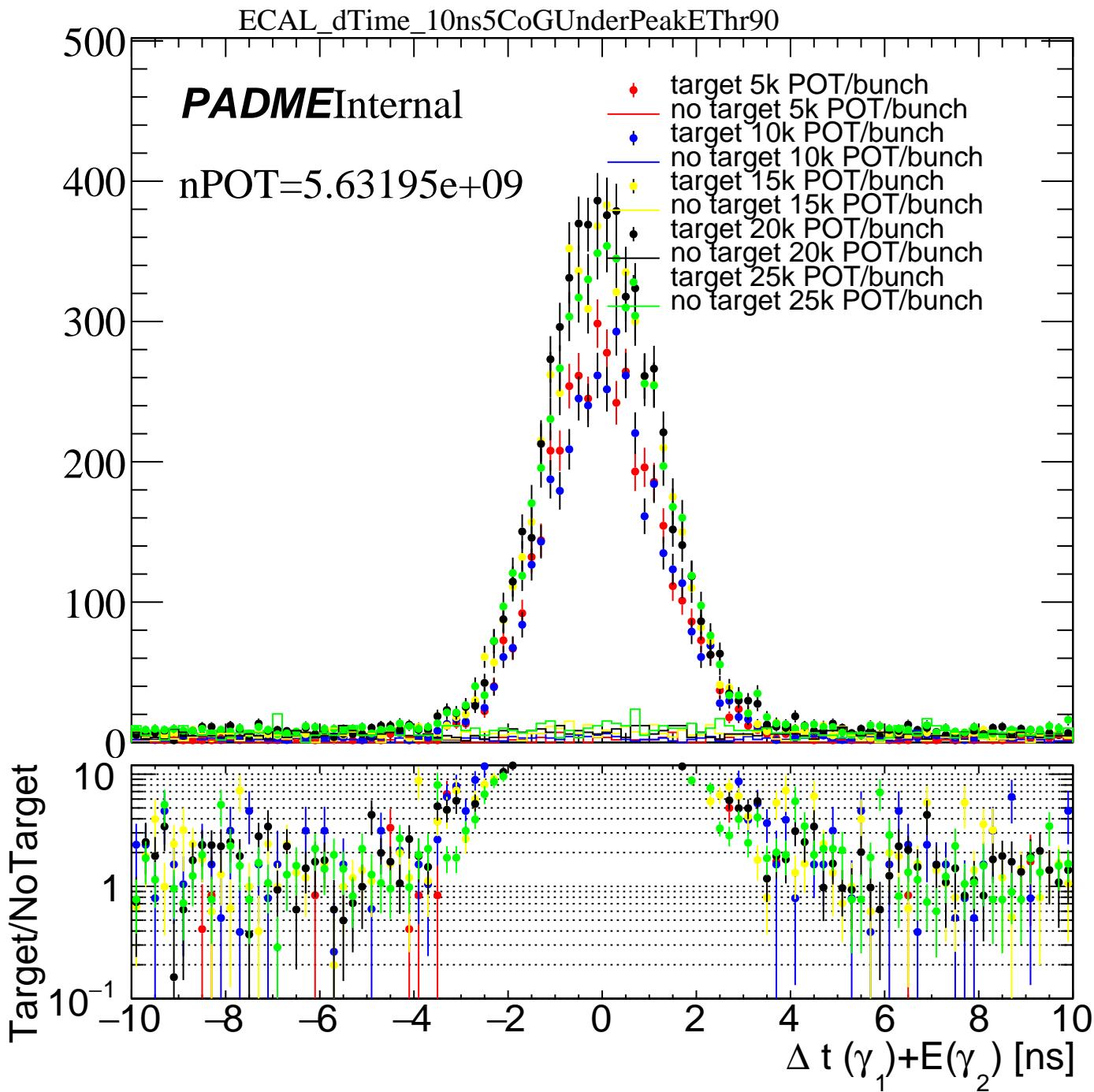
ECAL_dTime_10ns3CoG



ECAL_dTime_10ns3CoGUnderPeakEThr90







ECAL_Xgg_10ns

10000

PADME Internal

nPOT=5.63195e+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

8000

6000

4000

2000

0

Target/NoTarget

10

1

10⁻¹

-300

-200

-100

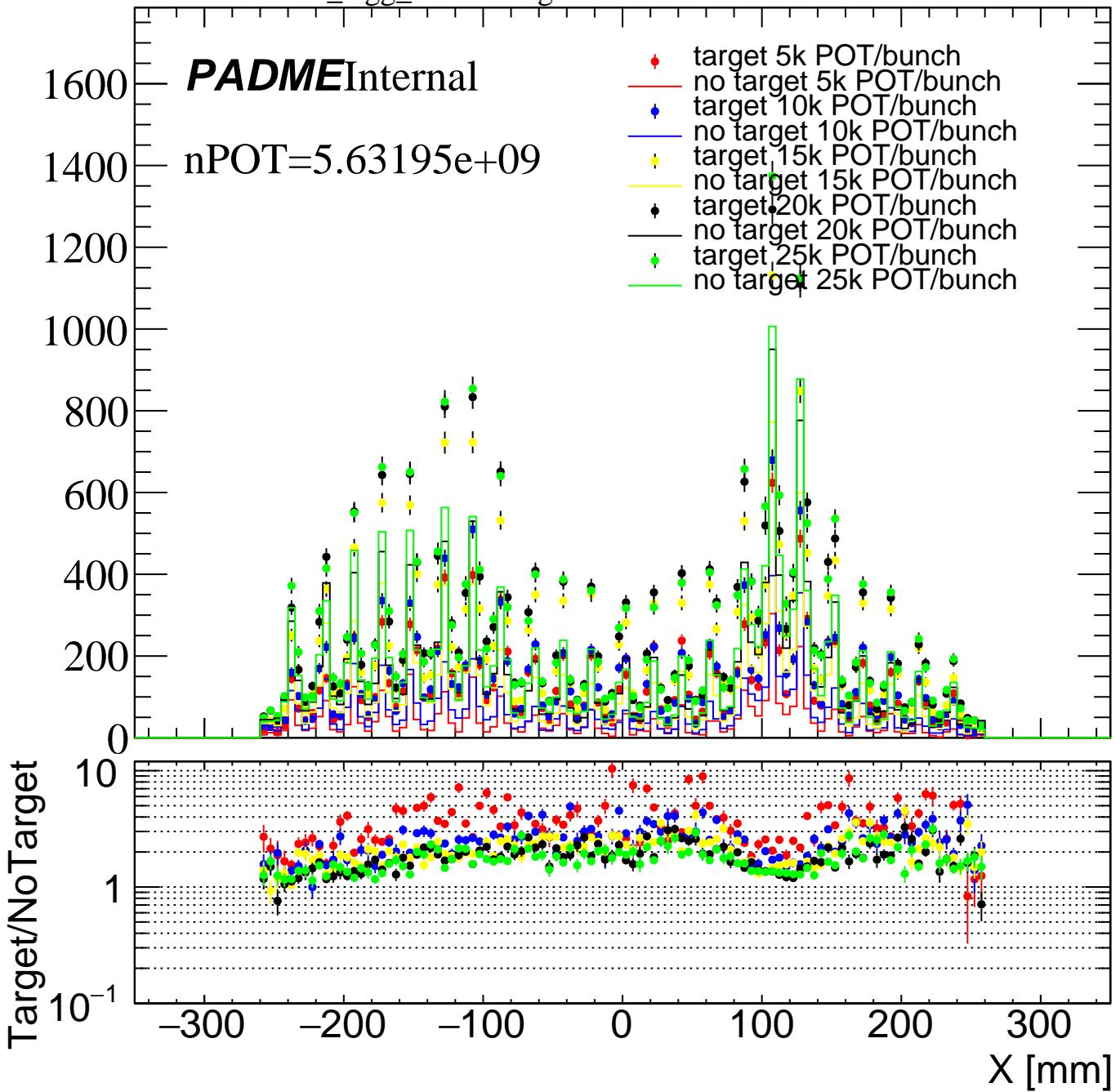
100

200

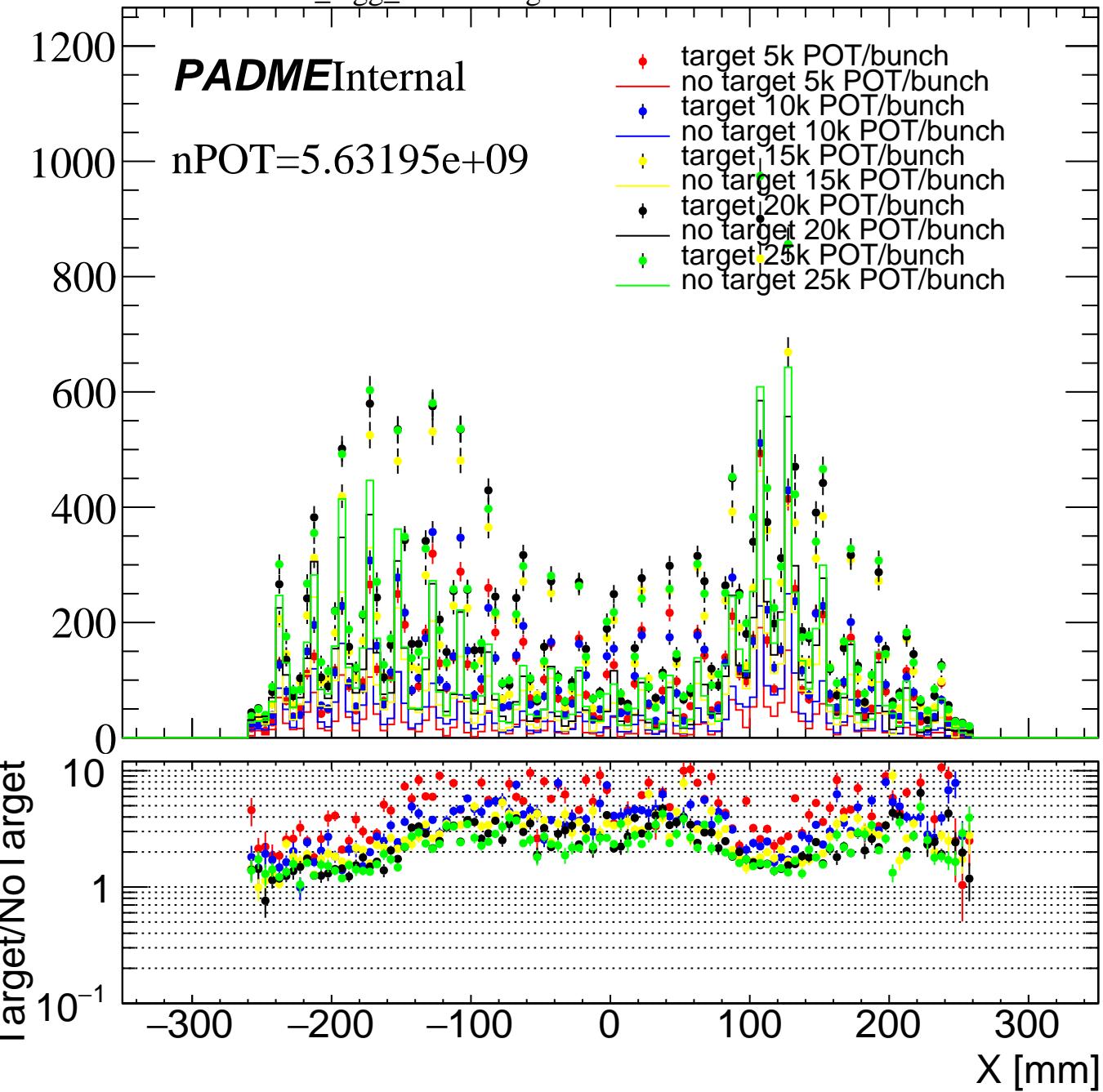
300

X [mm]

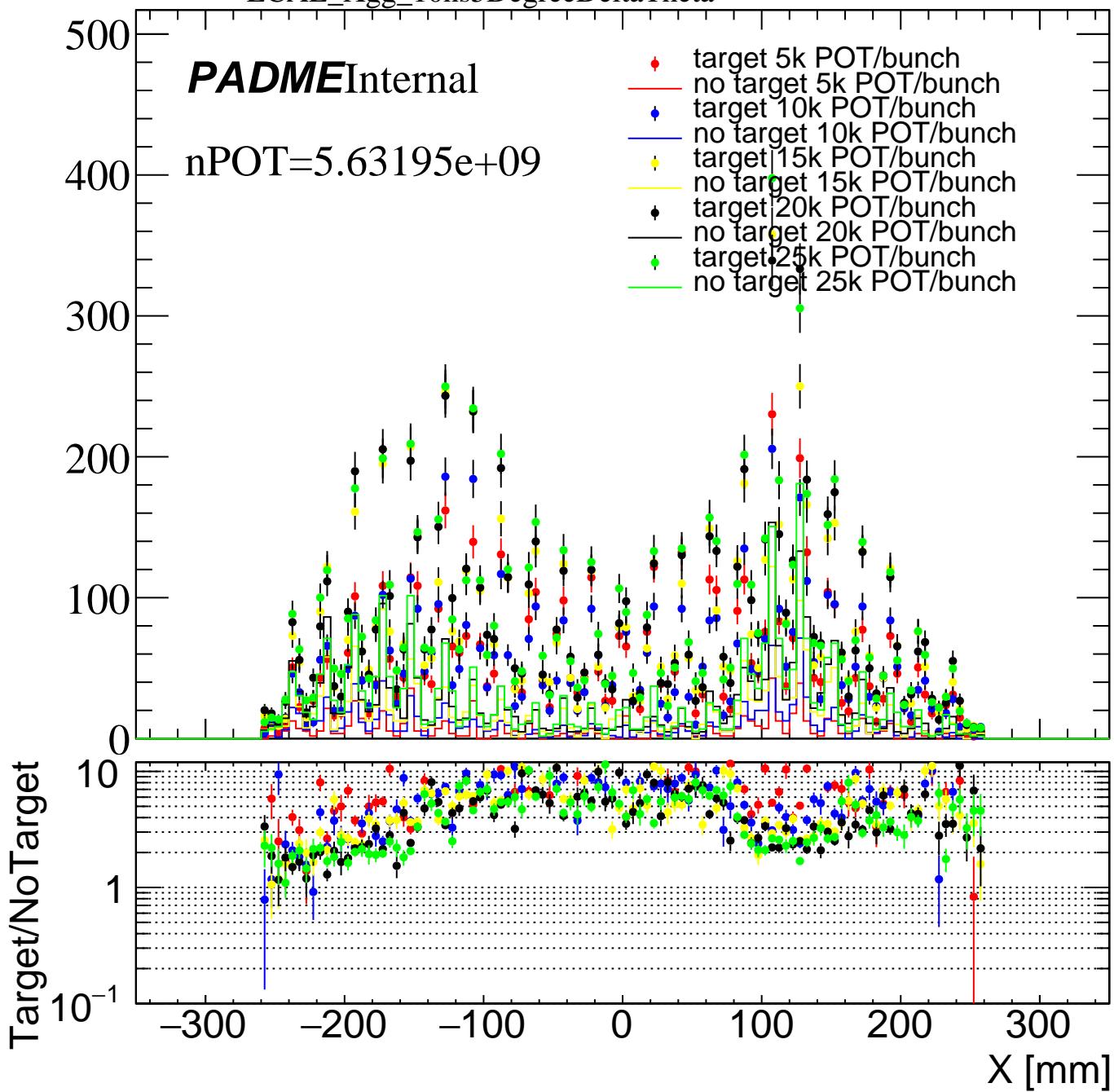
ECAL_Xgg_10ns20Degree



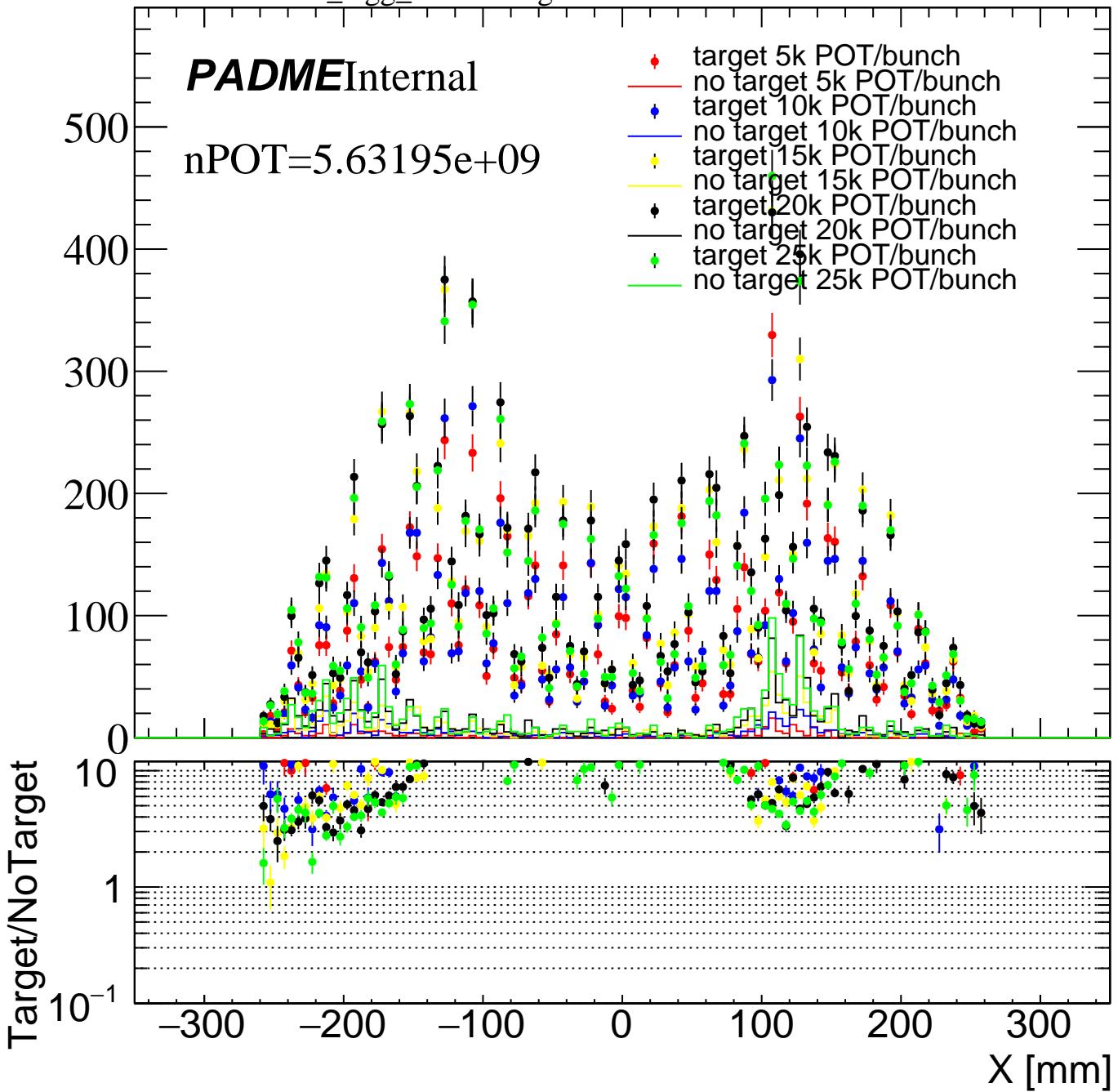
ECAL_Xgg_10ns20DegreeDeltaTheta



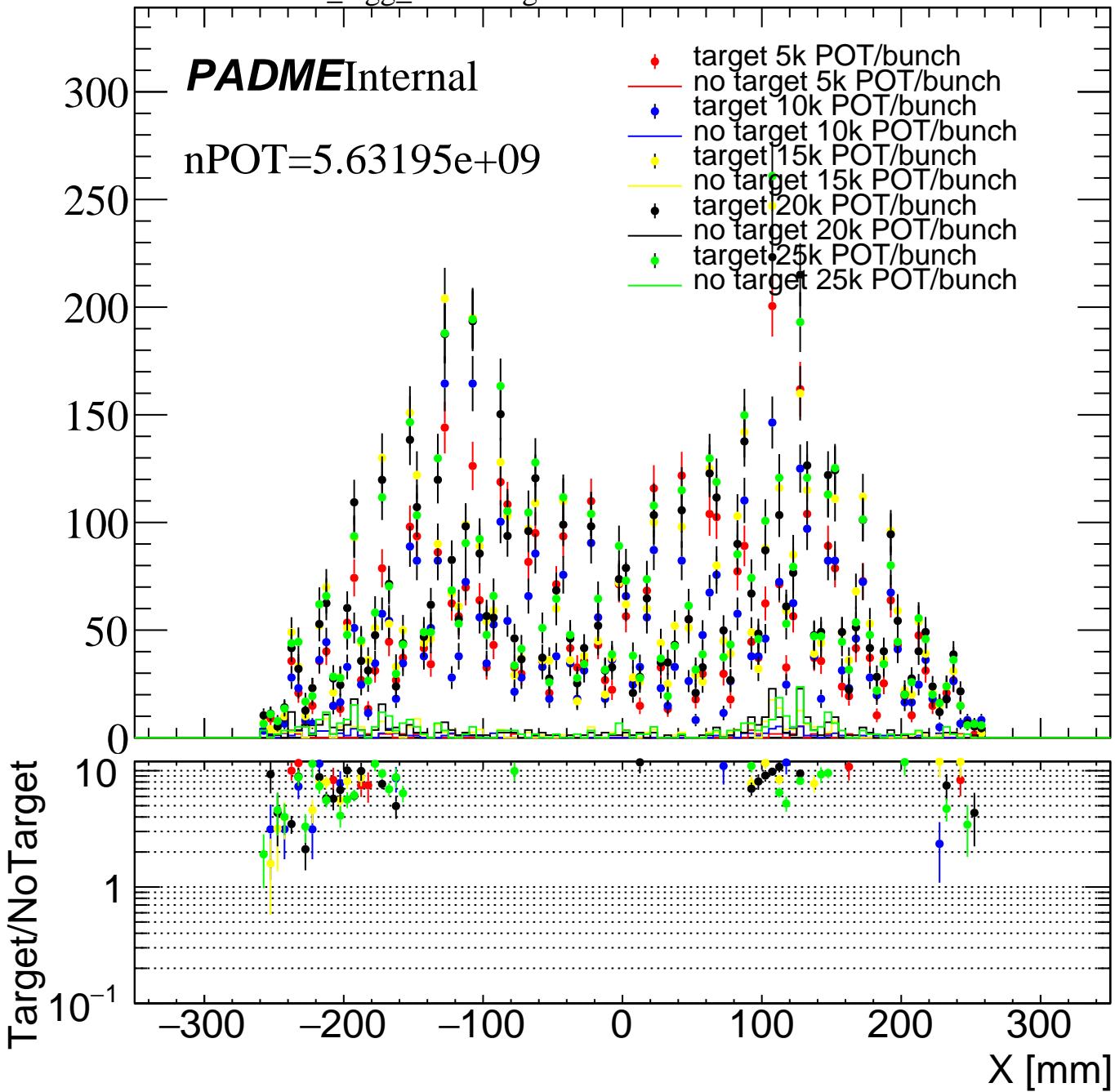
ECAL_Xgg_10ns5DegreeDeltaTheta



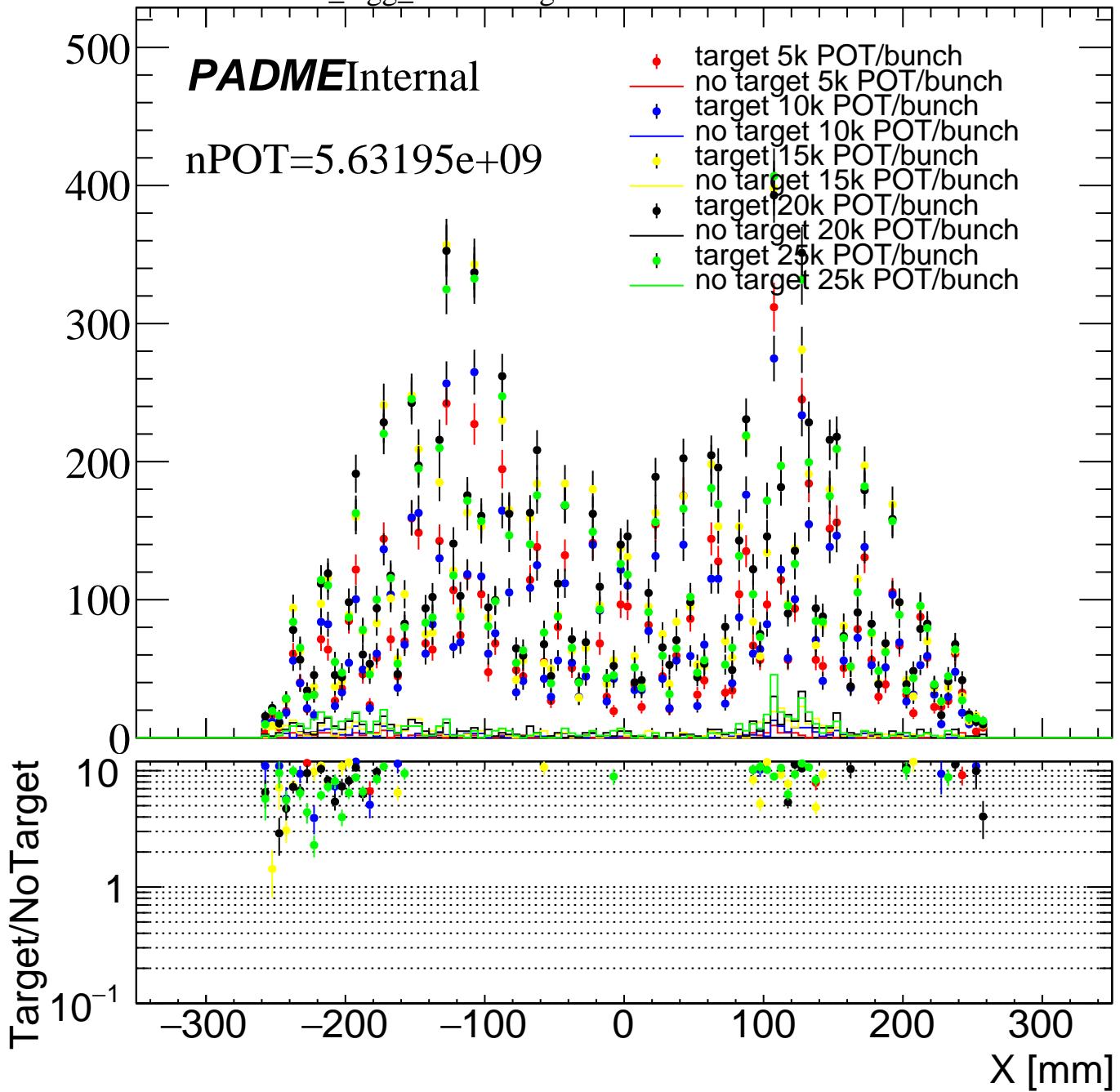
ECAL_Xgg_10ns20DegreeDeltaThetaUnderPeak

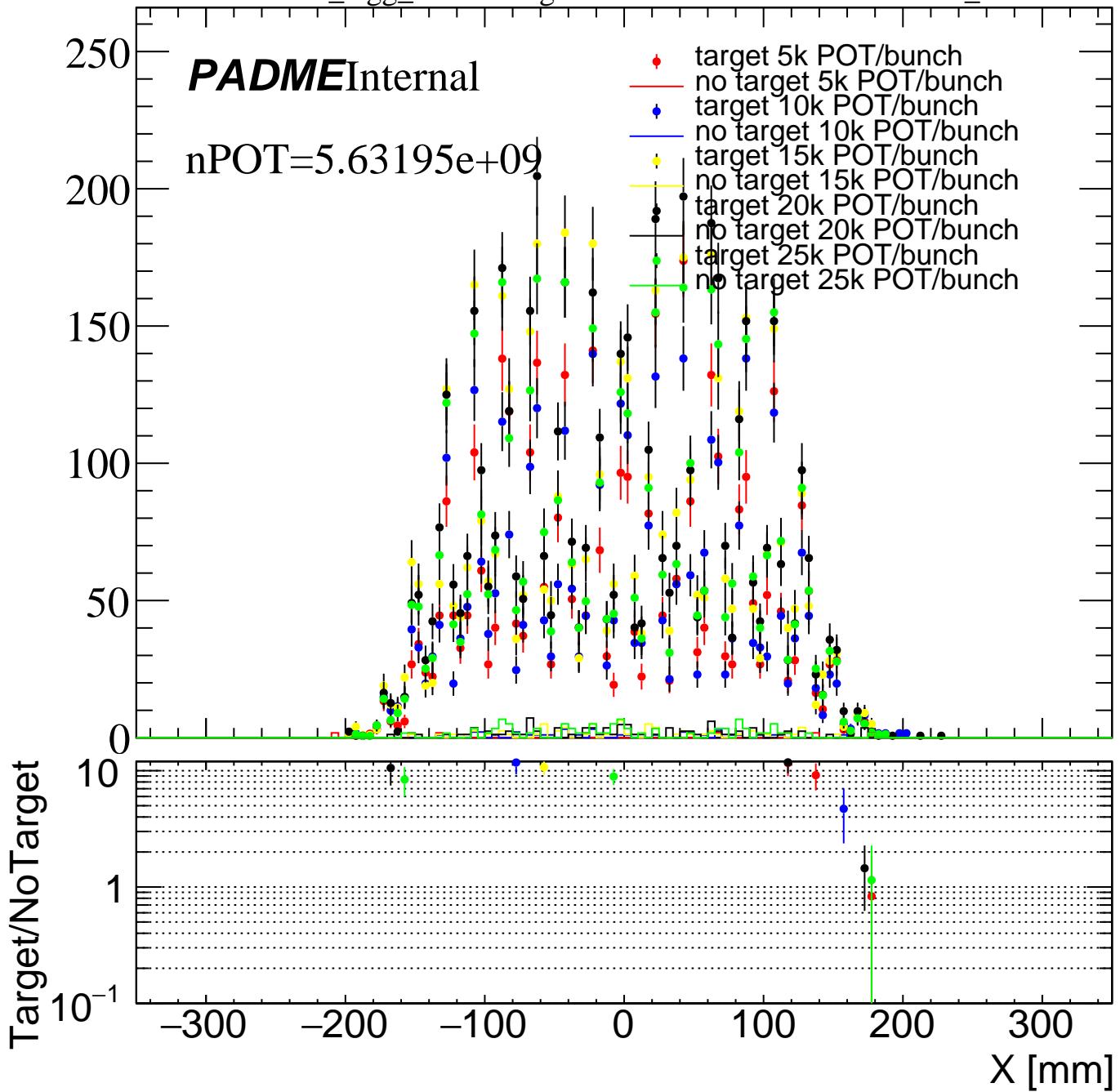


ECAL_Xgg_10ns5DegreeDeltaThetaUnderPeak

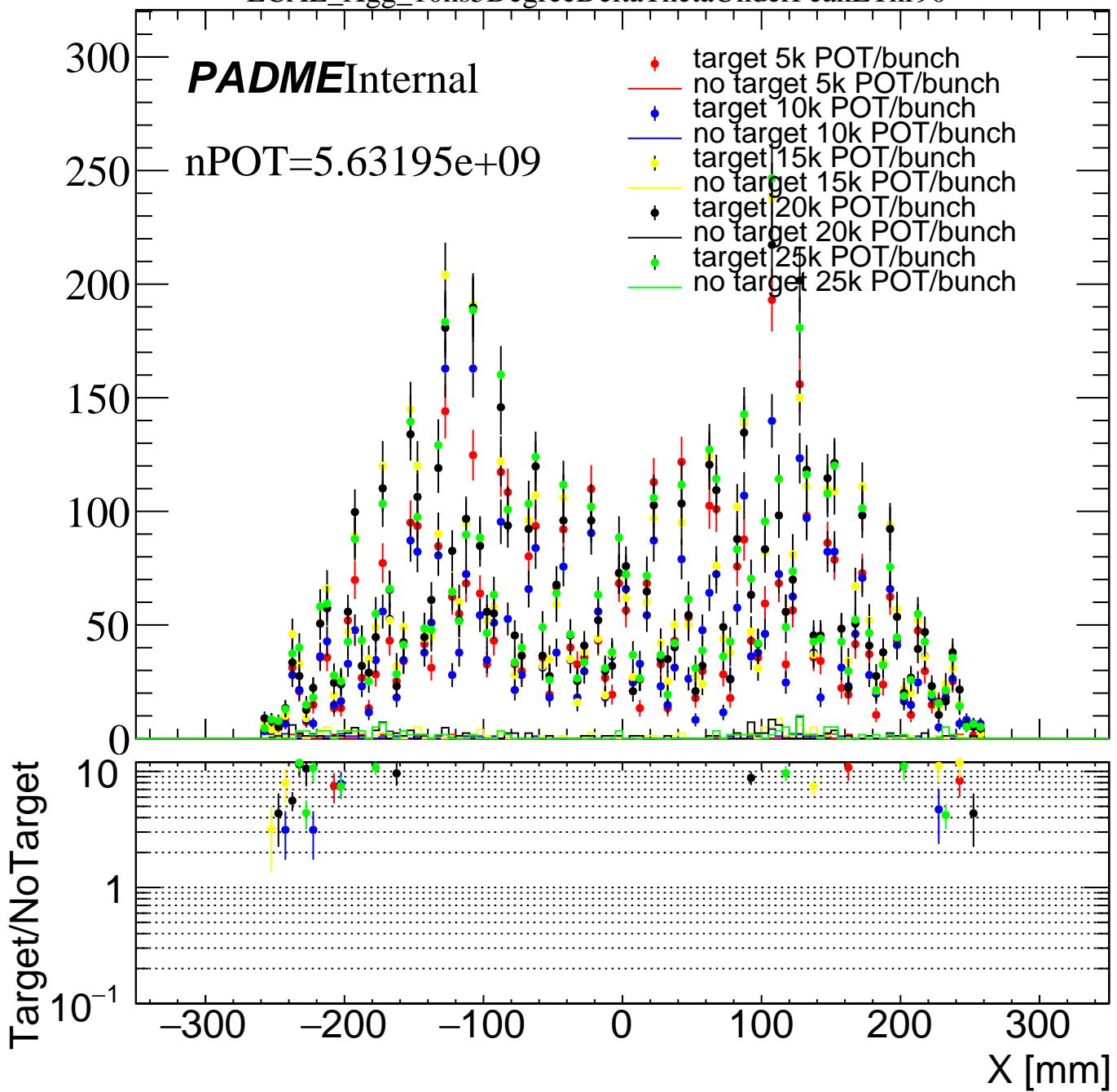


ECAL_Xgg_10ns20DegreeDeltaThetaUnderPeakEThr90

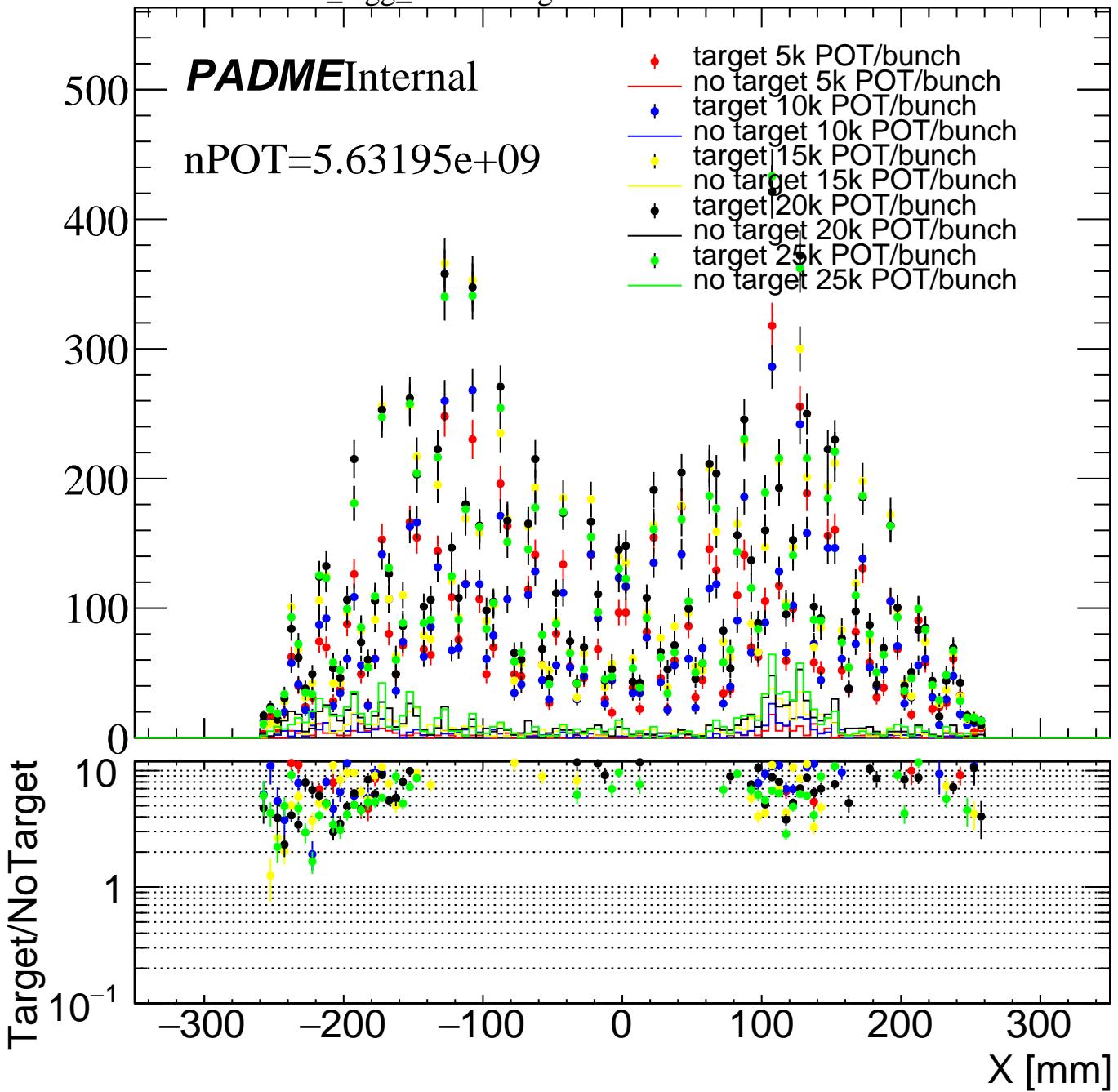




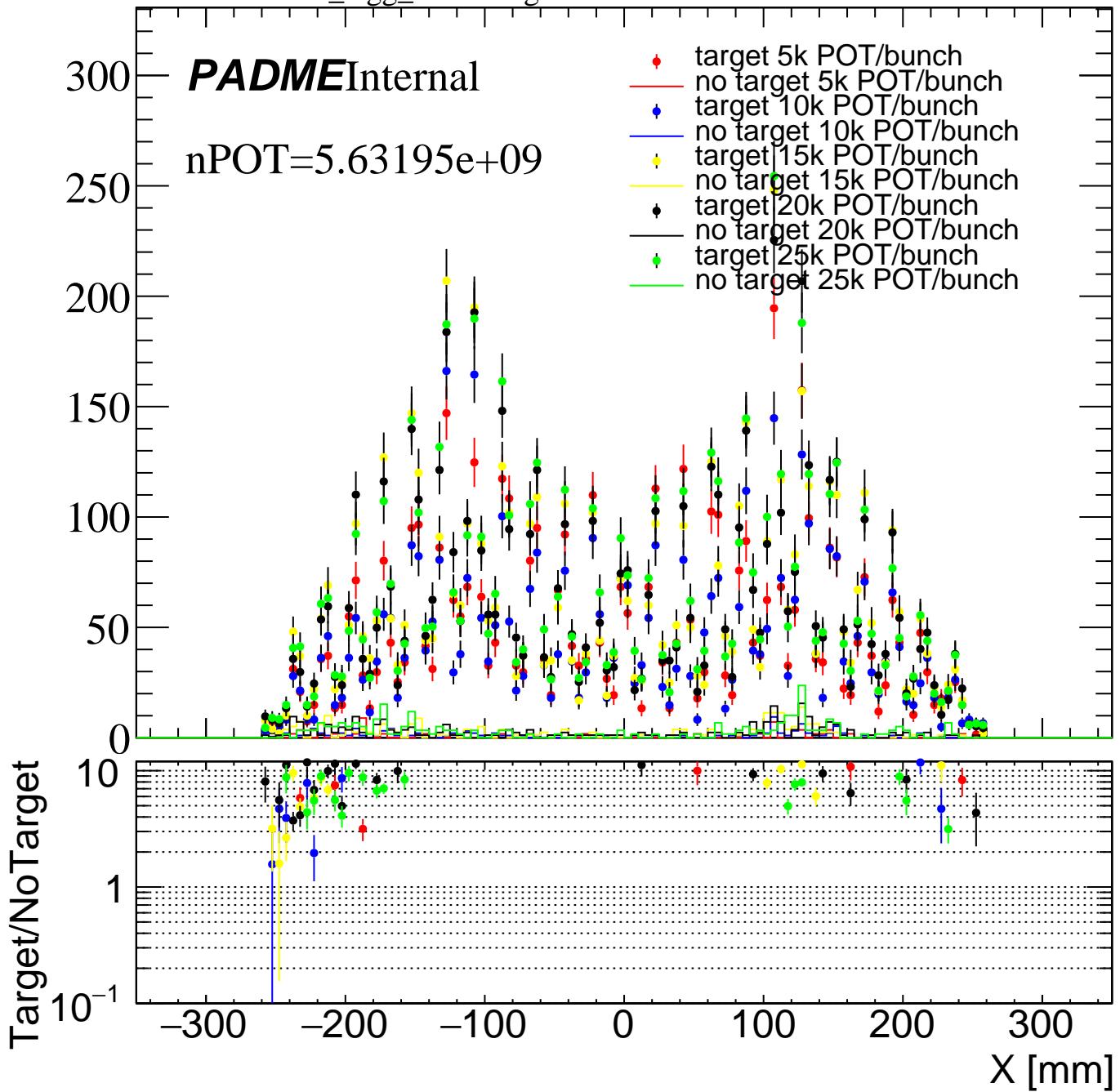
ECAL_Xgg_10ns5DegreeDeltaThetaUnderPeakEThr90



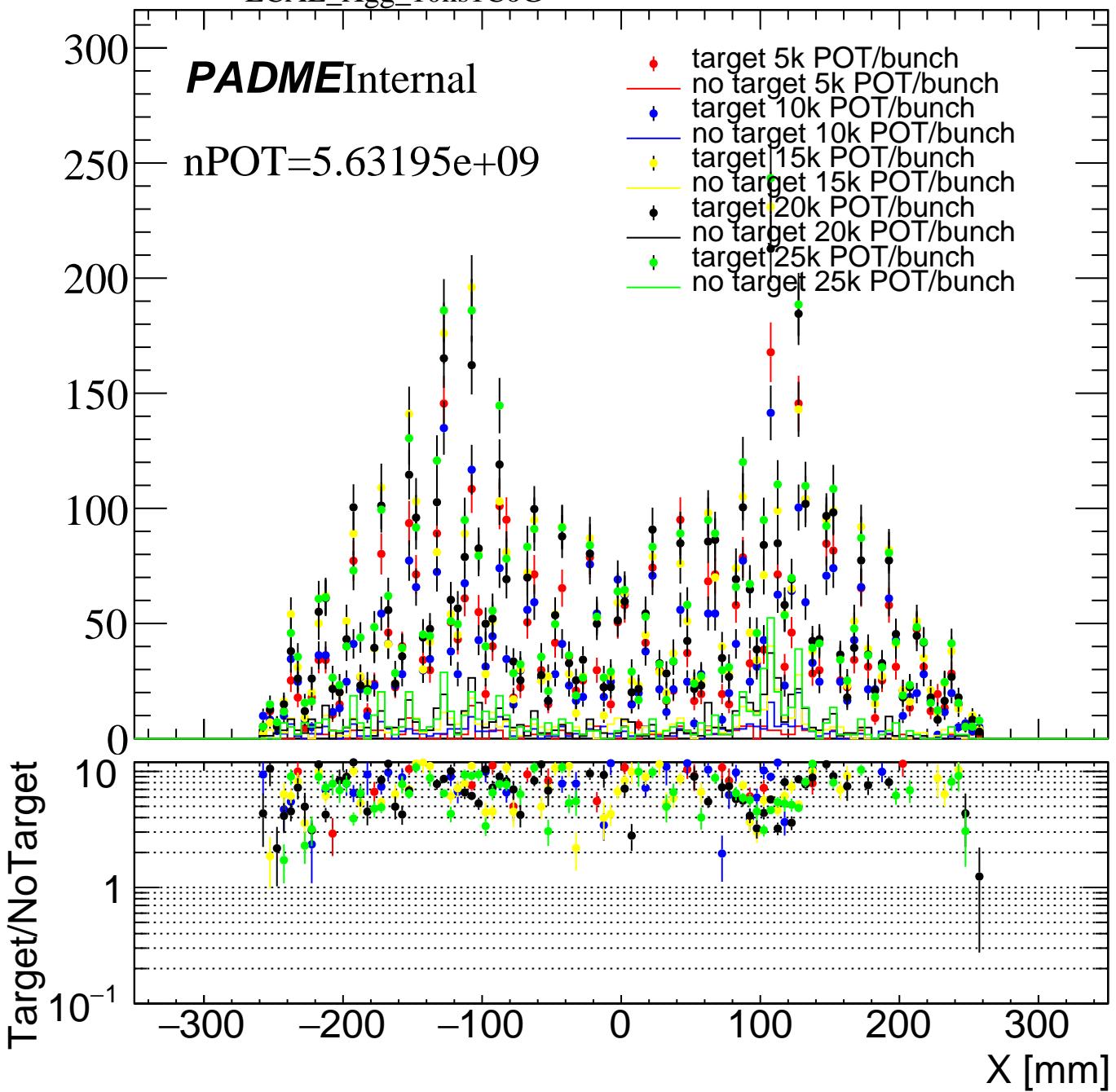
ECAL_Xgg_10ns20DegreeDeltaThetaEThr90



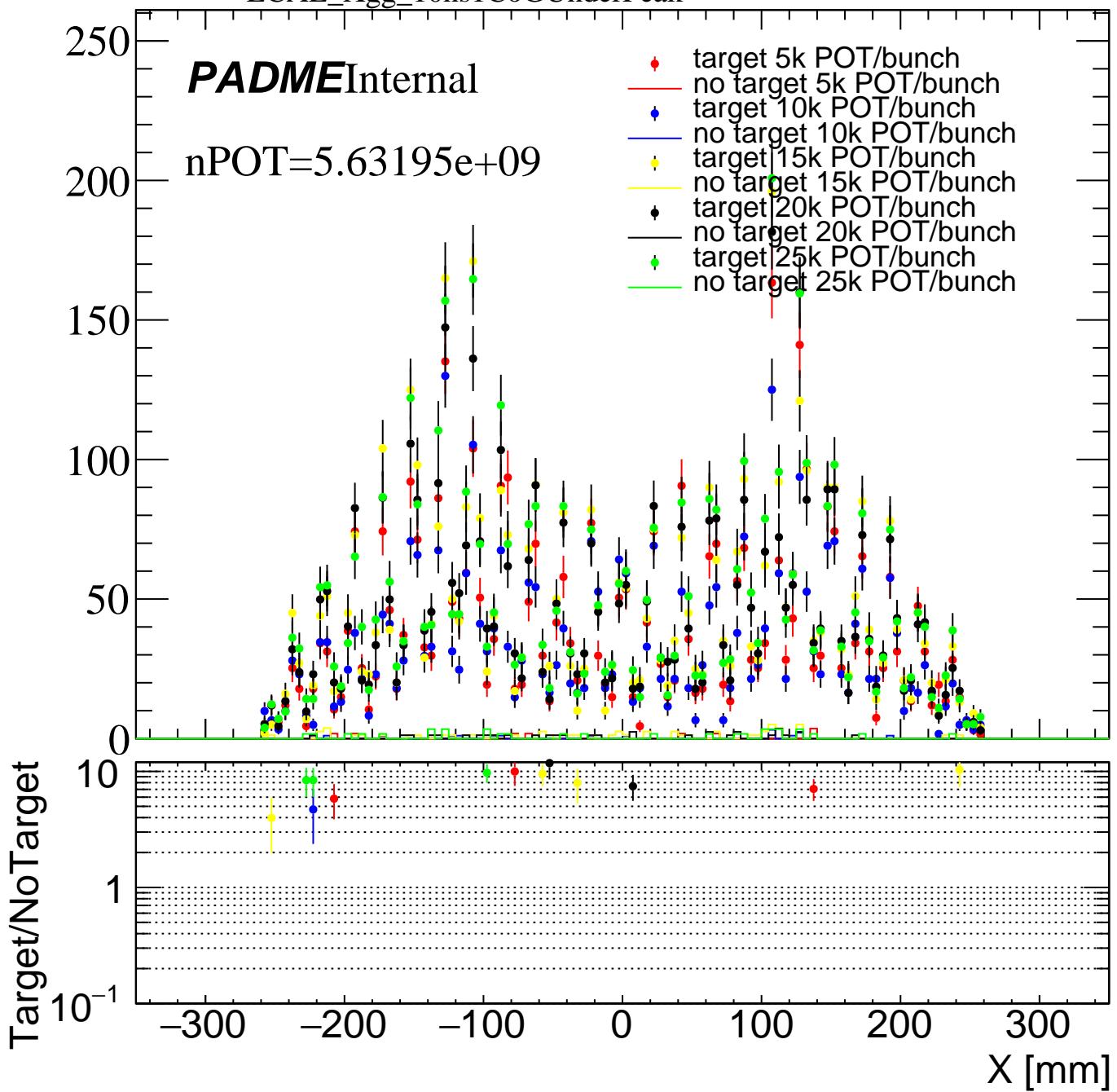
ECAL_Xgg_10ns5DegreeDeltaThetaEThr90



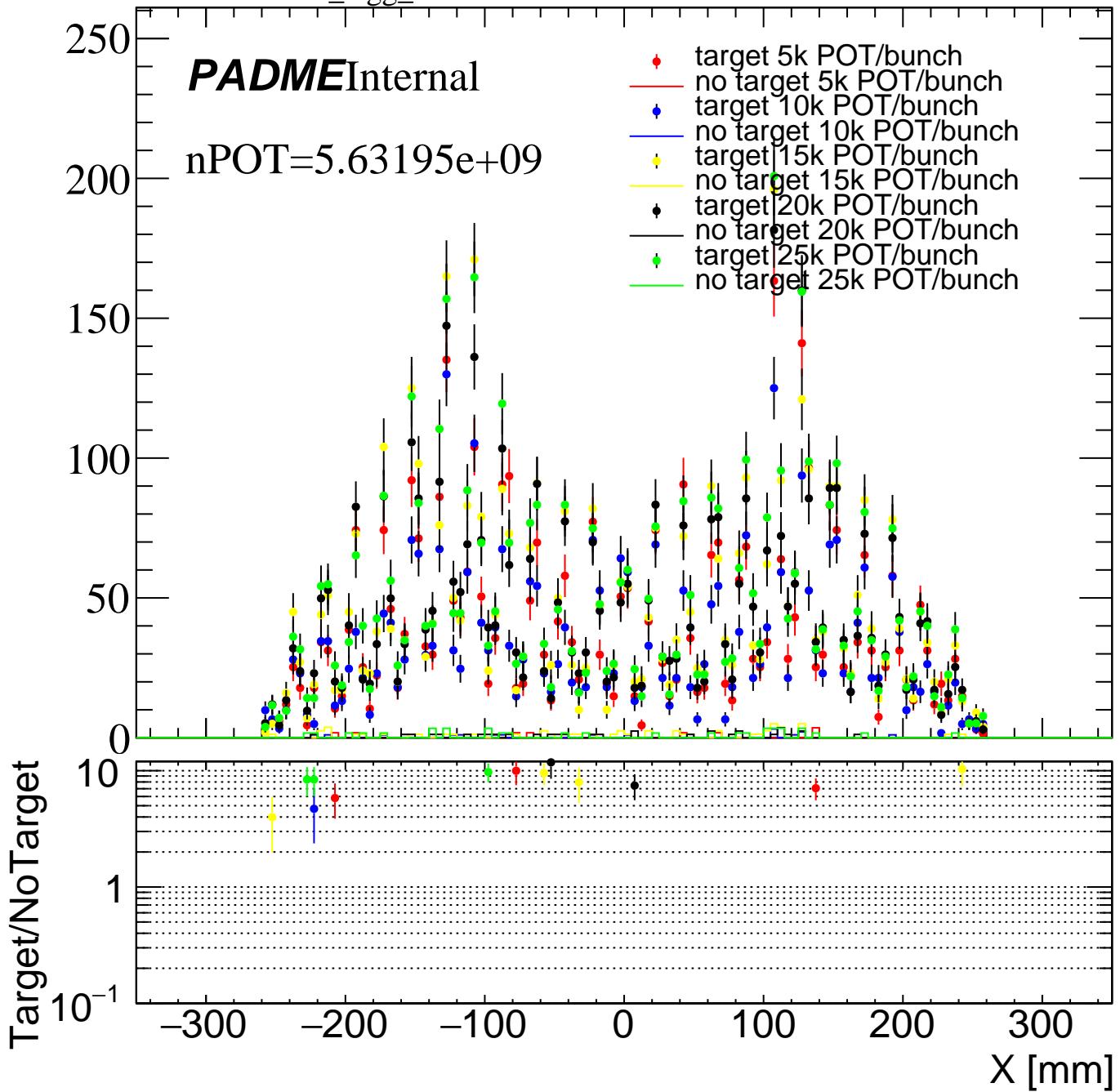
ECAL_Xgg_10ns1CoG



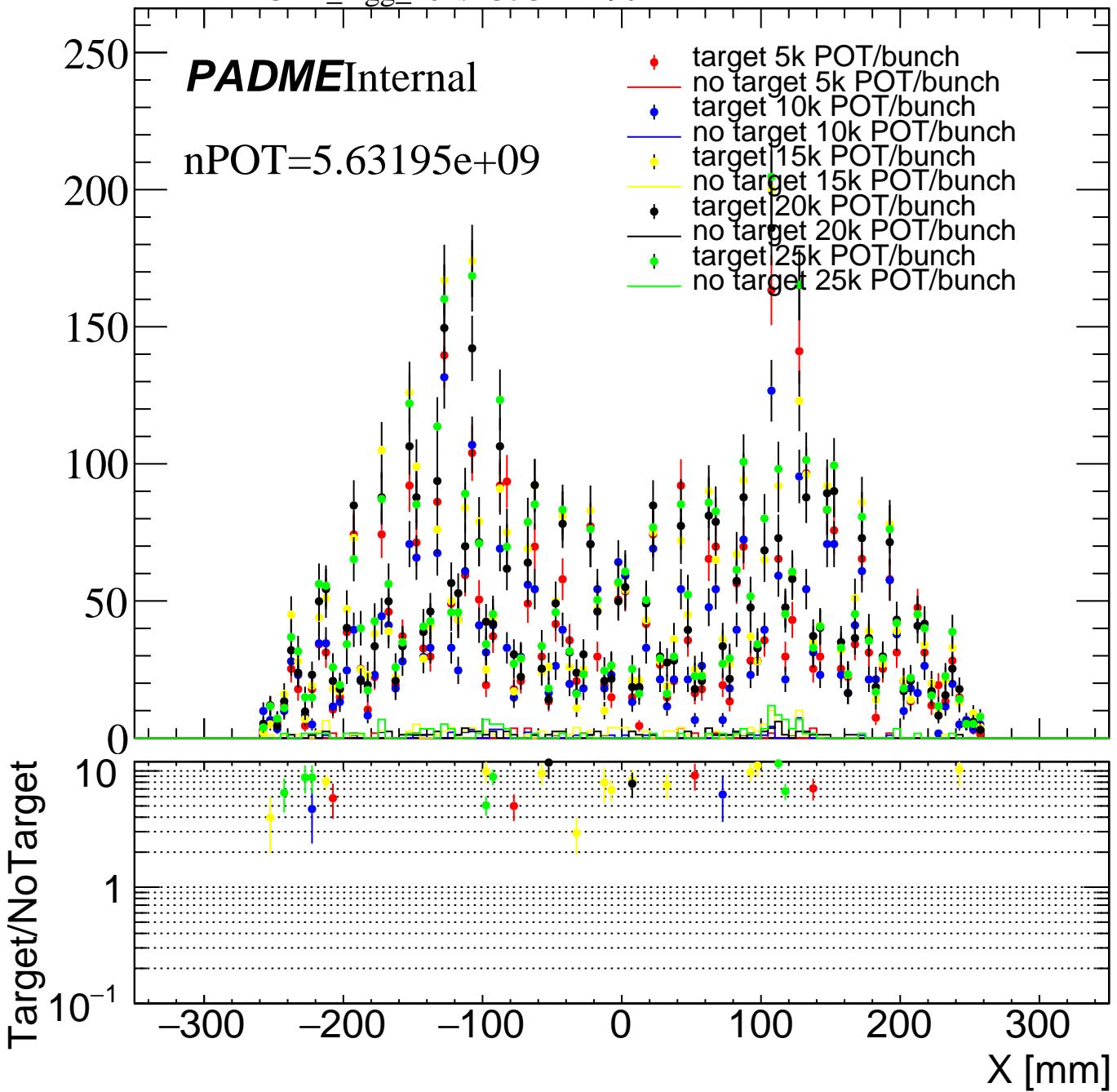
ECAL_Xgg_10ns1CoGUnderPeak



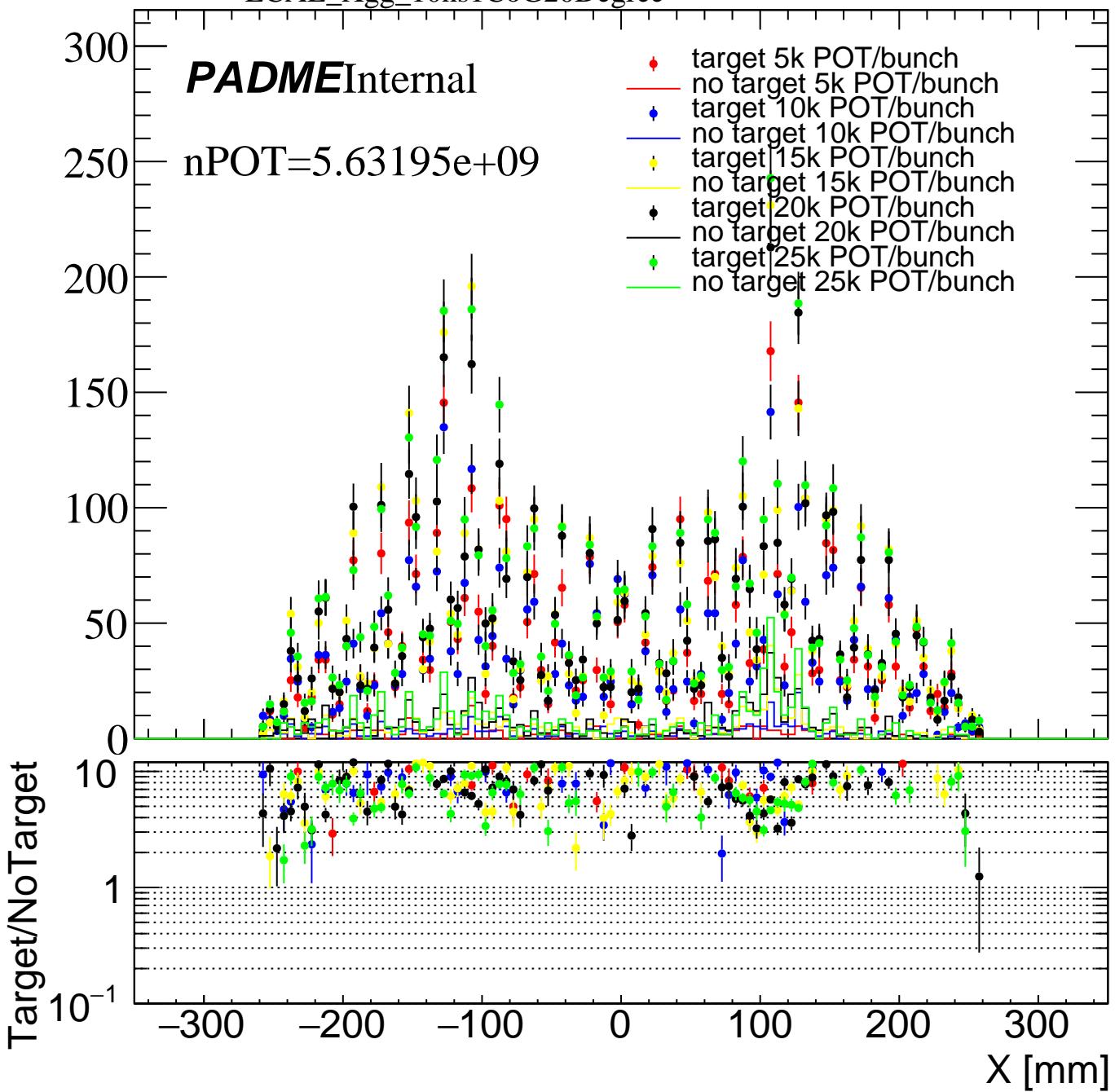
ECAL_Xgg_10ns1CoGUnderPeakEThr90



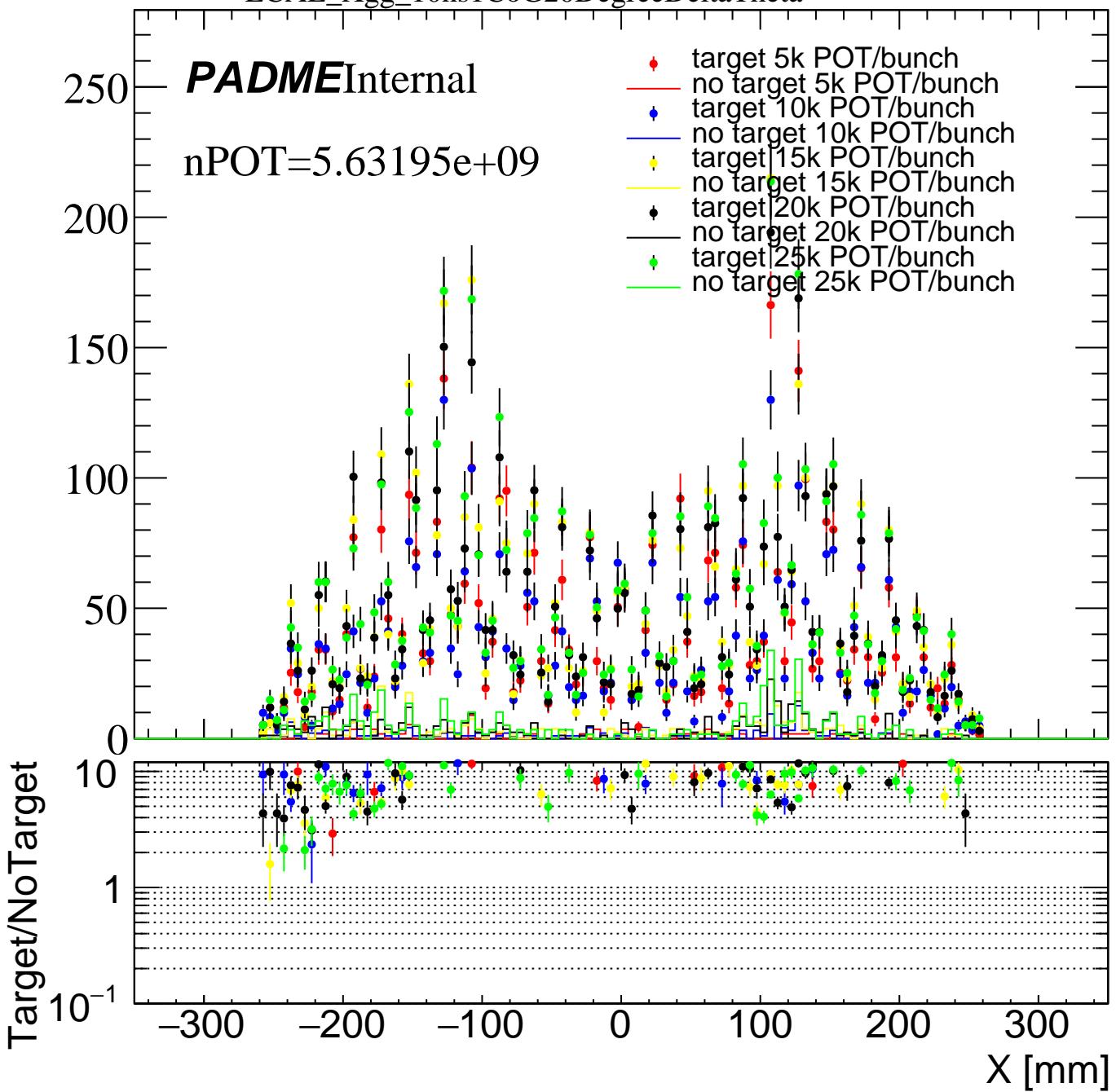
ECAL_Xgg_10ns1CoGEThr90

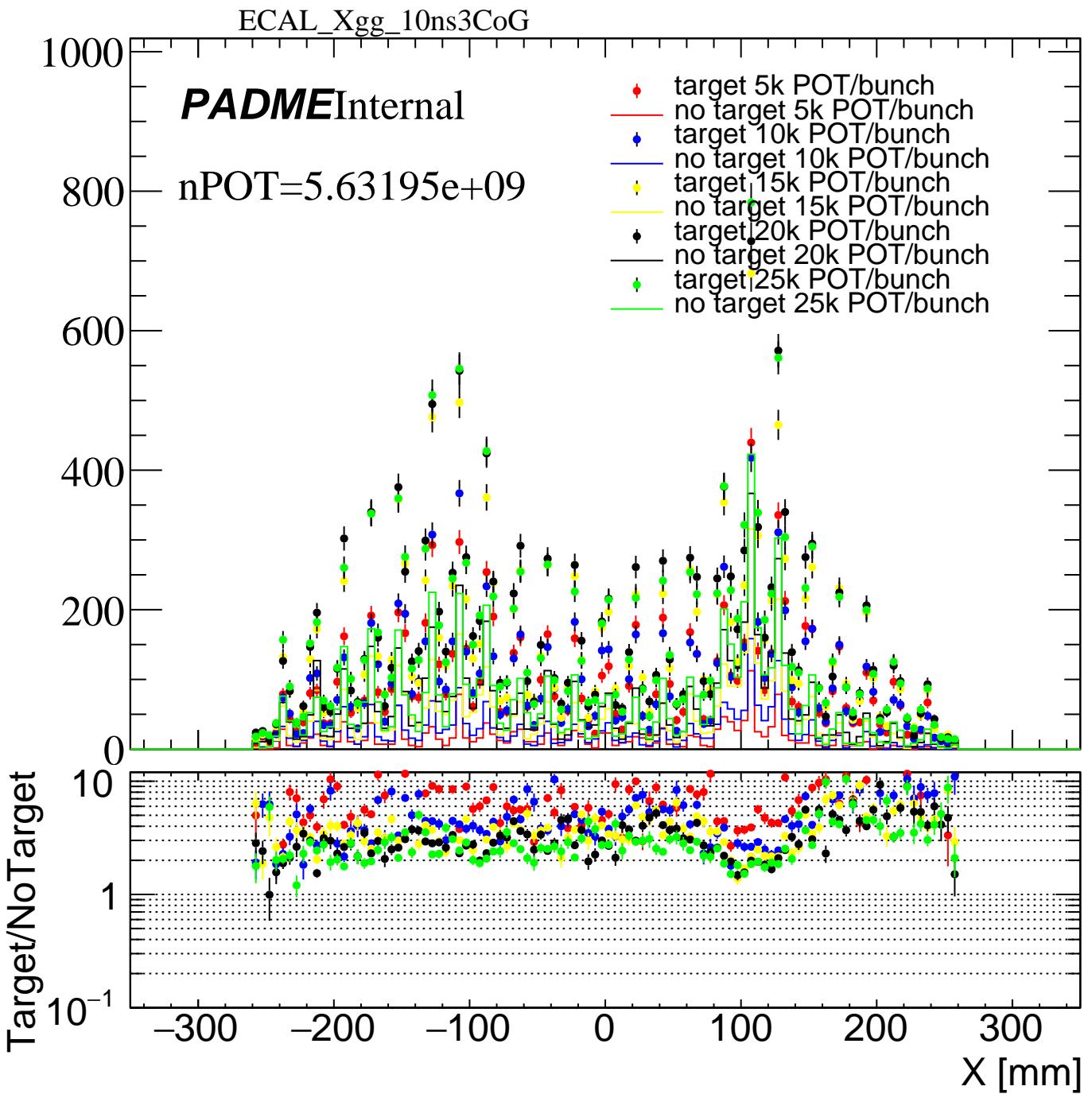


ECAL_Xgg_10ns1CoG20Degree

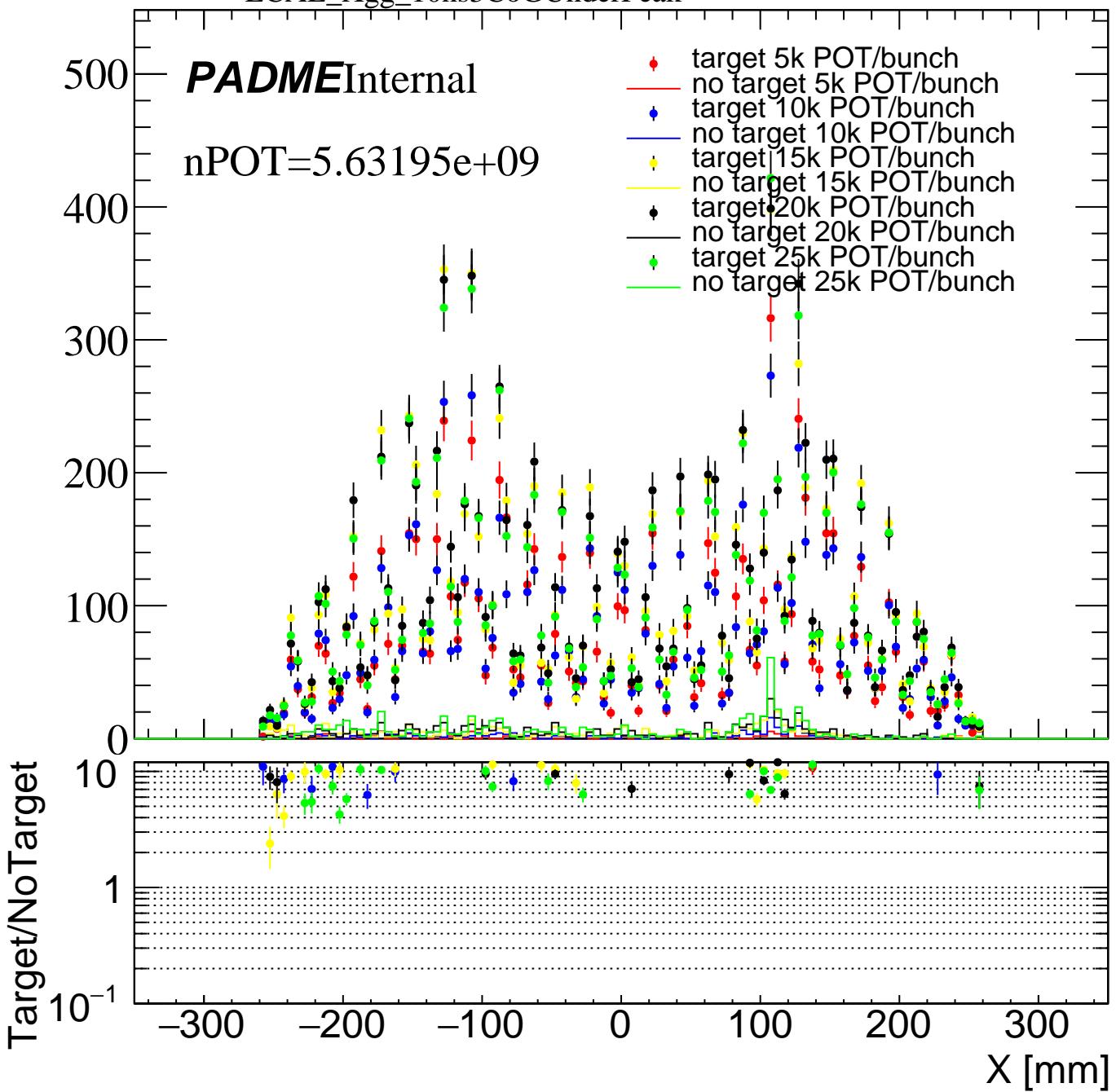


ECAL_Xgg_10ns1CoG20DegreeDeltaTheta

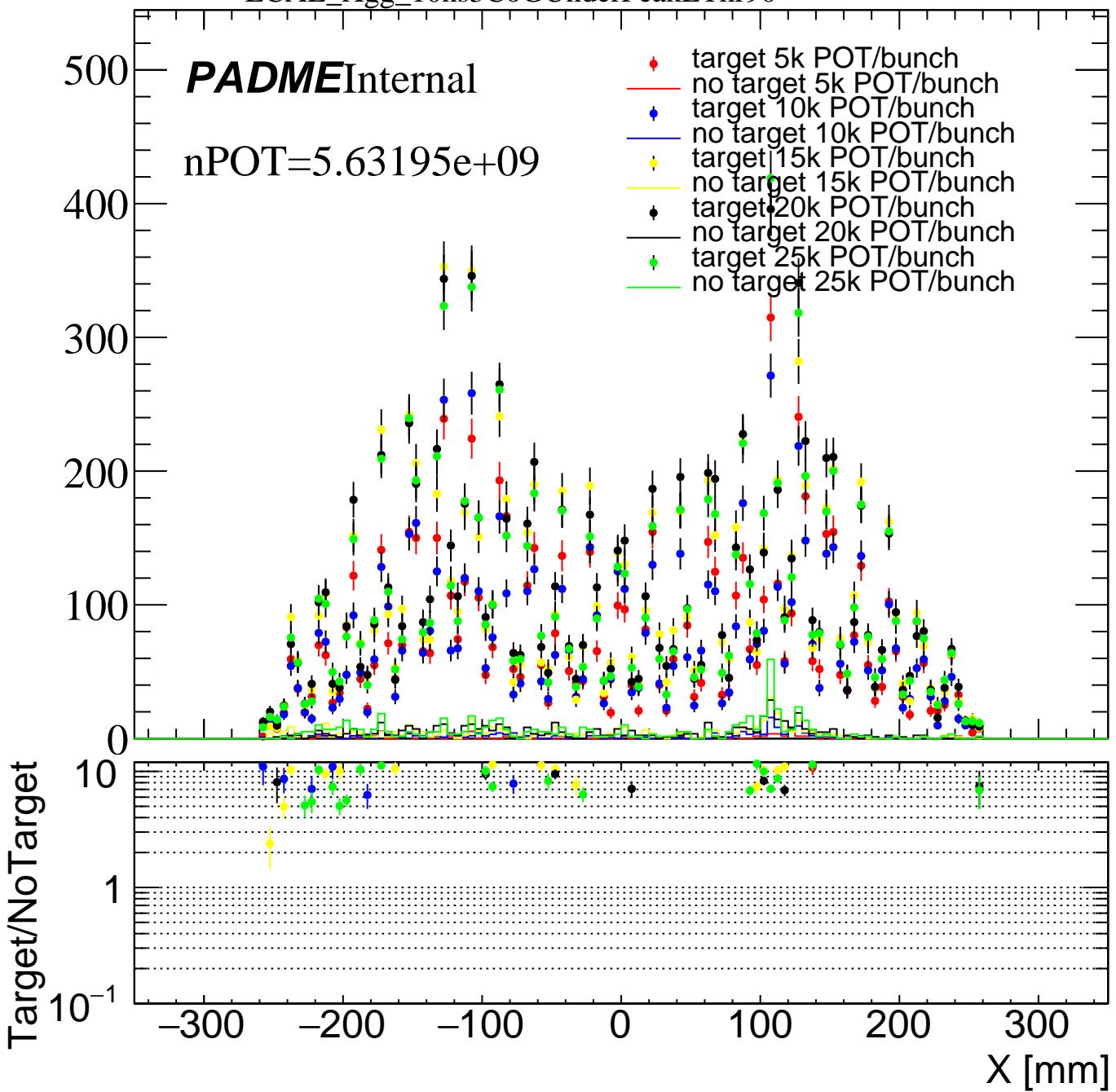




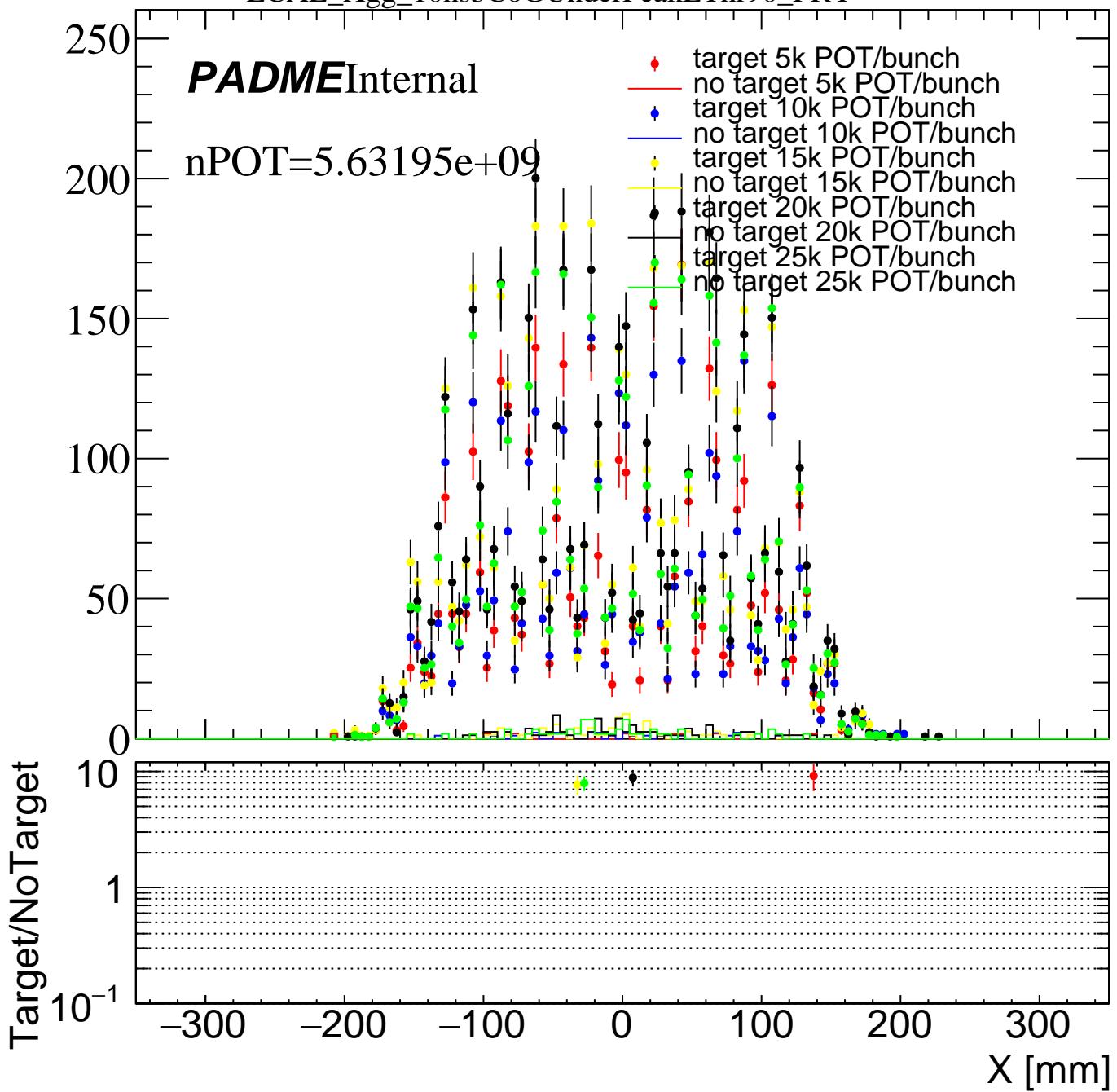
ECAL_Xgg_10ns3CoGUnderPeak



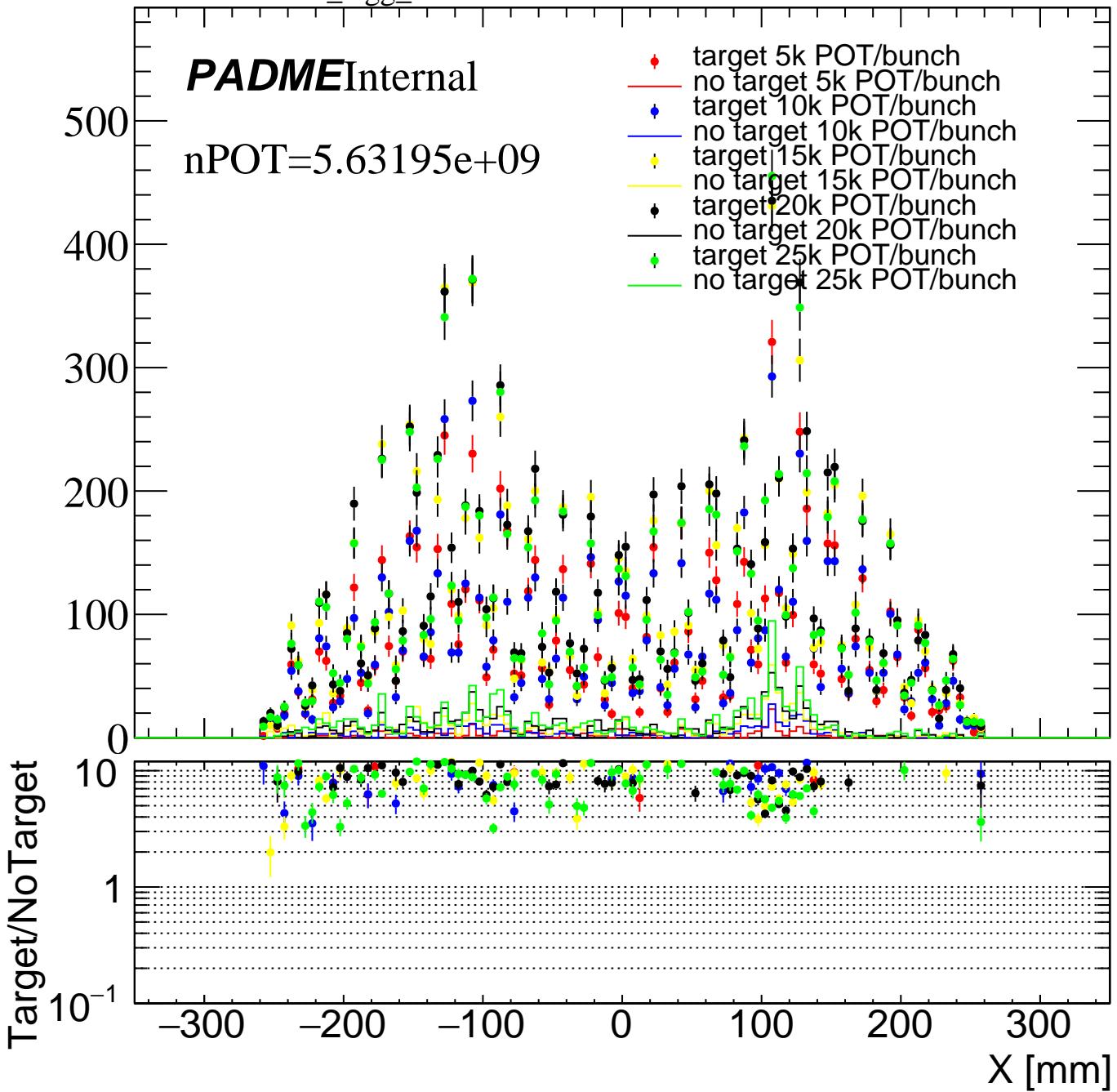
ECAL_Xgg_10ns3CoGUnderPeakEThr90



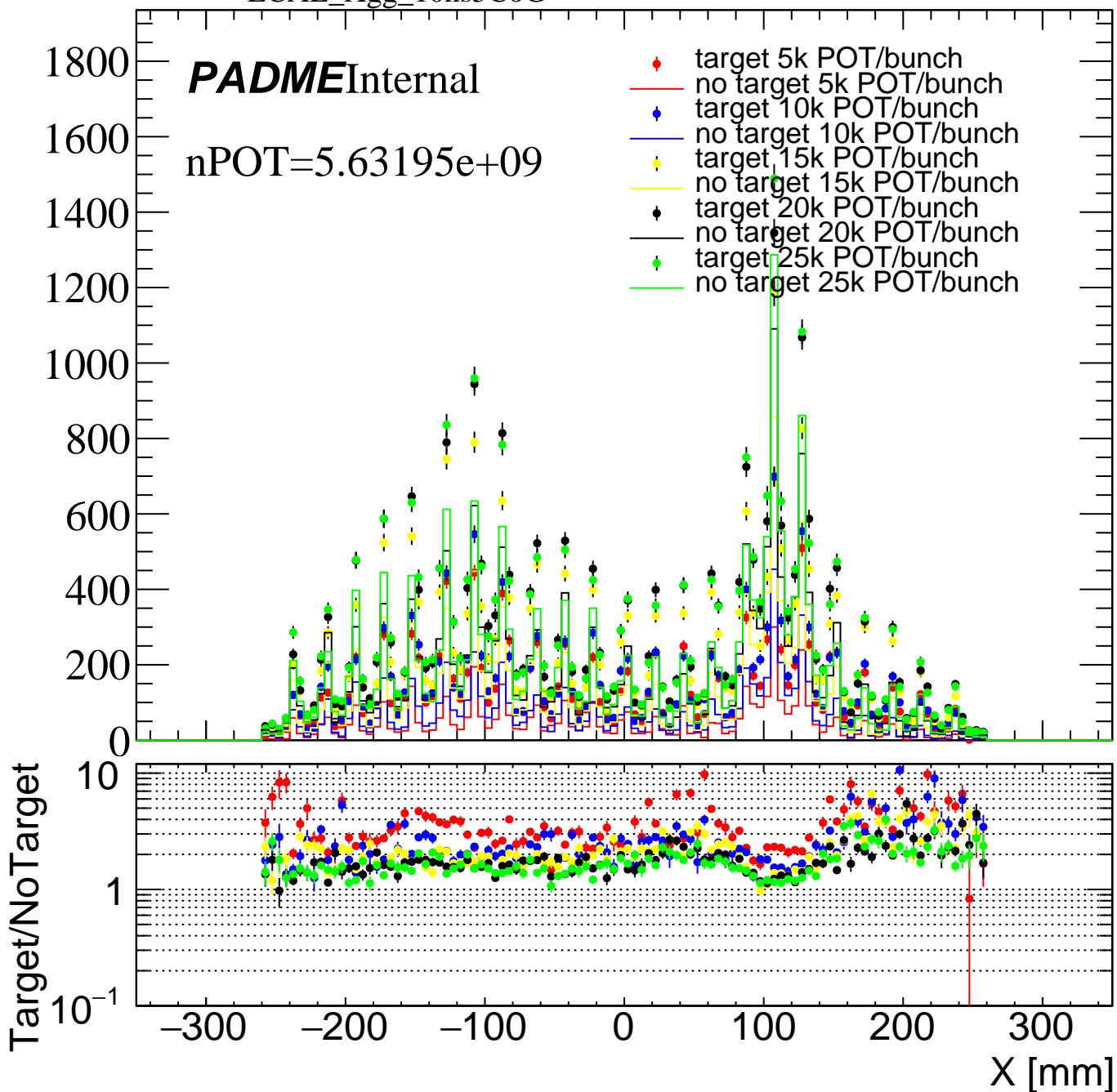
ECAL_Xgg_10ns3CoGUnderPeakEThr90_FRY



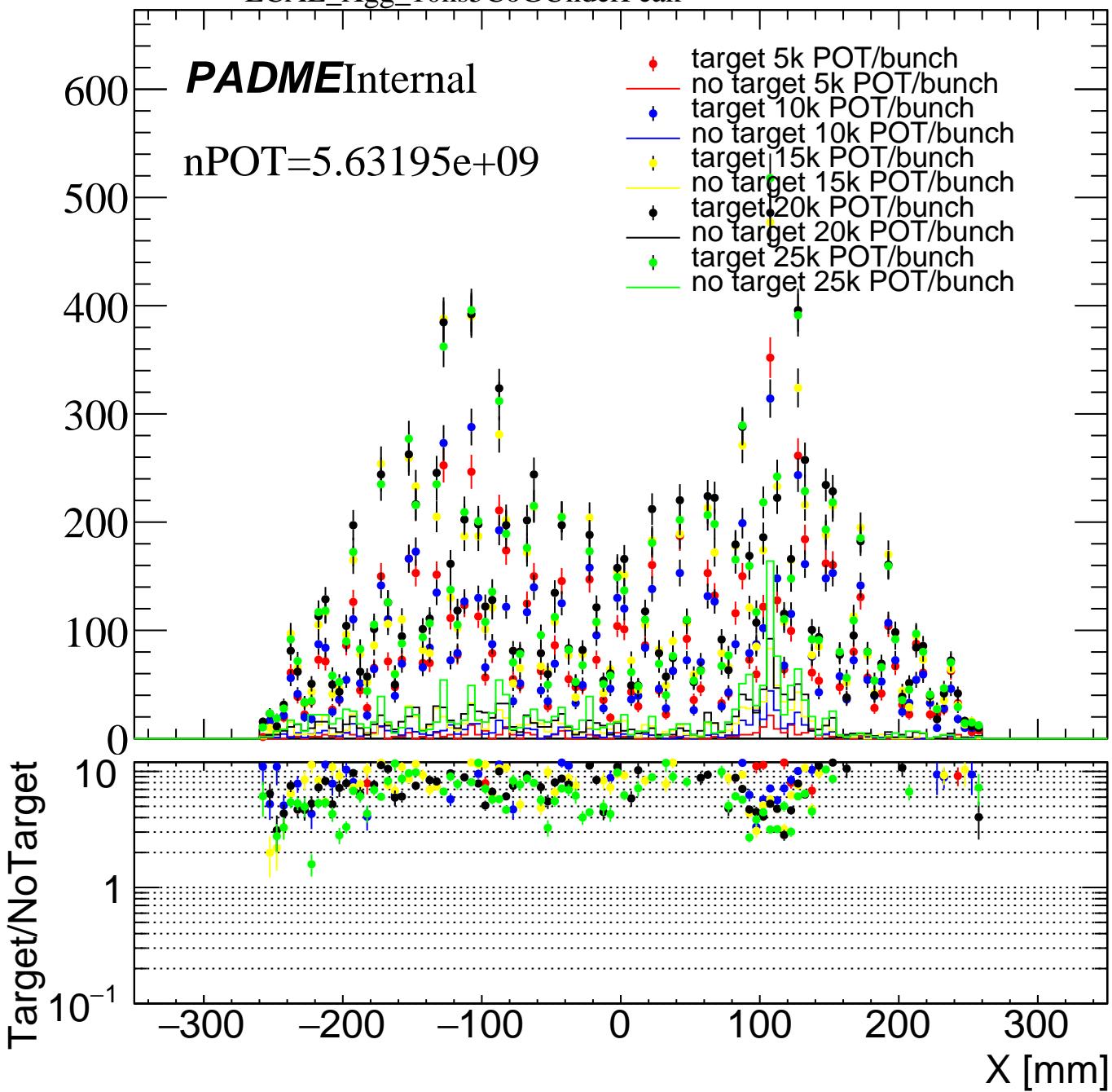
ECAL_Xgg_10ns3CoGEThr90



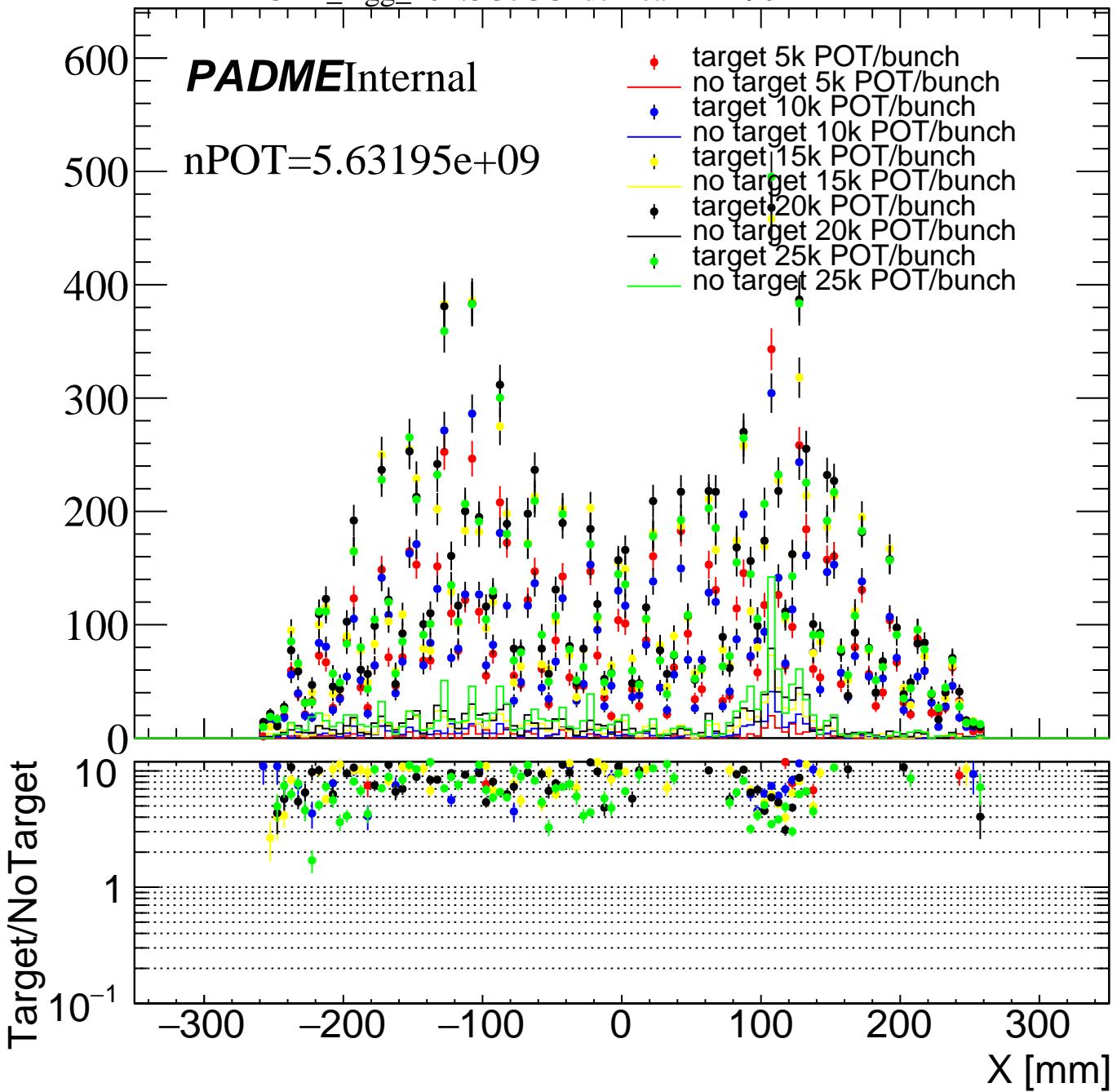
ECAL_Xgg_10ns5CoG



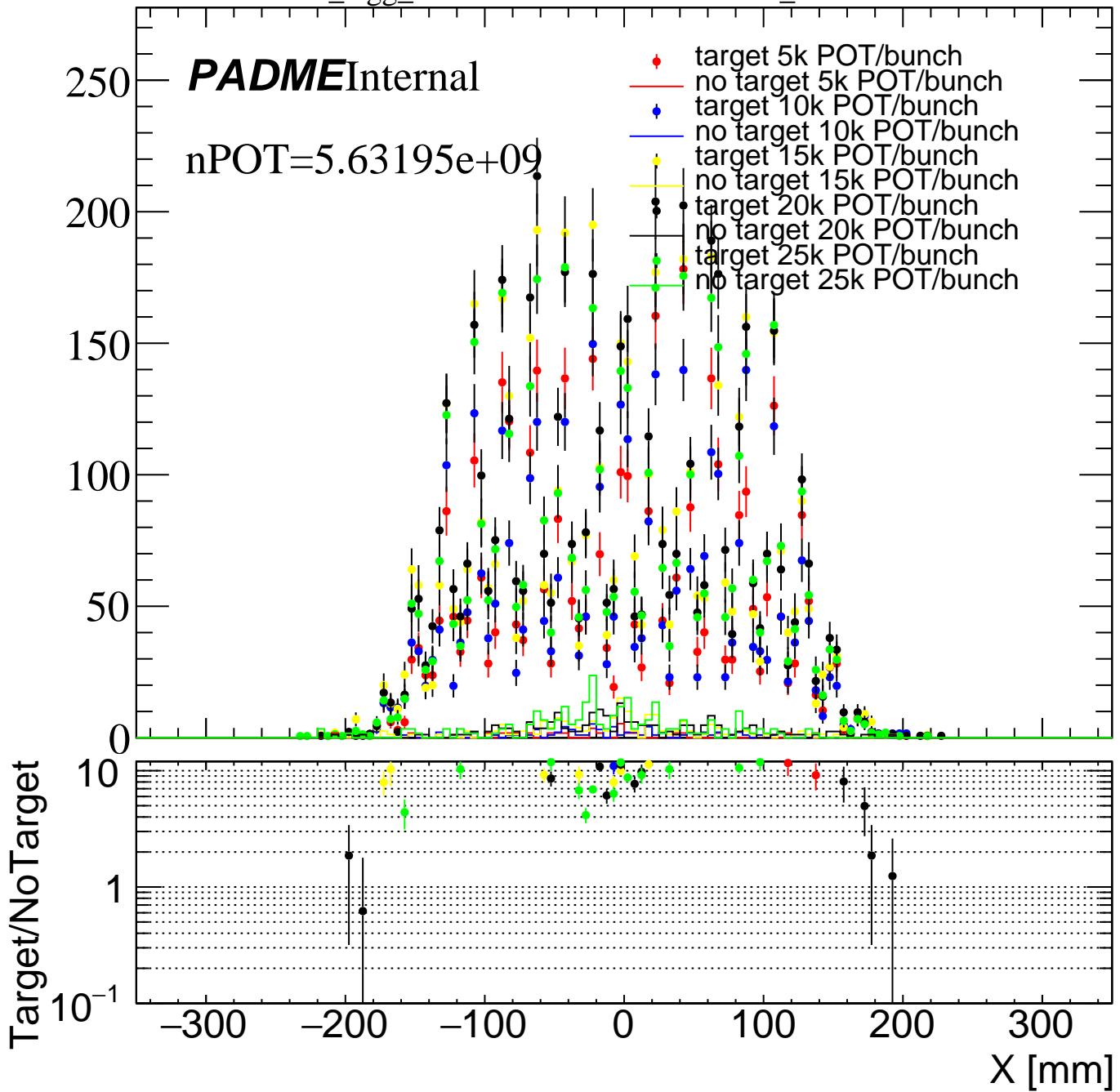
ECAL_Xgg_10ns5CoGUnderPeak



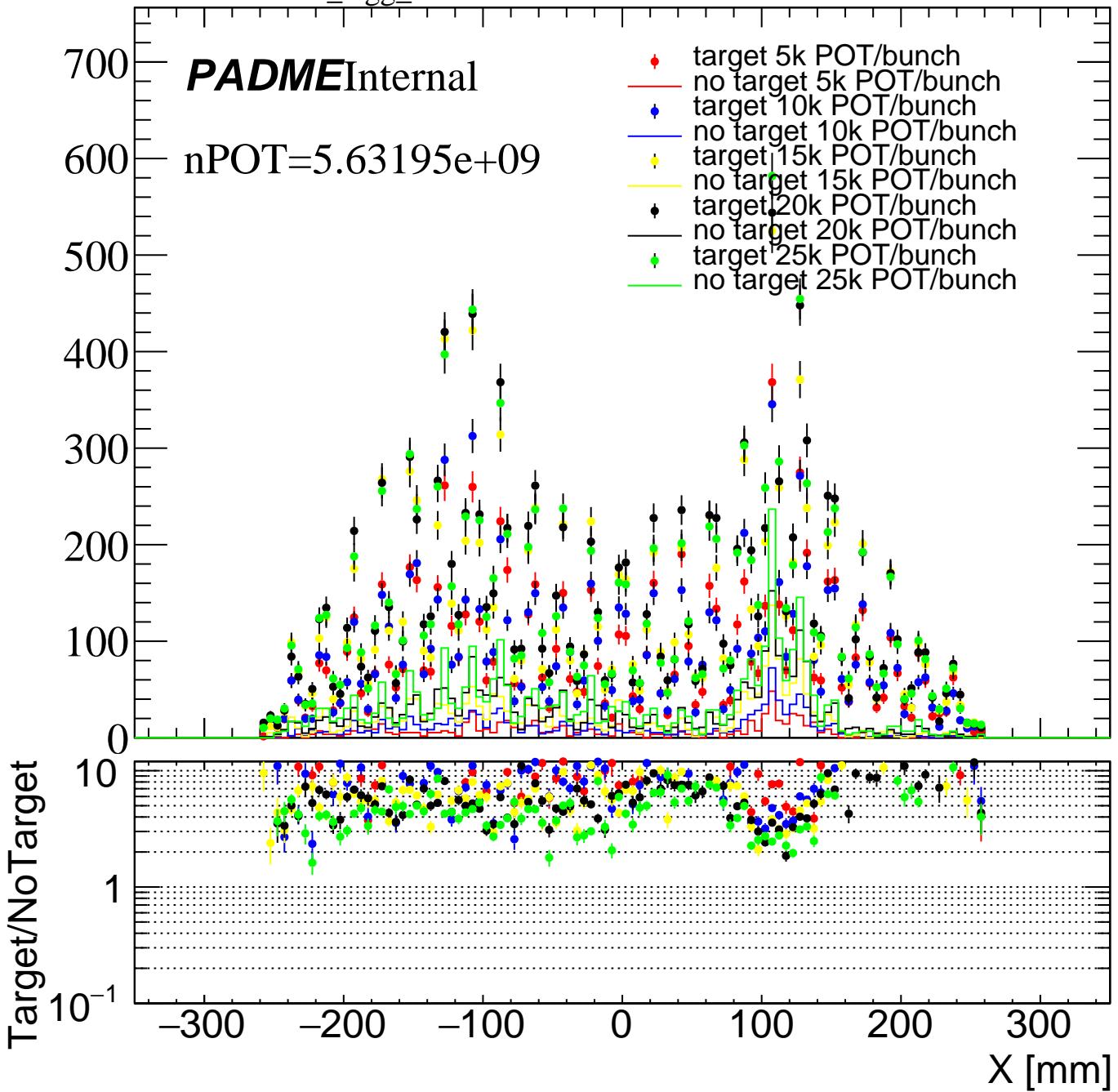
ECAL_Xgg_10ns5CoGUnderPeakEThr90



ECAL_Xgg_10ns5CoGUnderPeakEThr90_FRY



ECAL_Xgg_10ns5CoGEThr90

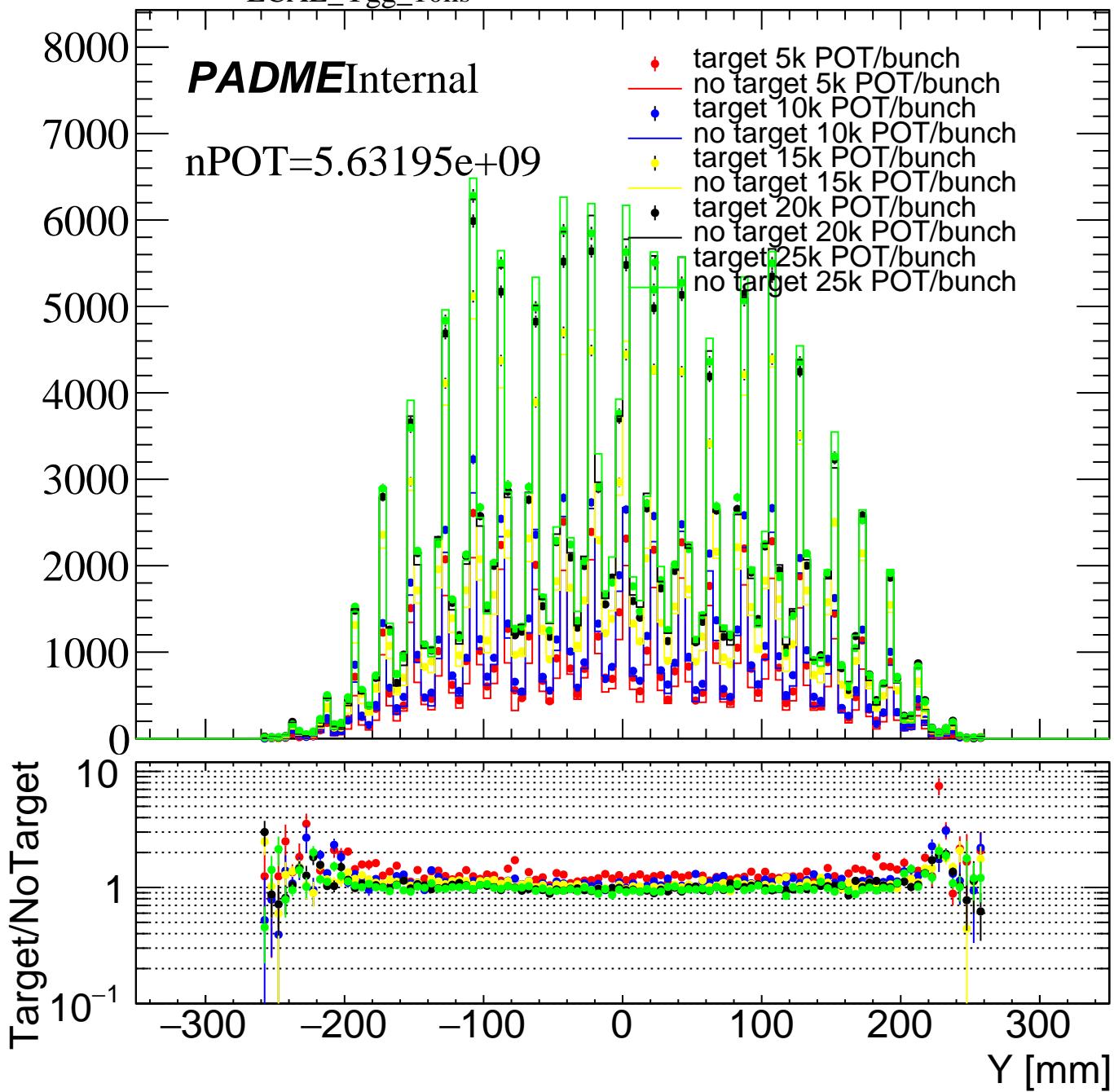


ECAL_Ygg_10ns

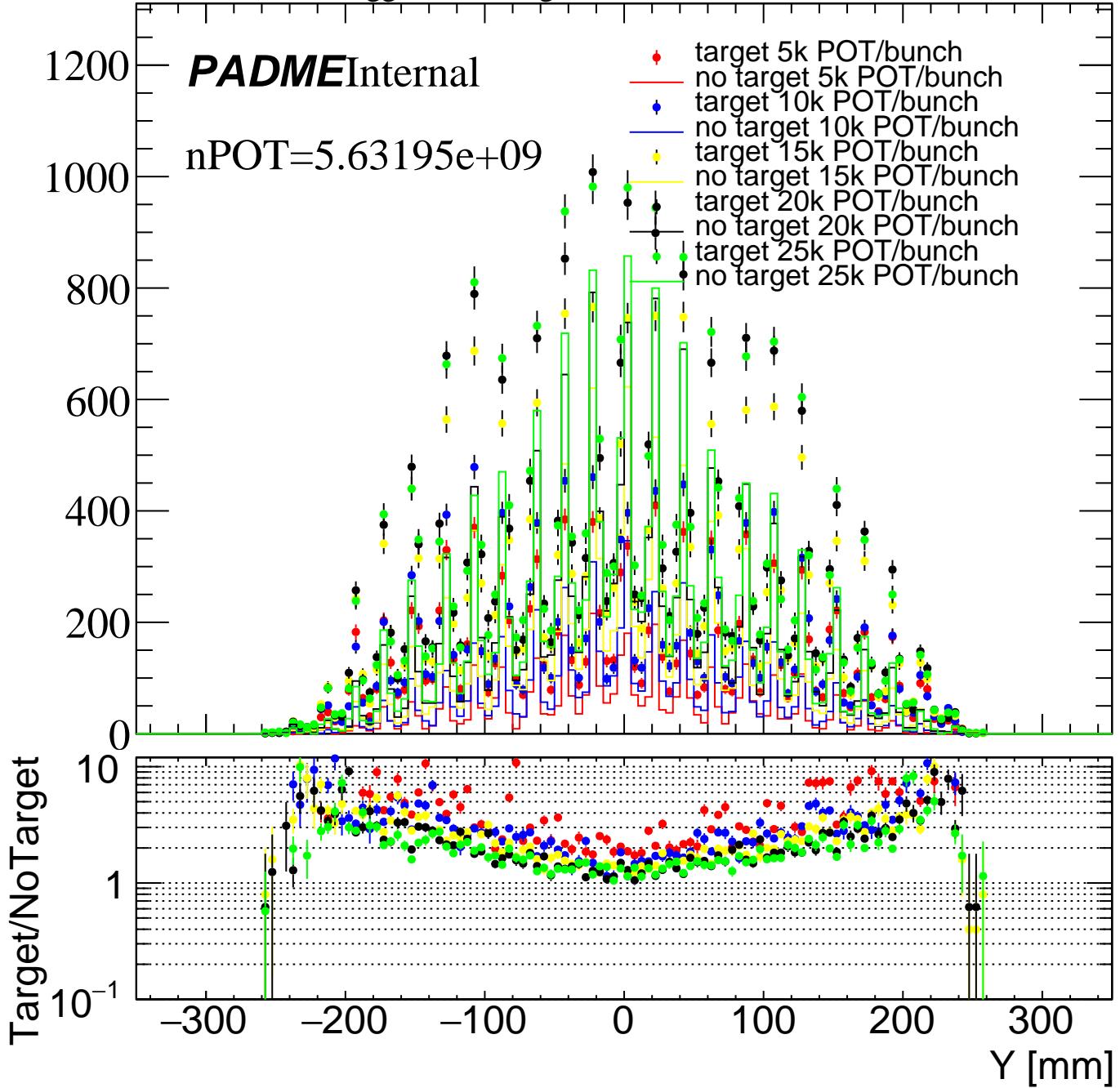
PADMEInternal

nPOT=5.63195e+09

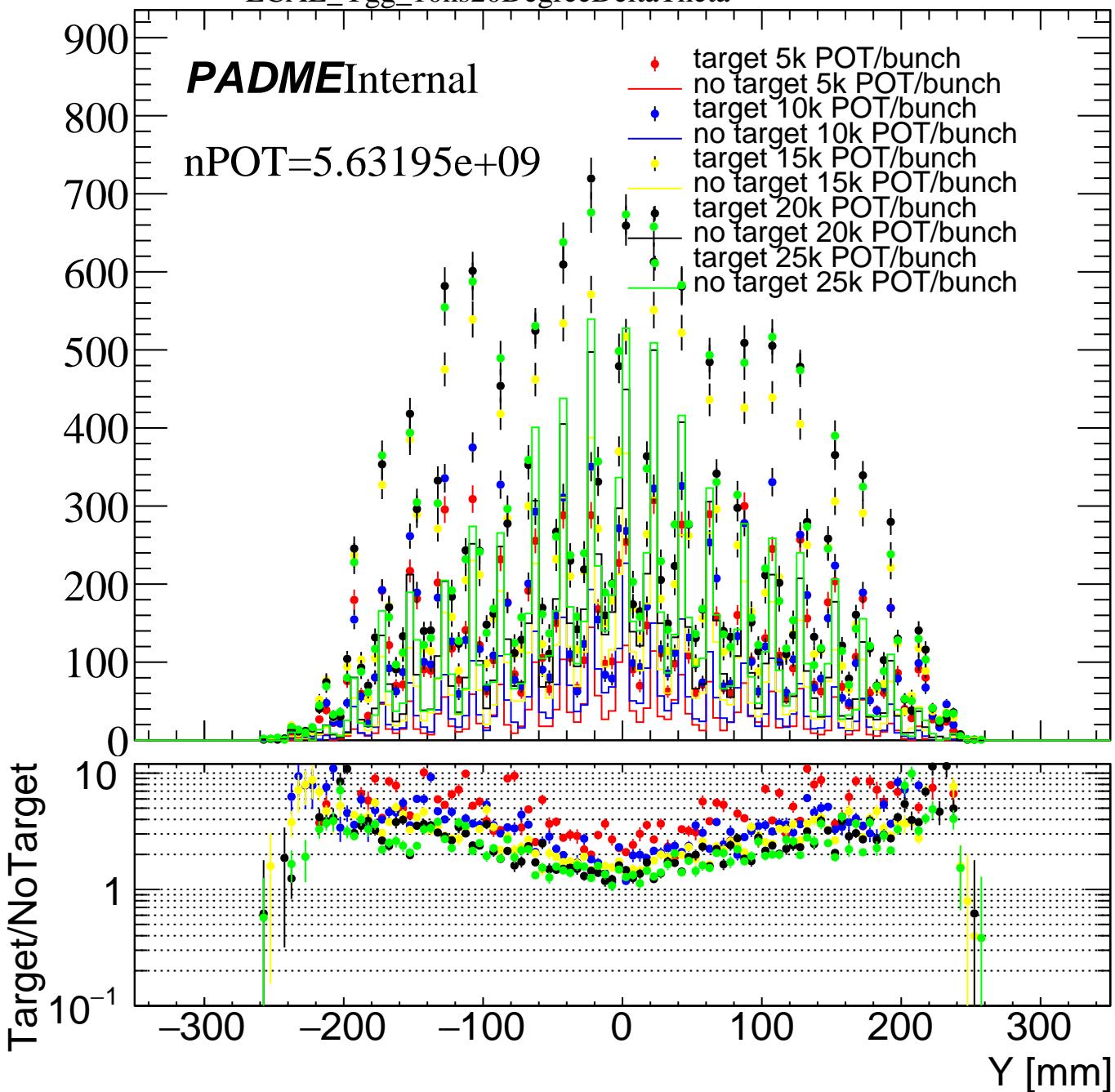
- target 5k POT/bunch
- no target 5k POT/bunch
- target 10k POT/bunch
- no target 10k POT/bunch
- target 15k POT/bunch
- no target 15k POT/bunch
- target 20k POT/bunch
- no target 20k POT/bunch
- target 25k POT/bunch
- no target 25k POT/bunch



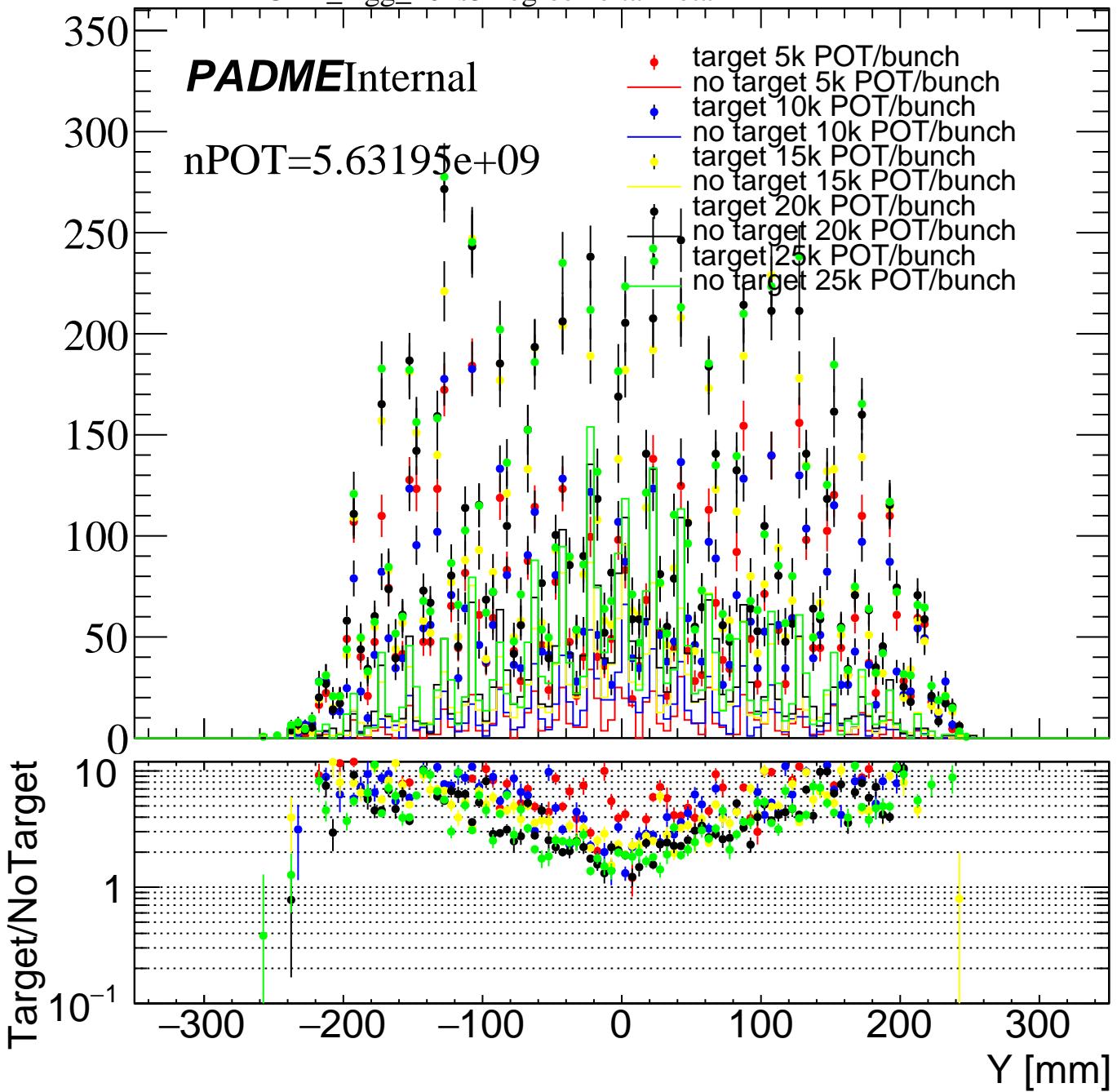
ECAL_Ygg_10ns20Degree



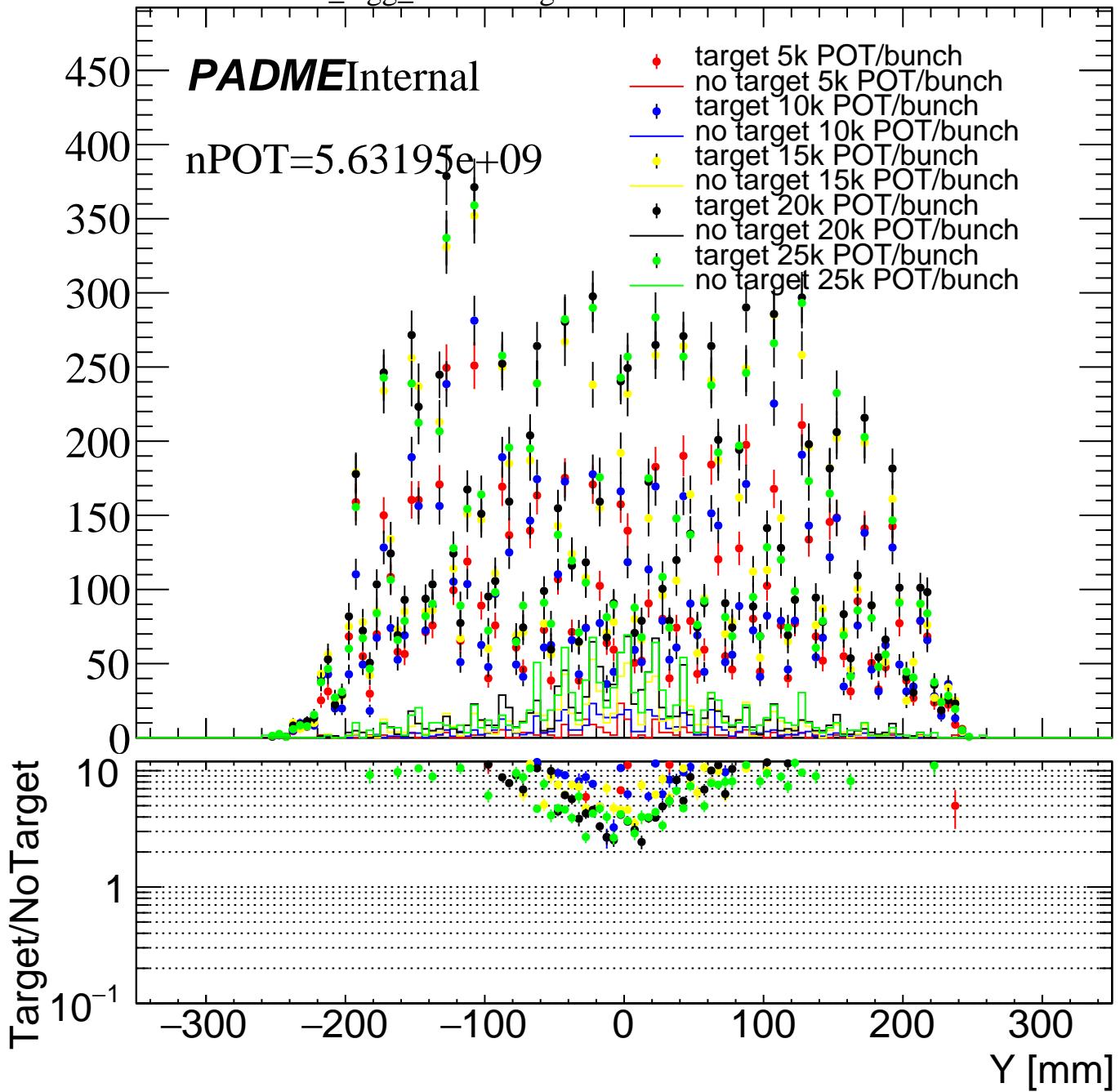
ECAL_Ygg_10ns20DegreeDeltaTheta



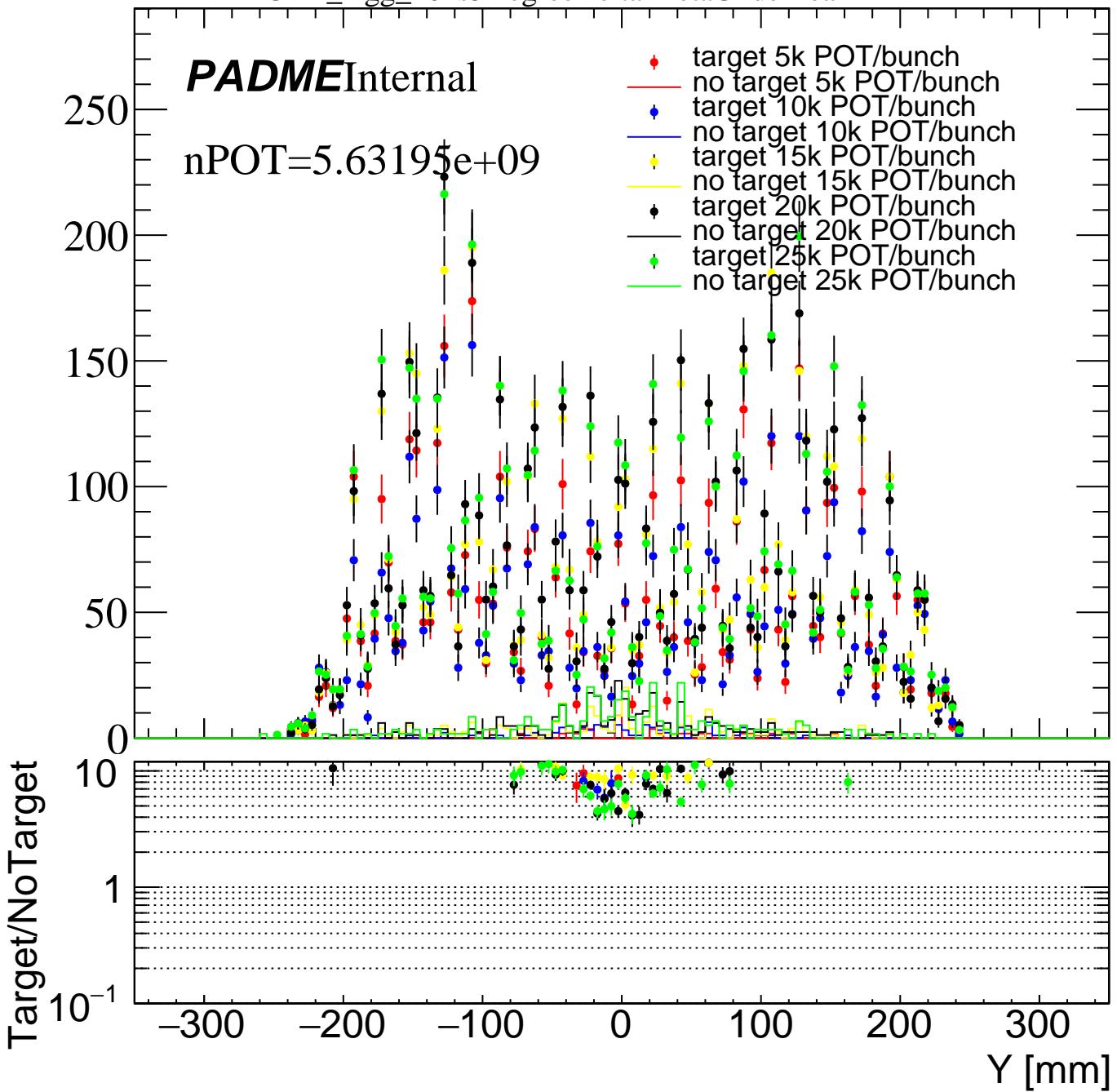
ECAL_Ygg_10ns5DegreeDeltaTheta



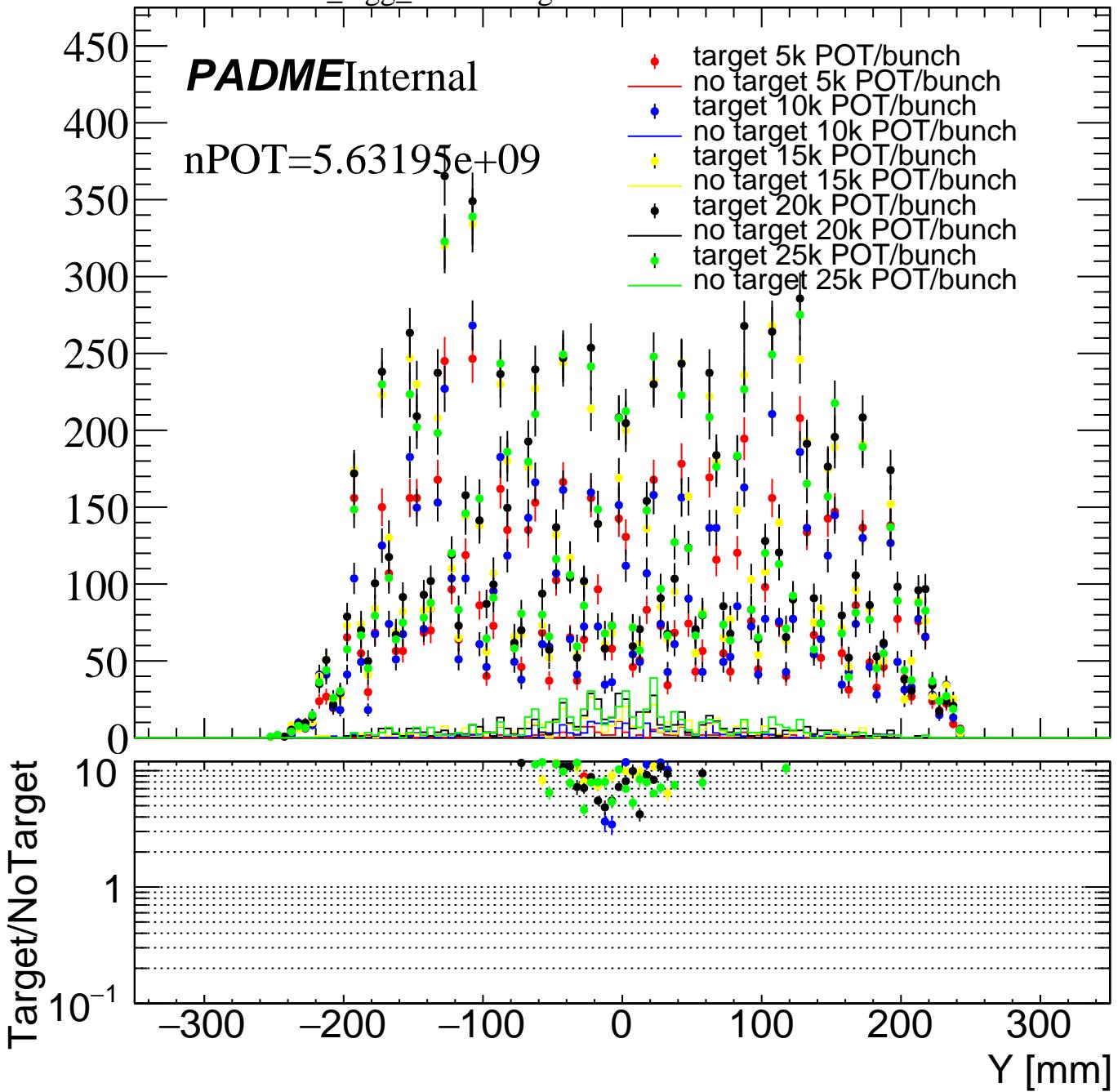
ECAL_Ygg_10ns20DegreeDeltaThetaUnderPeak



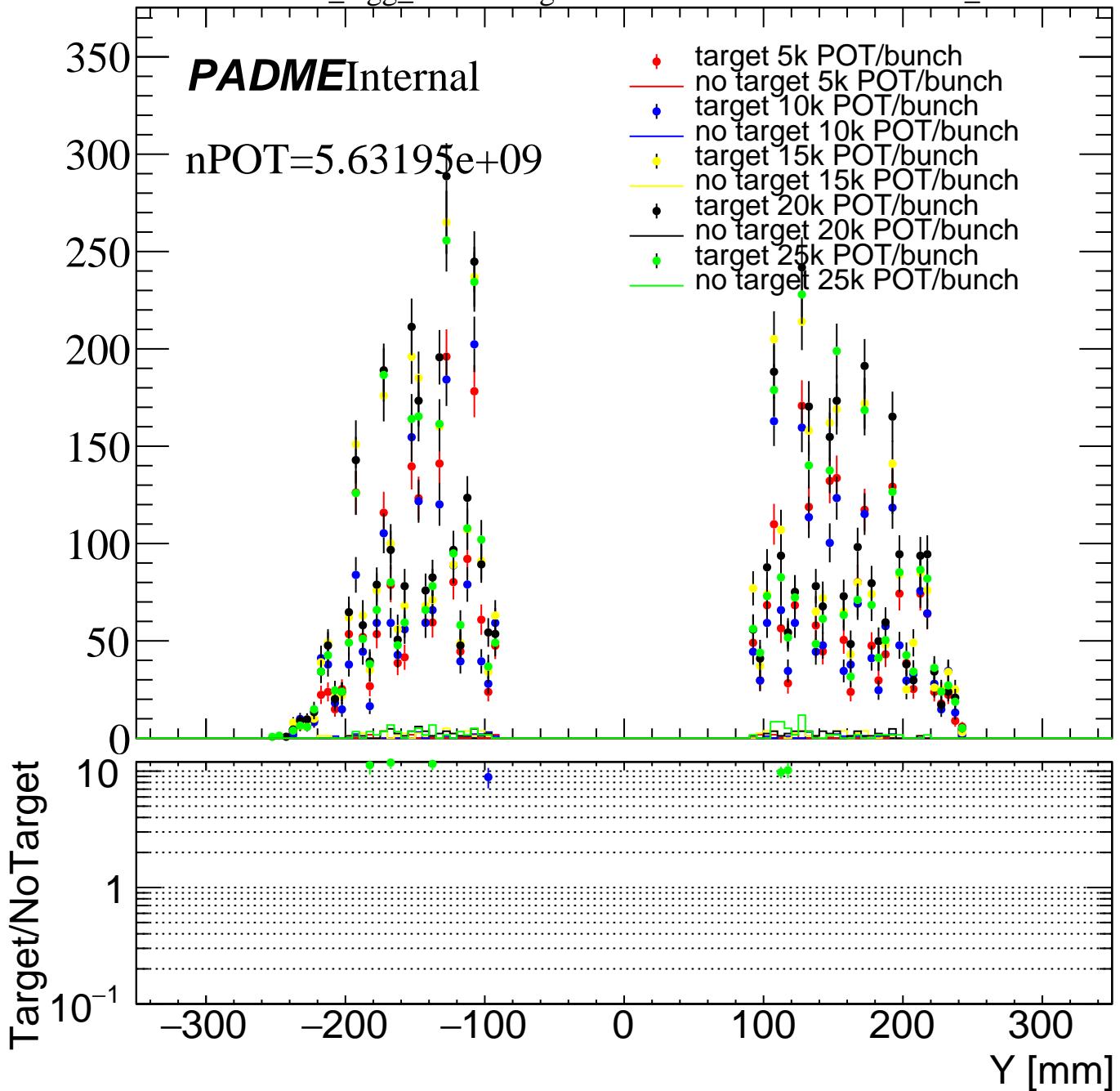
ECAL_Ygg_10ns5DegreeDeltaThetaUnderPeak



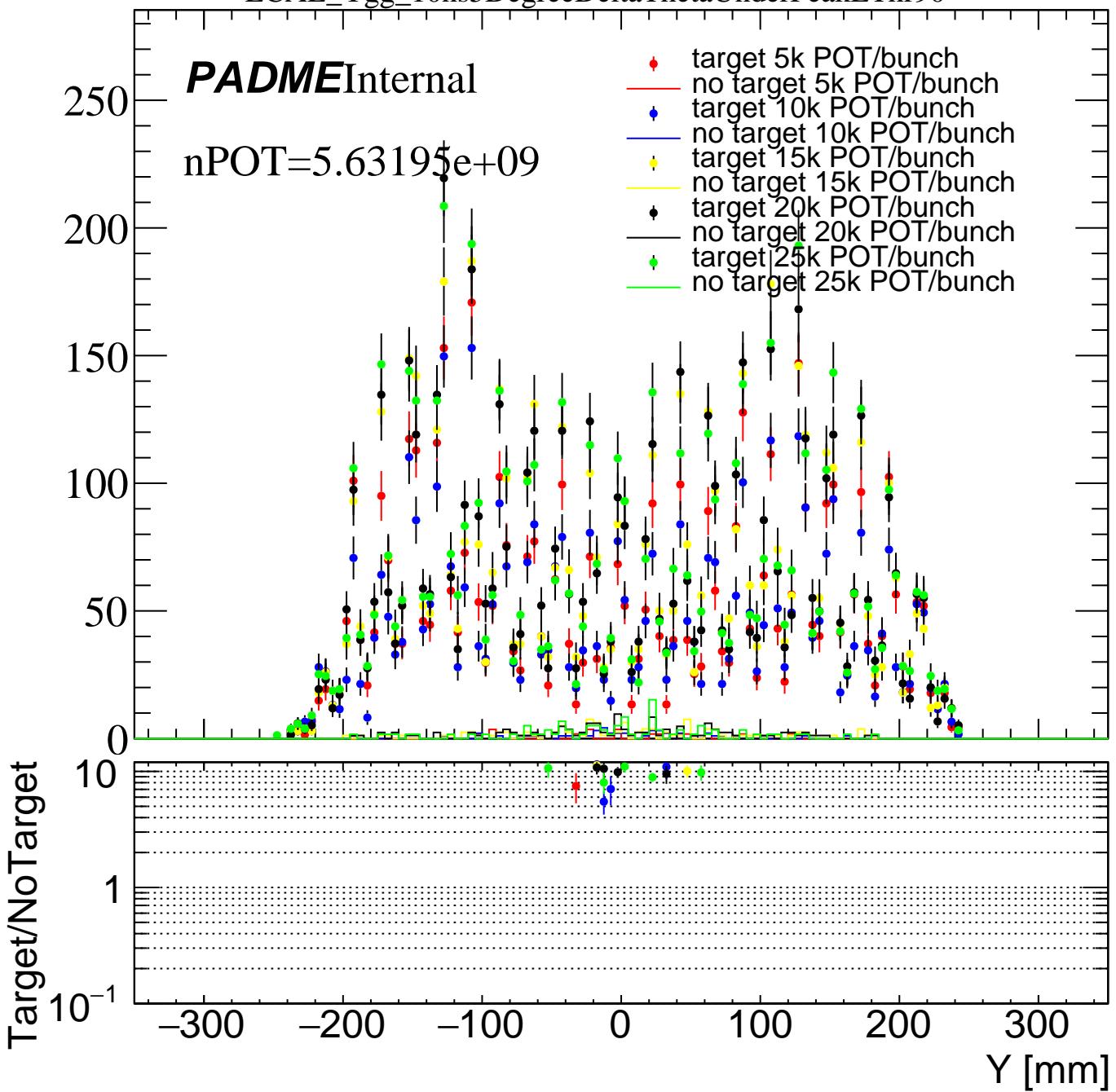
ECAL_Ygg_10ns20DegreeDeltaThetaUnderPeakEThr90



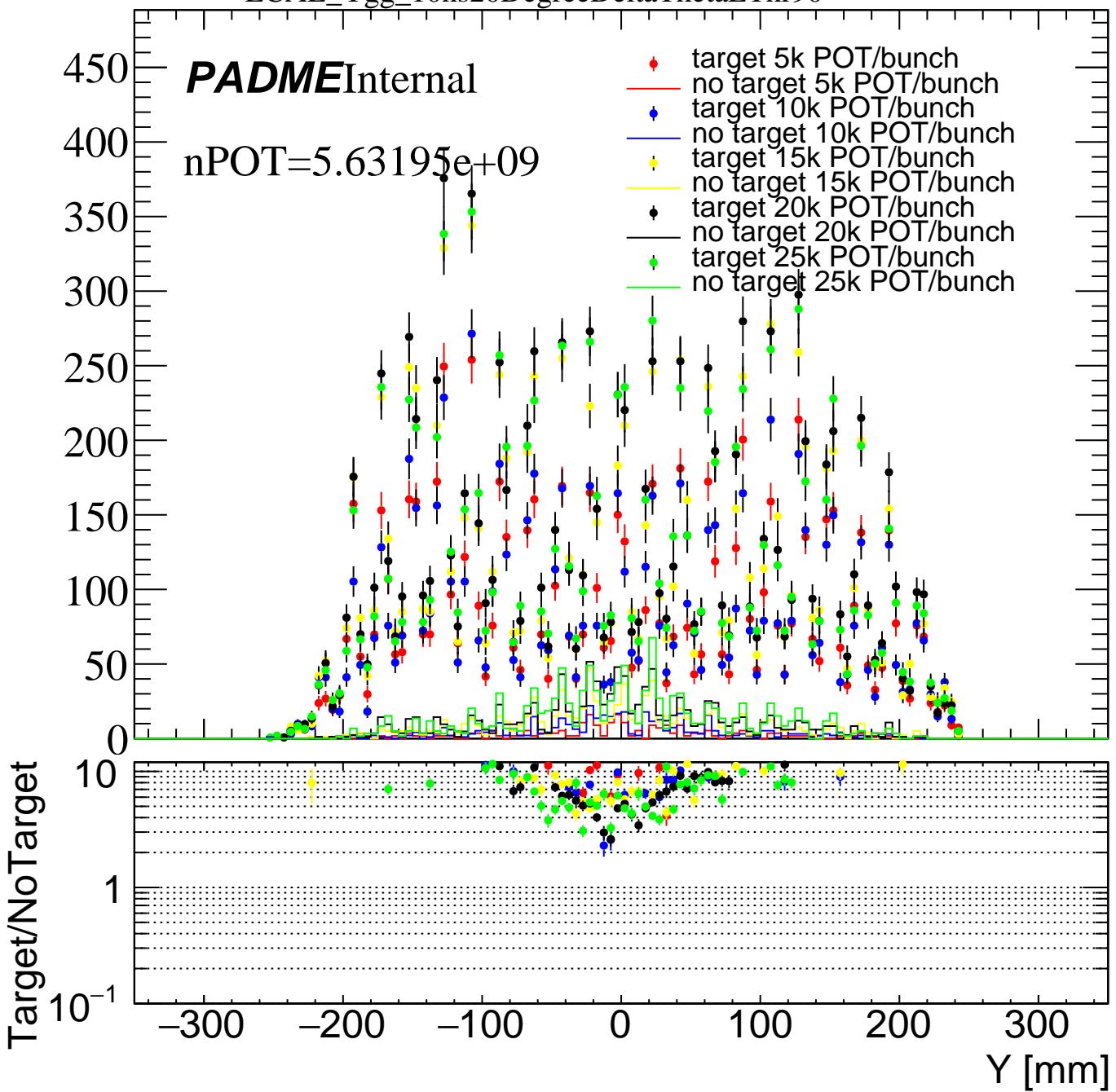
ECAL_Ygg_10ns20DegreeDeltaThetaUnderPeakEThr90_FRY



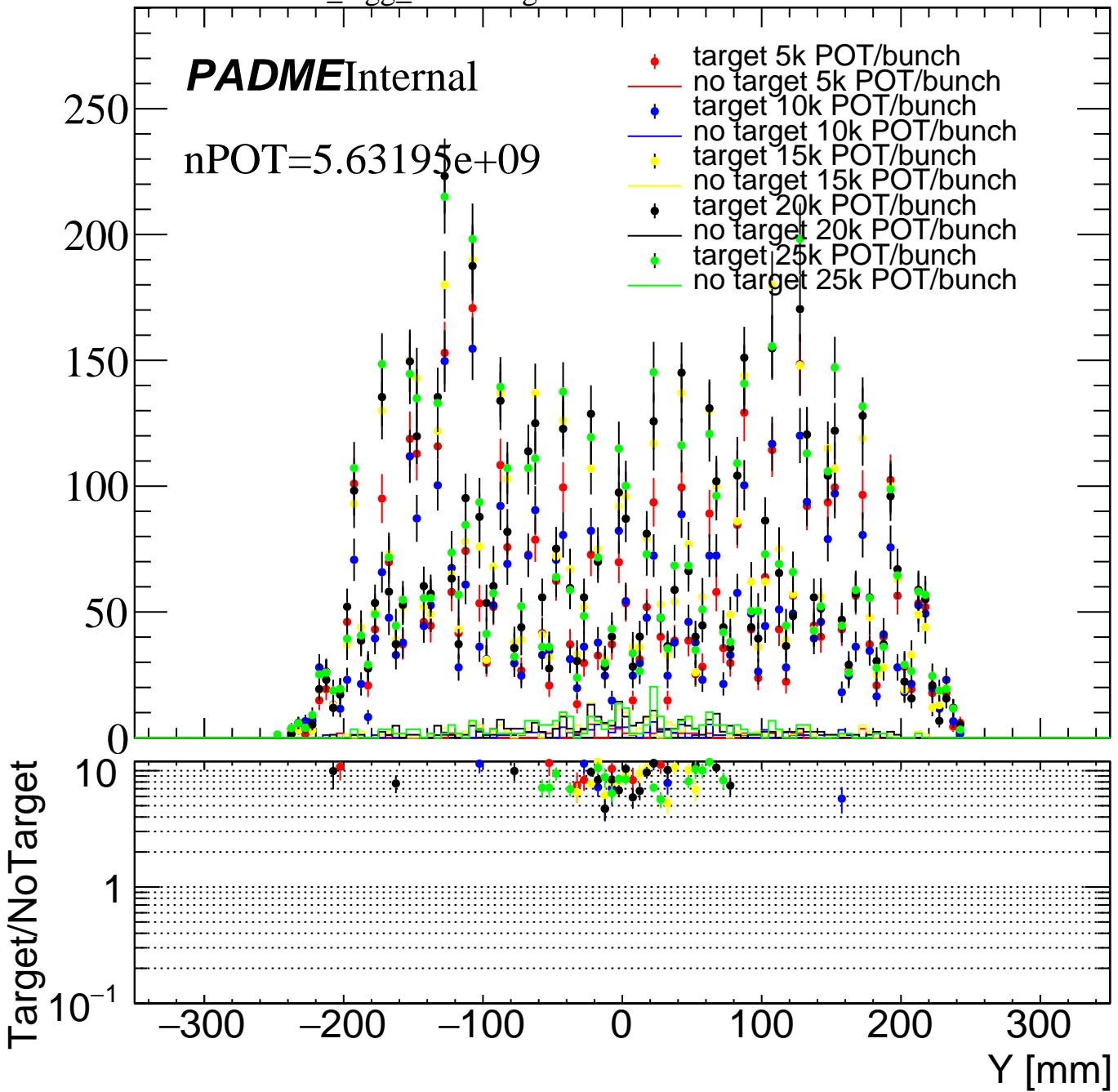
ECAL_Ygg_10ns5DegreeDeltaThetaUnderPeakEThr90

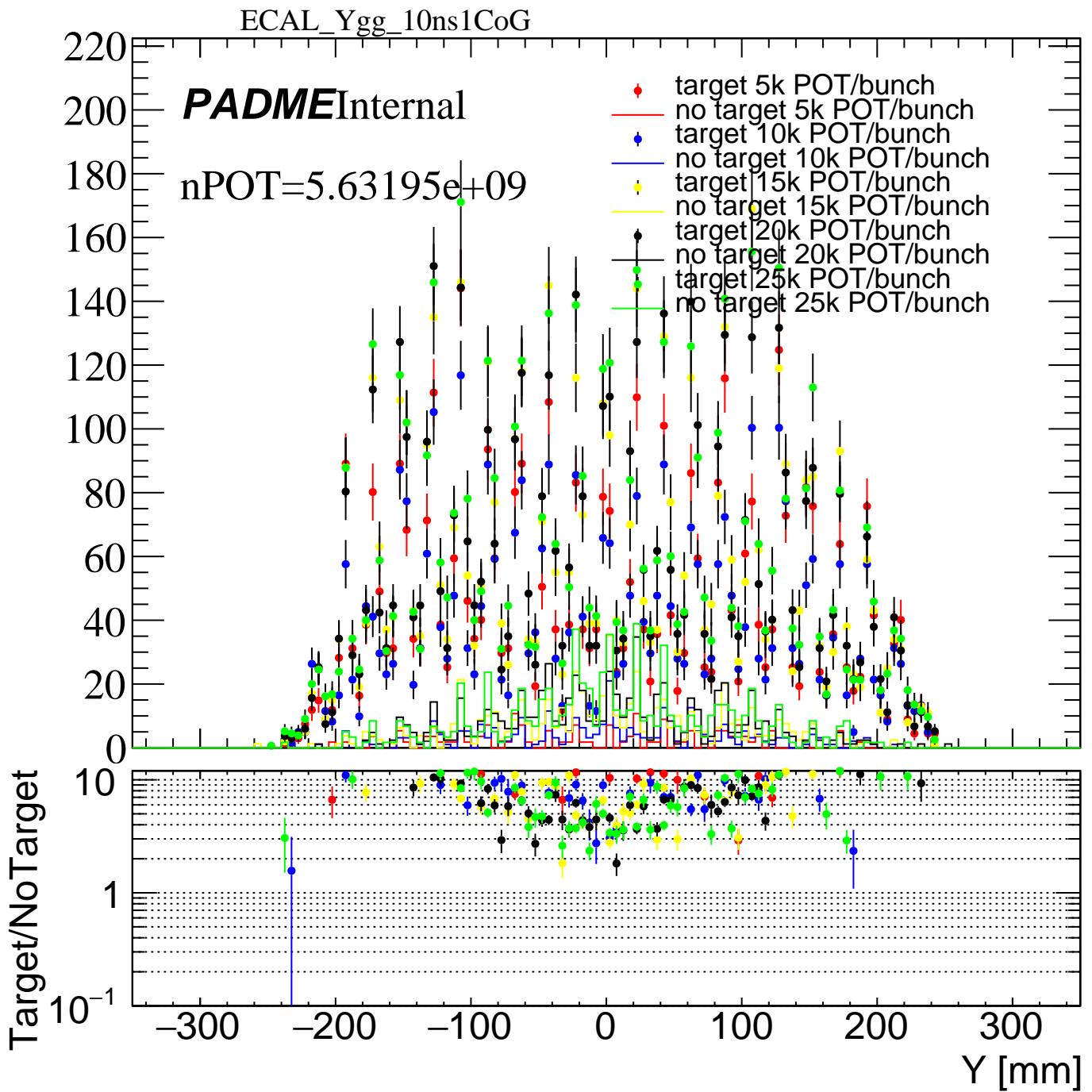


ECAL_Ygg_10ns20DegreeDeltaThetaEThr90

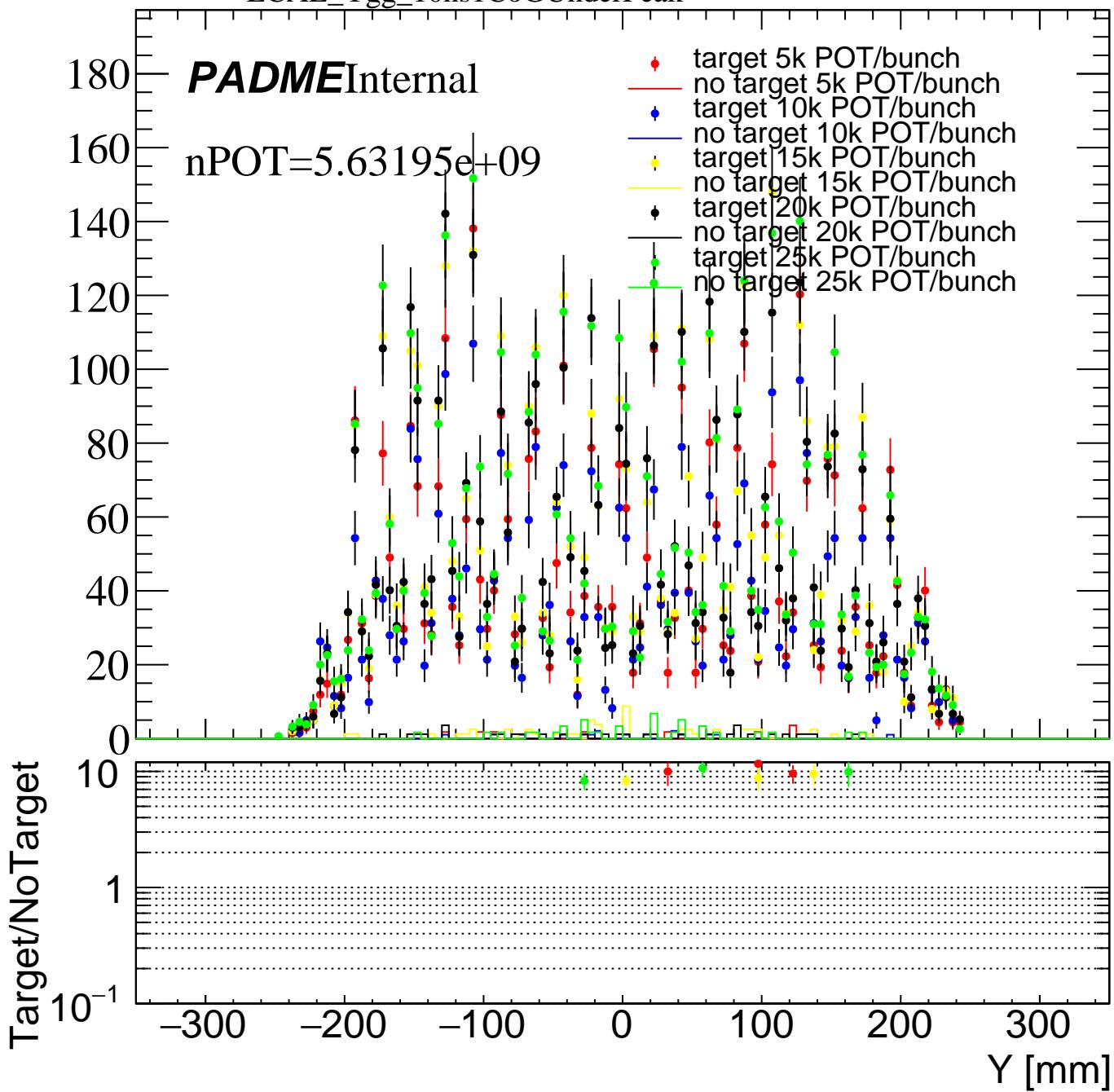


ECAL_Ygg_10ns5DegreeDeltaThetaEThr90

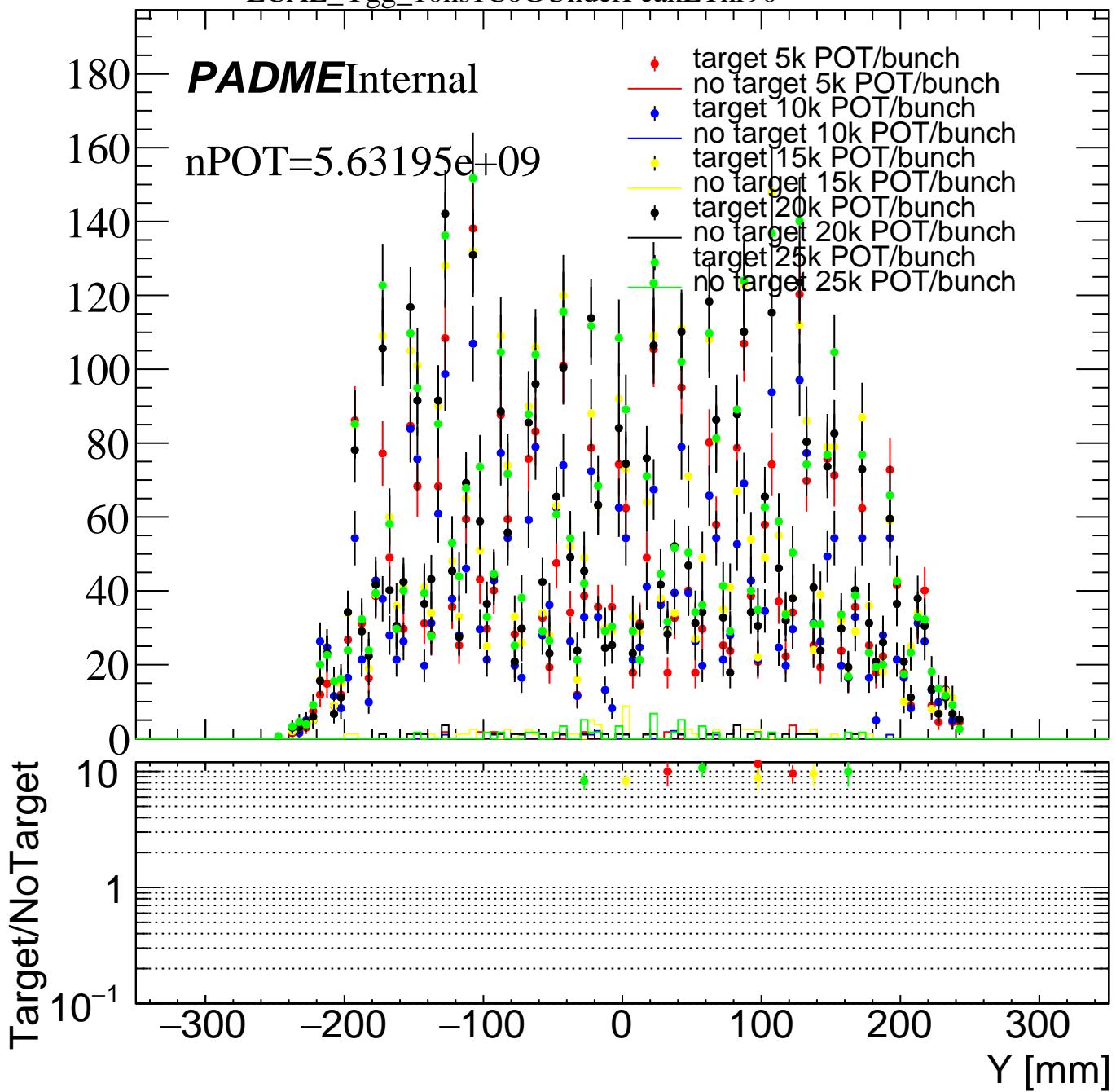




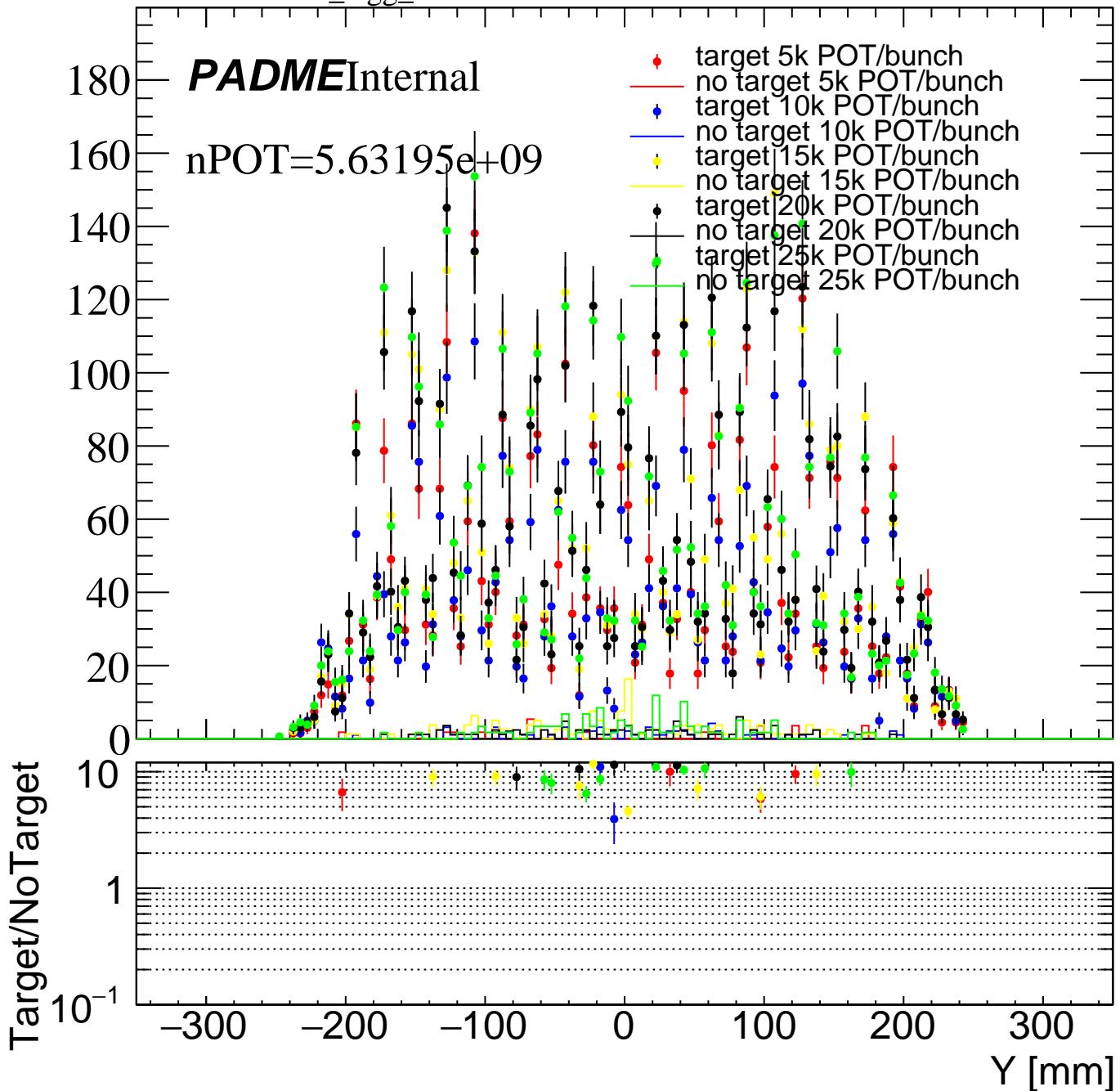
ECAL_Ygg_10ns1CoGUnderPeak

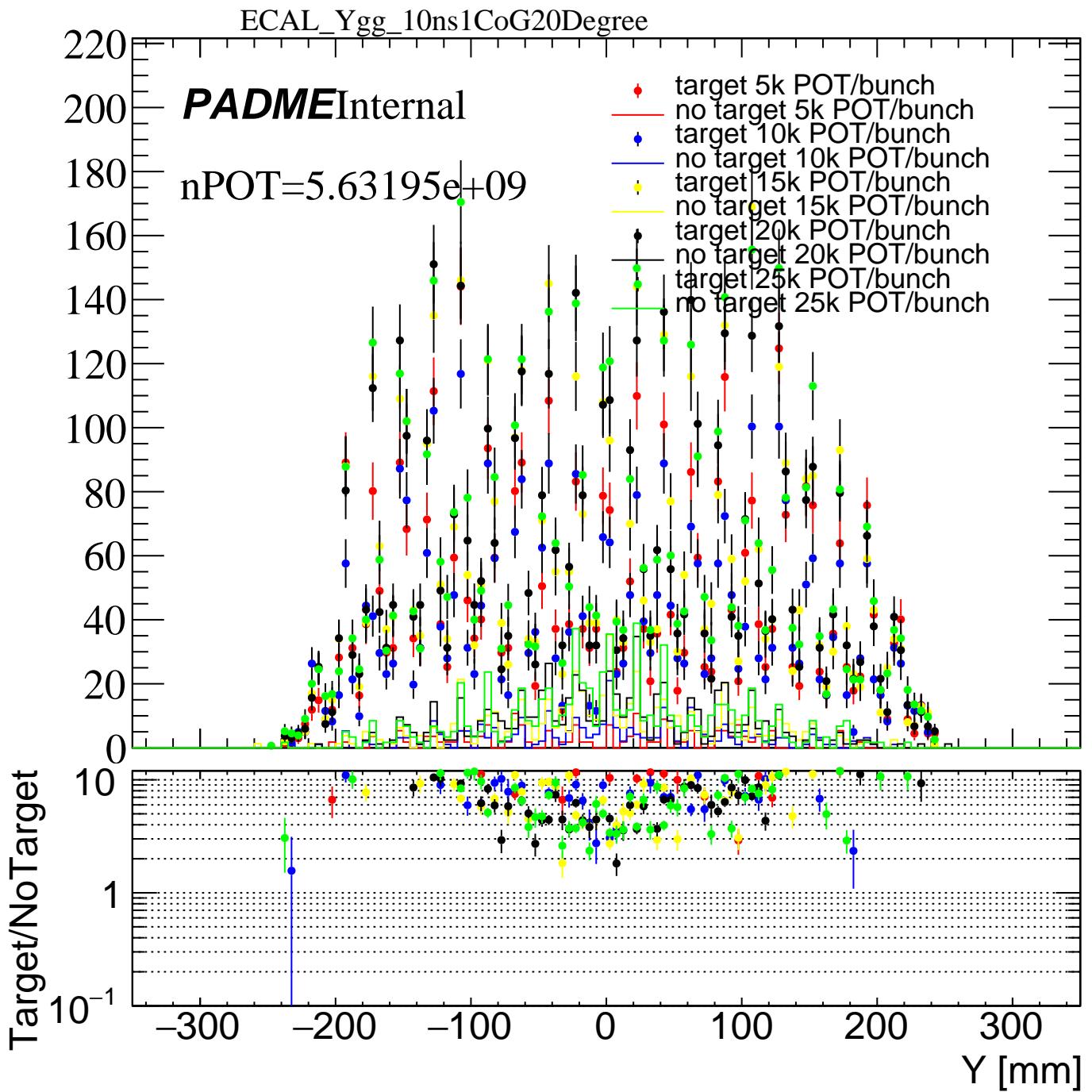


ECAL_Ygg_10ns1CoGUnderPeakETHr90

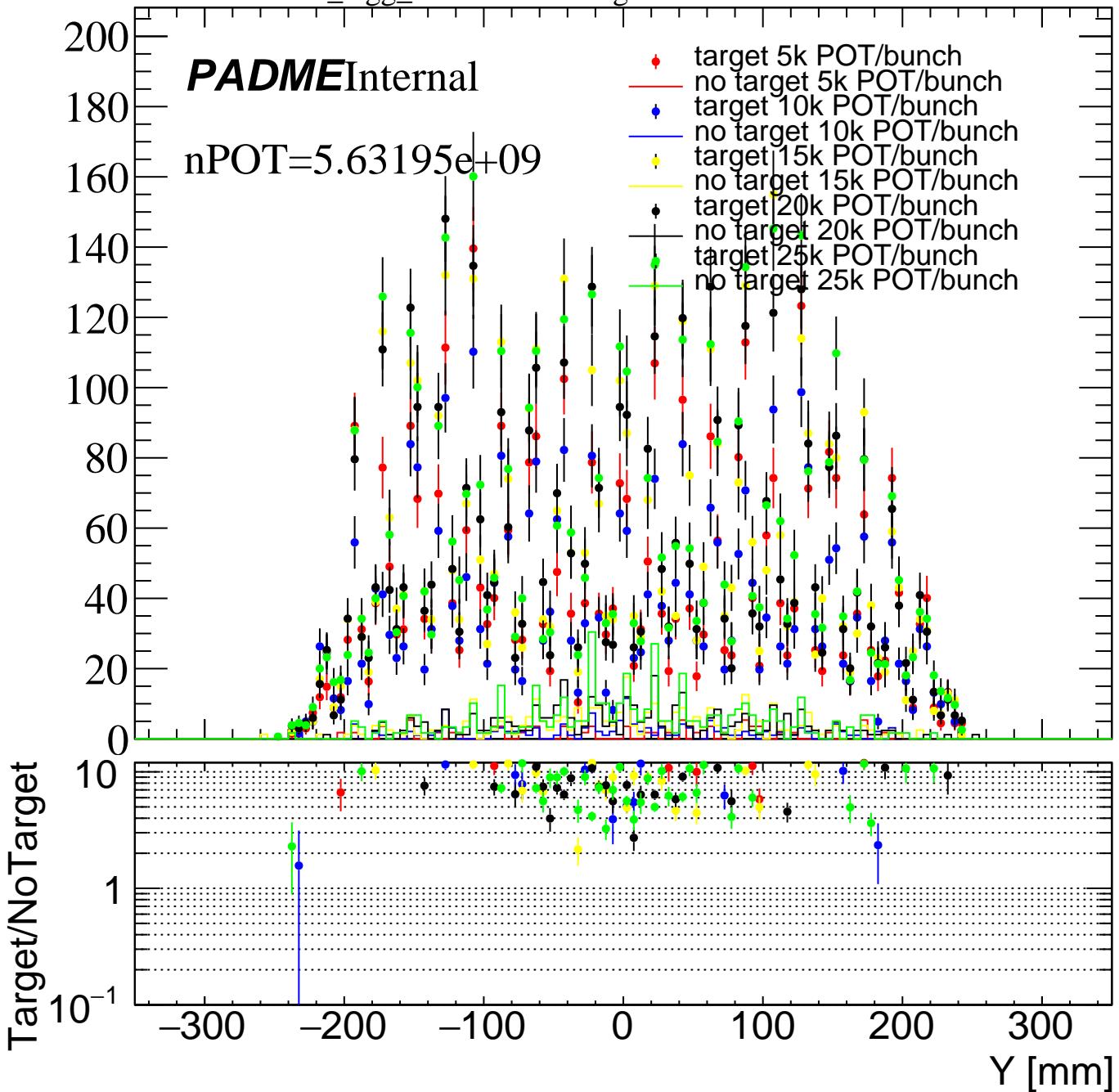


ECAL_Ygg_10ns1CoGEThr90

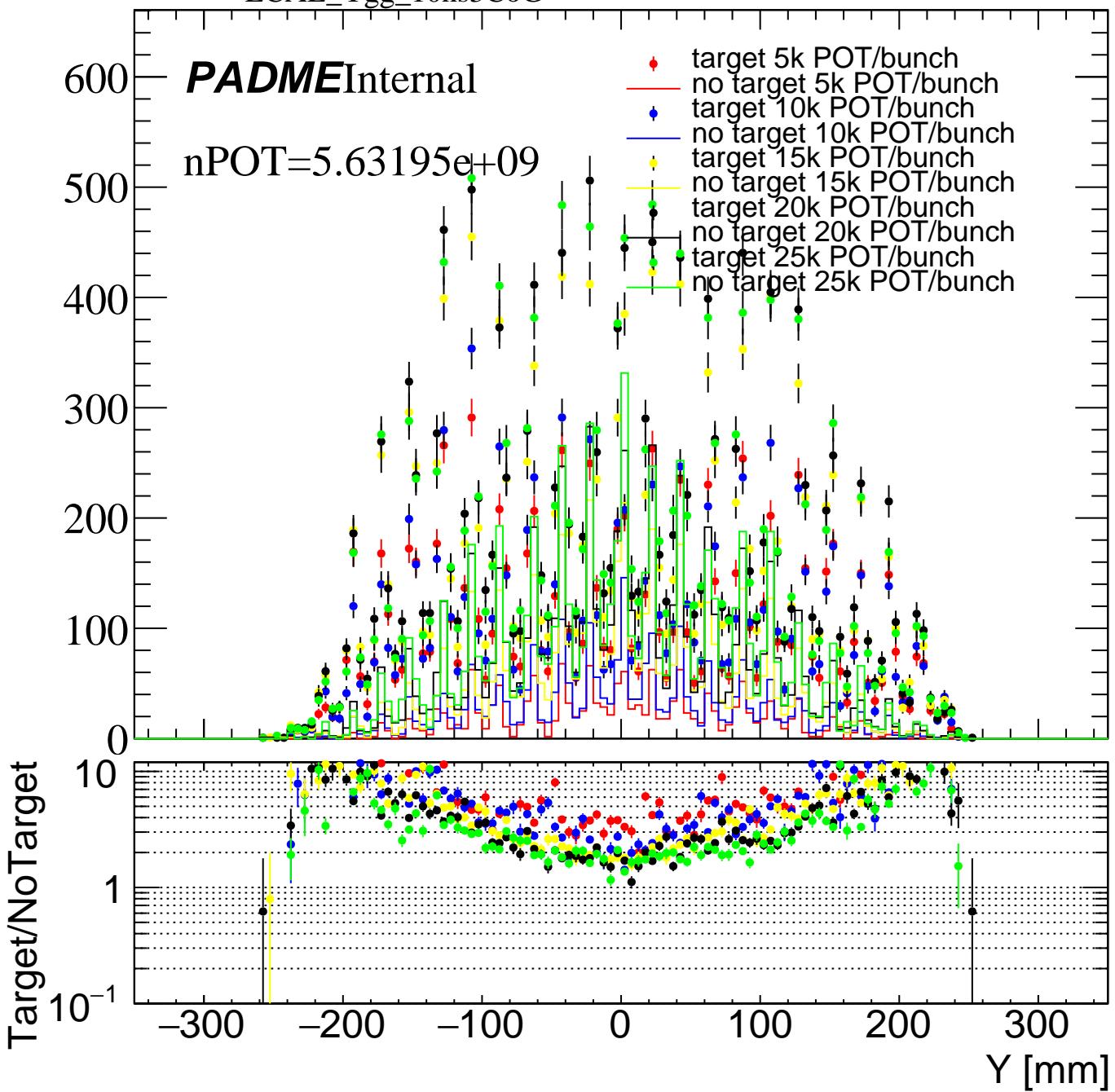




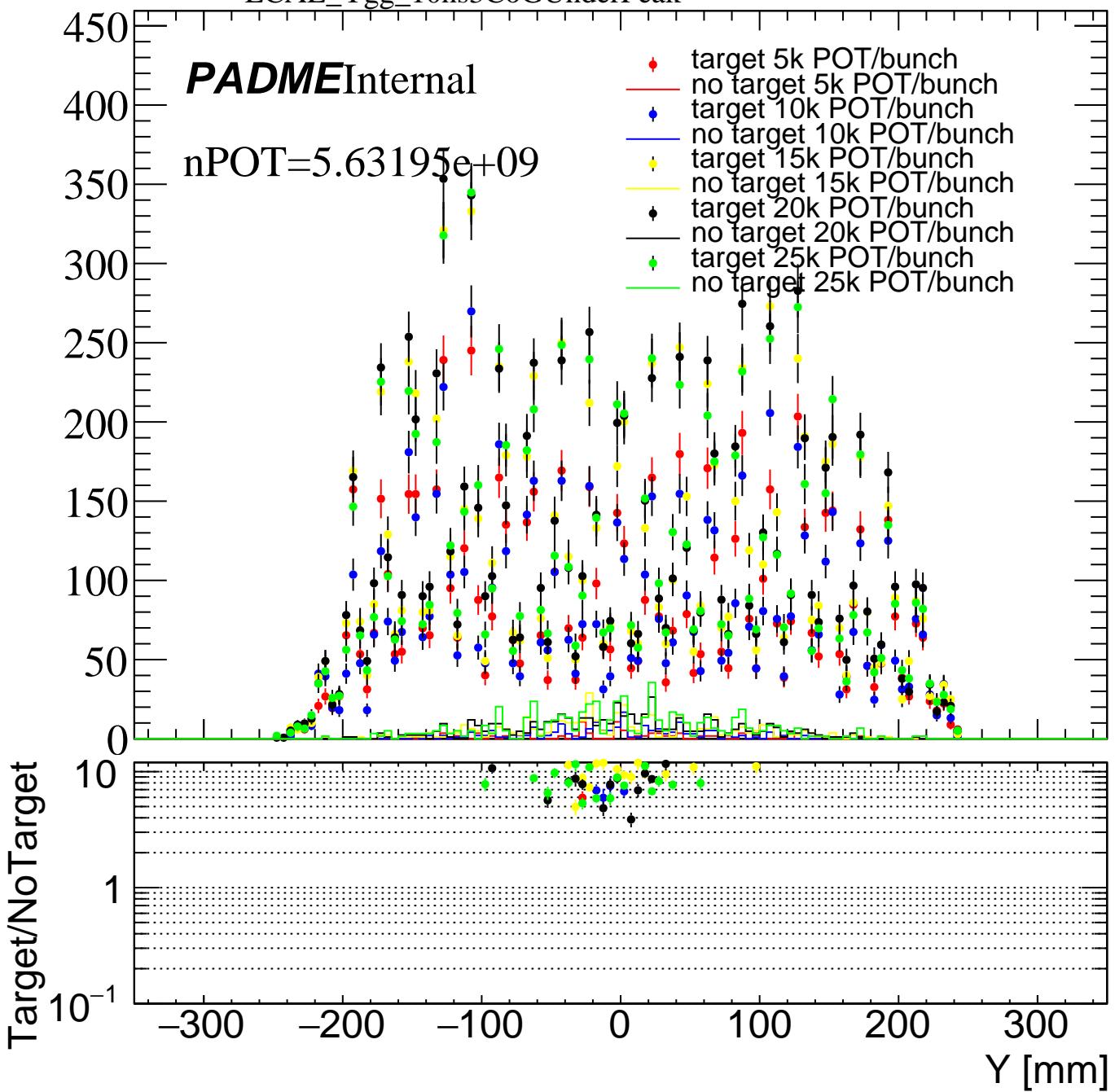
ECAL_Ygg_10ns1CoG20DegreeDeltaTheta



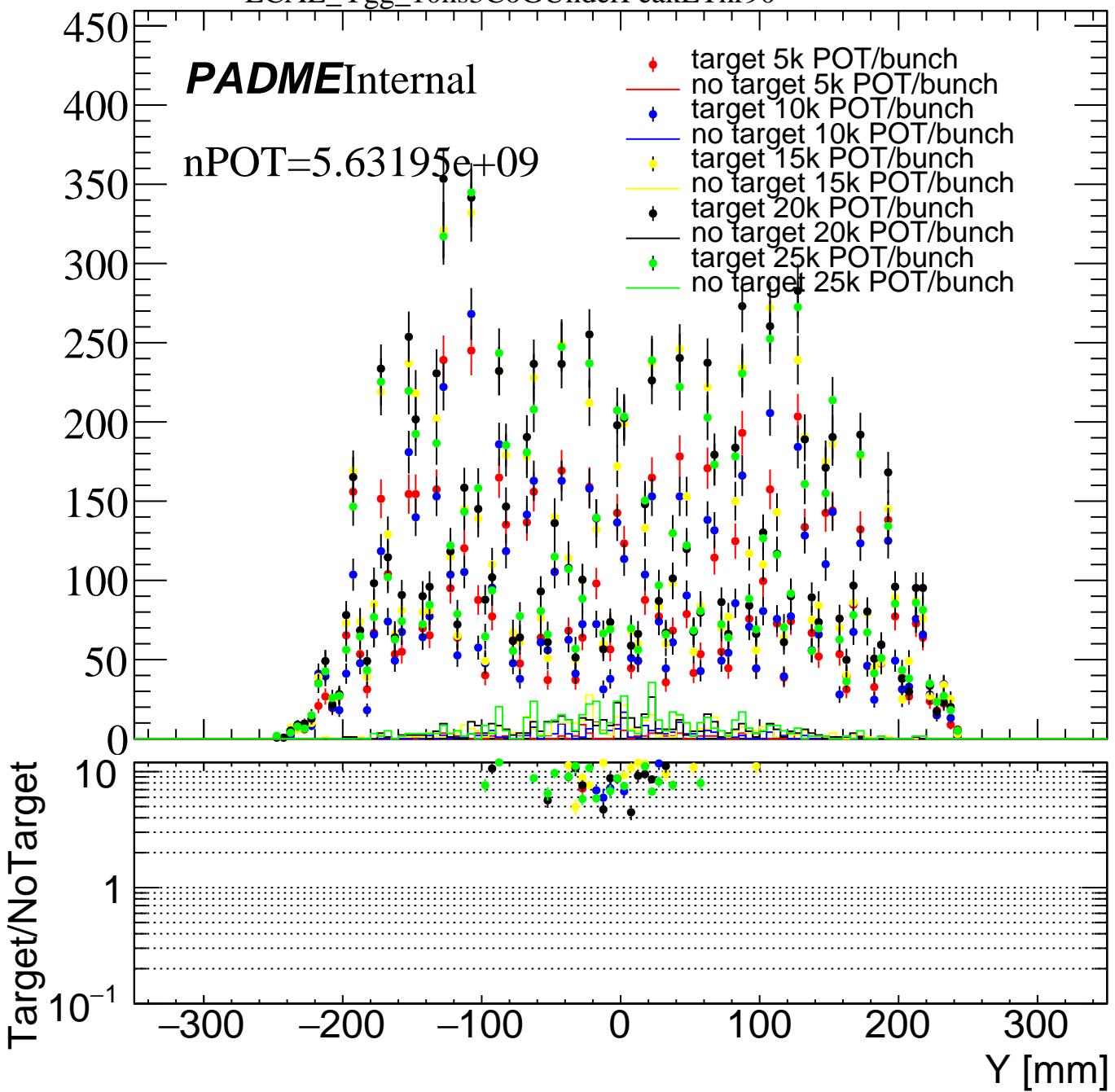
ECAL_Ygg_10ns3CoG



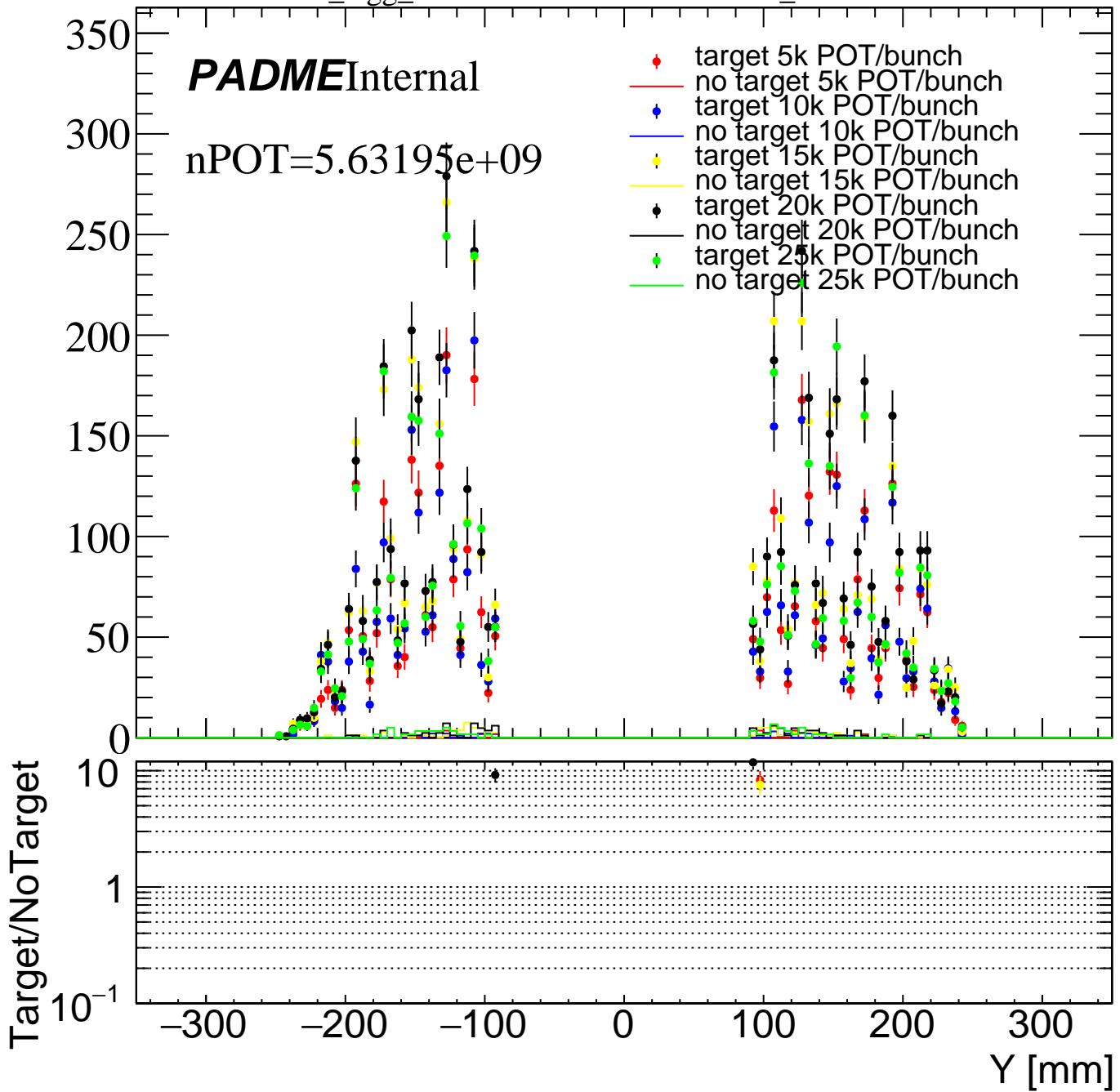
ECAL_Ygg_10ns3CoGUnderPeak



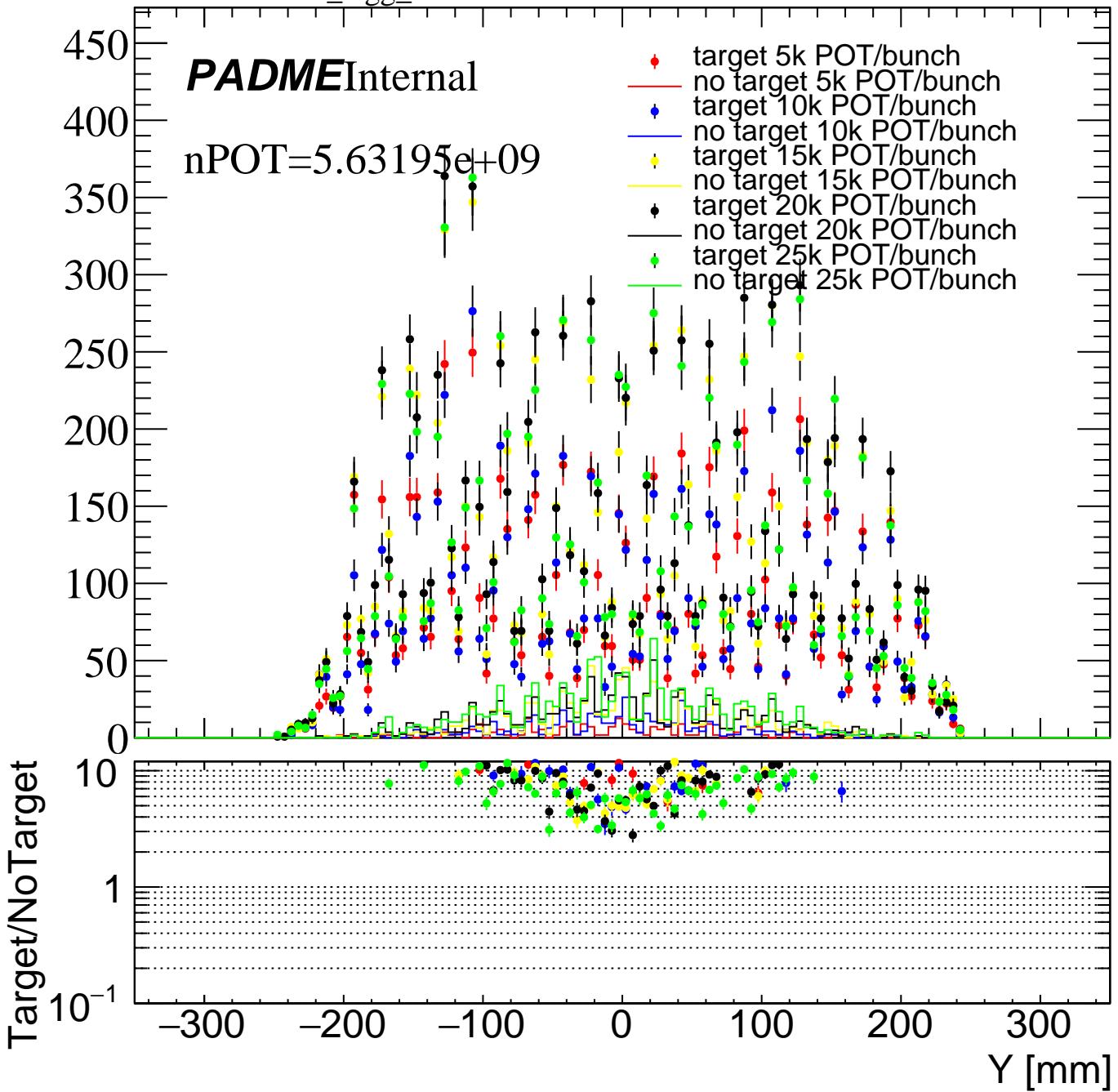
ECAL_Ygg_10ns3CoGUnderPeakETHr90



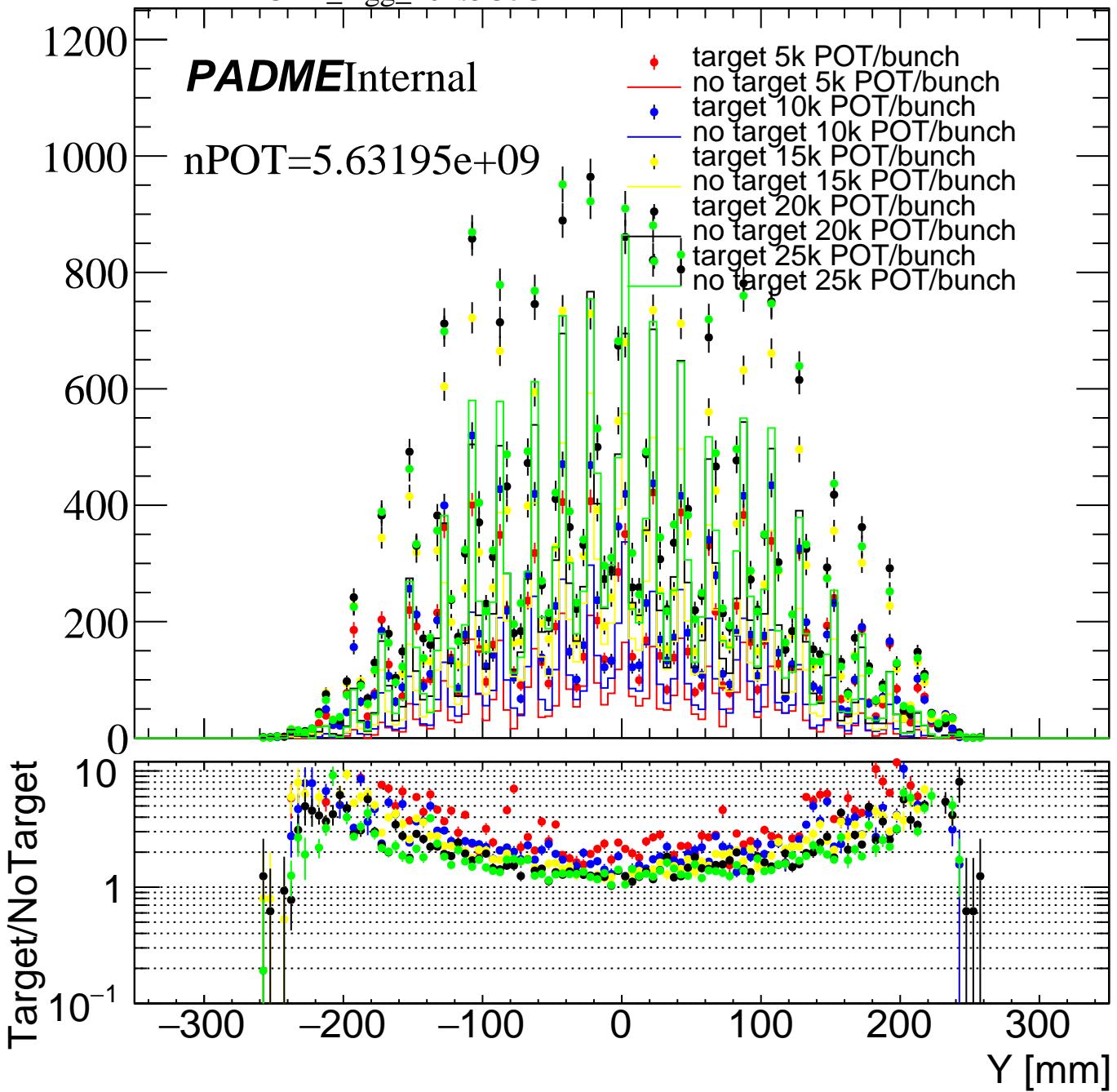
ECAL_Ygg_10ns3CoGUnderPeakEThr90_FRY



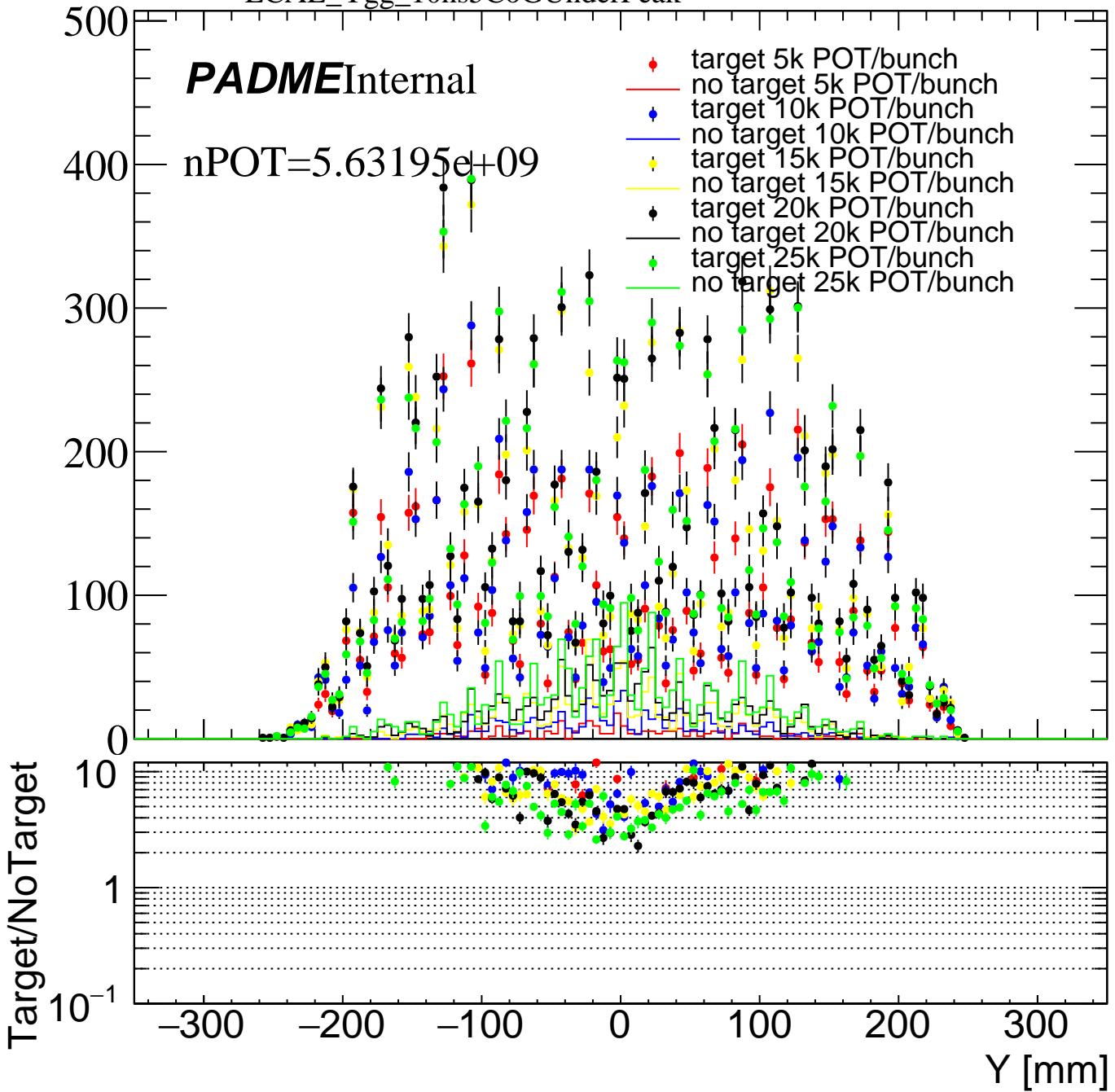
ECAL_Ygg_10ns3CoGEThr90

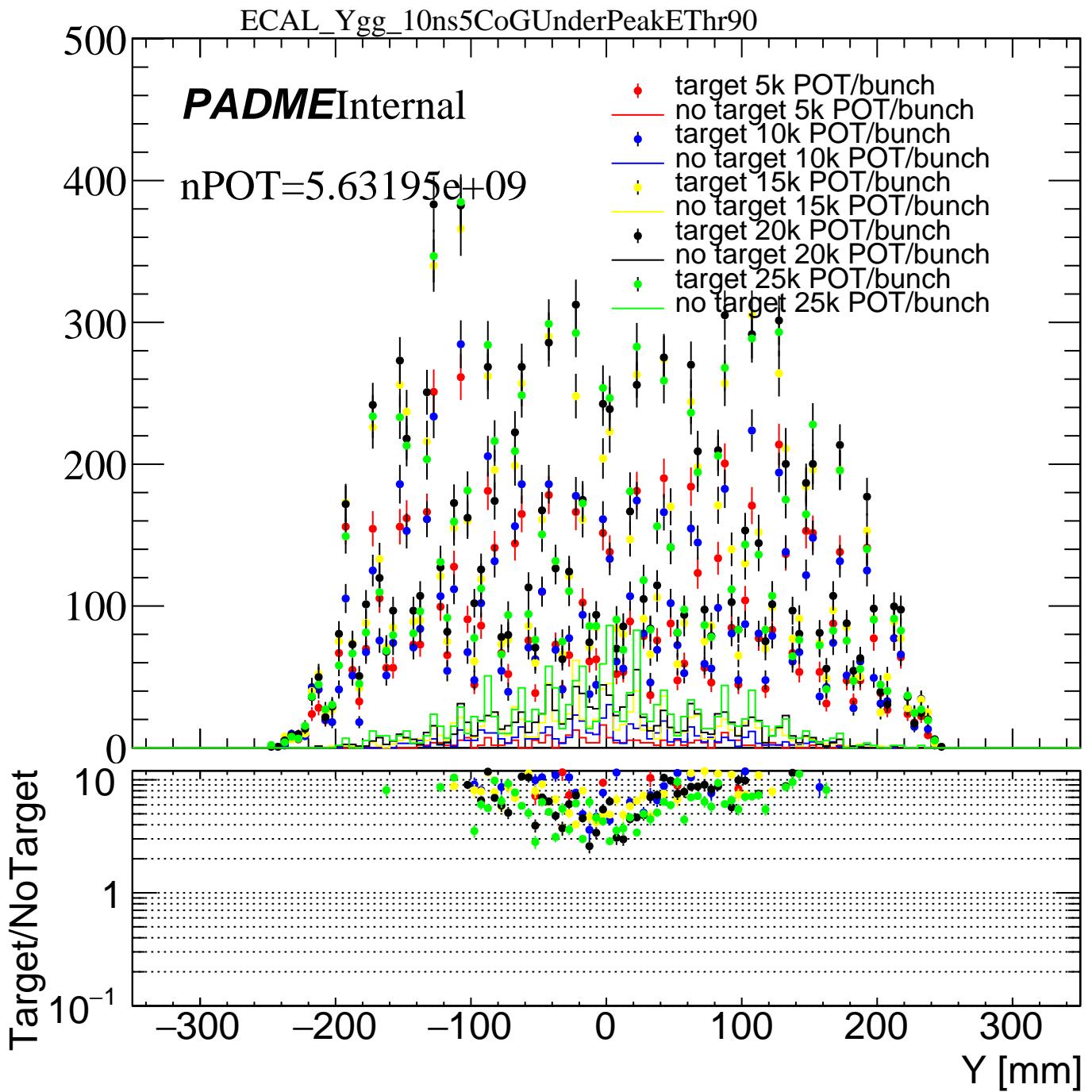


ECAL_Ygg_10ns5CoG

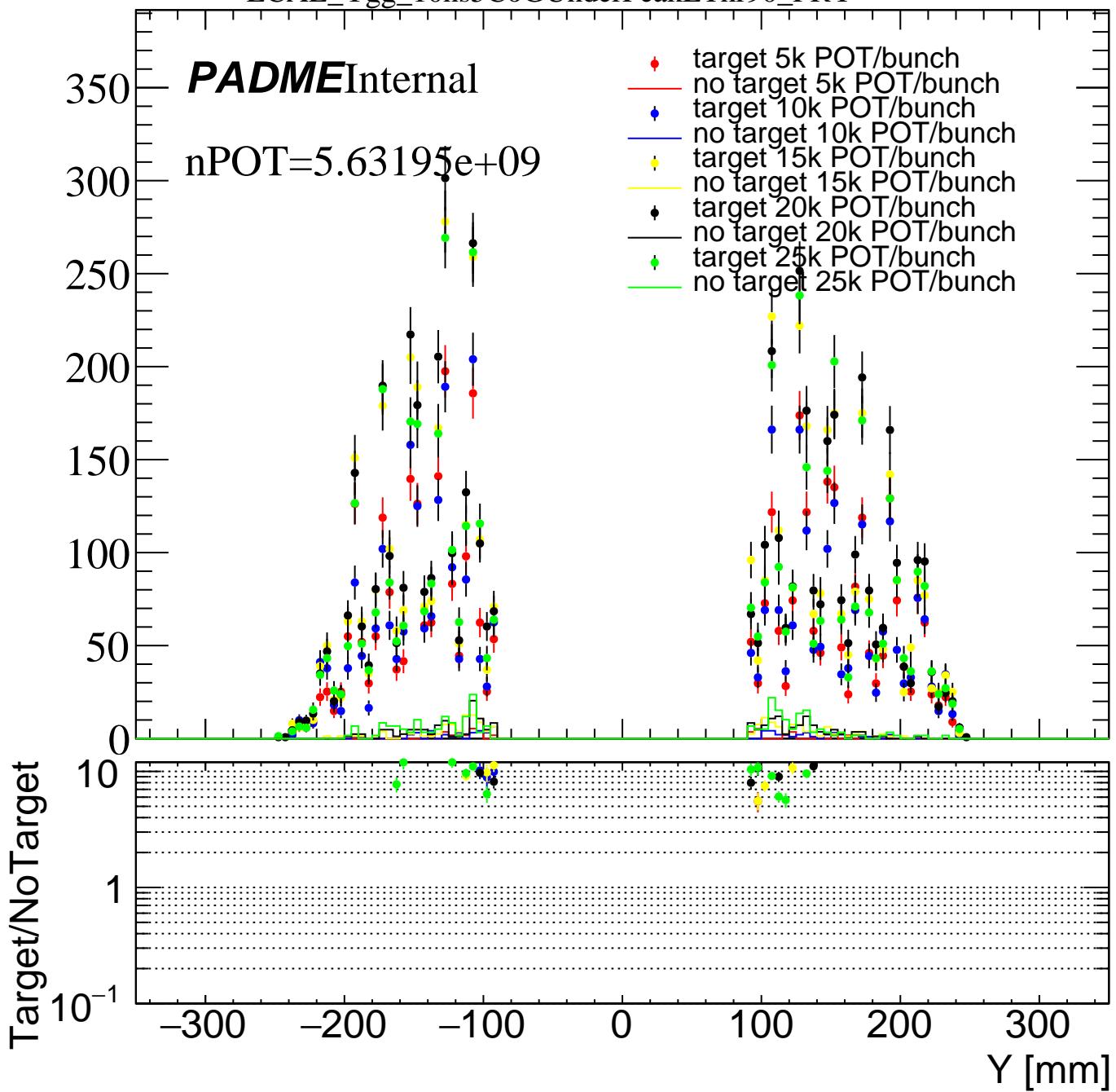


ECAL_Ygg_10ns5CoGUnderPeak

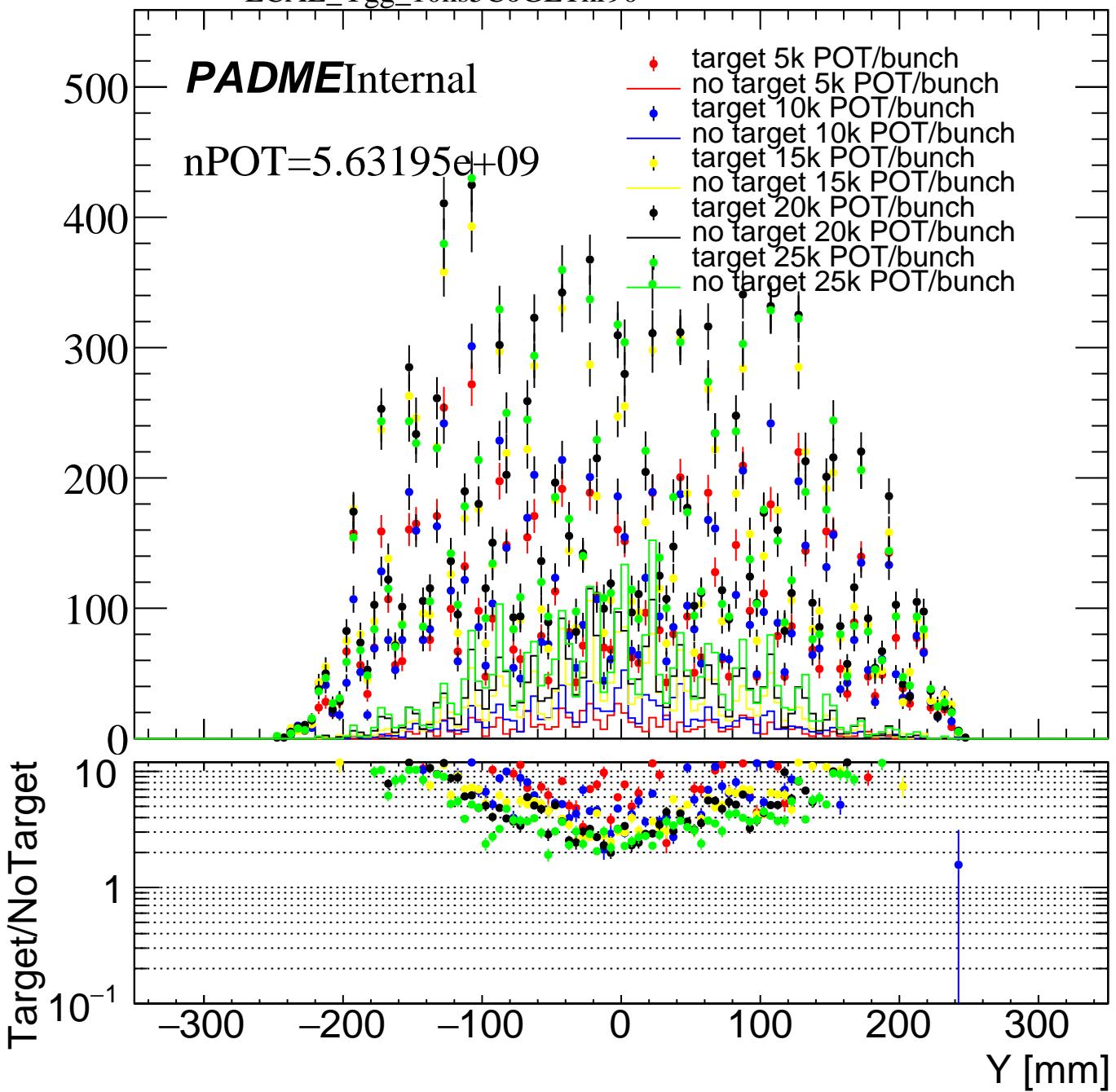


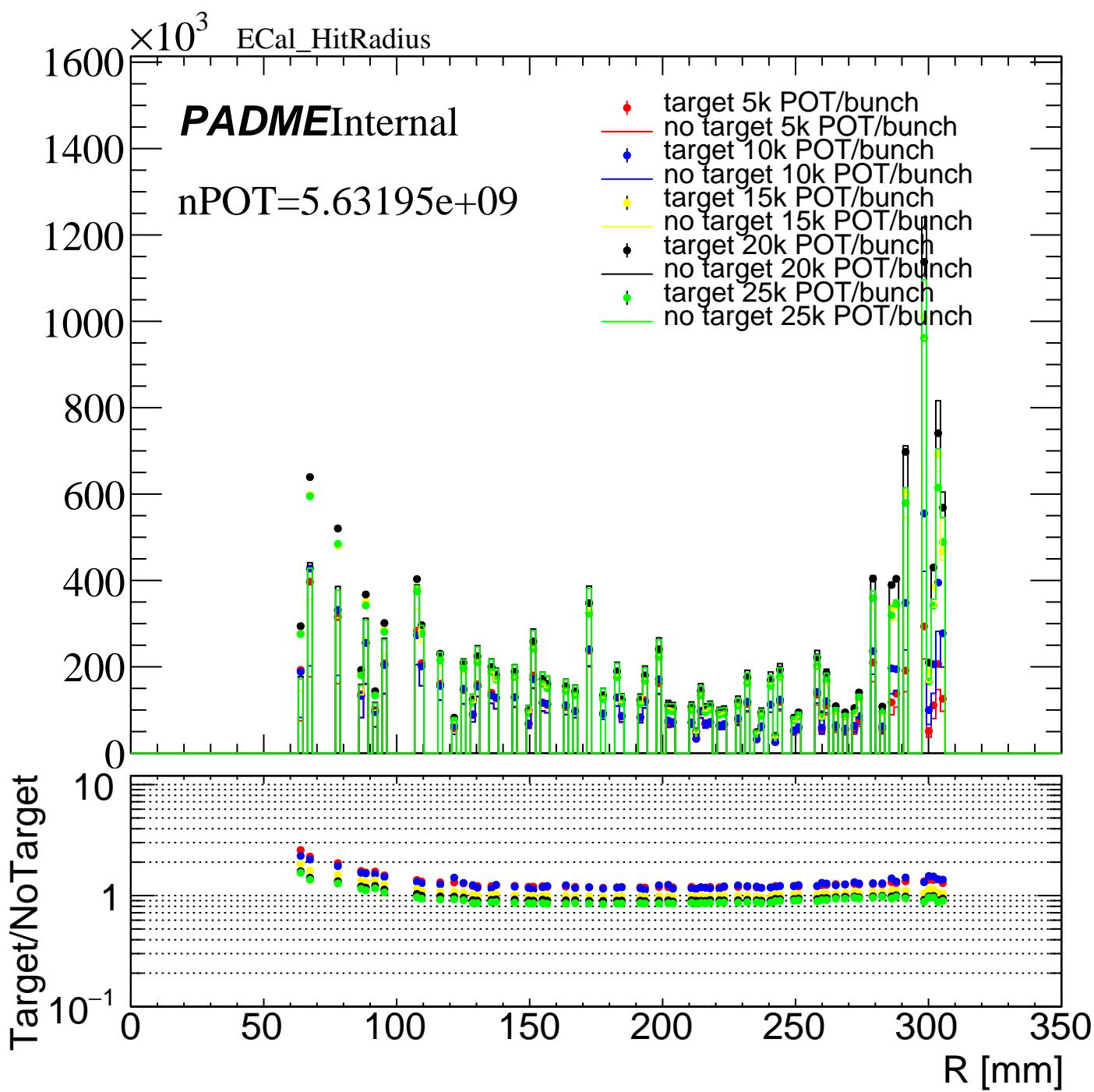


ECAL_Ygg_10ns5CoGUnderPeakEThr90_FRY



ECAL_Ygg_10ns5CoGEThr90



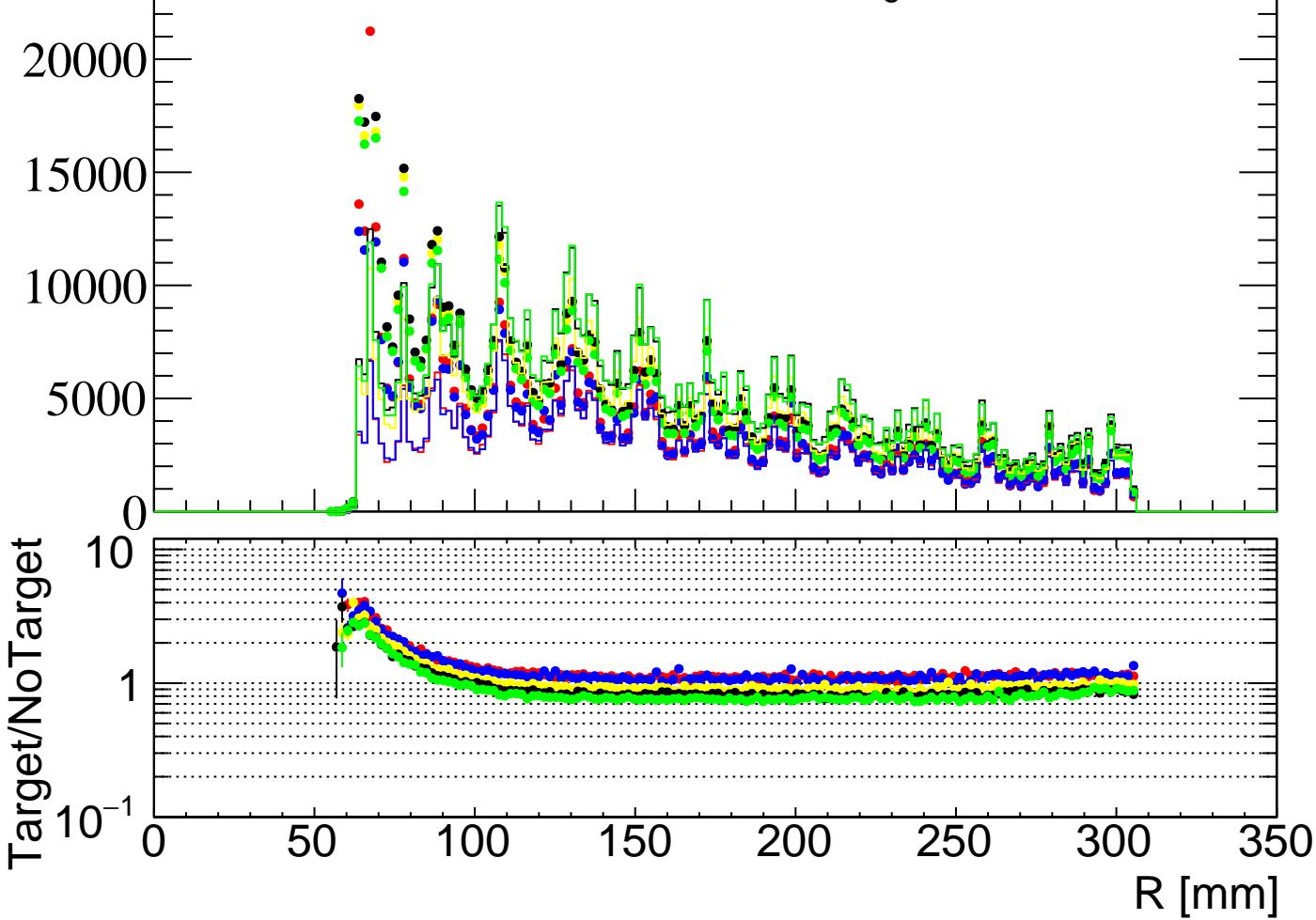


ECAL_RggAllClusters

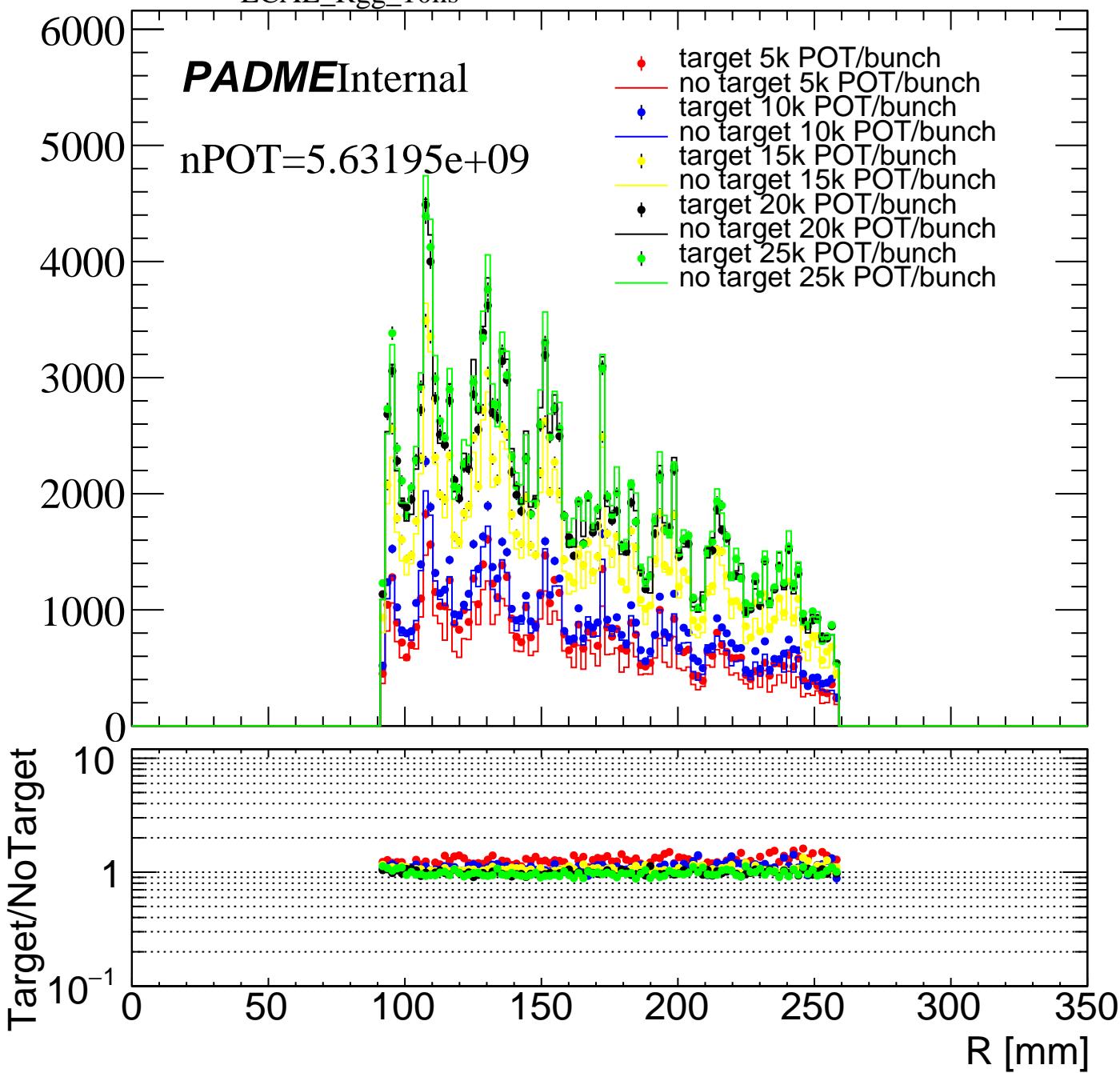
PADME Internal

nPOT=5.63195e+09

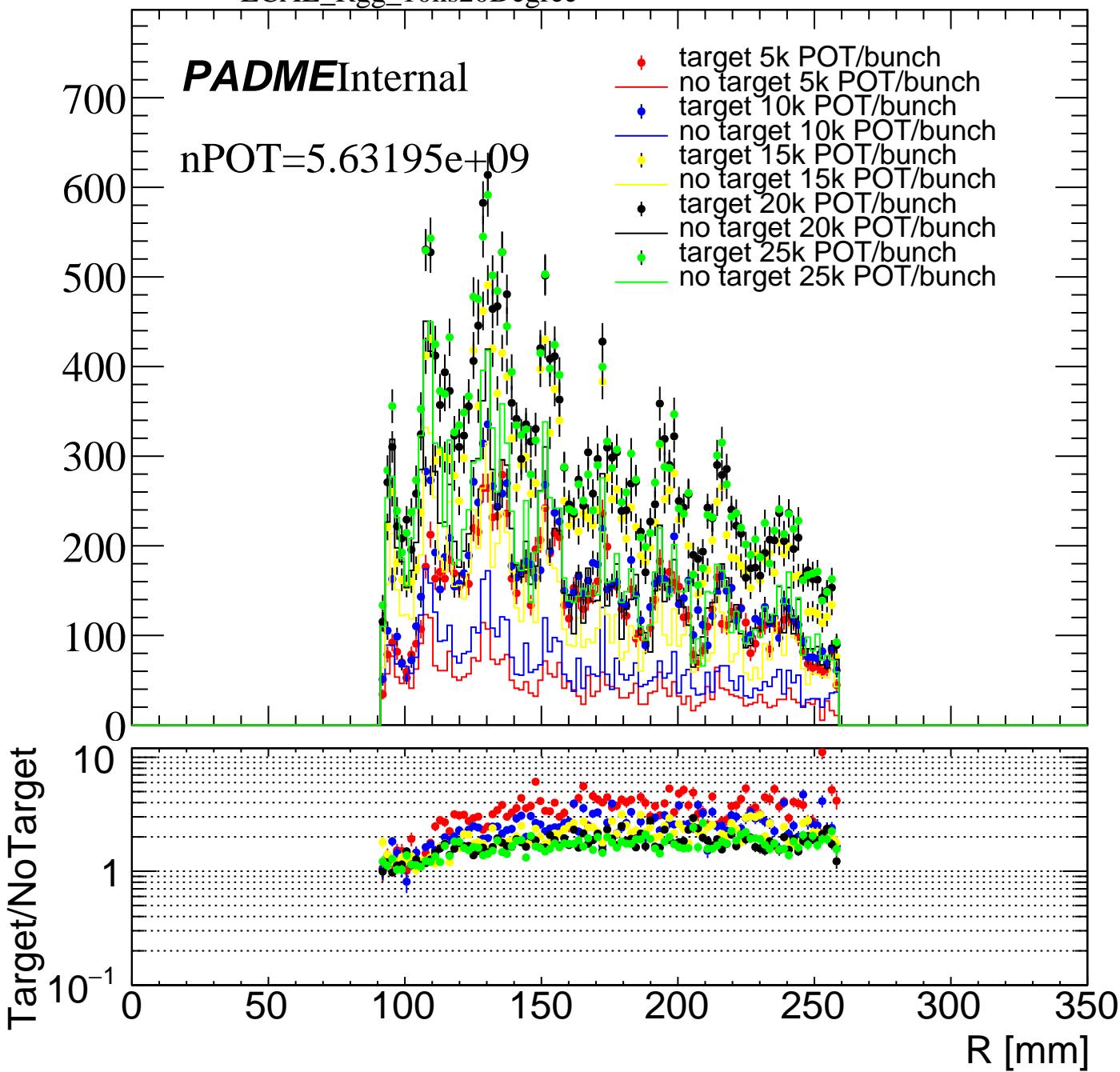
- target 5k POT/bunch
- no target 5k POT/bunch
- target 10k POT/bunch
- no target 10k POT/bunch
- target 15k POT/bunch
- no target 15k POT/bunch
- target 20k POT/bunch
- no target 20k POT/bunch
- target 25k POT/bunch
- no target 25k POT/bunch



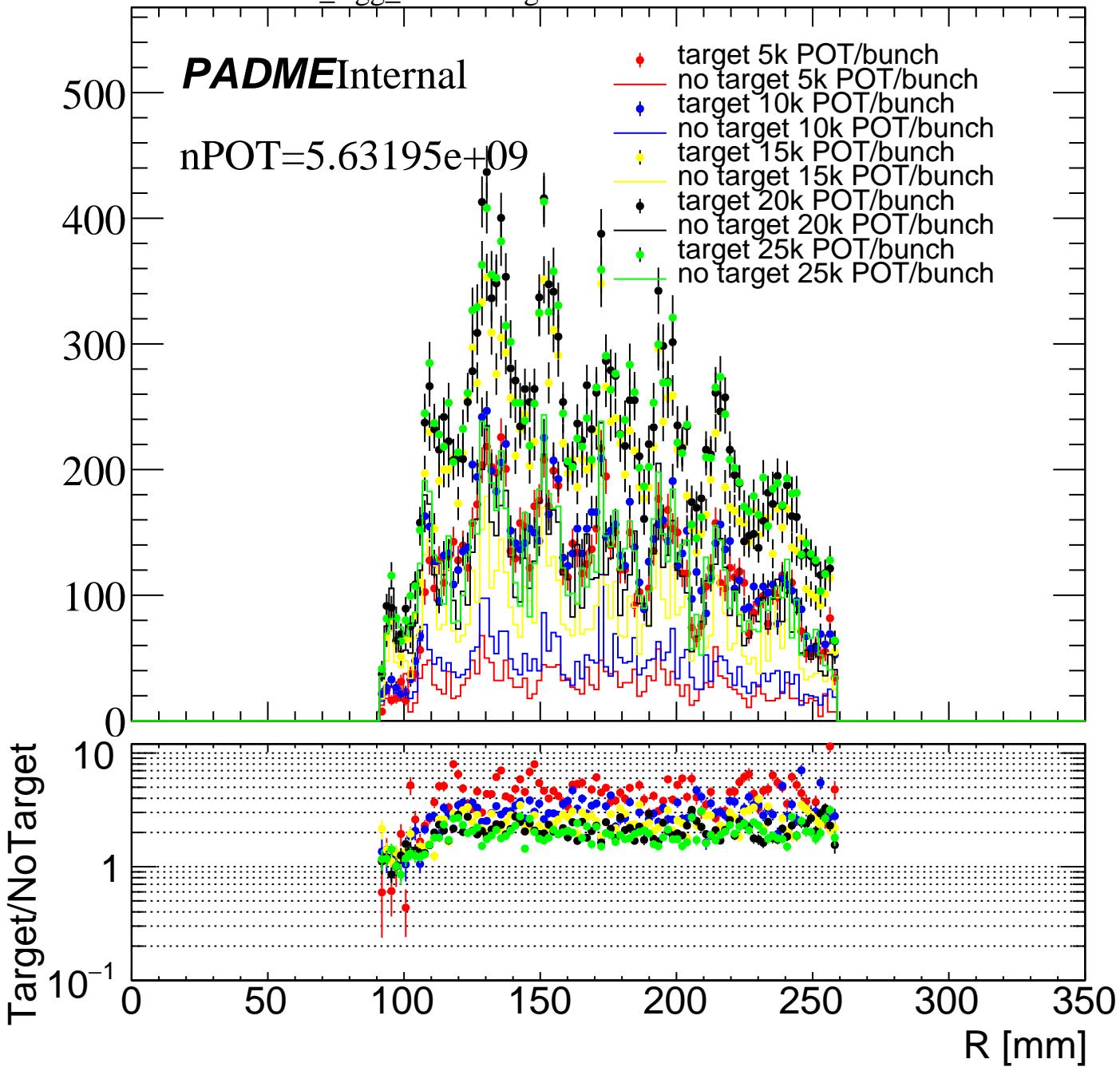
ECAL_Rgg_10ns



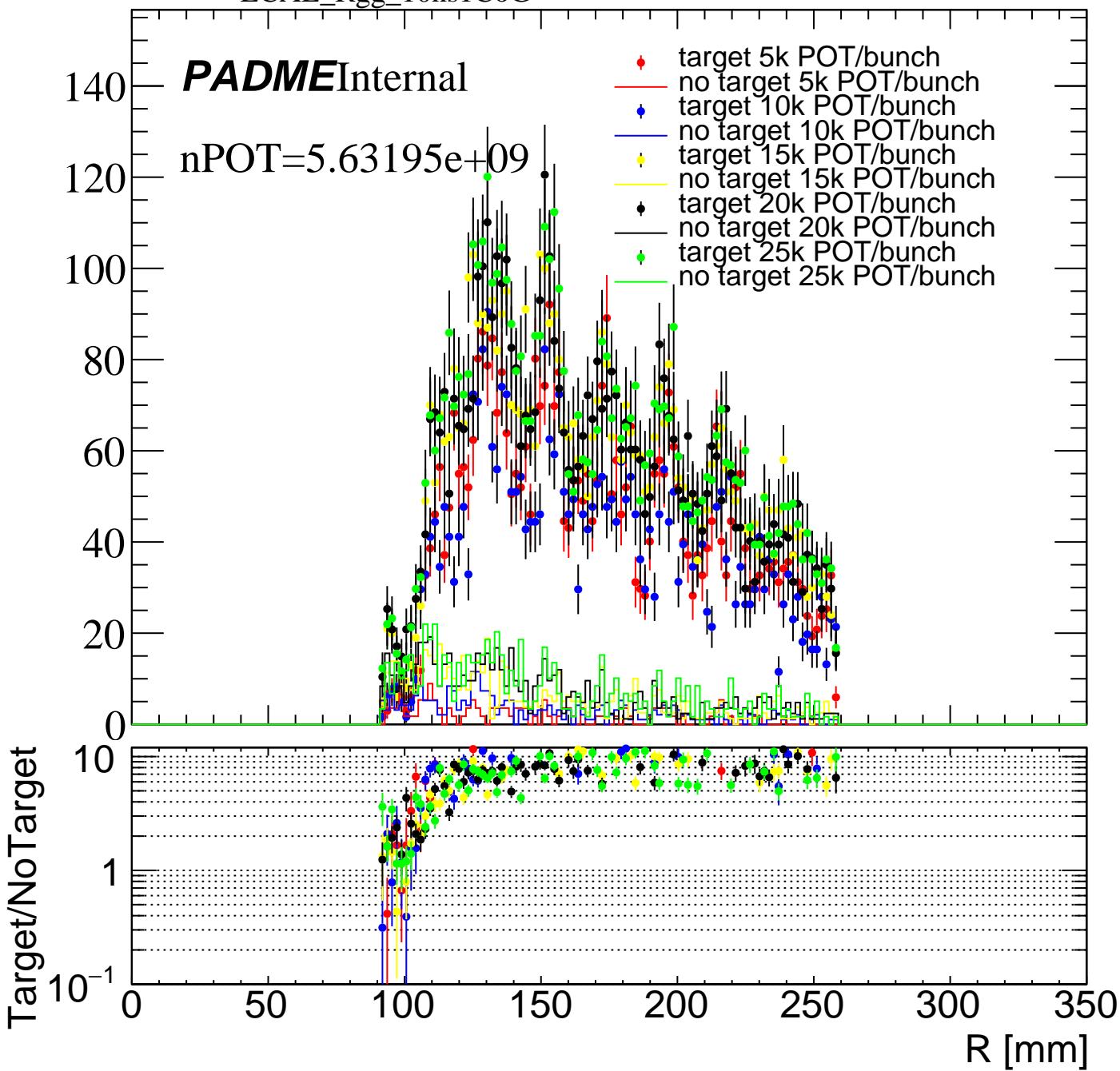
ECAL_Rgg_10ns20Degree



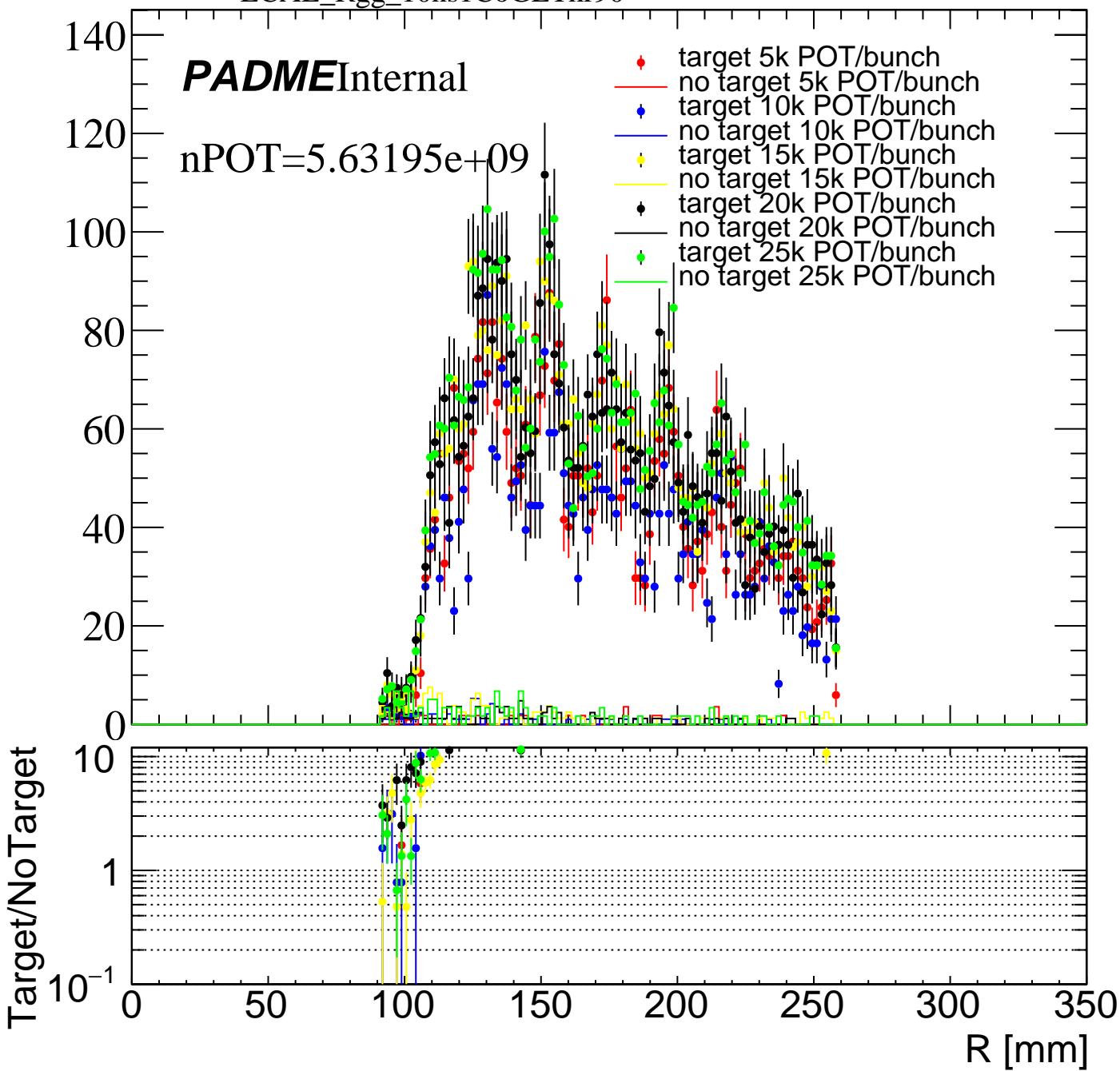
ECAL_Rgg_10ns20DegreeDeltaTheta



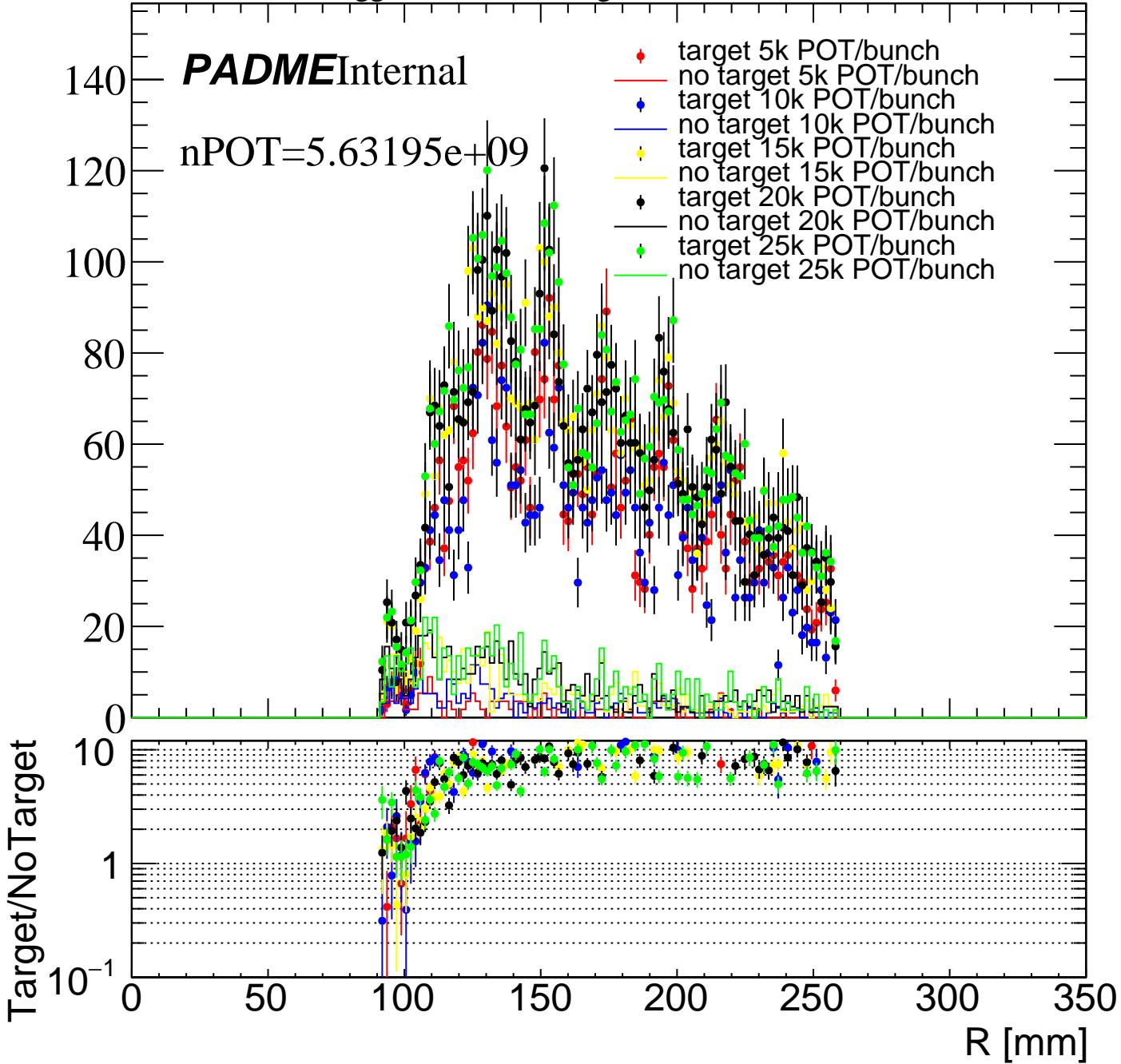
ECAL_Rgg_10ns1CoG



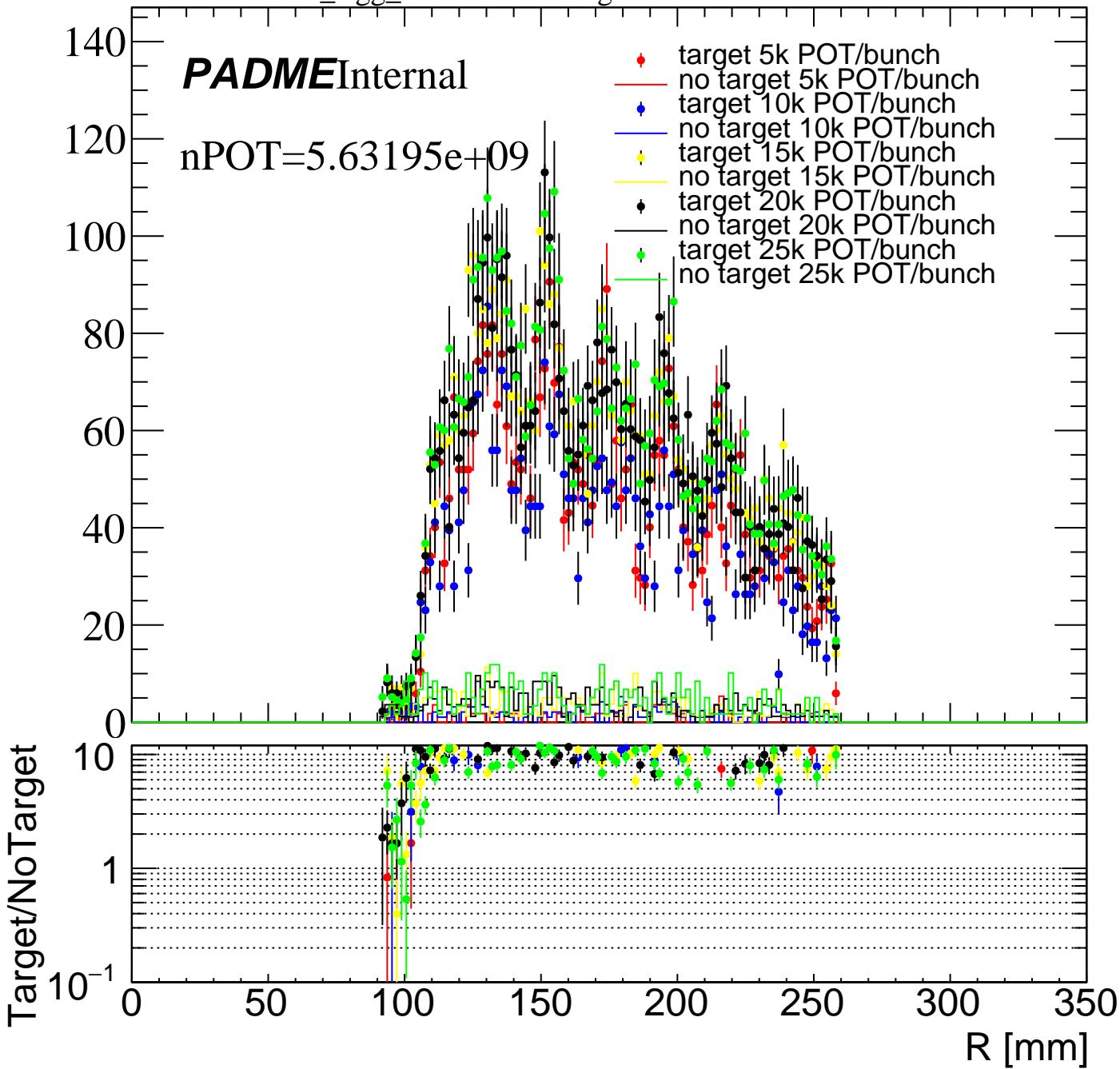
ECAL_Rgg_10ns1CoGEThr90



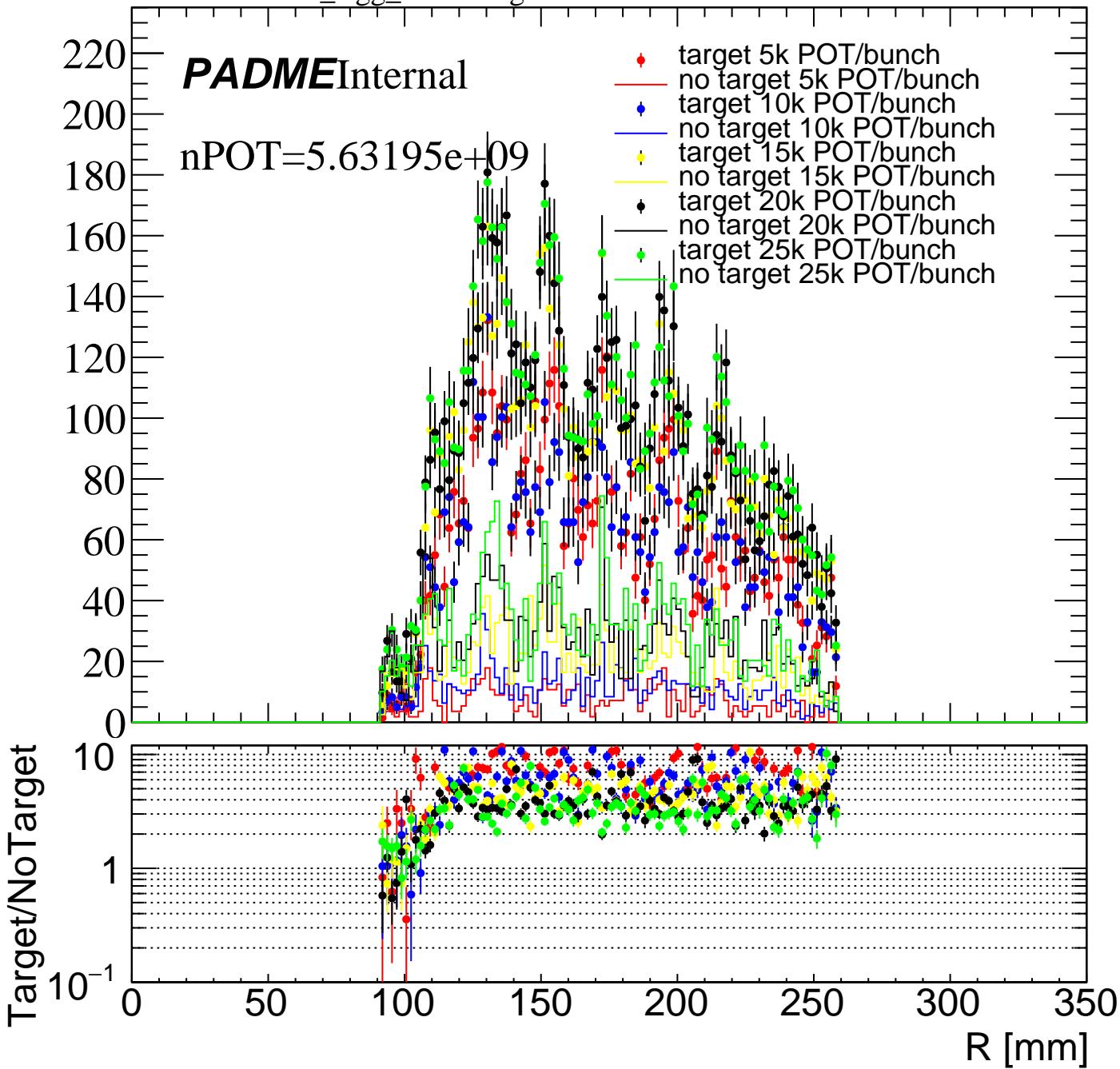
ECAL_Rgg_10ns1CoG20Degree



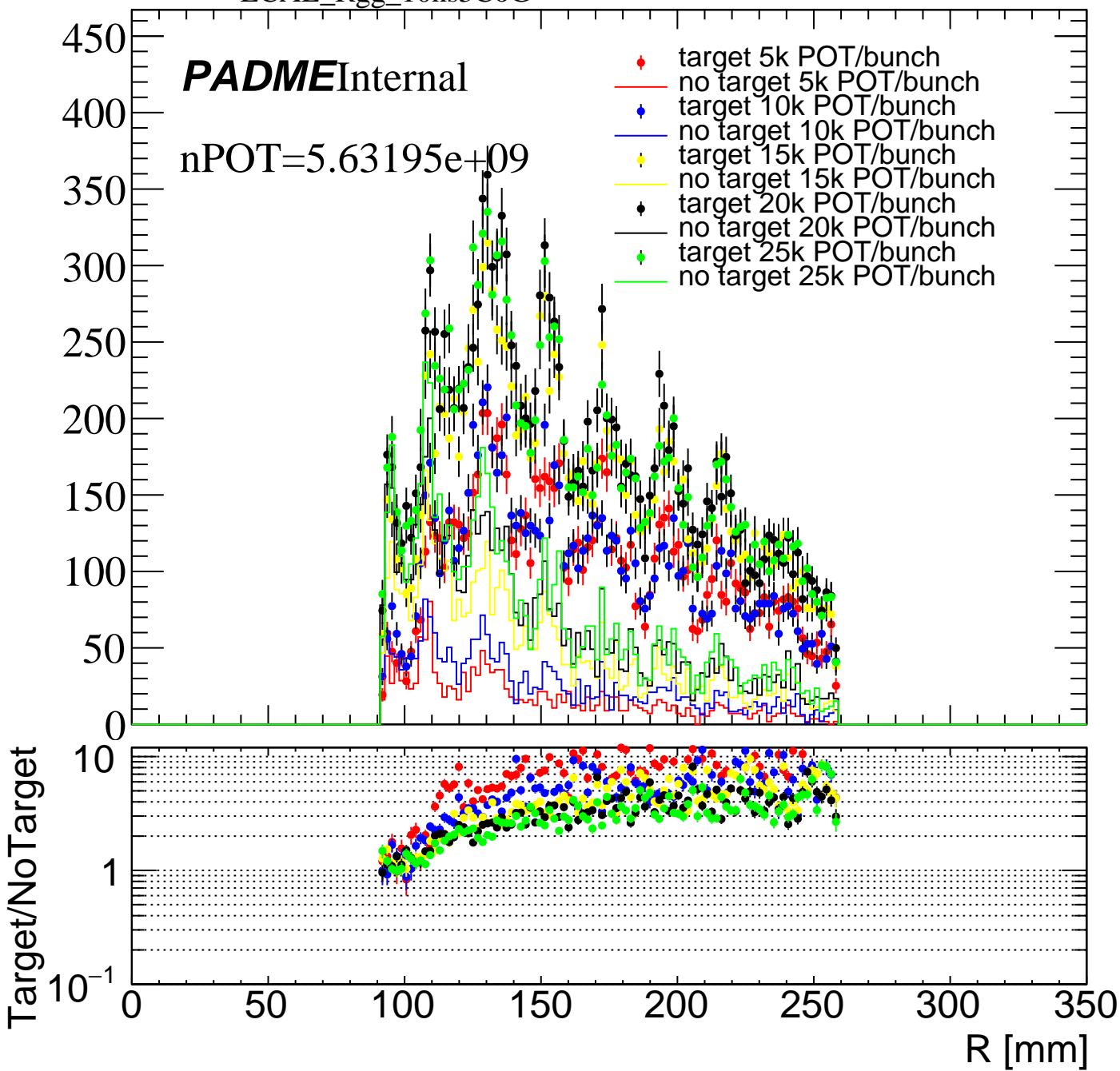
ECAL_Rgg_10ns1CoG20DegreeDeltaTheta



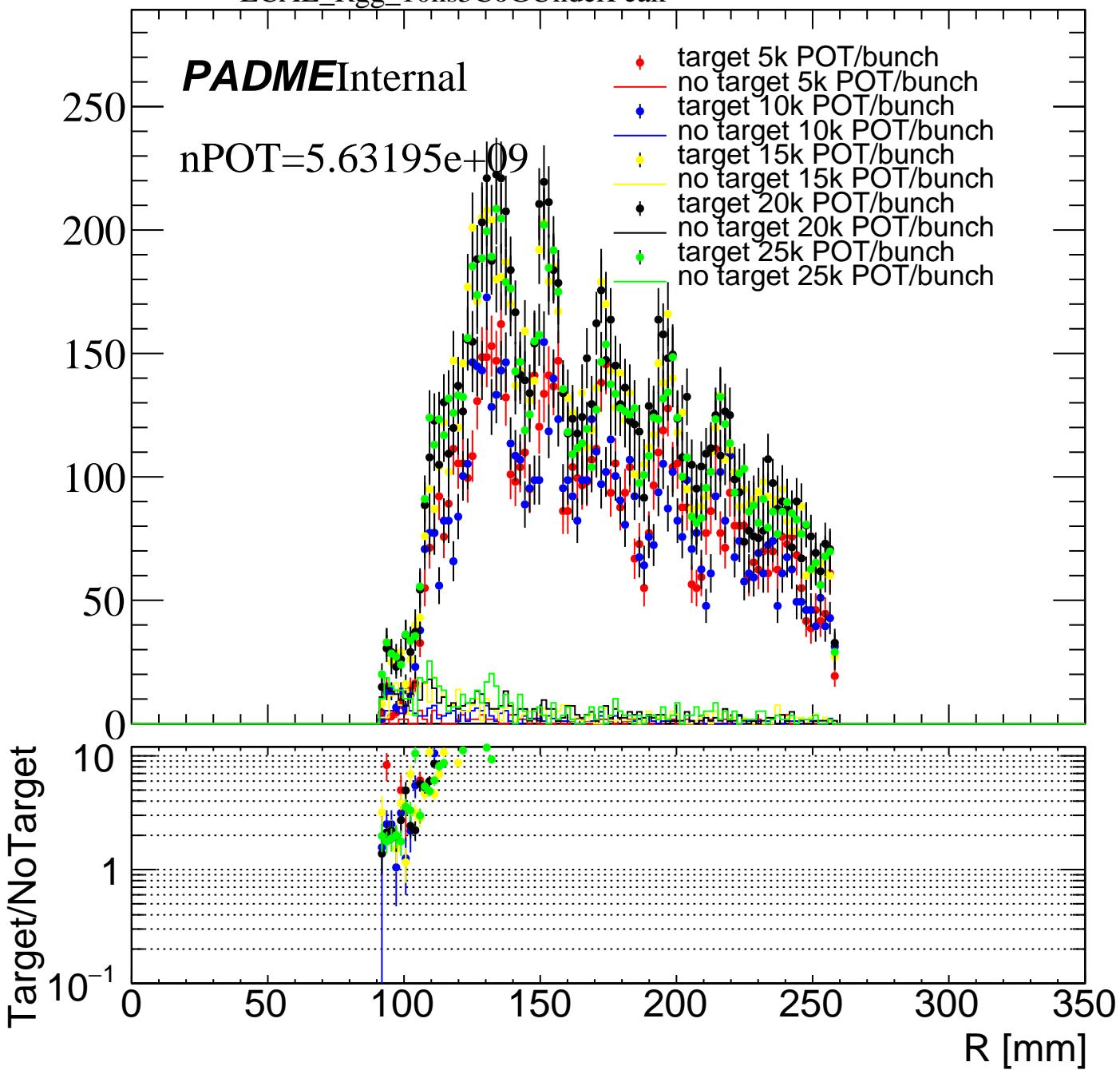
ECAL_Rgg_10ns5DegreeDeltaTheta



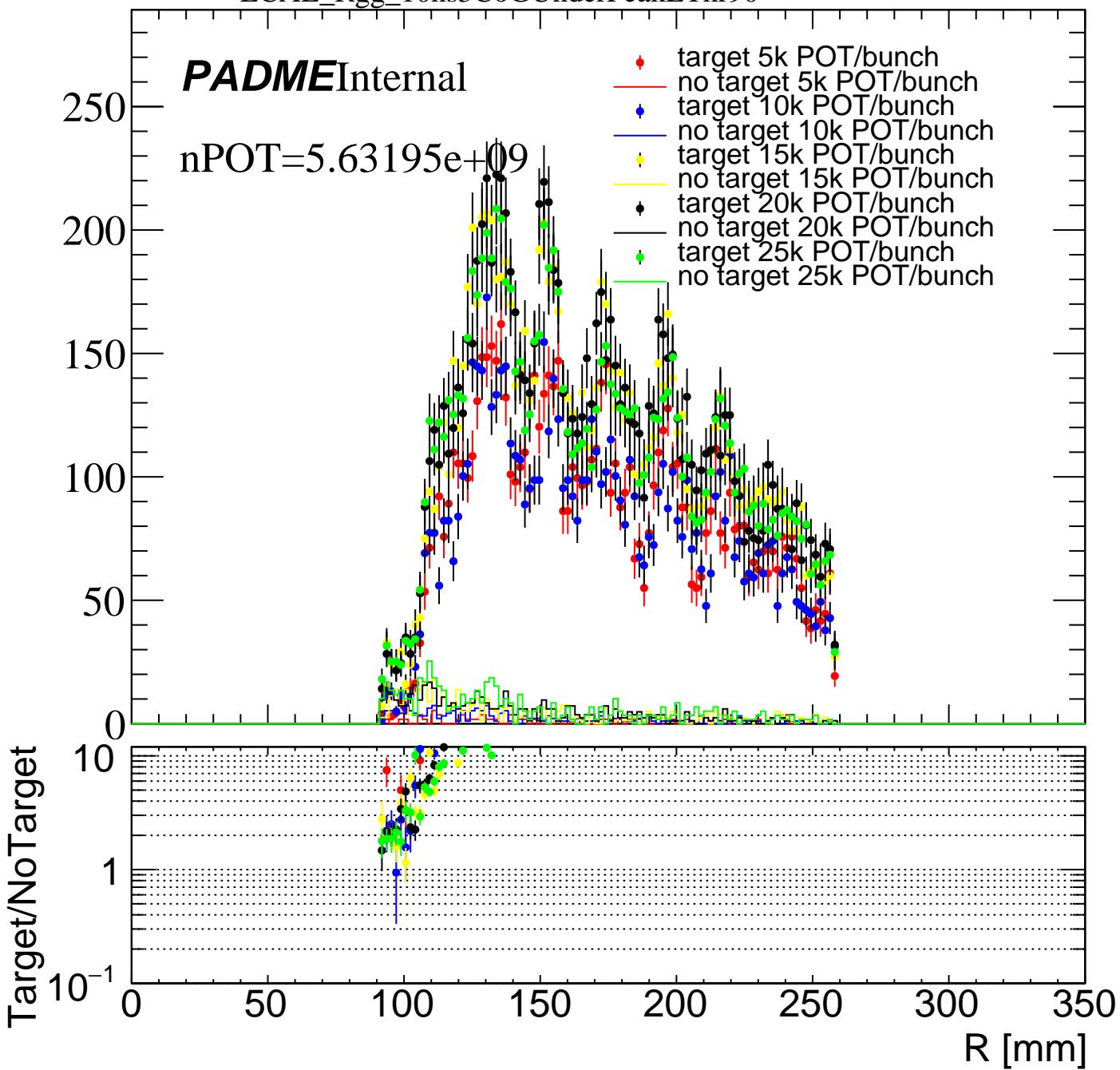
ECAL_Rgg_10ns3CoG



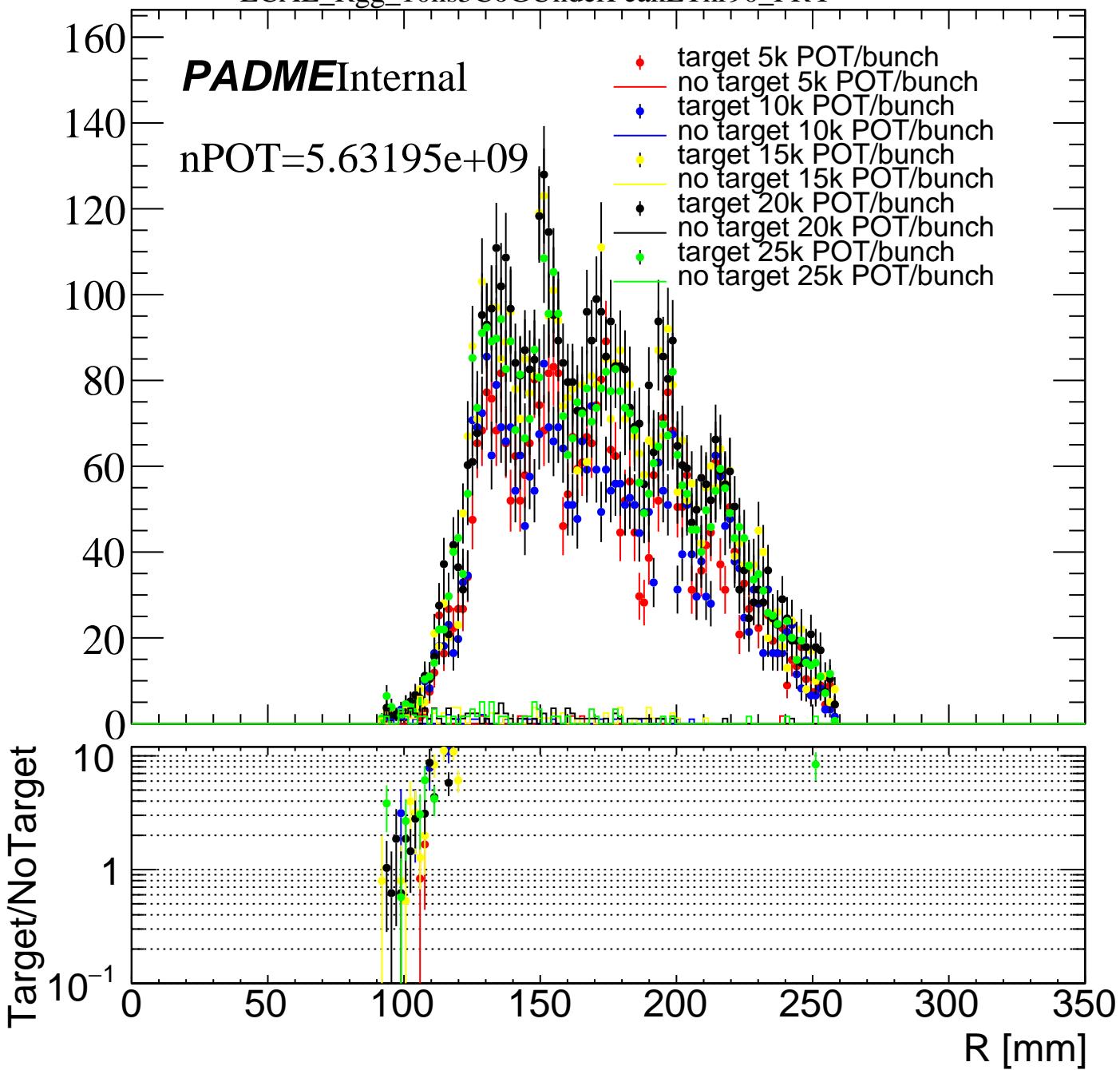
ECAL_Rgg_10ns3CoGUnderPeak



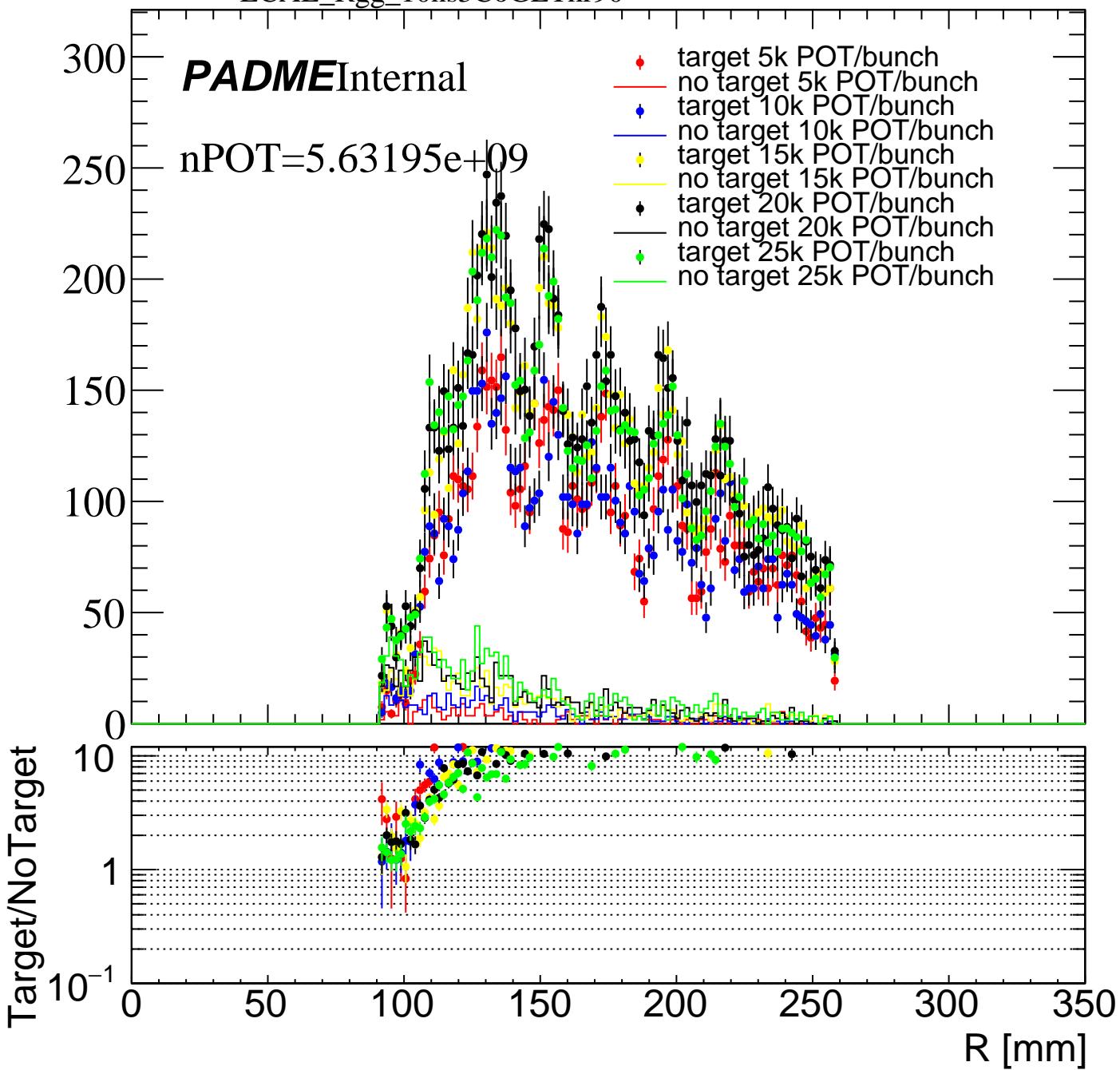
ECAL_Rgg_10ns3CoGUnderPeakEThr90



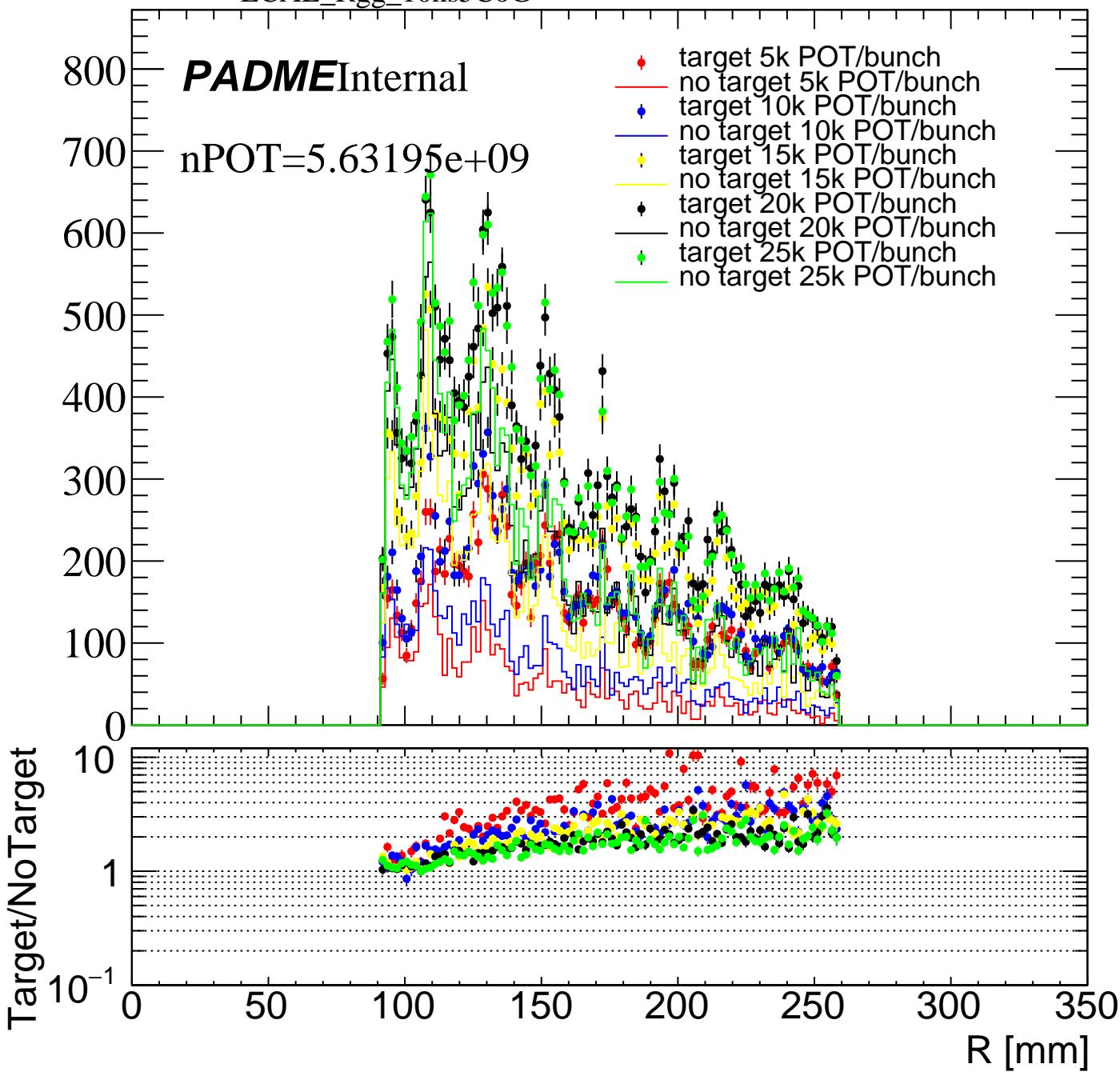
ECAL_Rgg_10ns3CoGUnderPeakEThr90_FRY



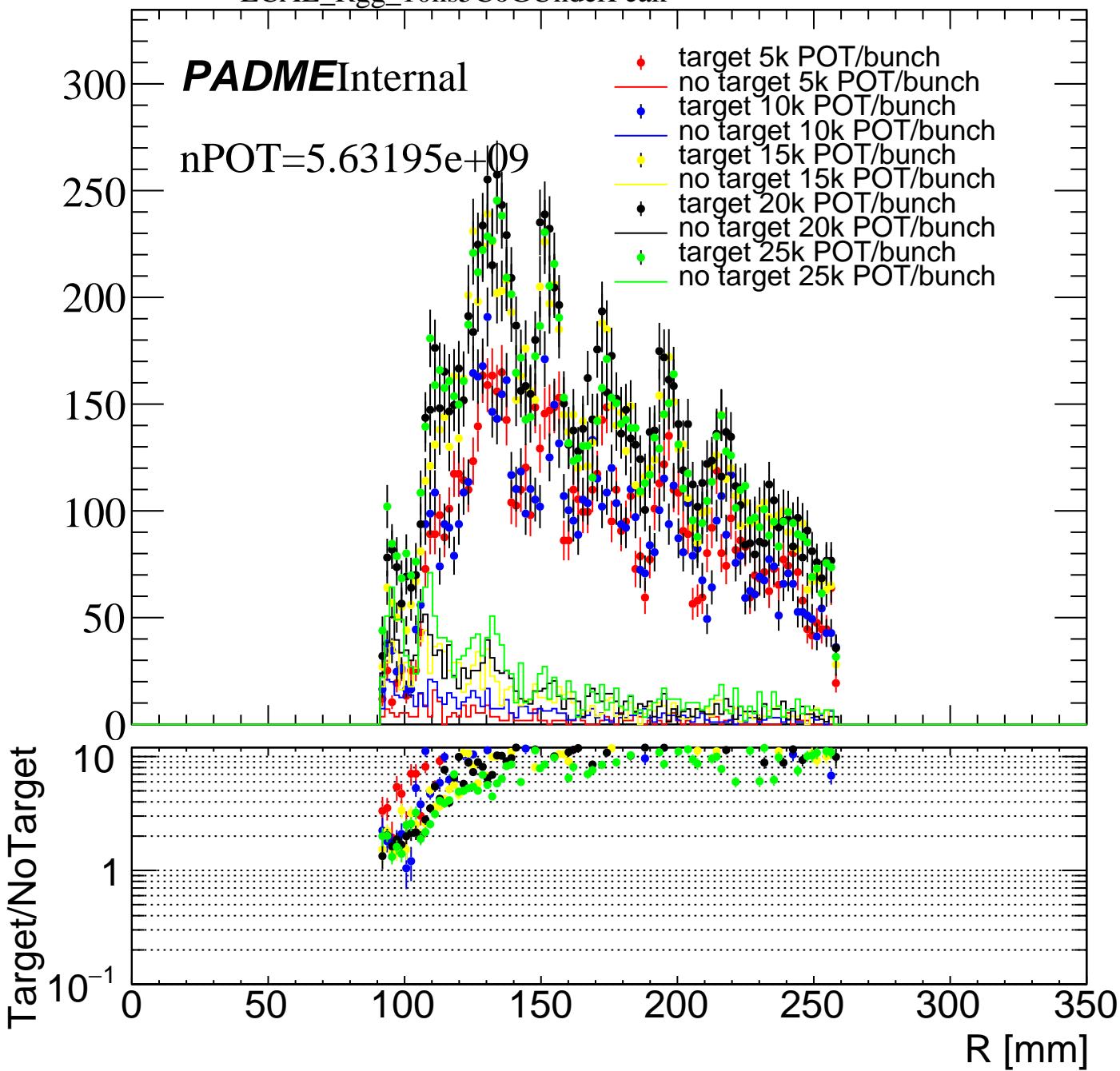
ECAL_Rgg_10ns3CoGEThr90



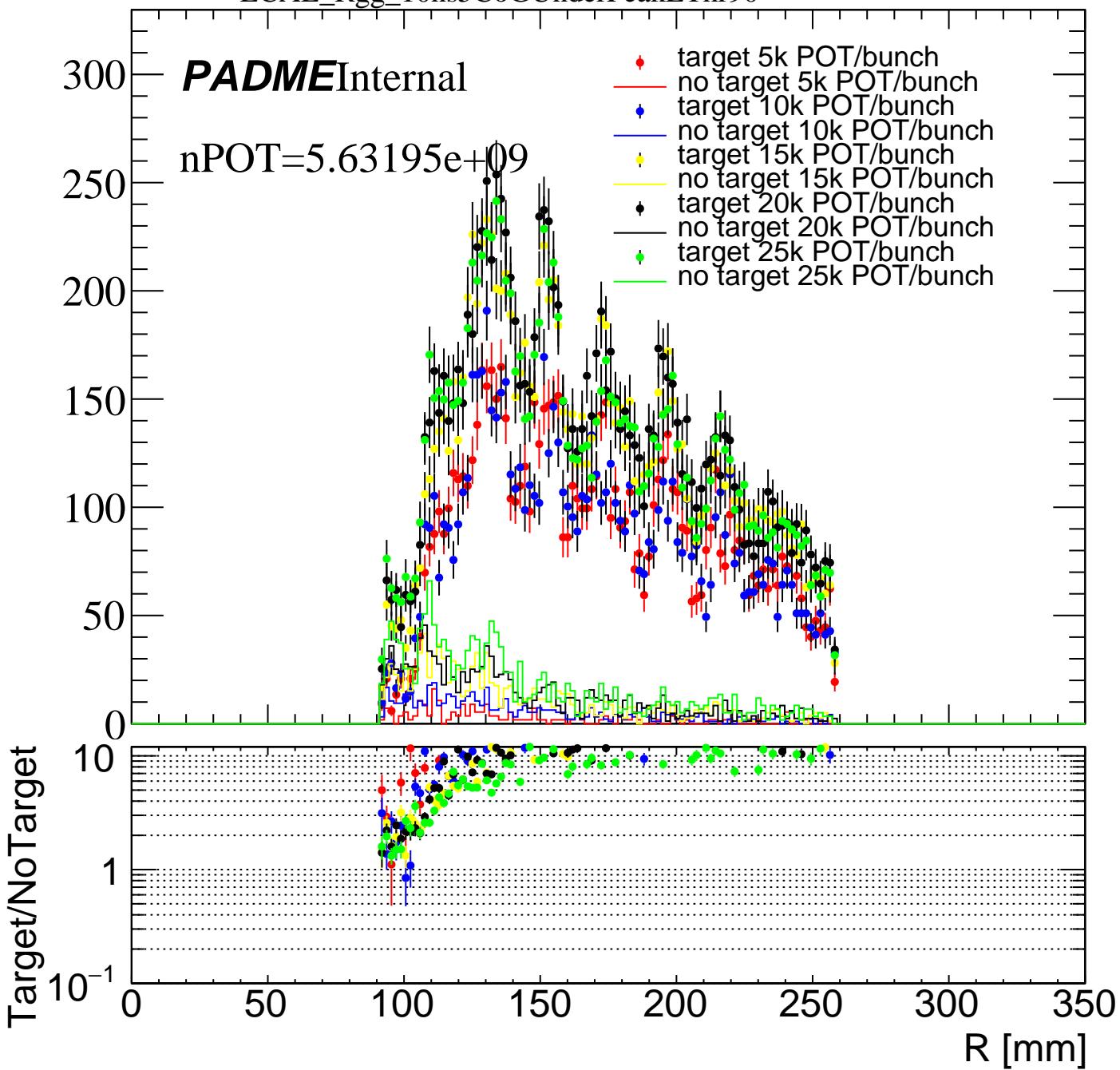
ECAL_Rgg_10ns5CoG



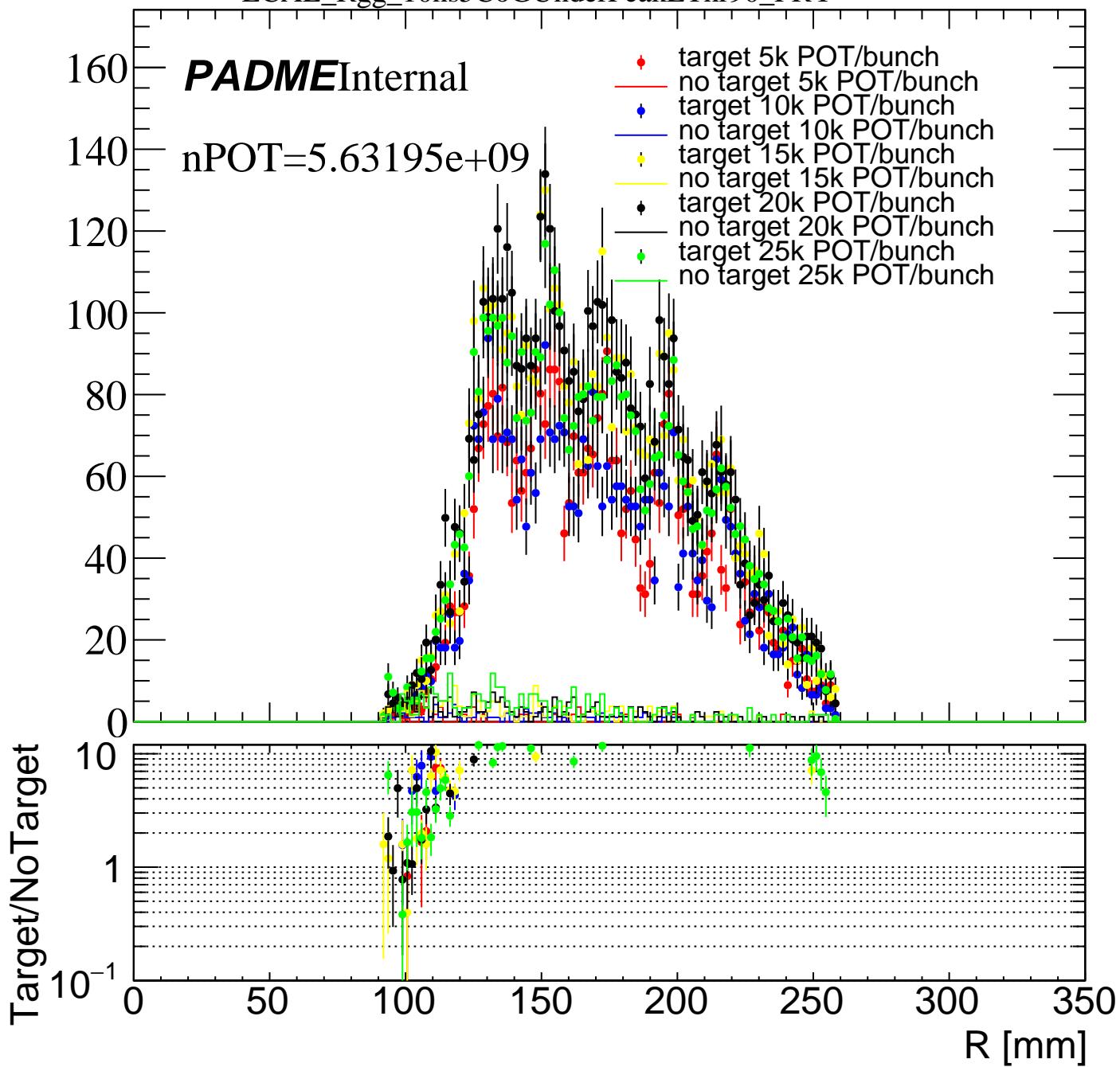
ECAL_Rgg_10ns5CoGUnderPeak



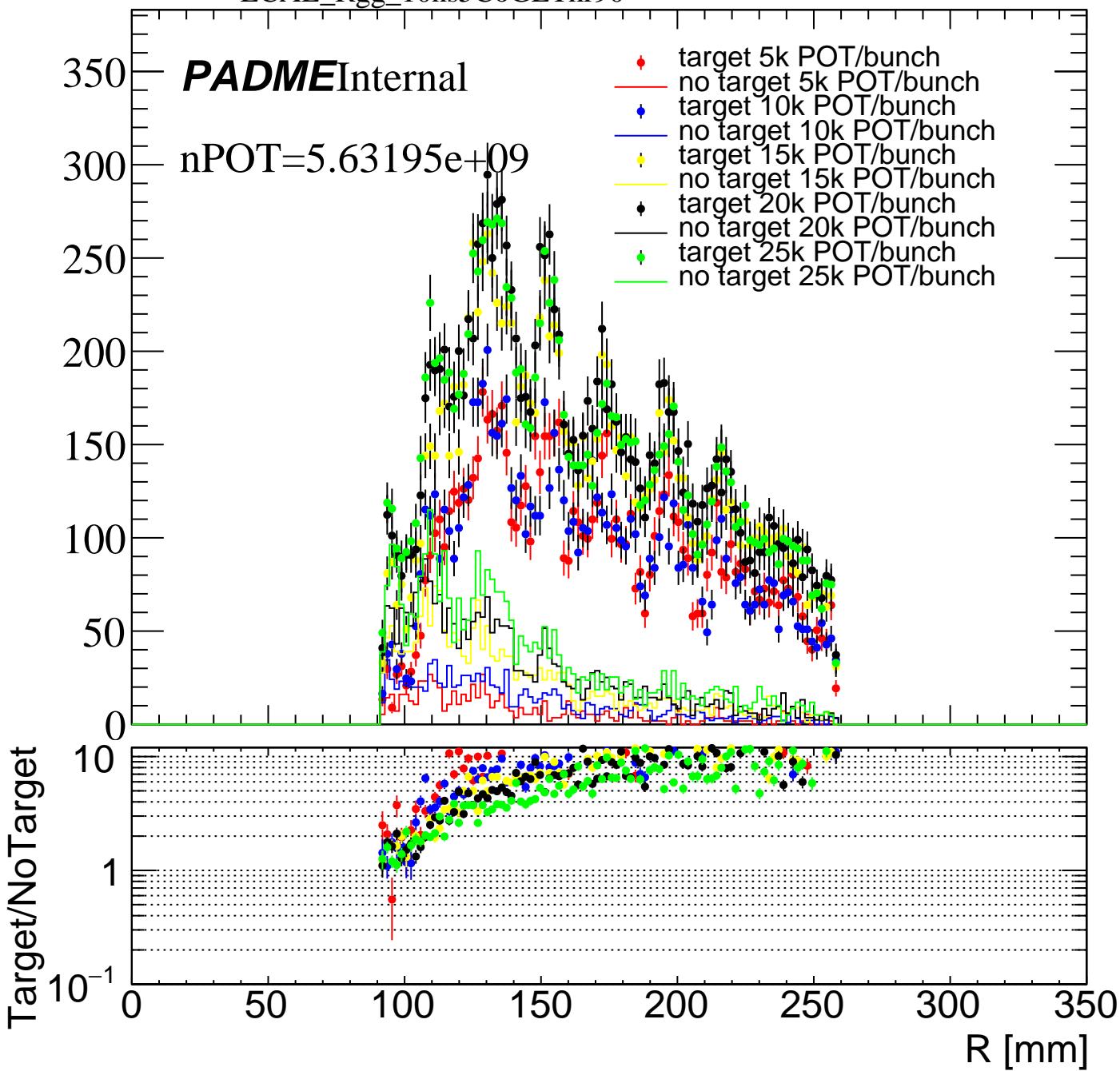
ECAL_Rgg_10ns5CoGUnderPeakEThr90



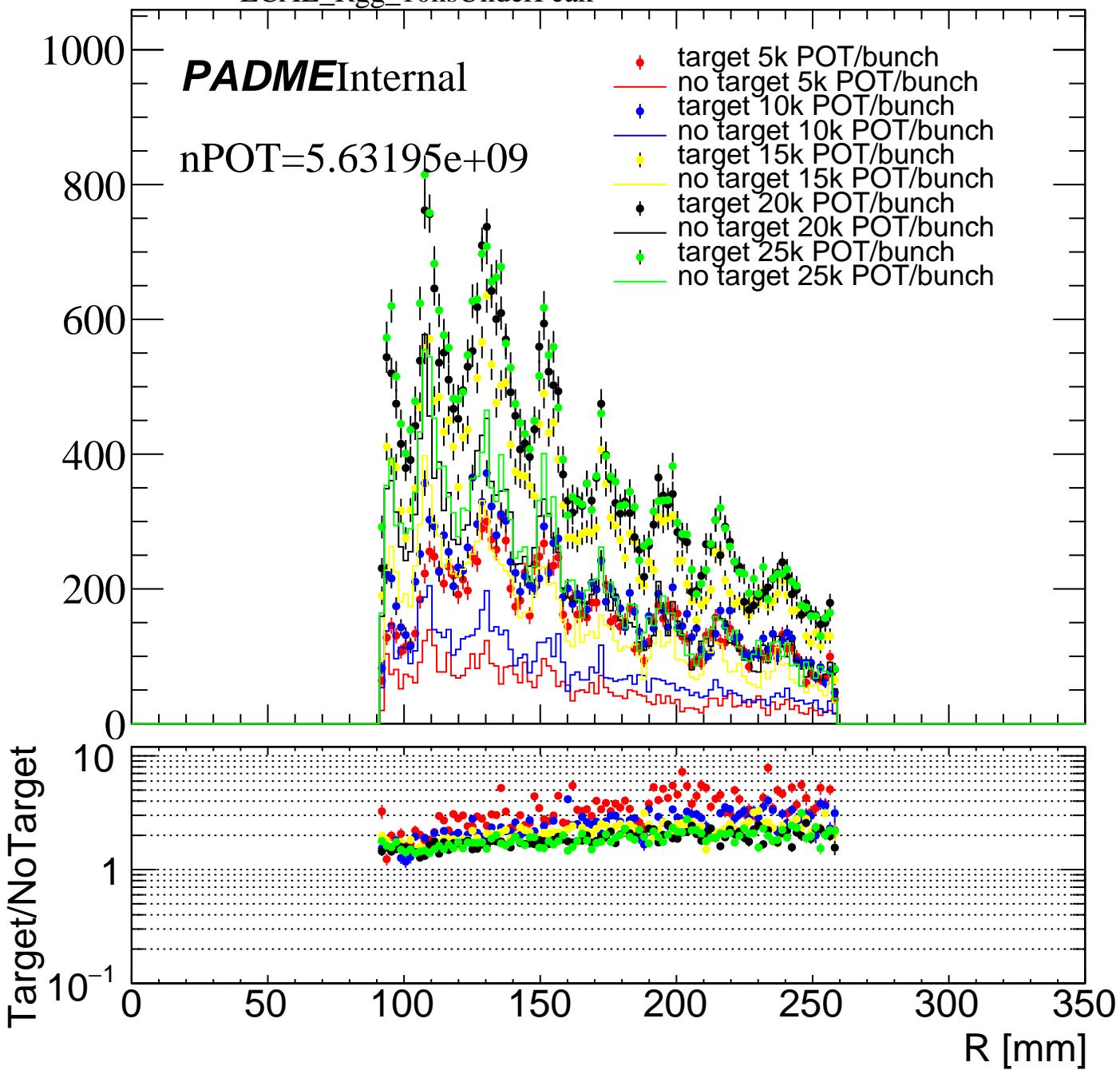
ECAL_Rgg_10ns5CoGUnderPeakEThr90_FRY



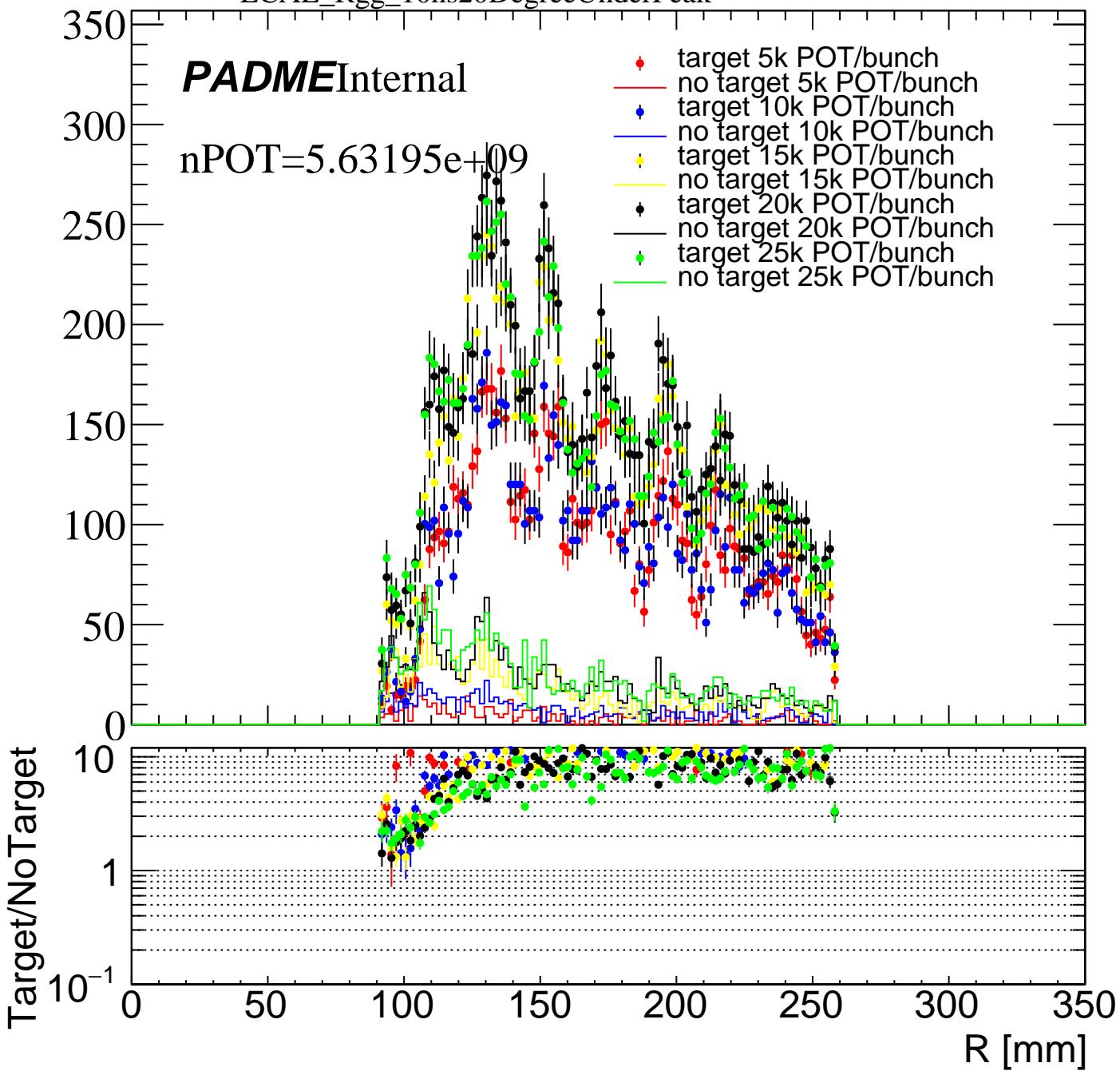
ECAL_Rgg_10ns5CoGEThr90



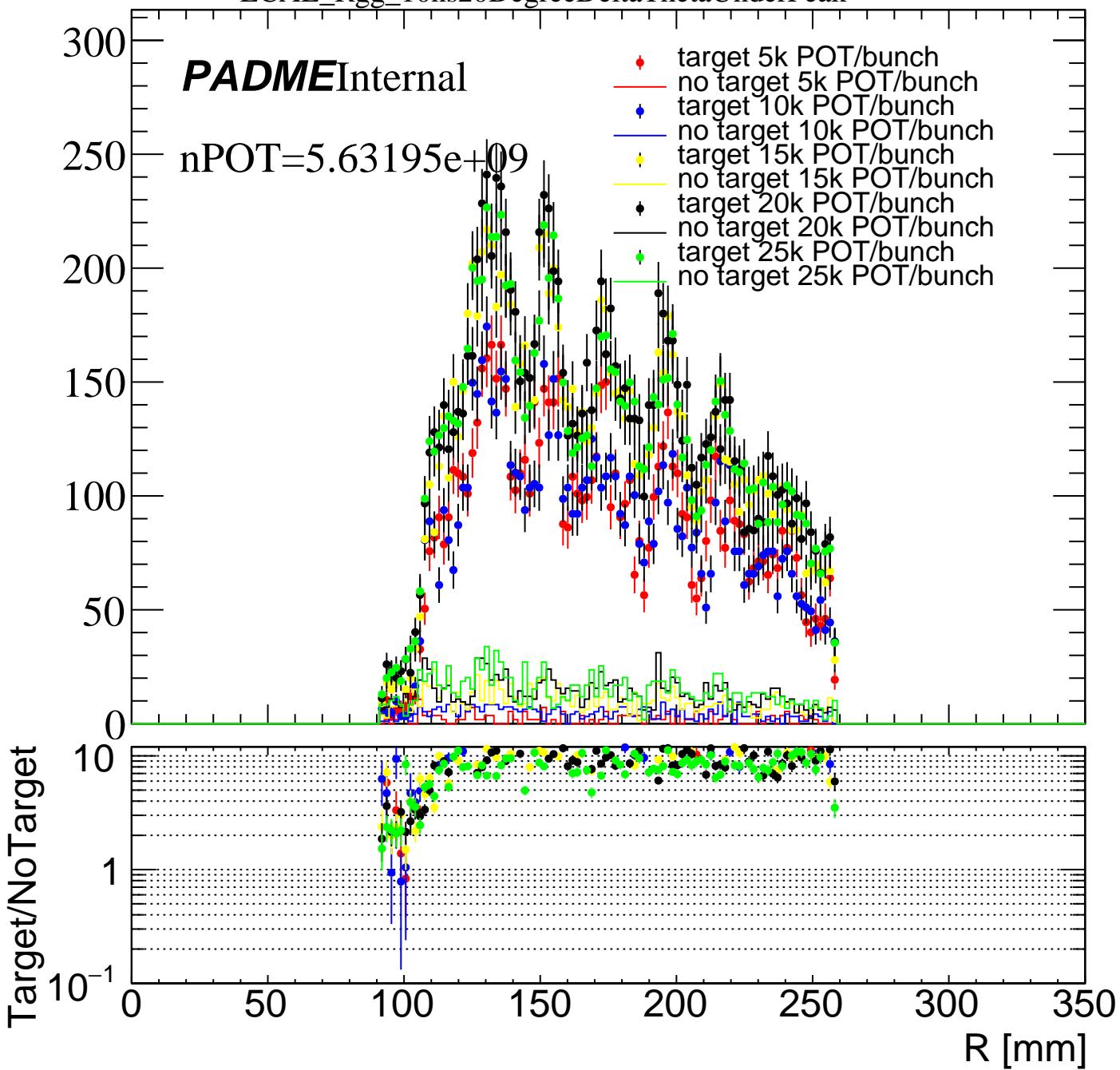
ECAL_Rgg_10nsUnderPeak



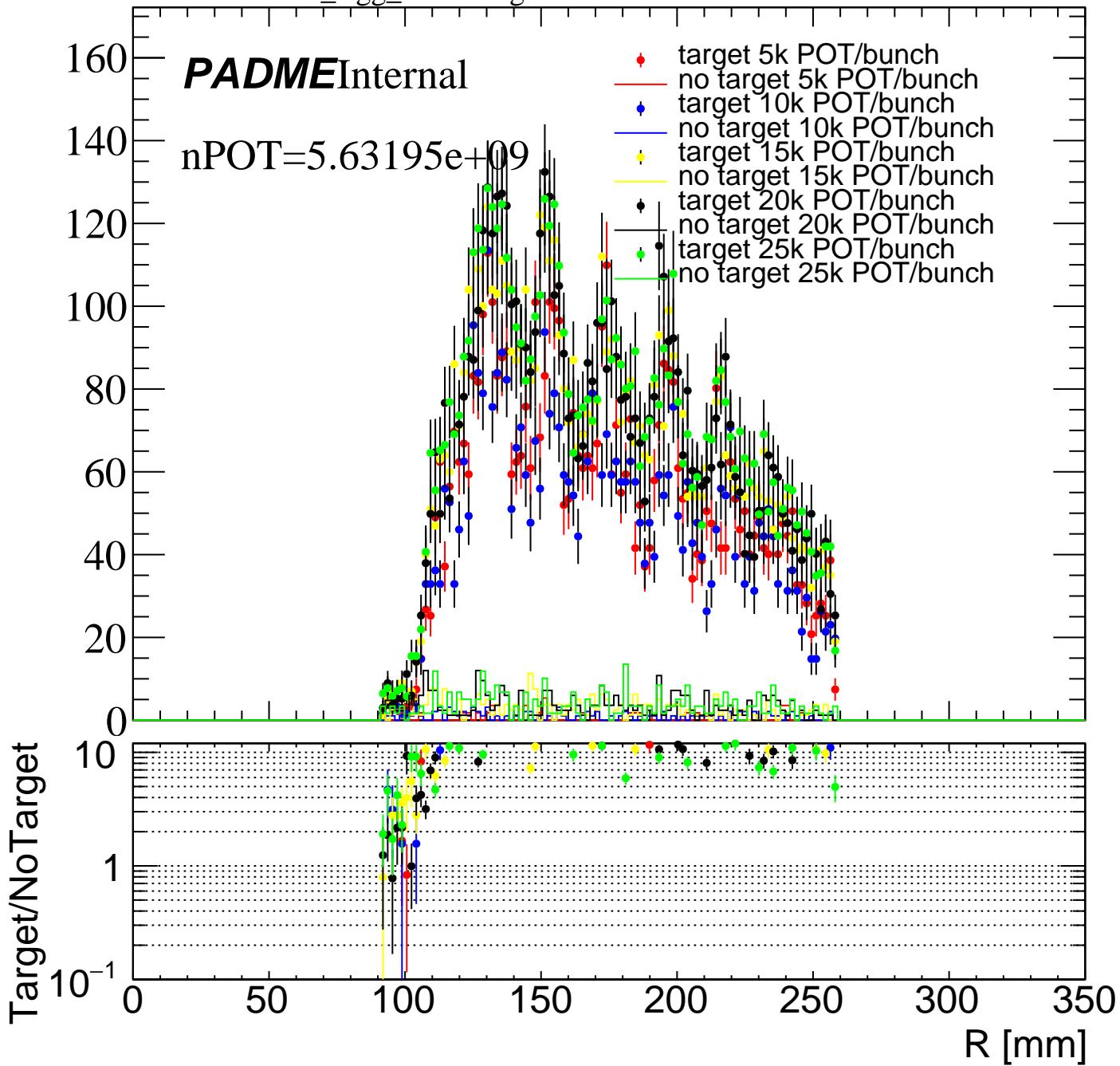
ECAL_Rgg_10ns20DegreeUnderPeak



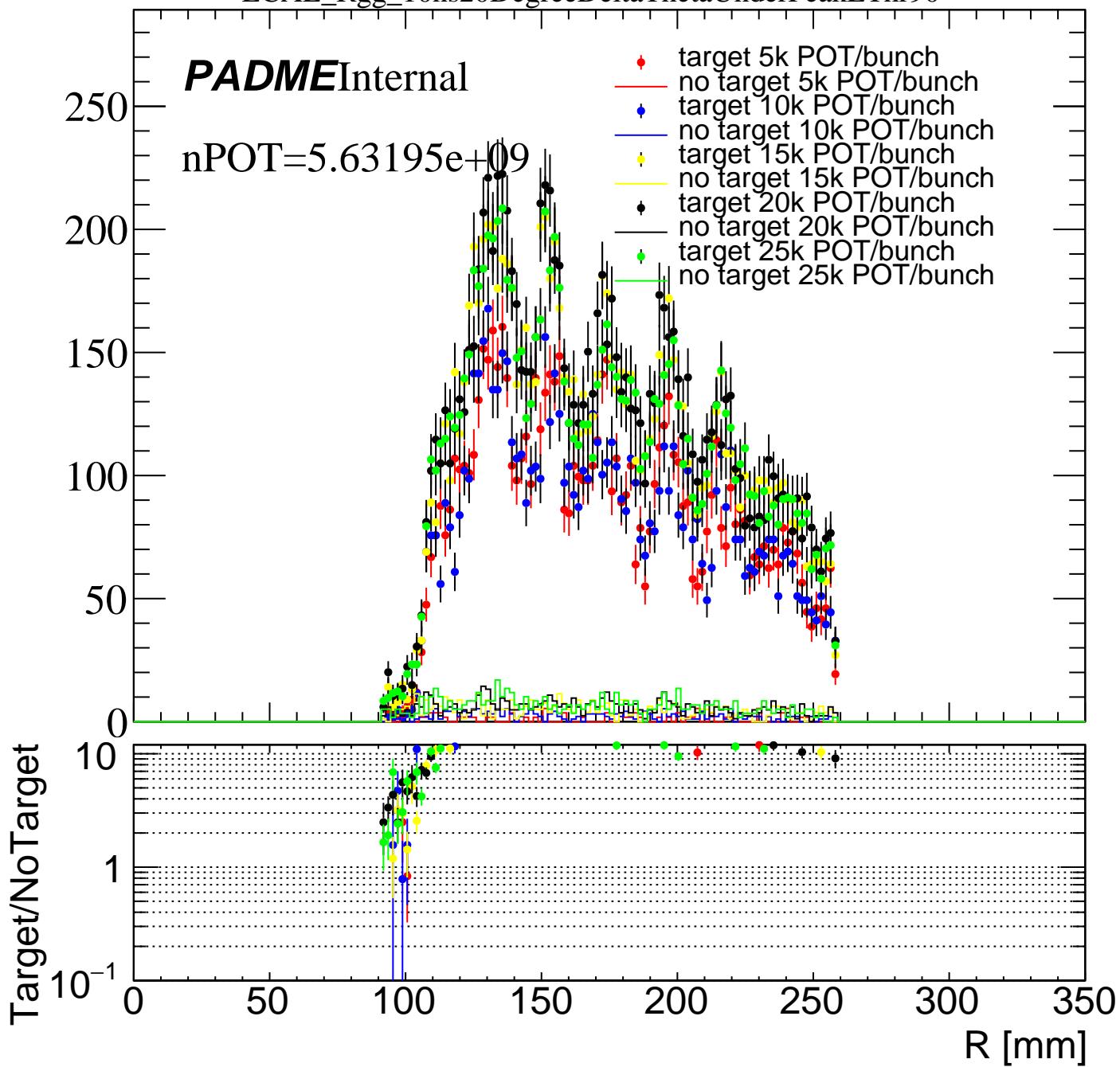
ECAL_Rgg_10ns20DegreeDeltaThetaUnderPeak



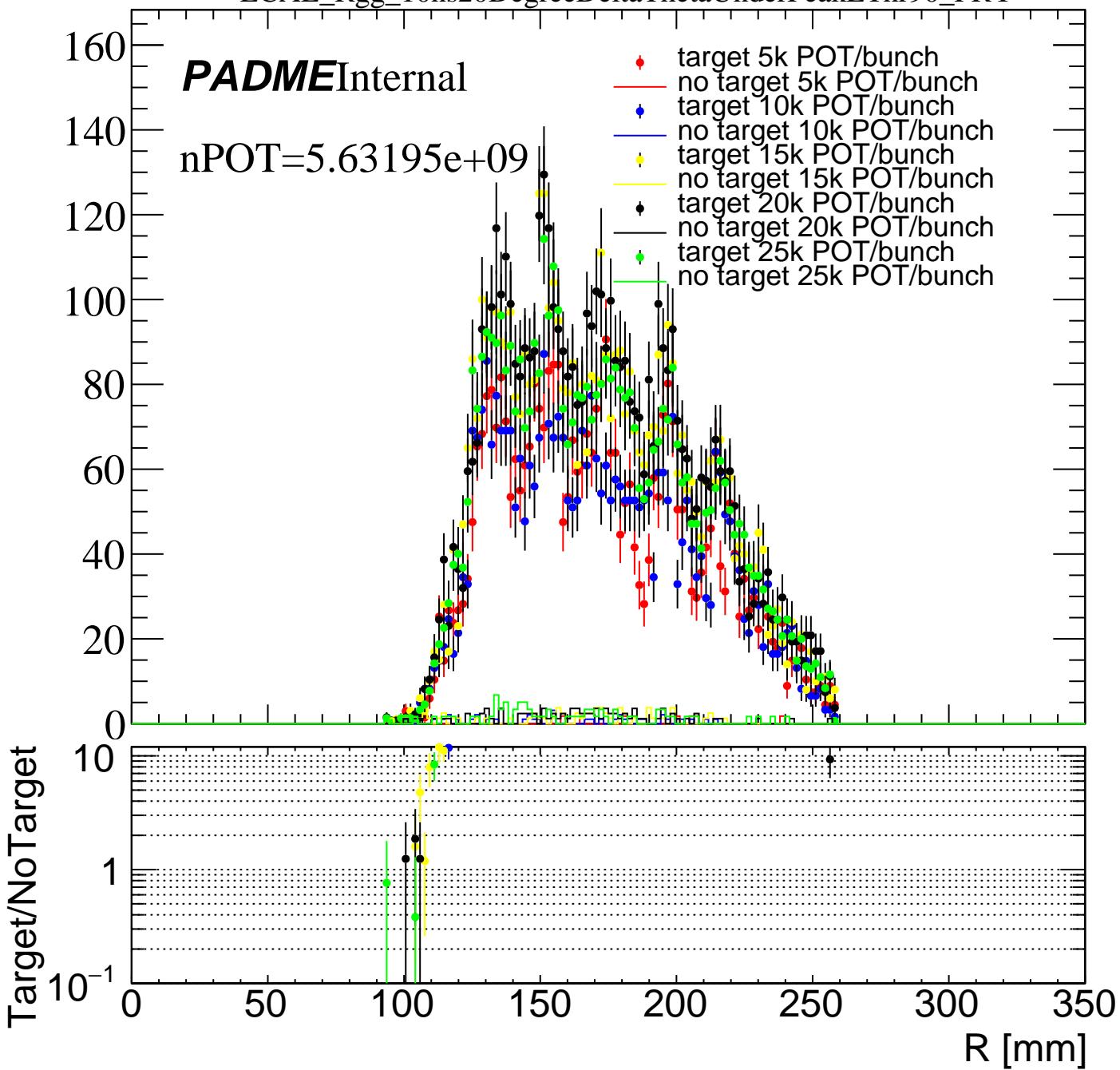
ECAL_Rgg_10ns5DegreeDeltaThetaUnderPeak



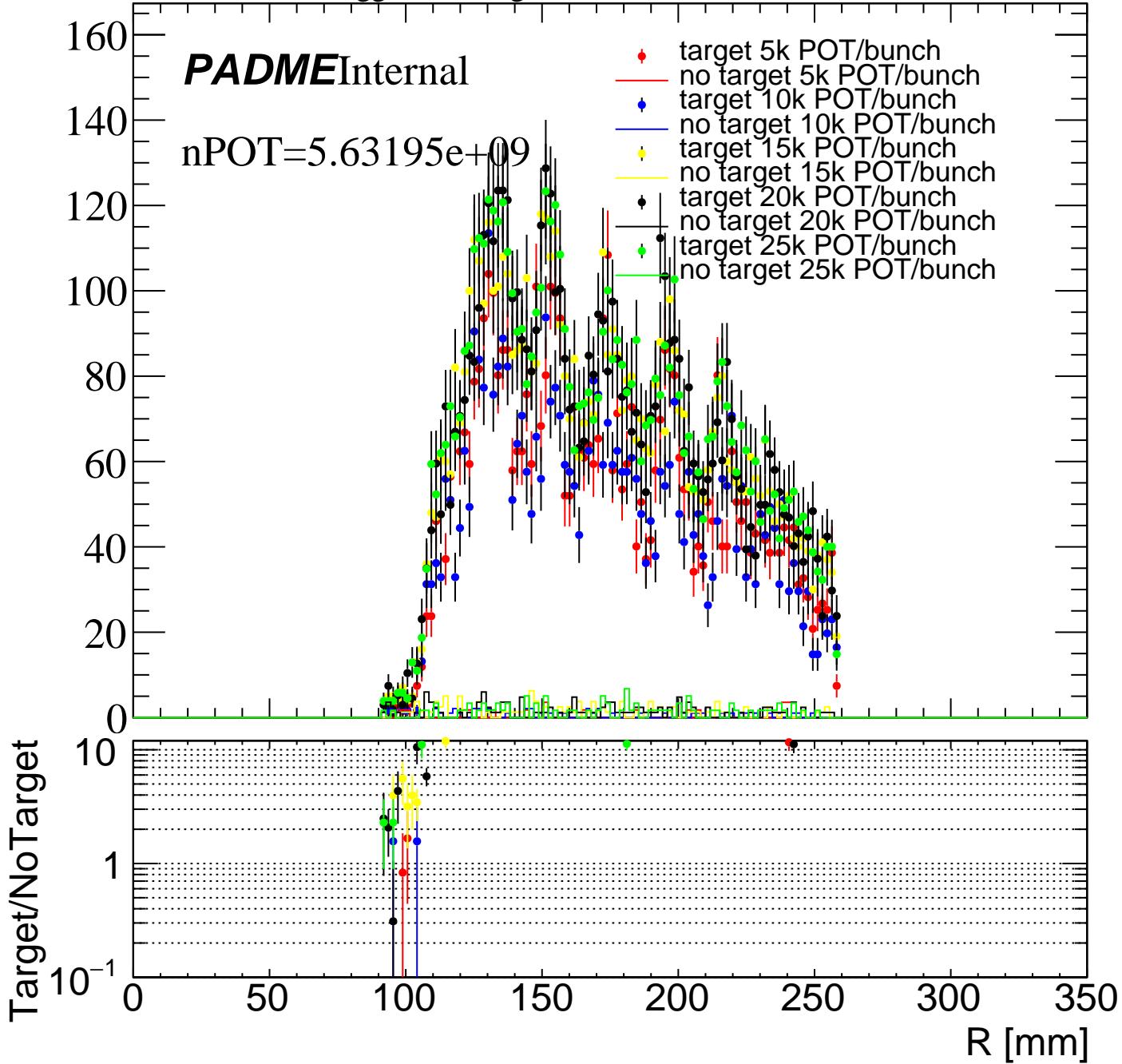
ECAL_Rgg_10ns20DegreeDeltaThetaUnderPeakEThr90



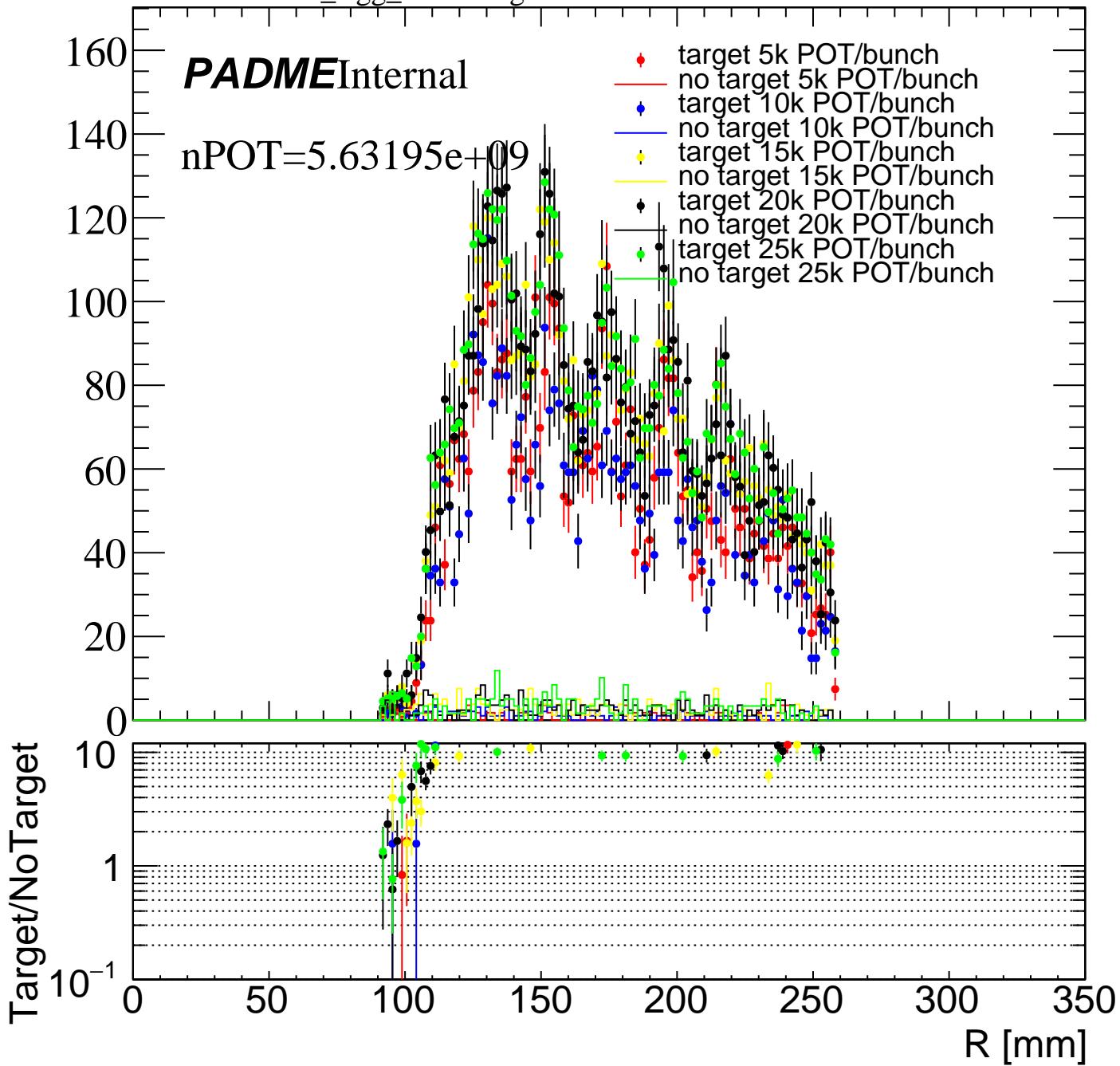
ECAL_Rgg_10ns20DegreeDeltaThetaUnderPeakEThr90_FRY



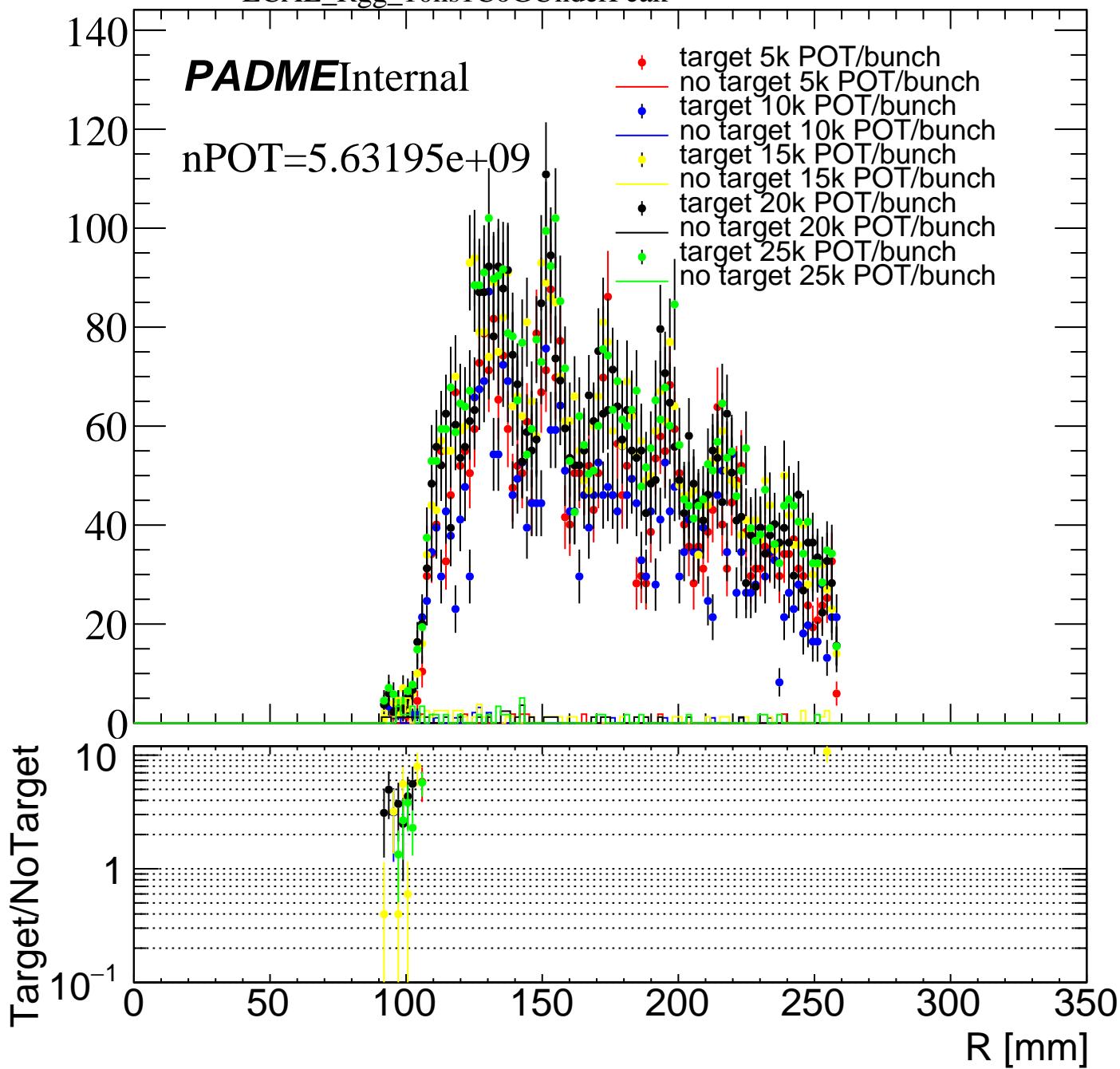
ECAL_Rgg_10ns5DegreeDeltaThetaUnderPeakEThr90



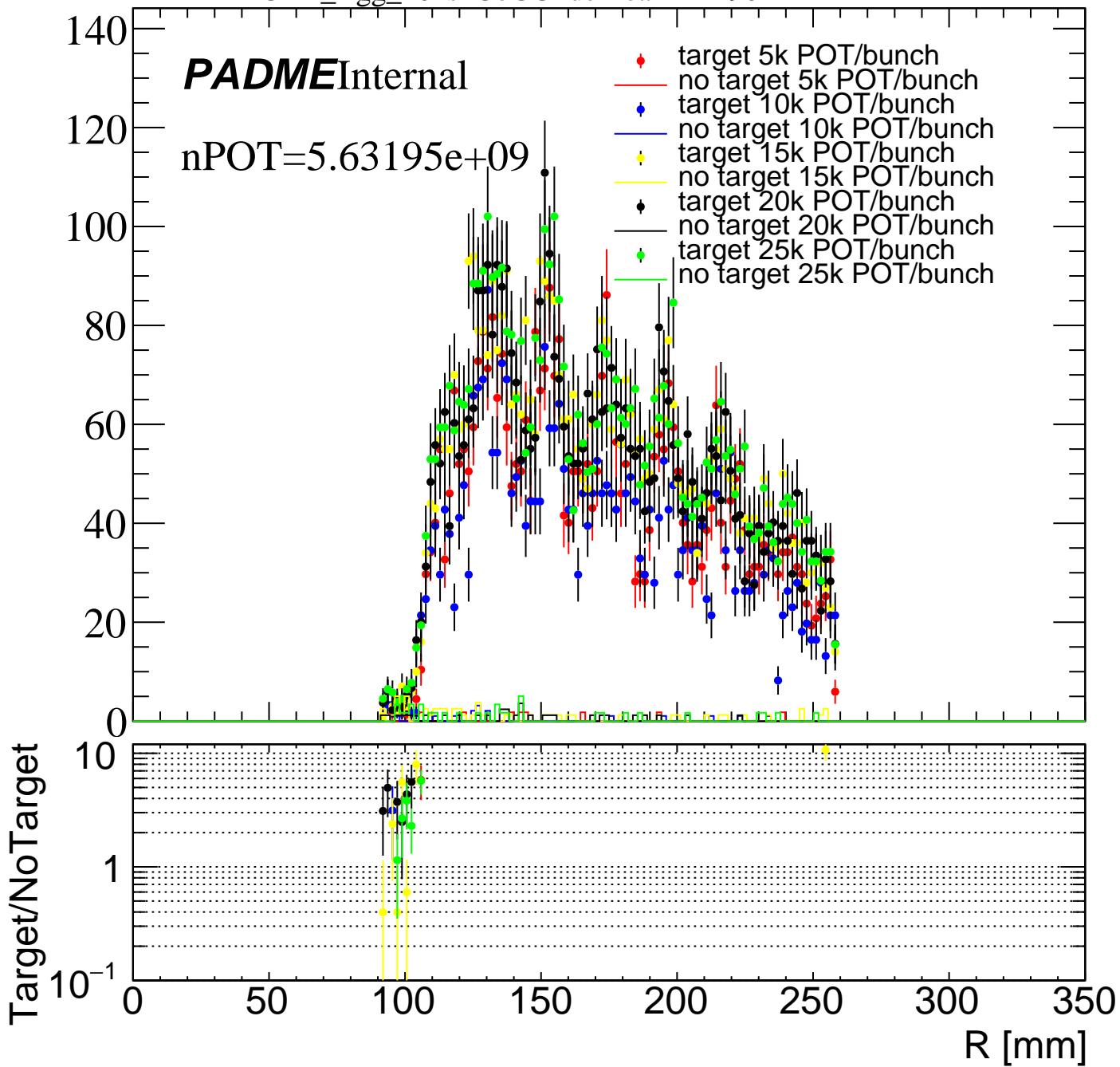
ECAL_Rgg_10ns5DegreeDeltaThetaEThr90



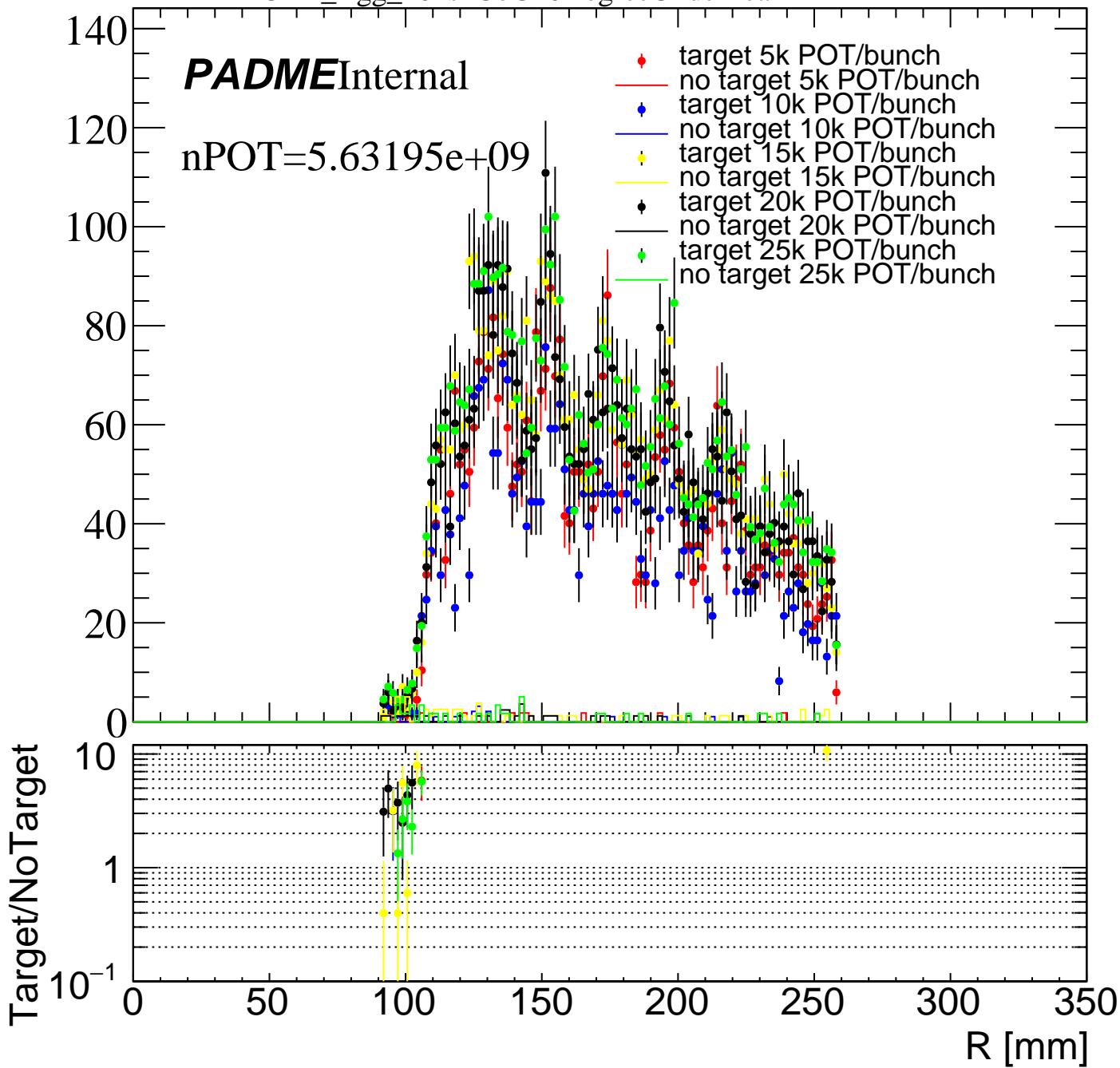
ECAL_Rgg_10ns1CoGUnderPeak



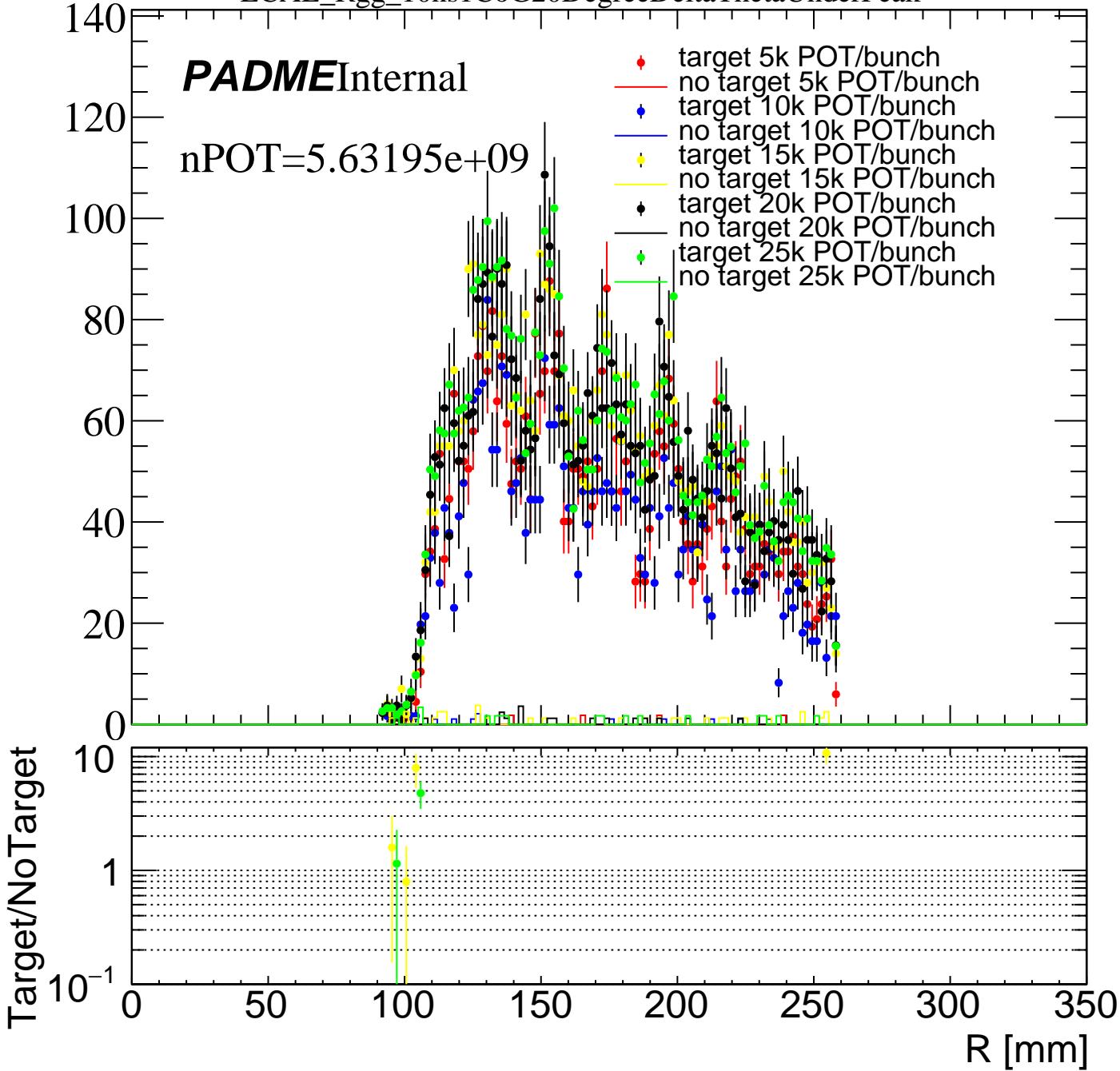
ECAL_Rgg_10ns1CoGUnderPeakEThr90



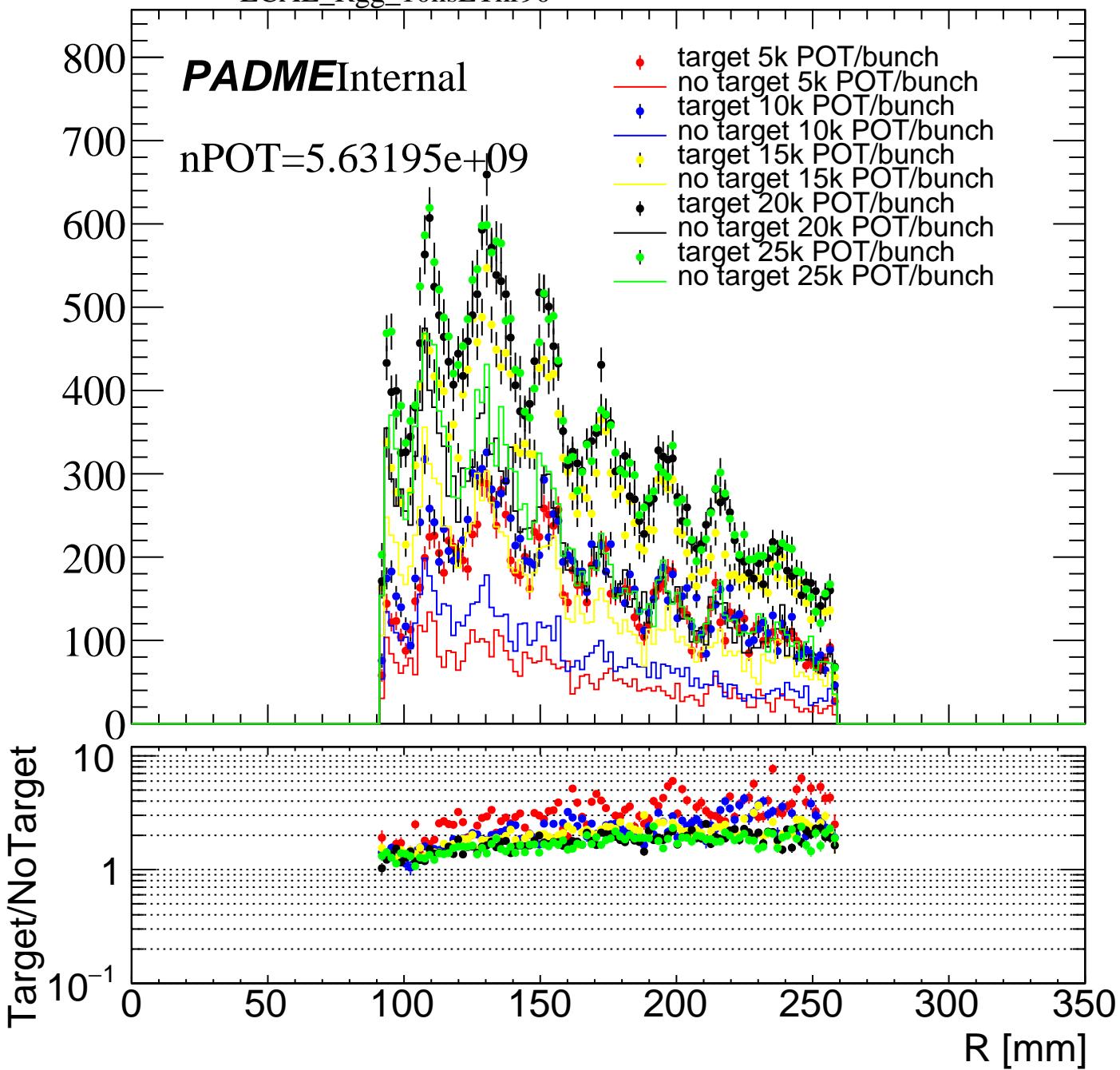
ECAL_Rgg_10ns1CoG20DegreeUnderPeak



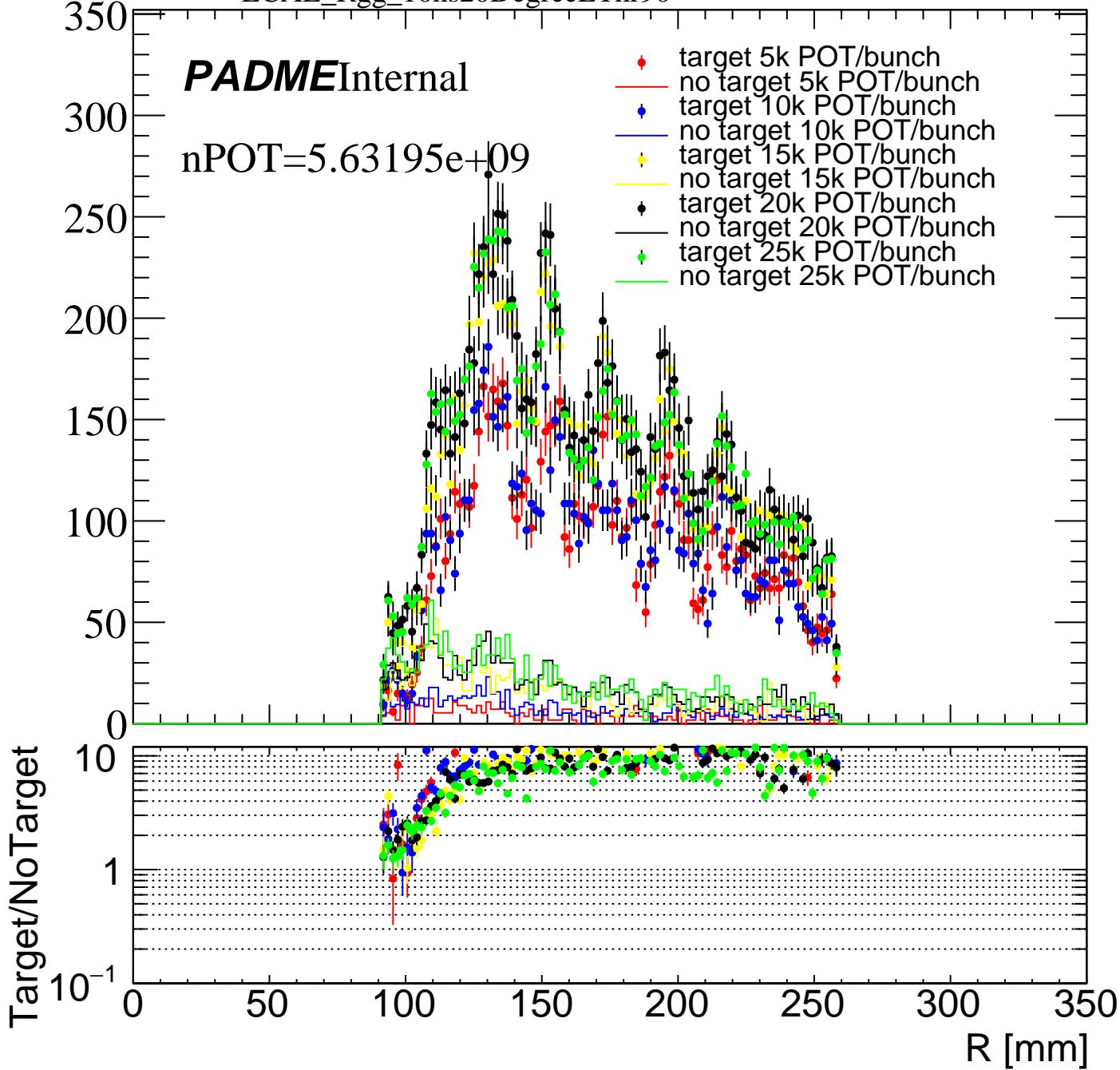
ECAL_Rgg_10ns1CoG20DegreeDeltaThetaUnderPeak



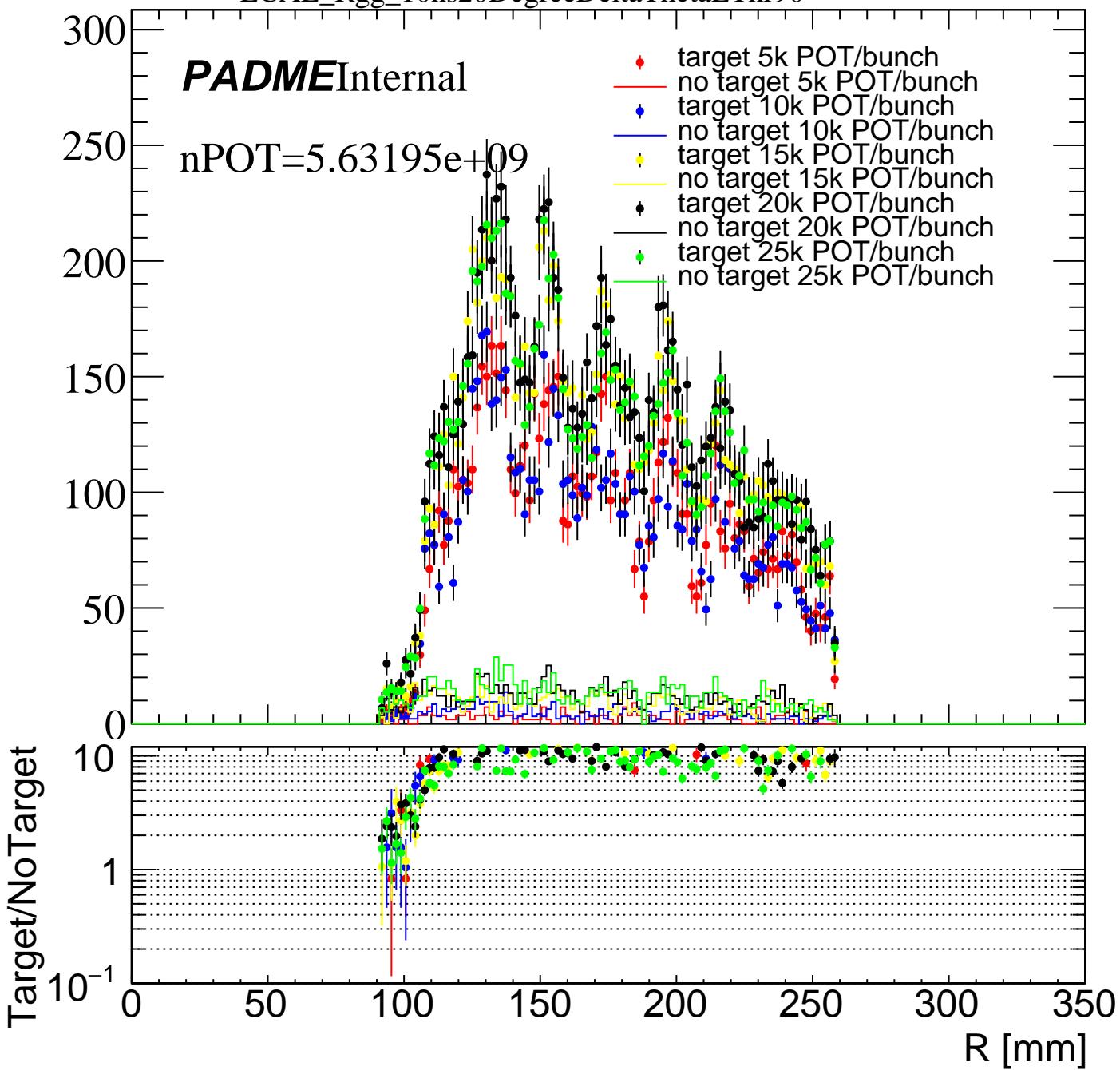
ECAL_Rgg_10nsETHr90



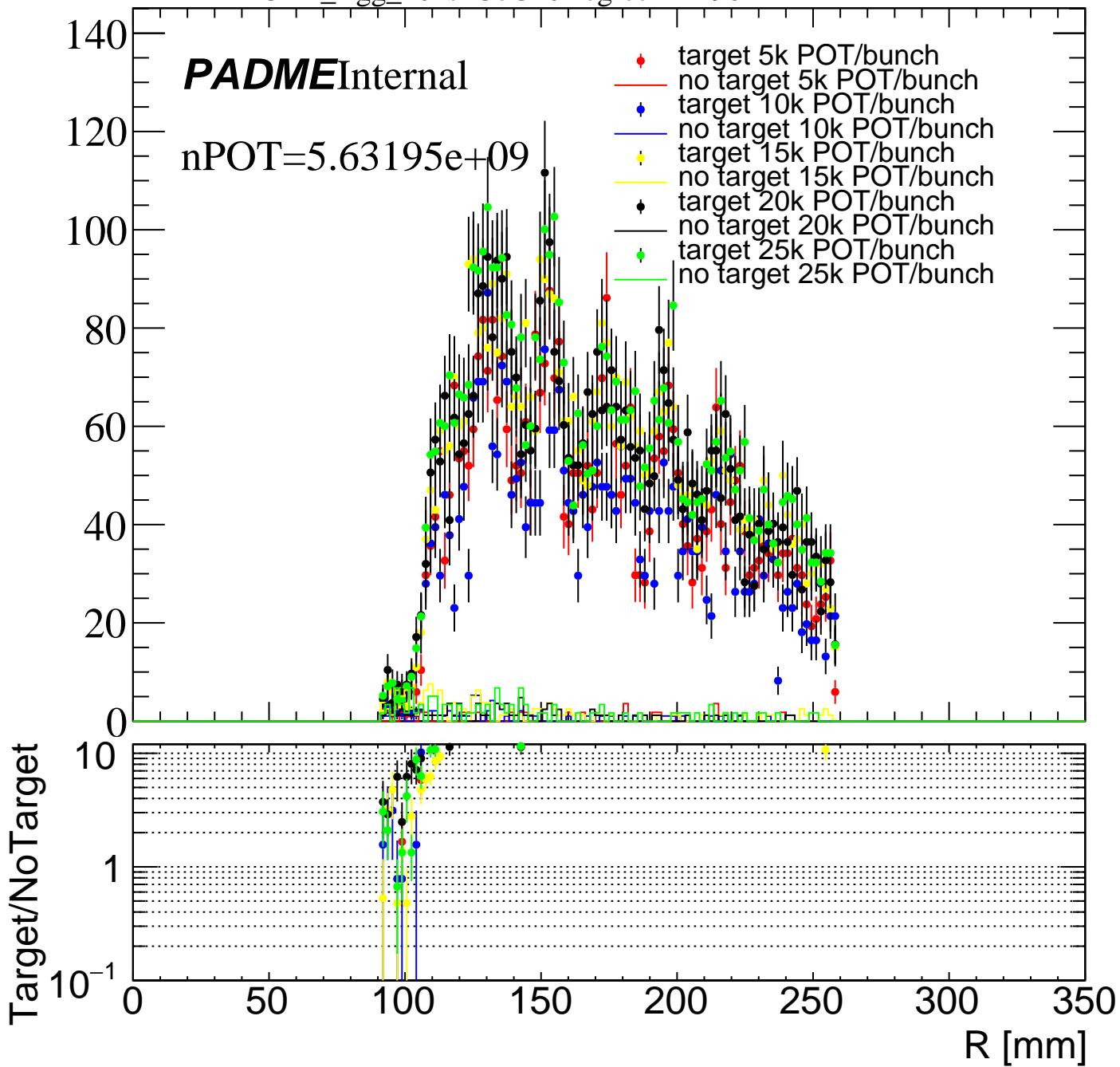
ECAL_Rgg_10ns20DegreeEThr90



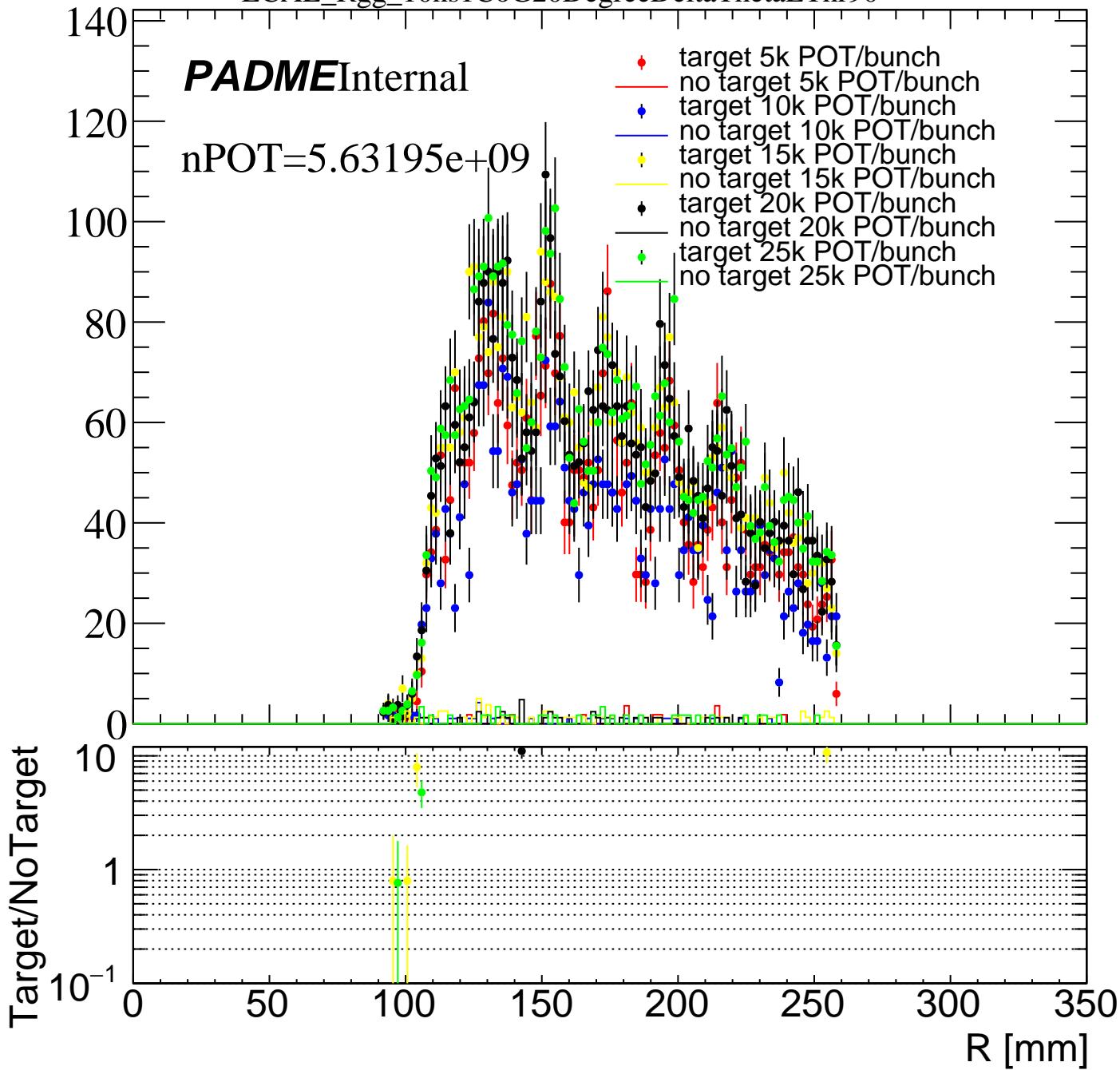
ECAL_Rgg_10ns20DegreeDeltaThetaETHr90



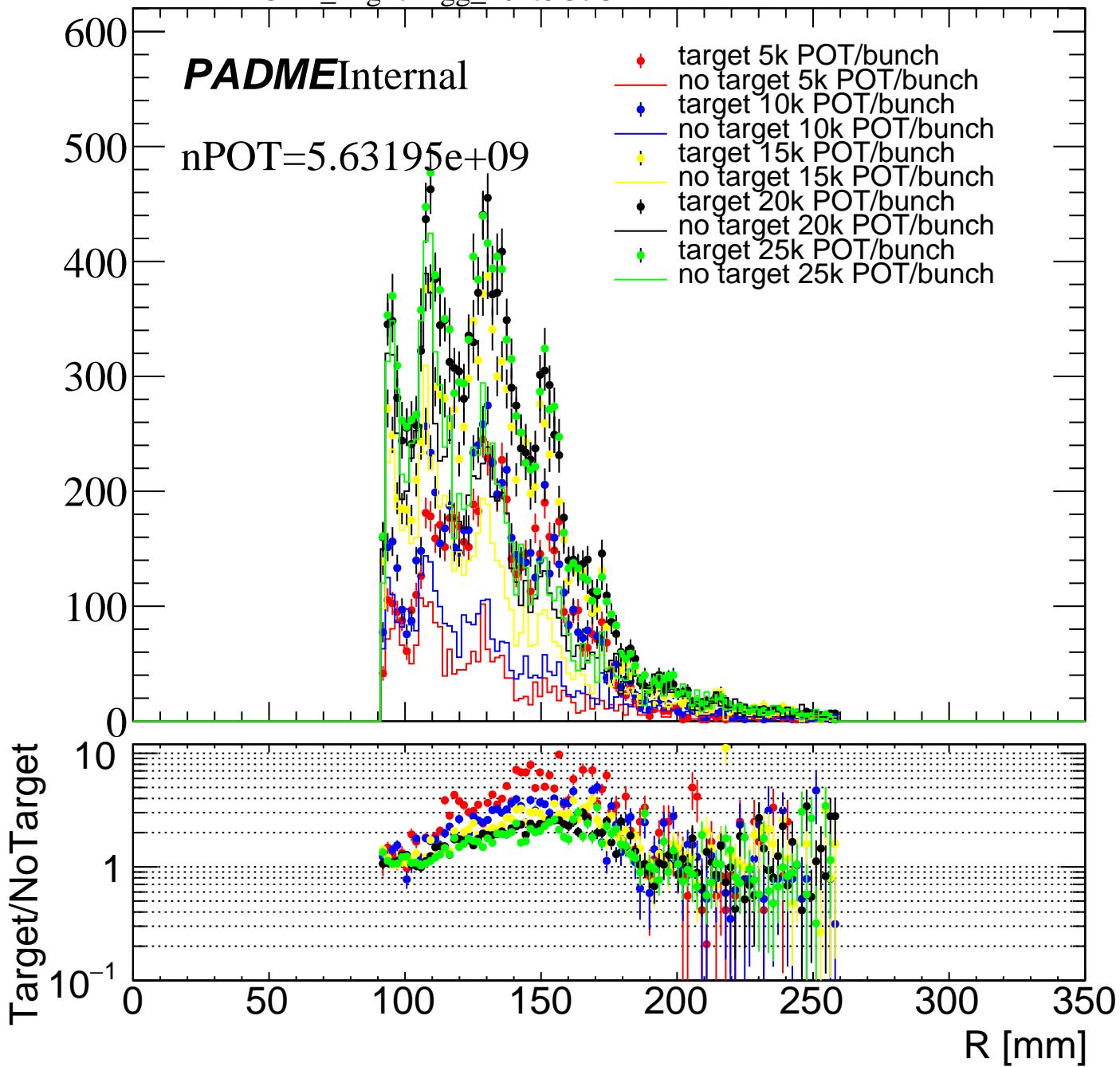
ECAL_Rgg_10ns1CoG20DegreeEThr90



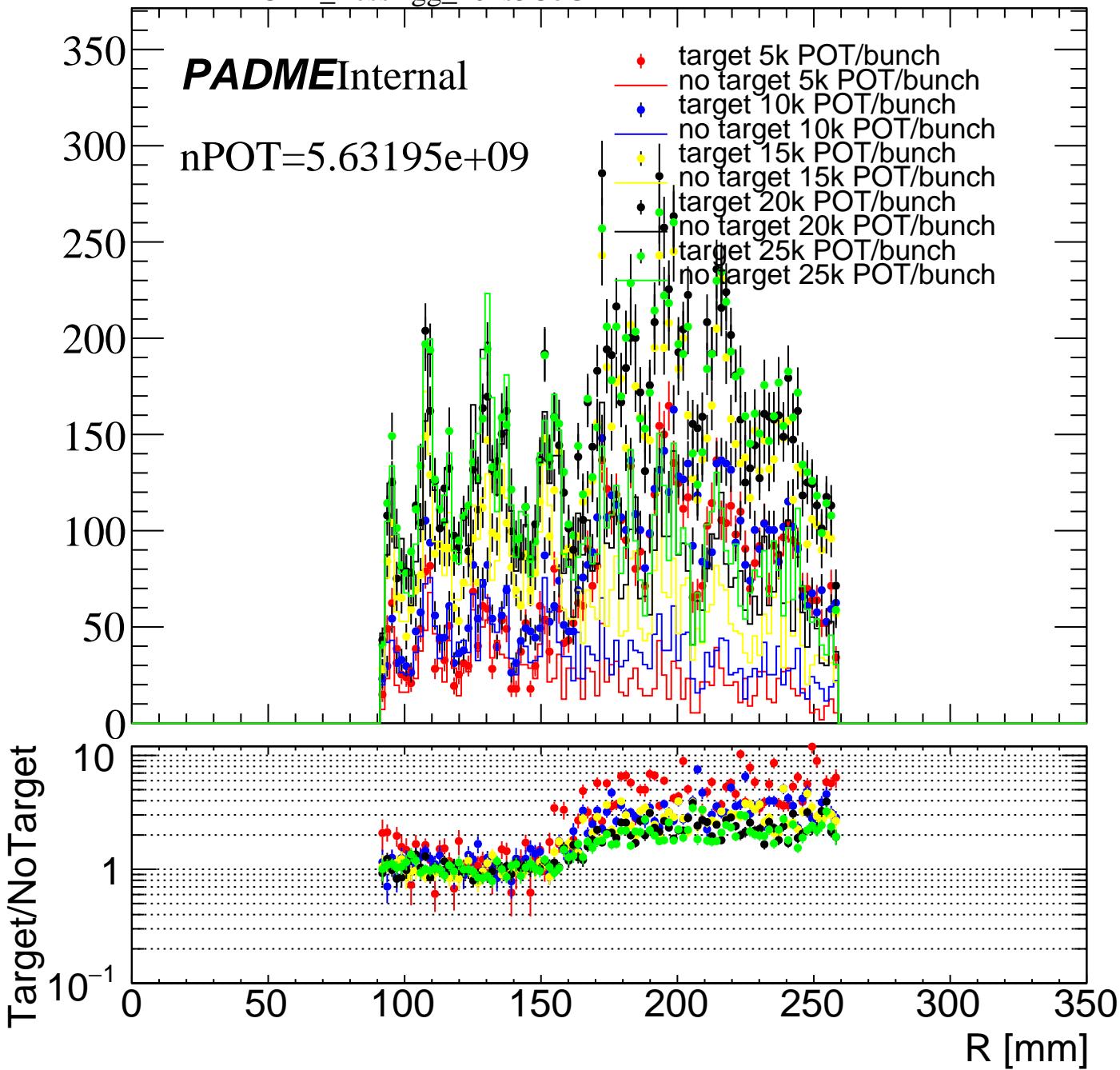
ECAL_Rgg_10ns1CoG20DegreeDeltaThetaETHr90



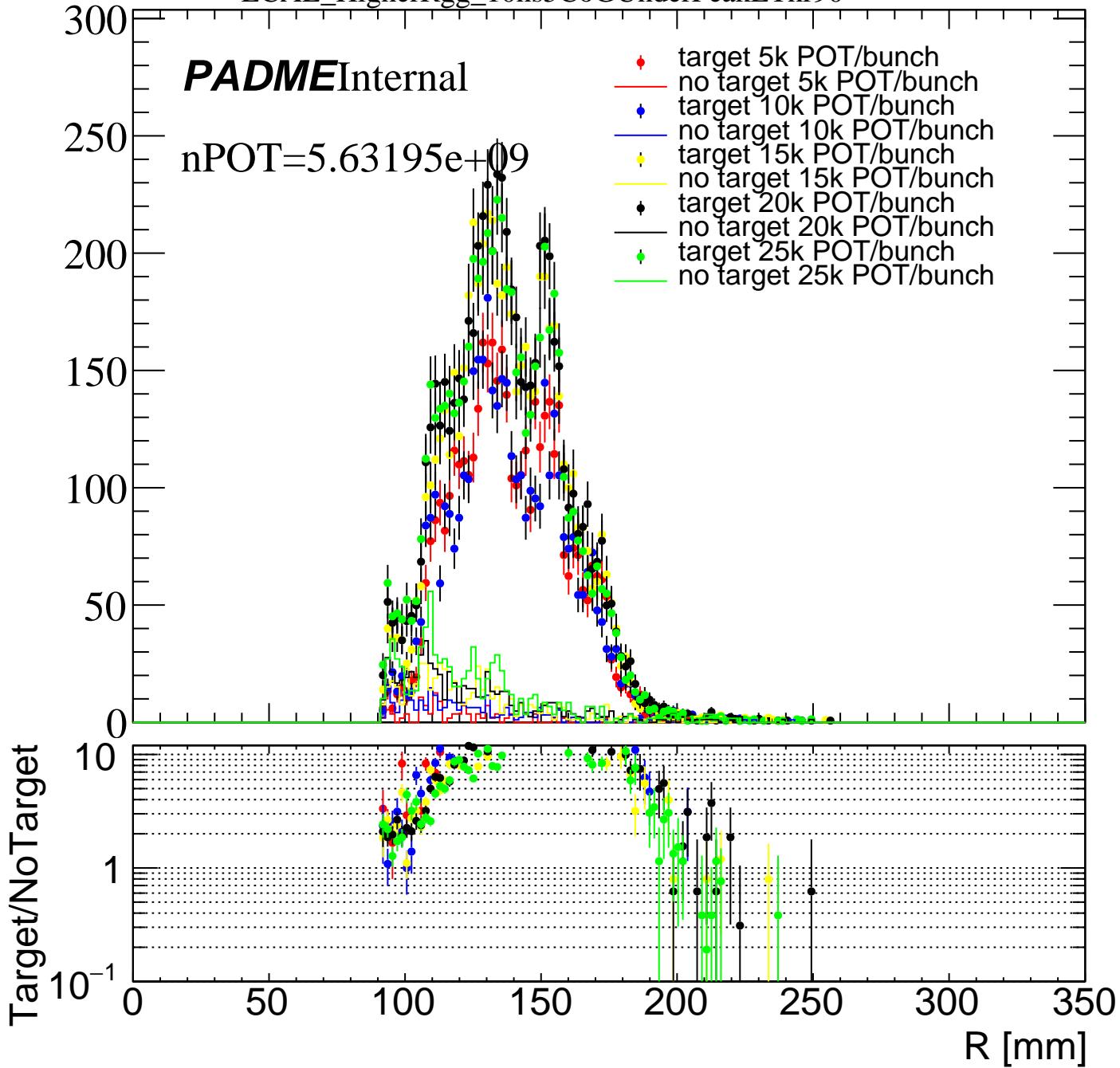
ECAL_HigherRgg_10ns5CoG



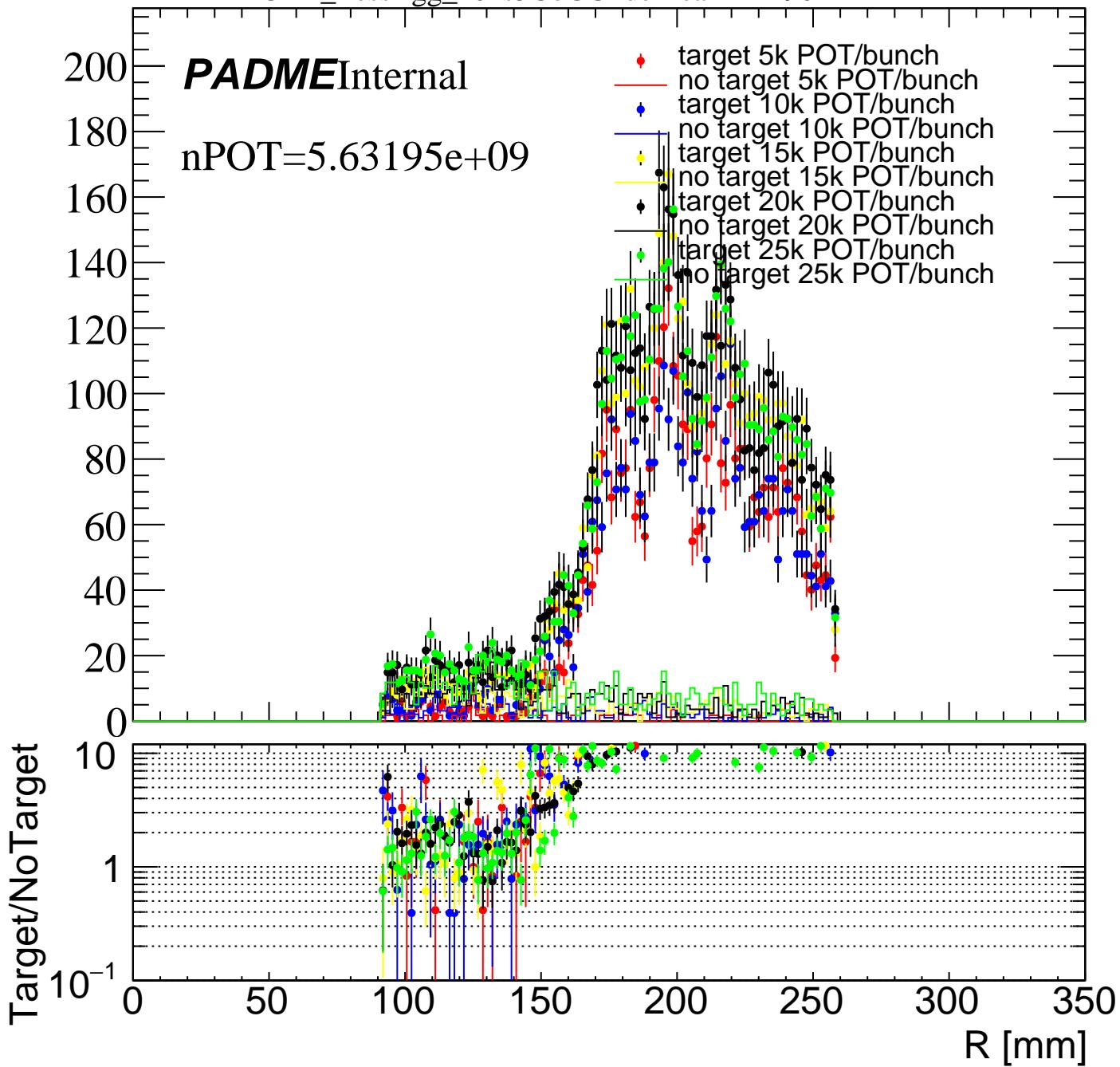
ECAL_LessRgg_10ns5CoG



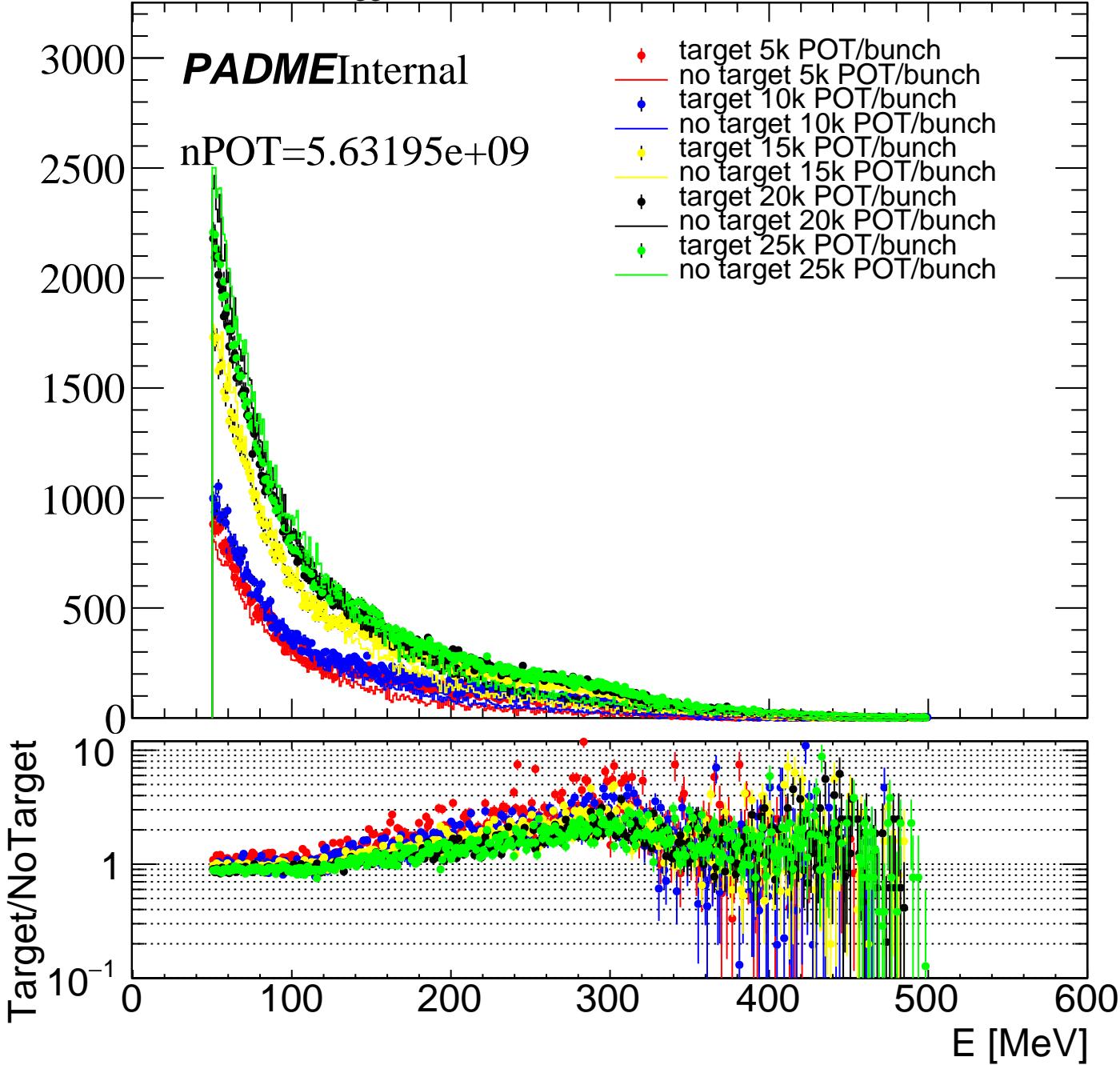
ECAL_HigherRgg_10ns5CoGUnderPeakEThr90



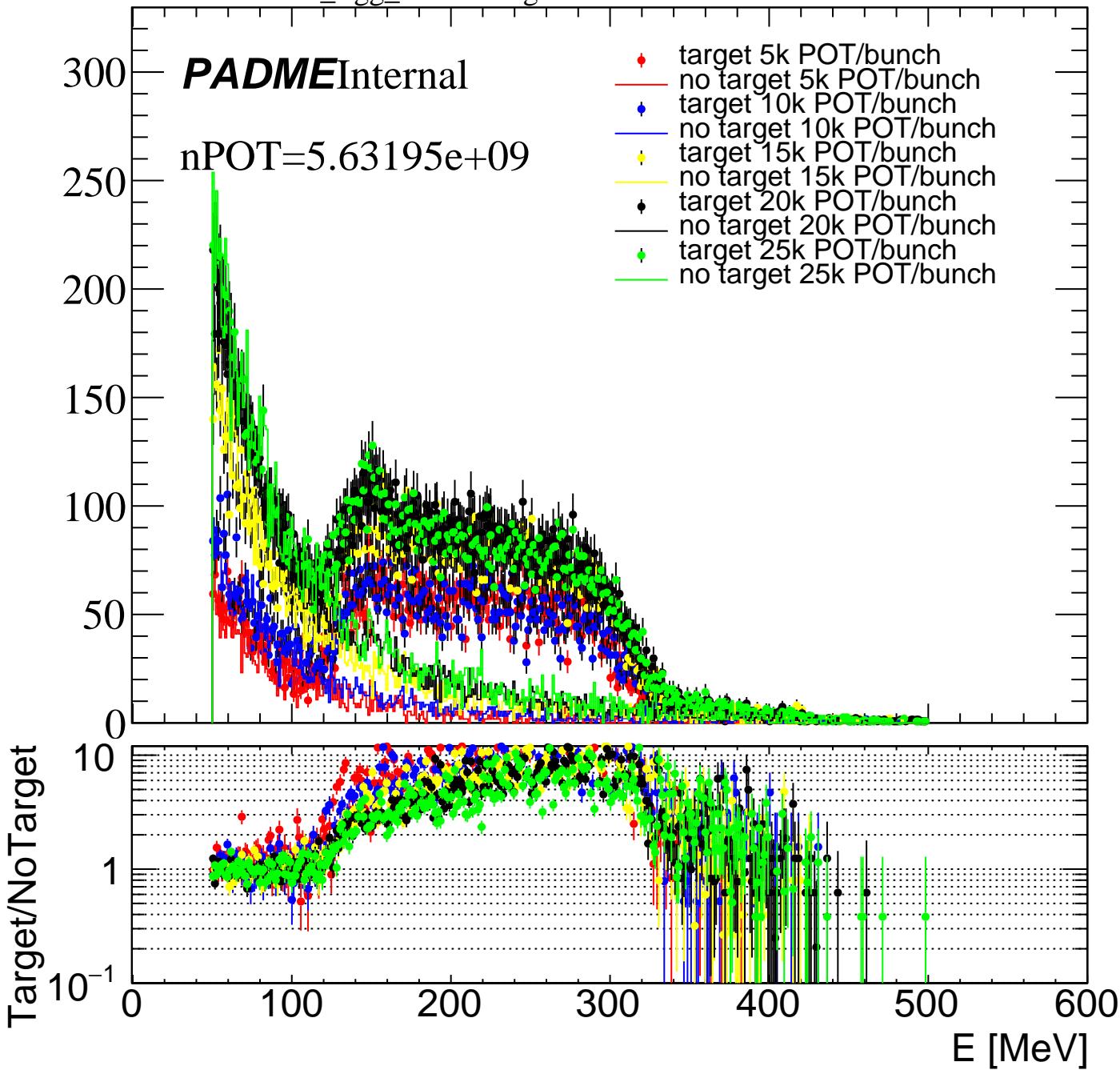
ECAL_LessRgg_10ns5CoGUnderPeakEThr90



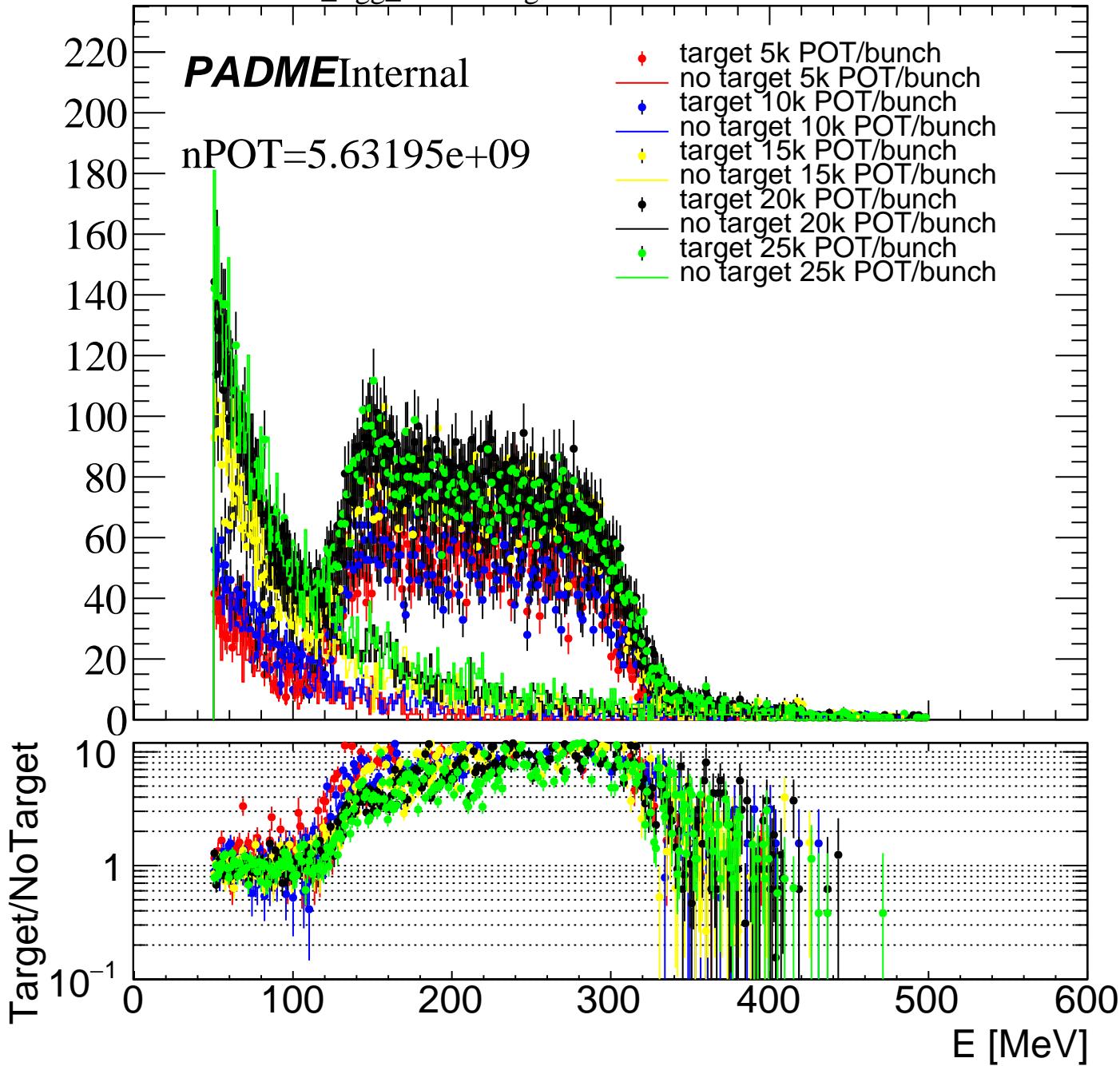
ECAL_Egg_10ns



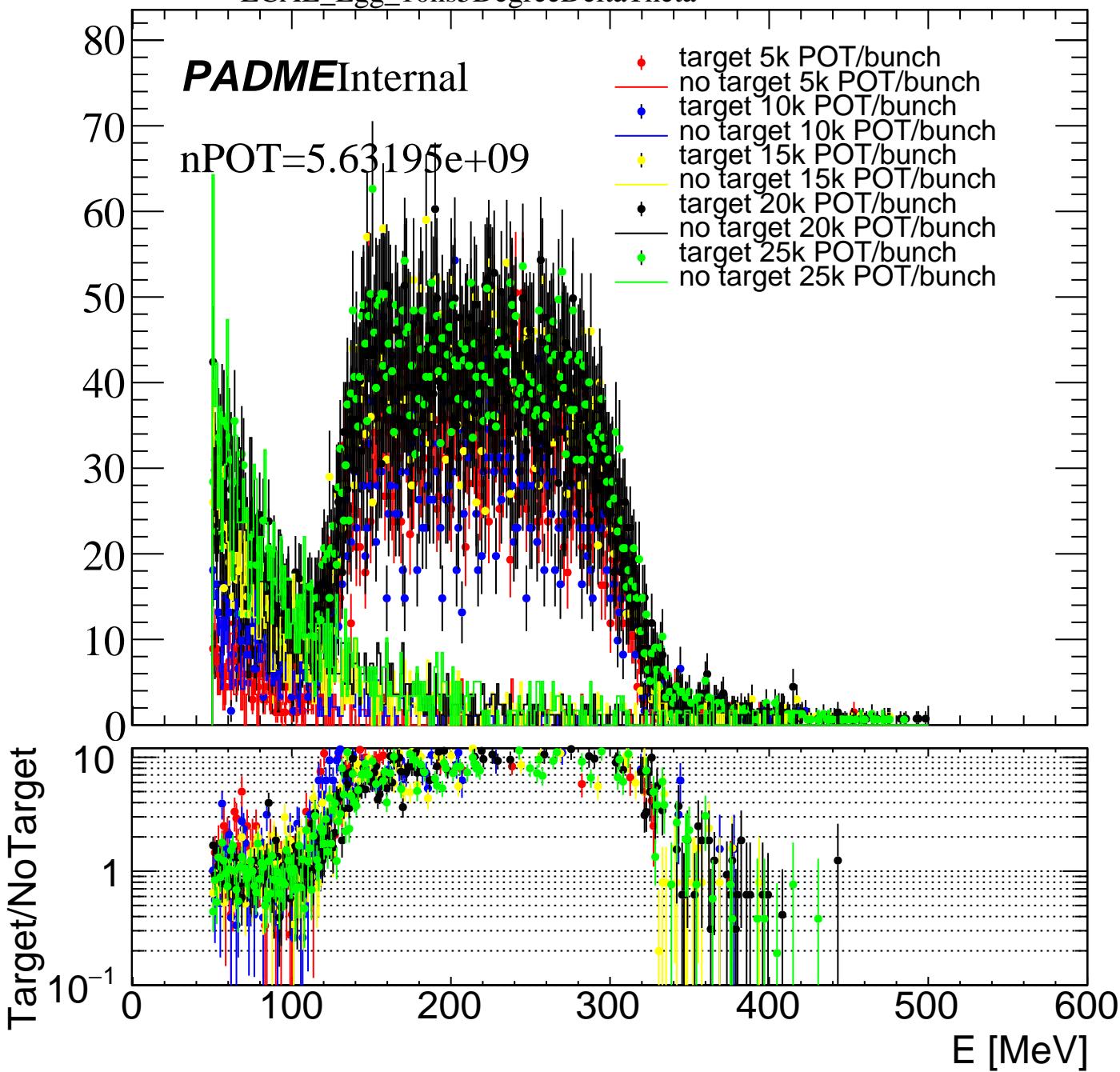
ECAL_Egg_10ns20Degree

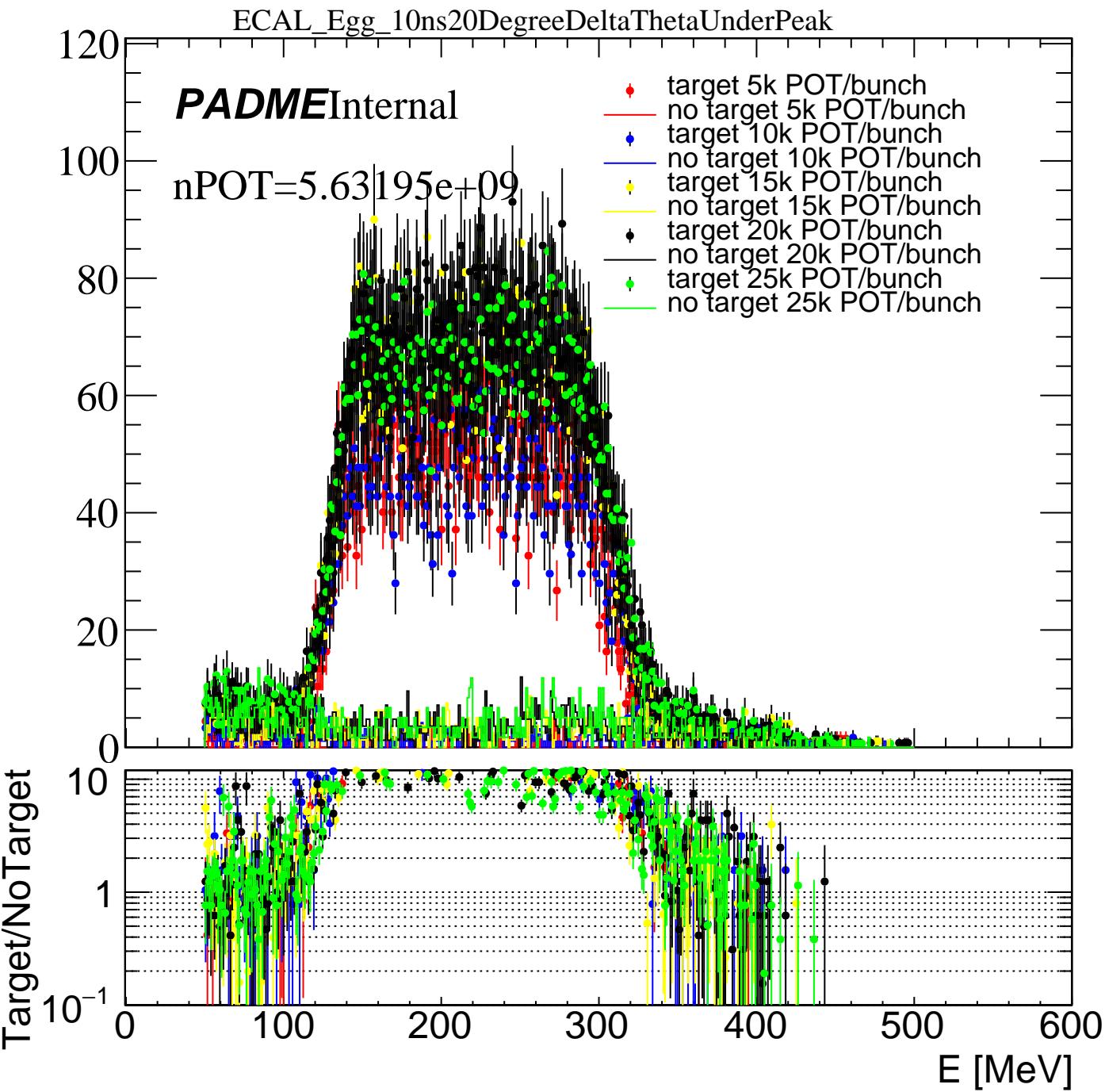


ECAL_Egg_10ns20DegreeDeltaTheta

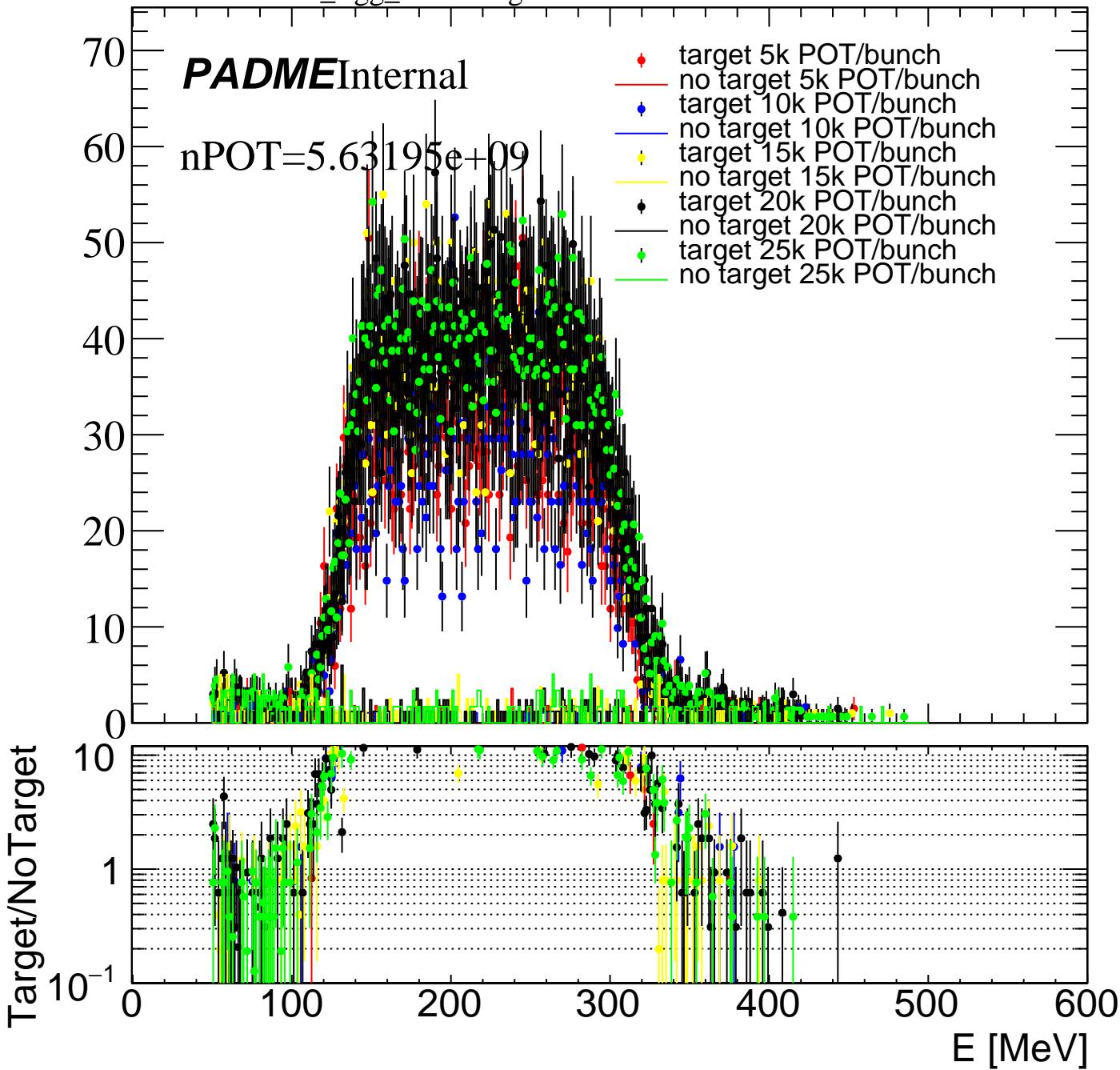


ECAL_Egg_10ns5DegreeDeltaTheta

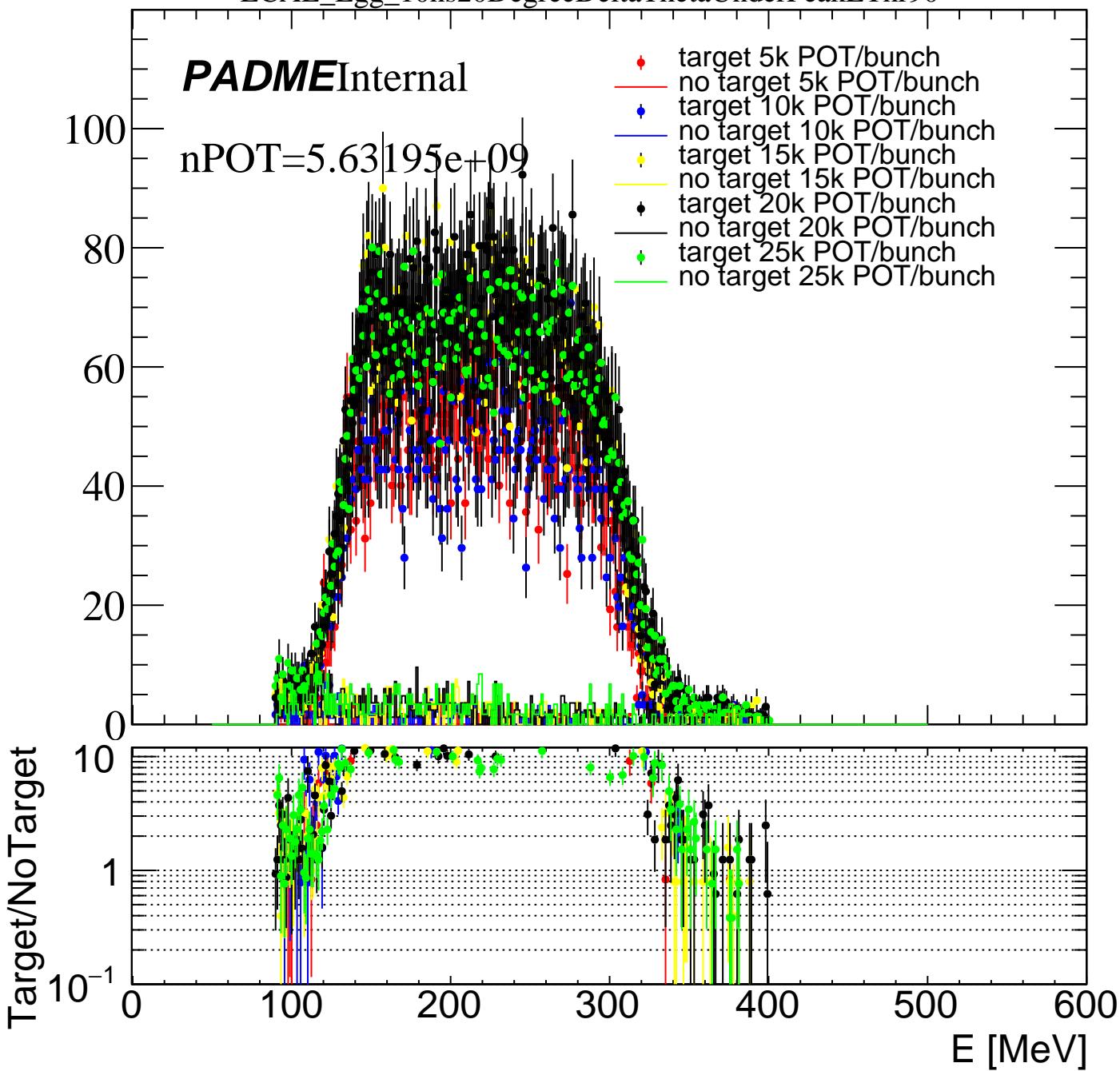




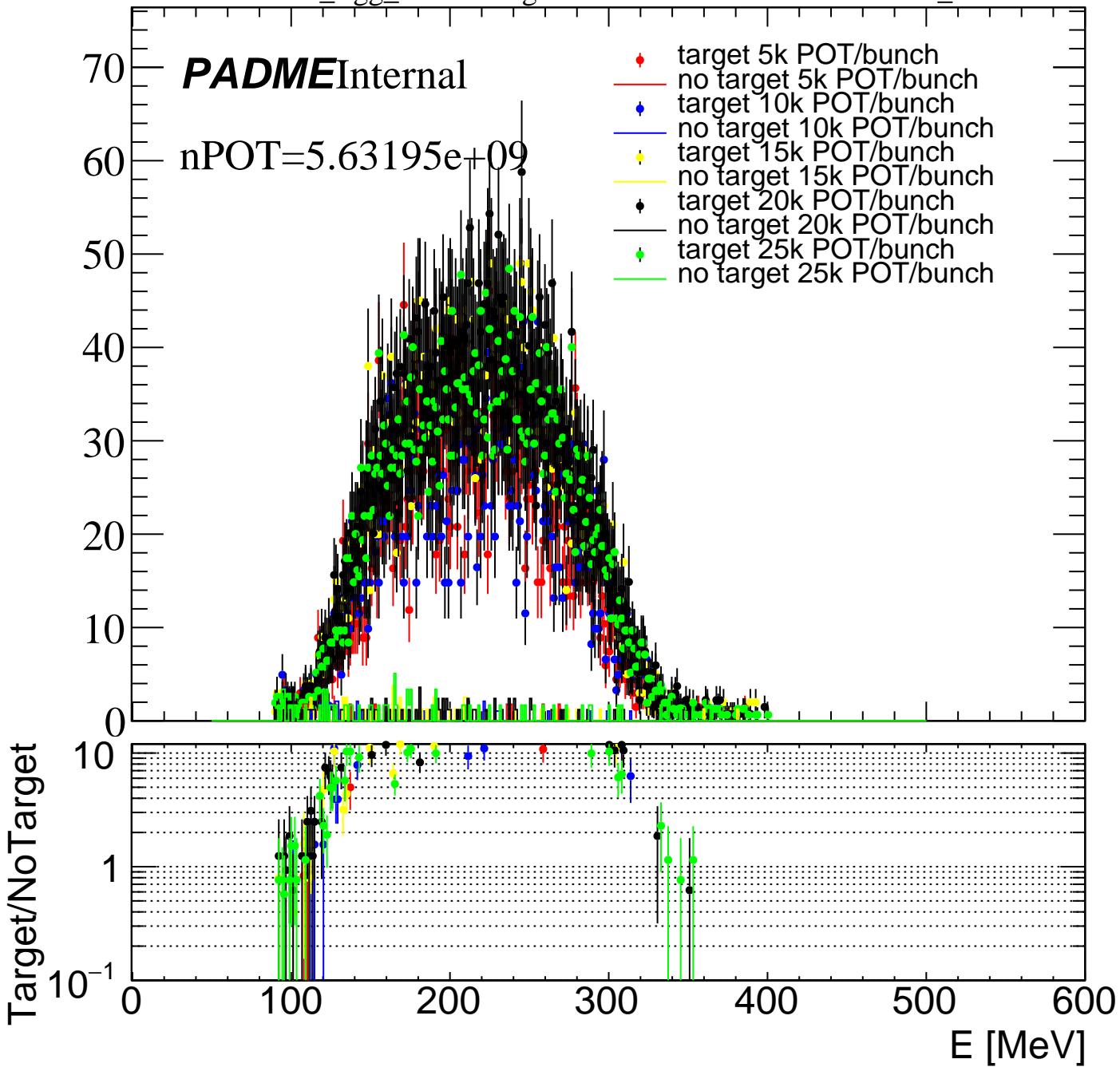
ECAL_Egg_10ns5DegreeDeltaThetaUnderPeak



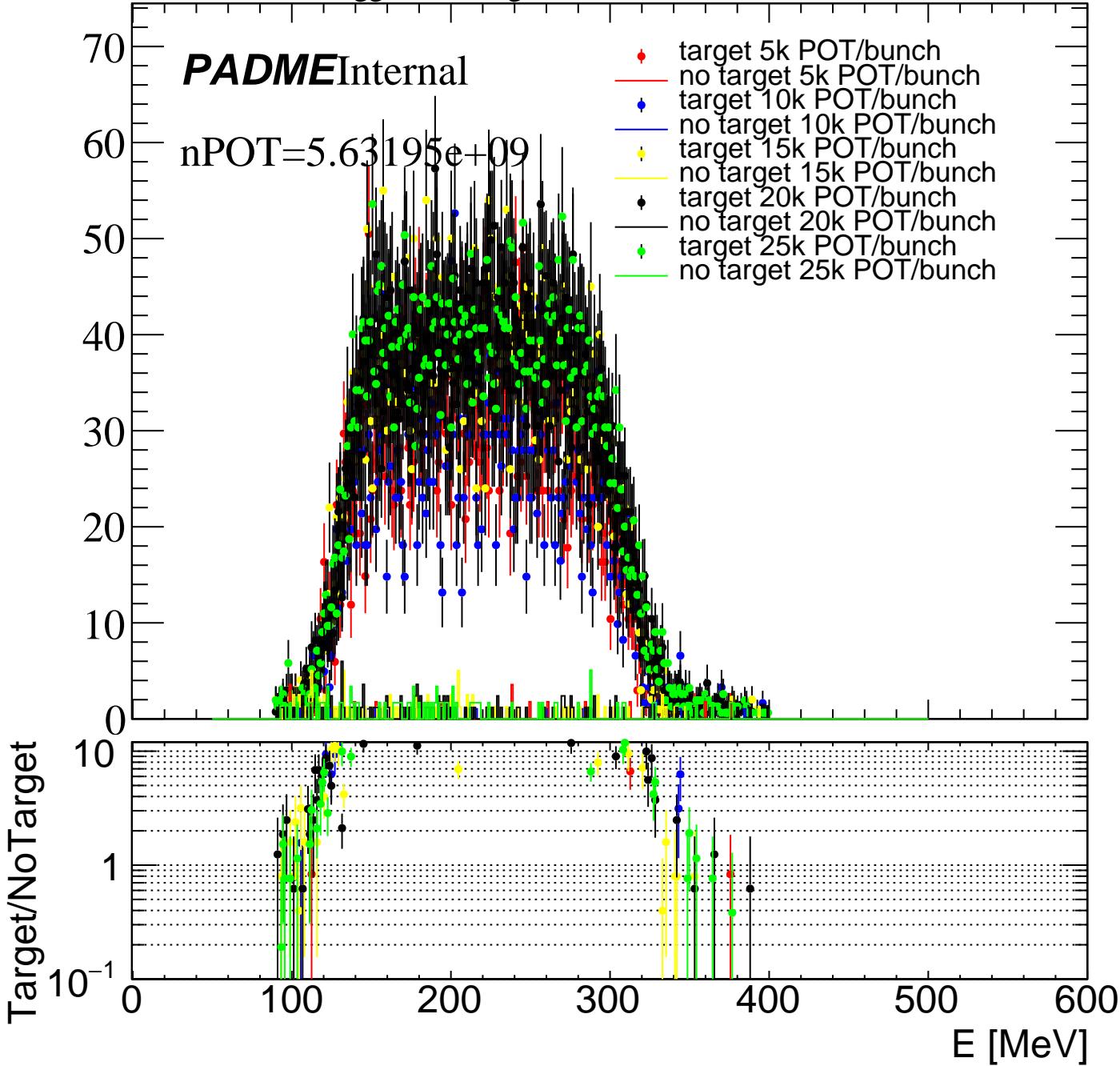
ECAL_Egg_10ns20DegreeDeltaThetaUnderPeakEThr90



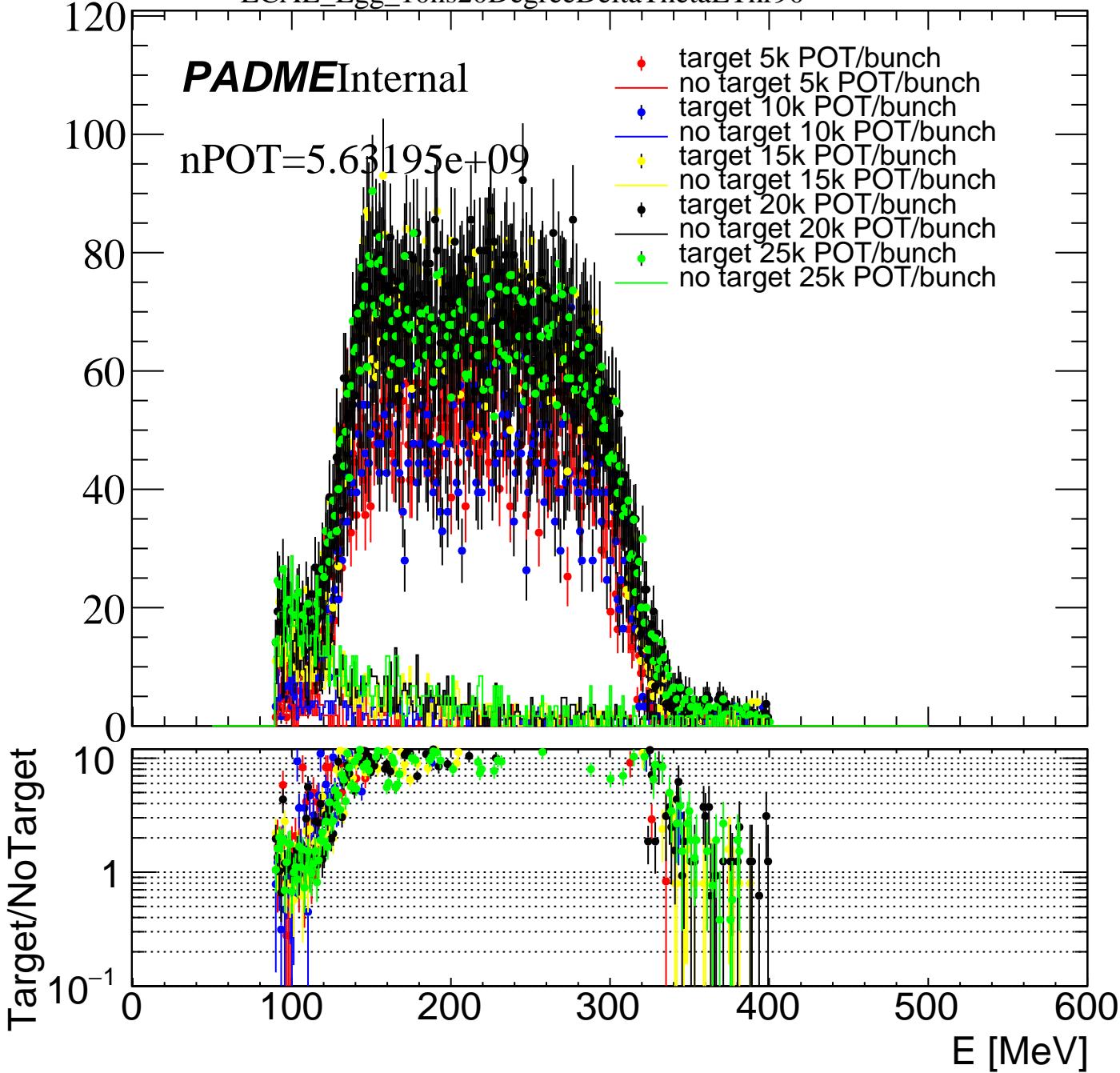
ECAL_Egg_10ns20DegreeDeltaThetaUnderPeakEThr90_FRY



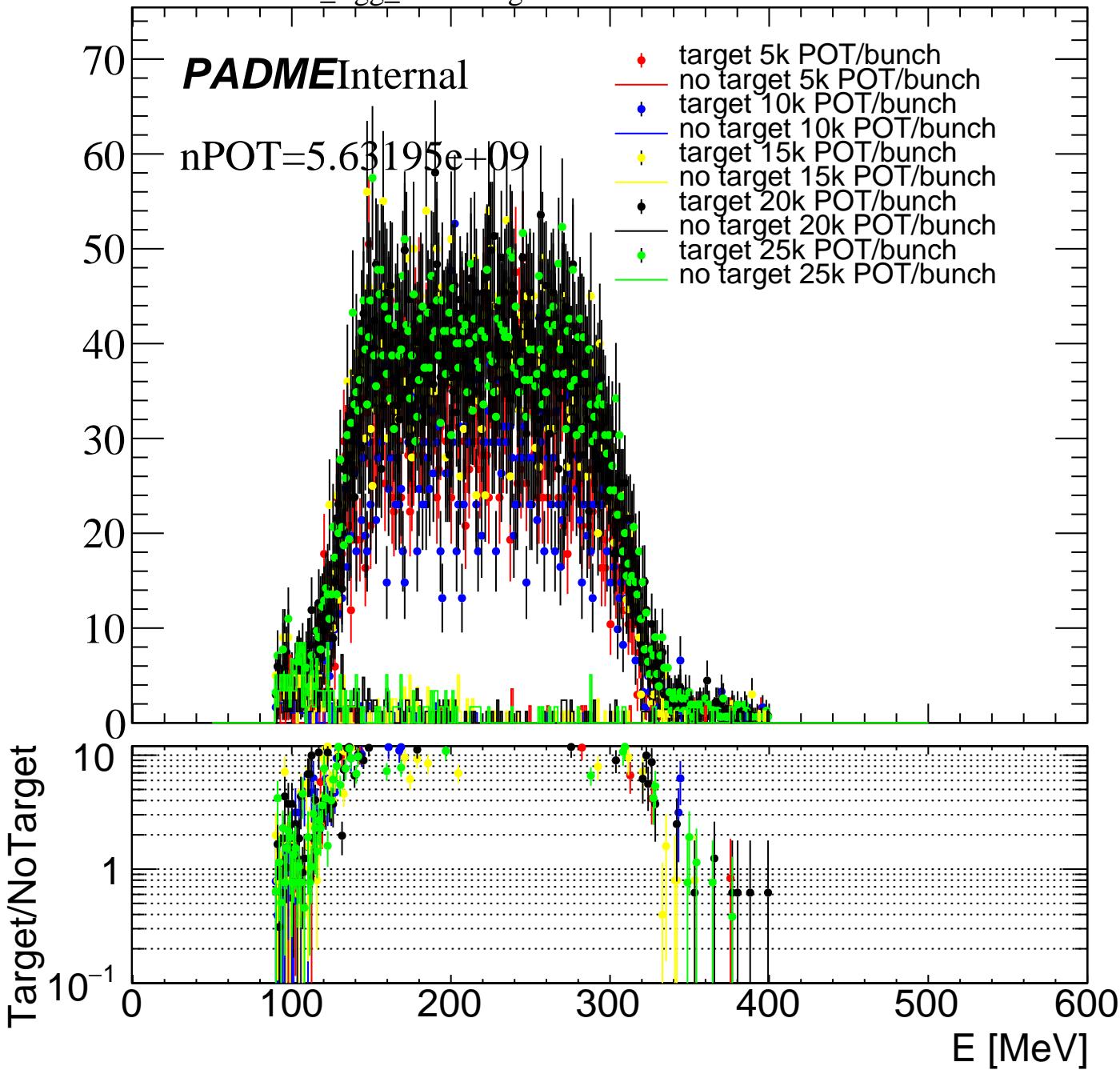
ECAL_Egg_10ns5DegreeDeltaThetaUnderPeakEThr90



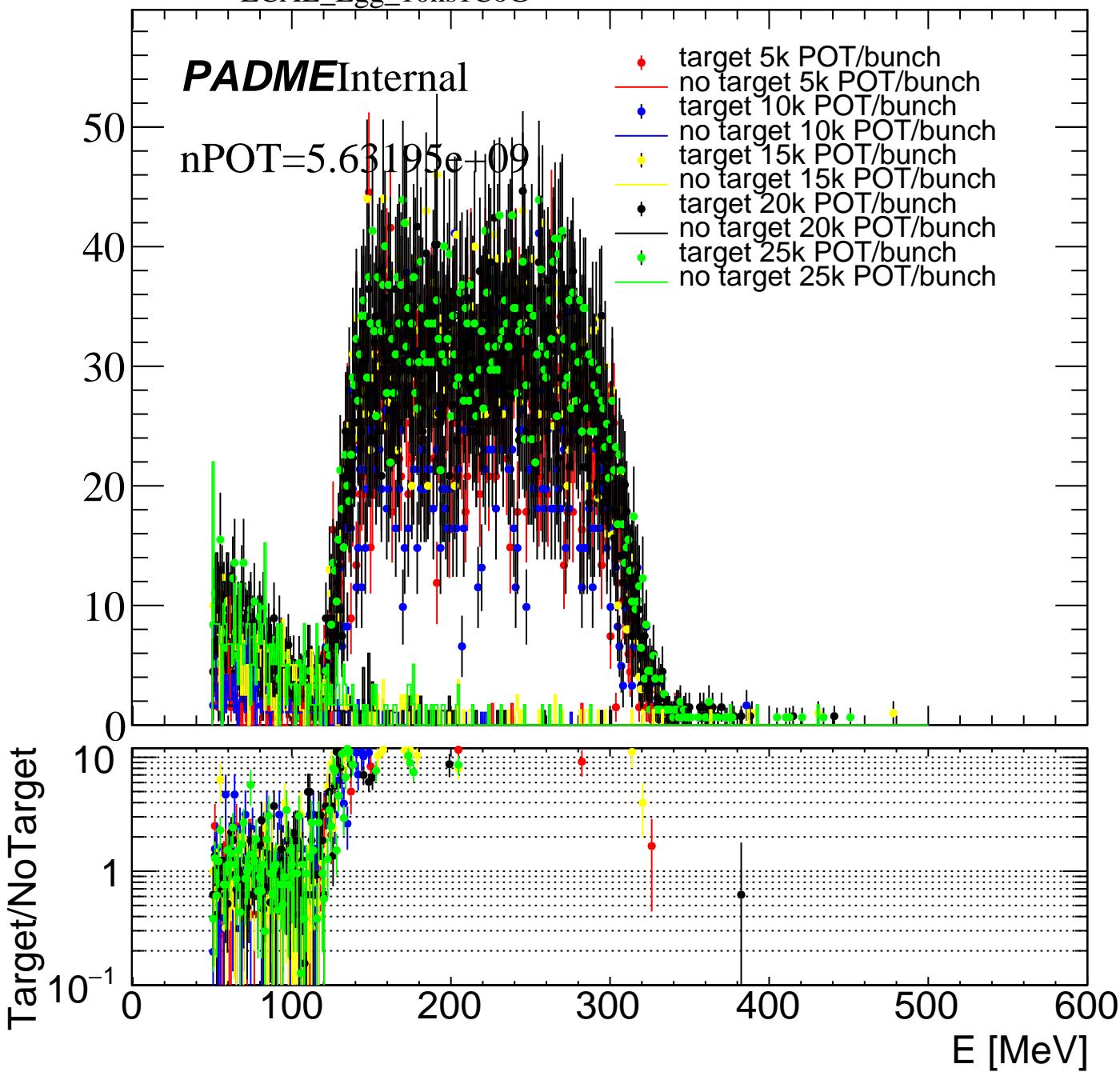
ECAL_Egg_10ns20DegreeDeltaThetaEThr90



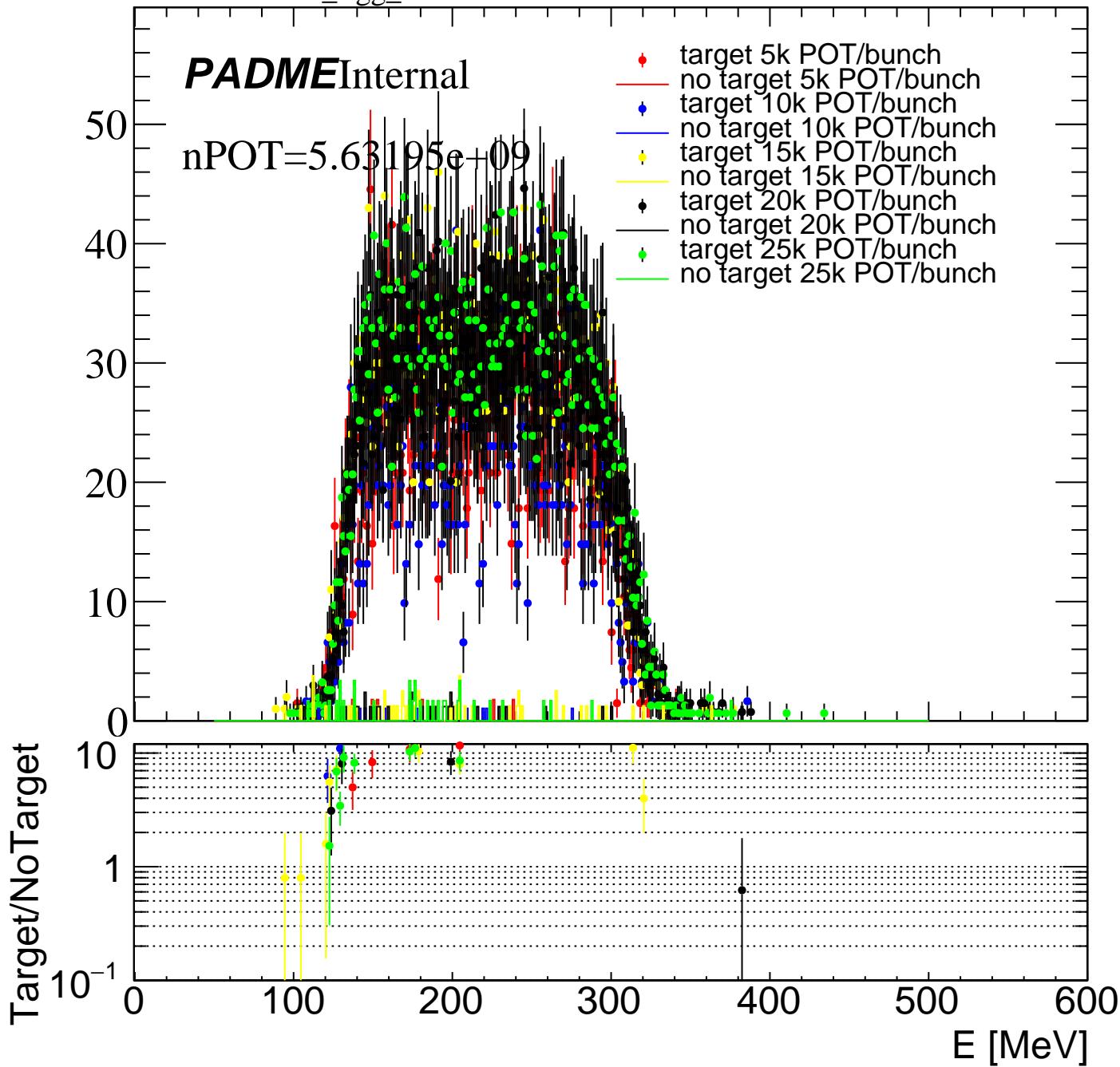
ECAL_Egg_10ns5DegreeDeltaThetaEThr90



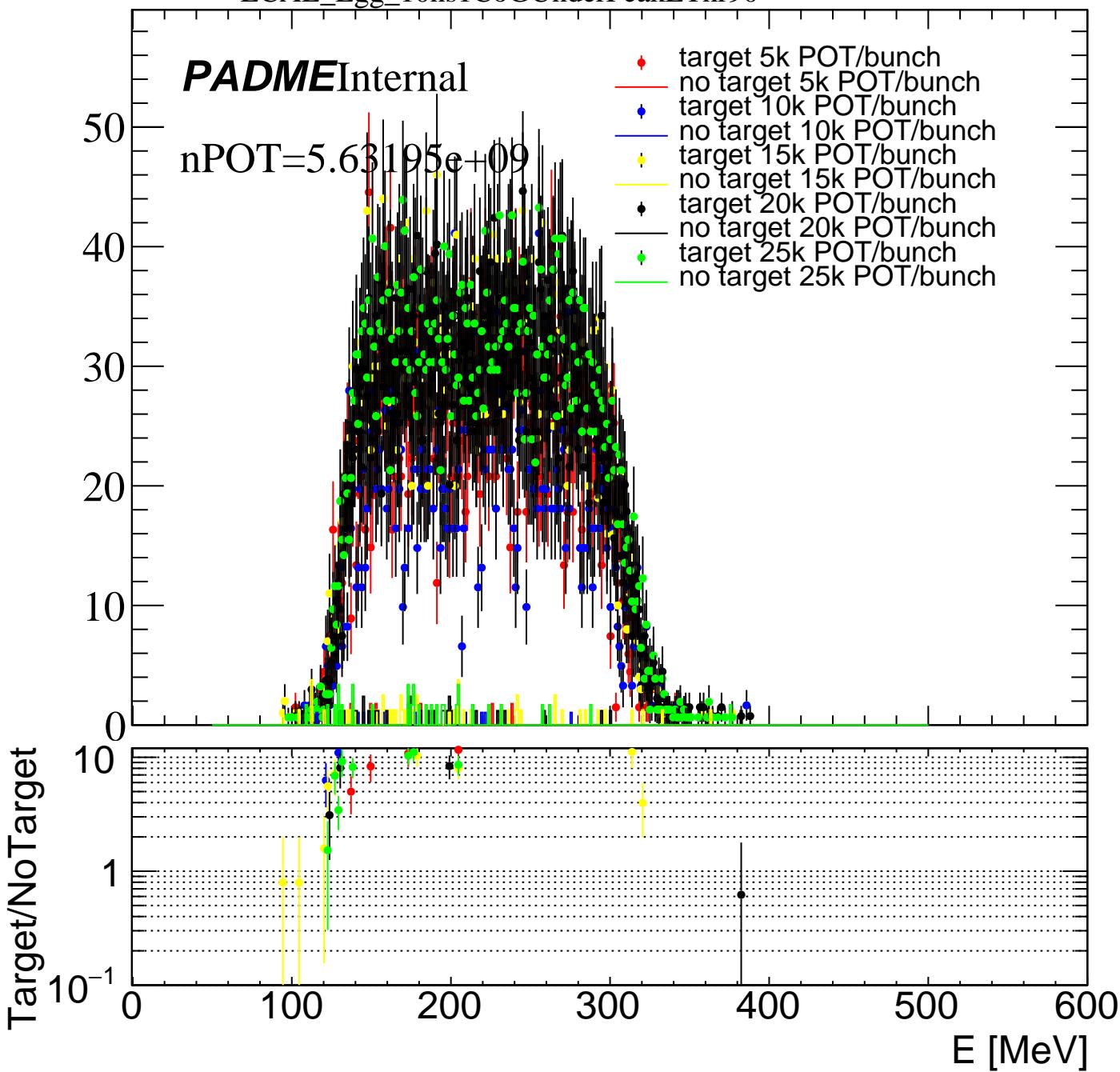
ECAL_Egg_10ns1CoG



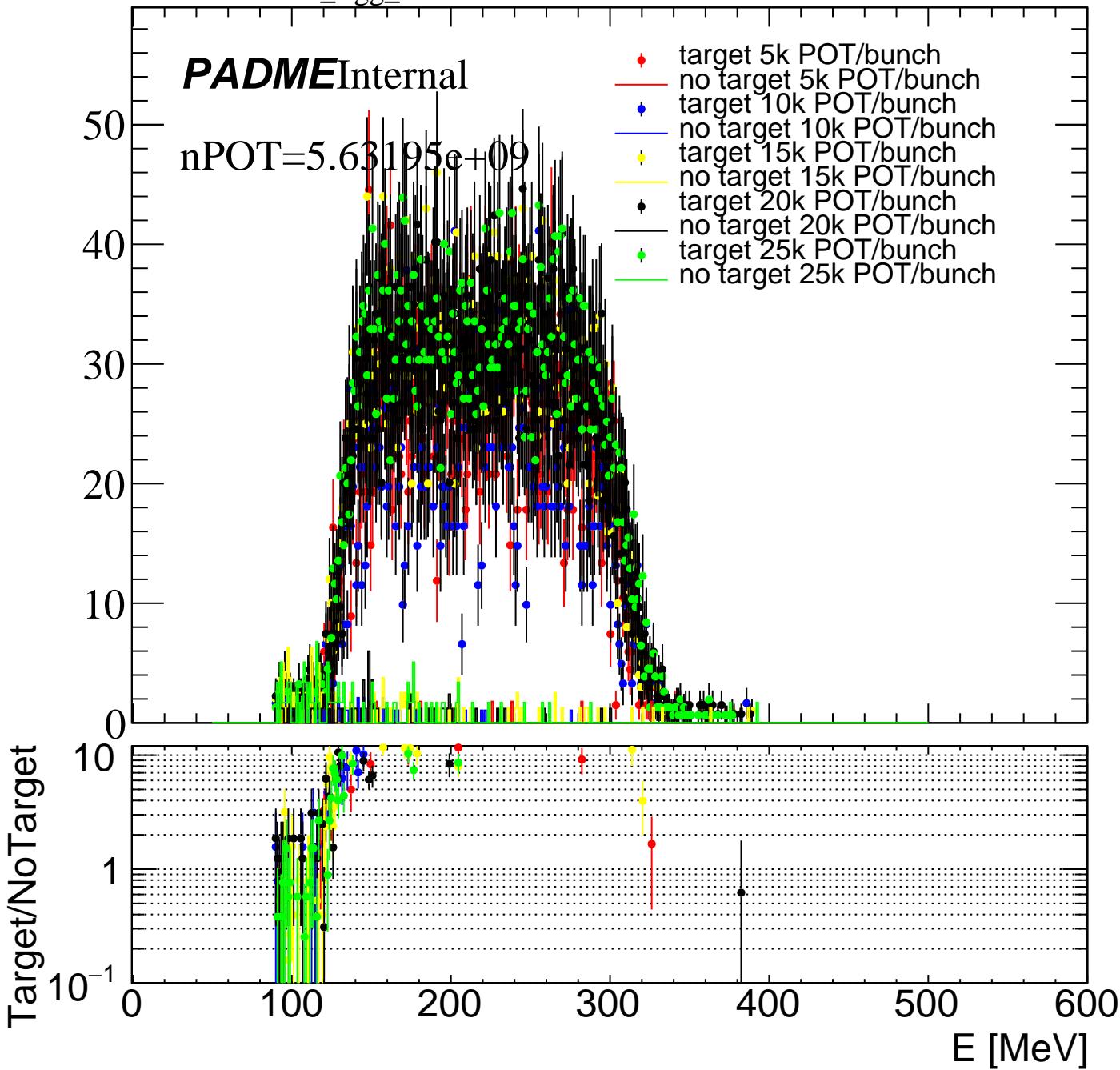
ECAL_Egg_10ns1CoGUnderPeak



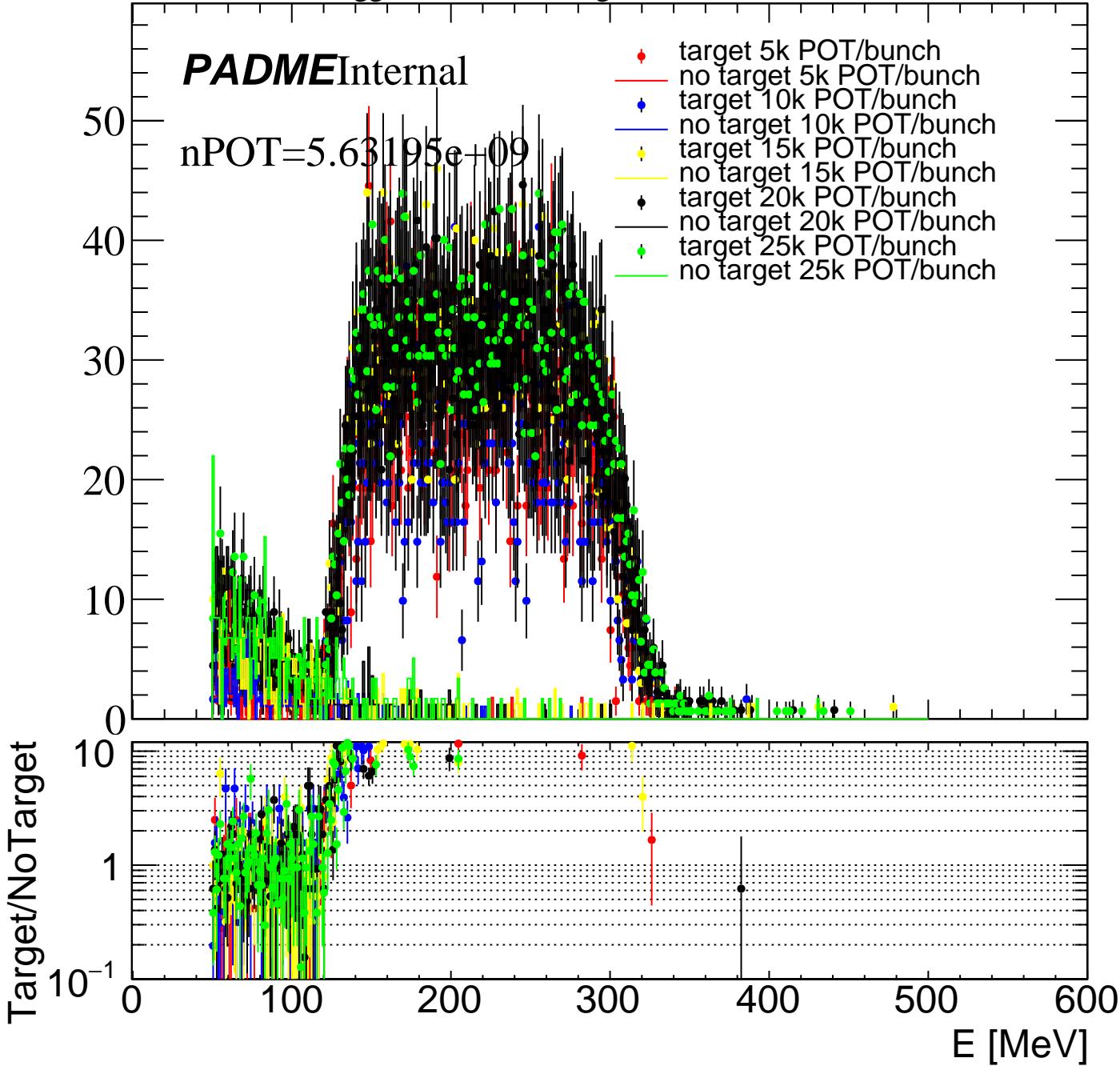
ECAL_Egg_10ns1CoGUnderPeakEThr90



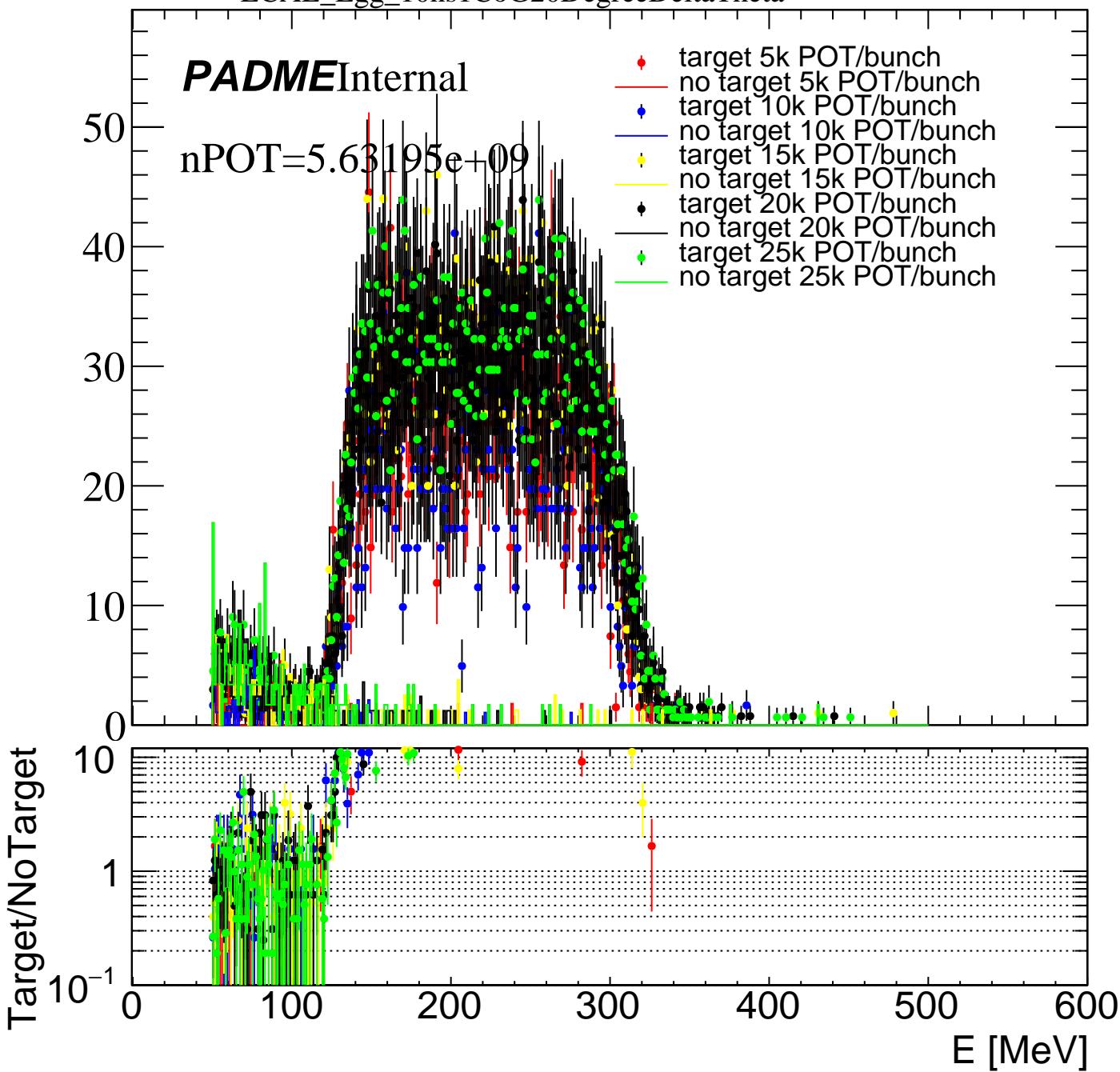
ECAL_Egg_10ns1CoGEThr90



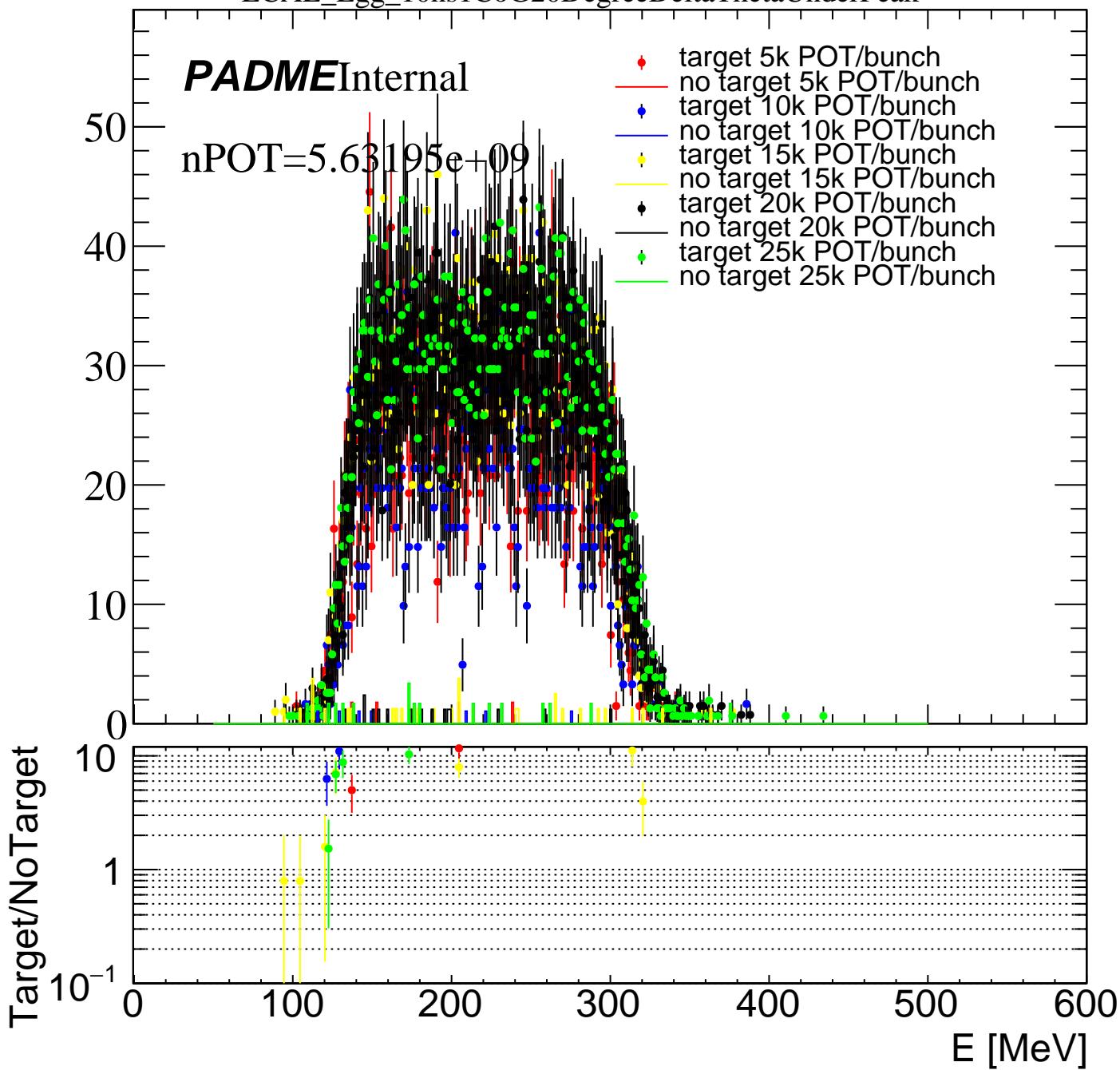
ECAL_Egg_10ns1CoG20Degree



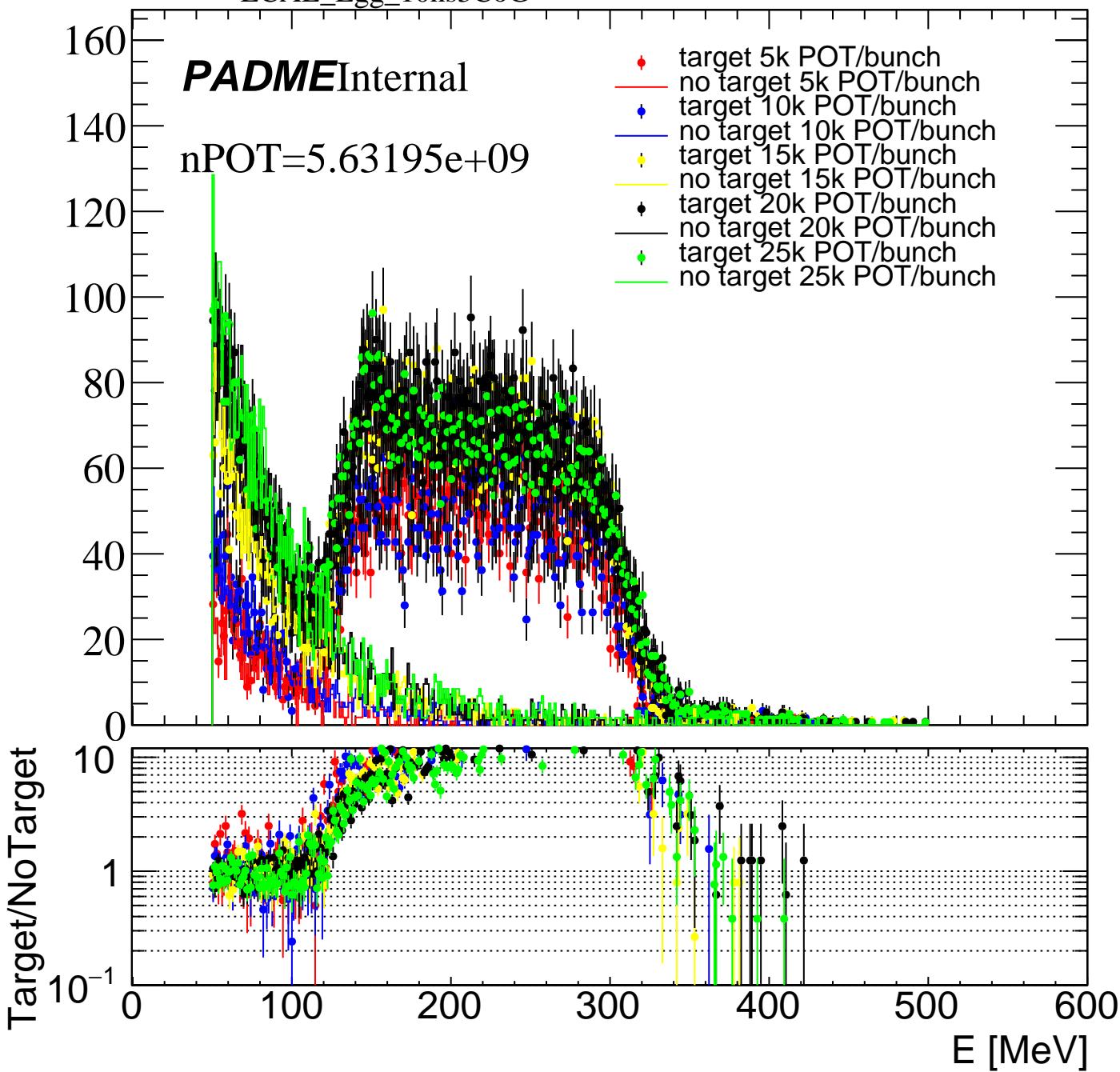
ECAL_Egg_10ns1CoG20DegreeDeltaTheta



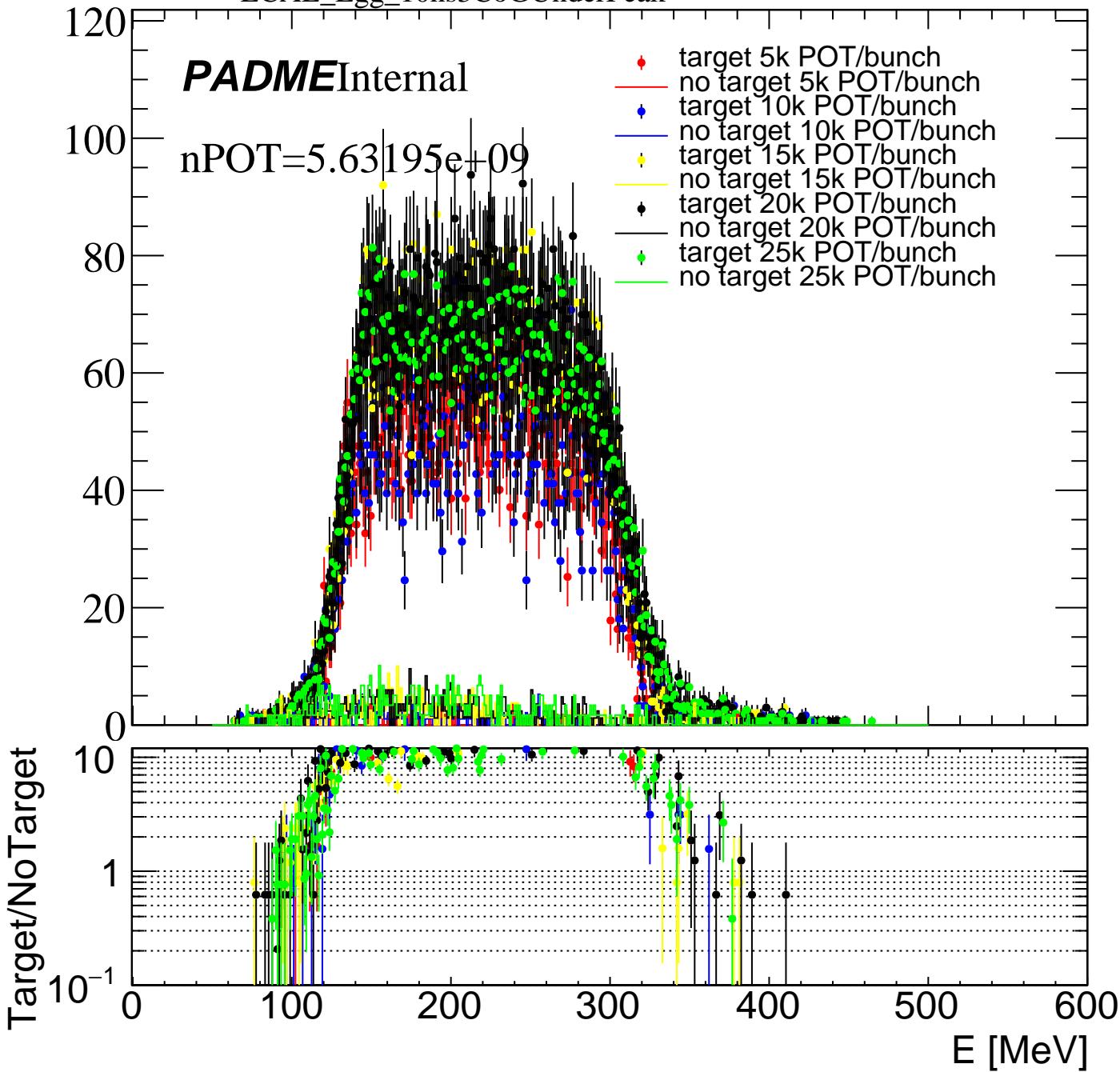
ECAL_Egg_10ns1CoG20DegreeDeltaThetaUnderPeak



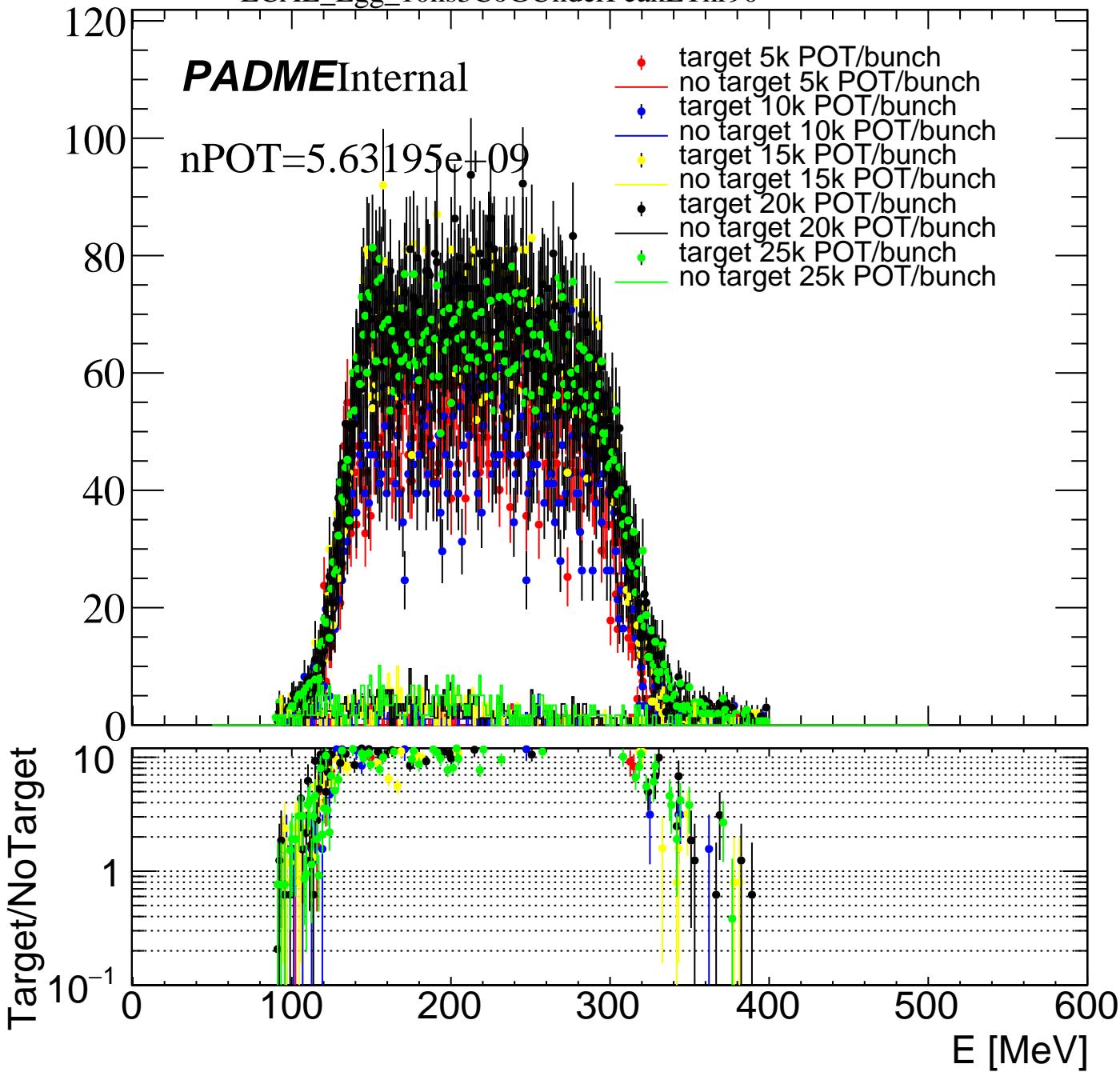
ECAL_Egg_10ns3CoG



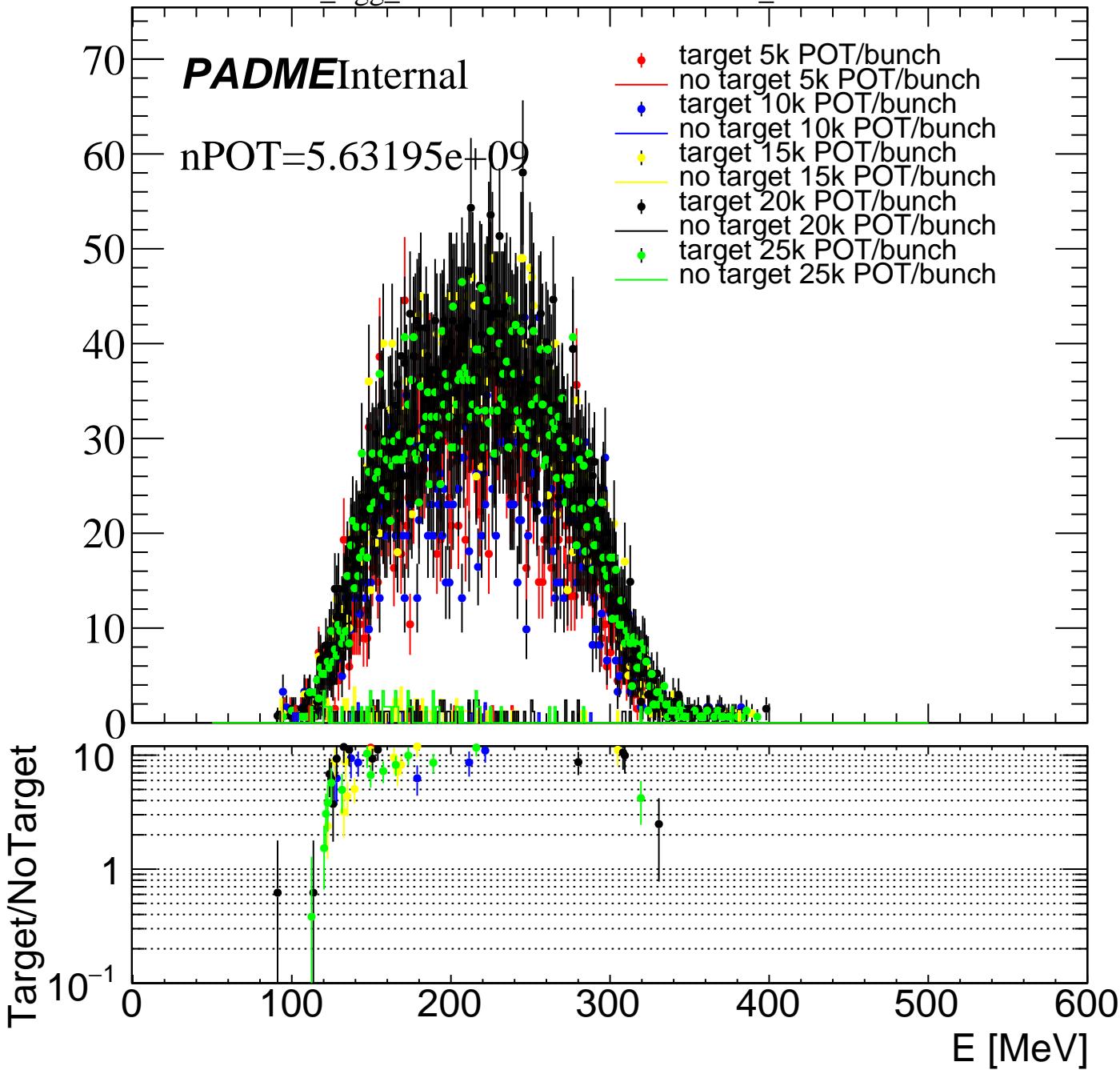
ECAL_Egg_10ns3CoGUnderPeak



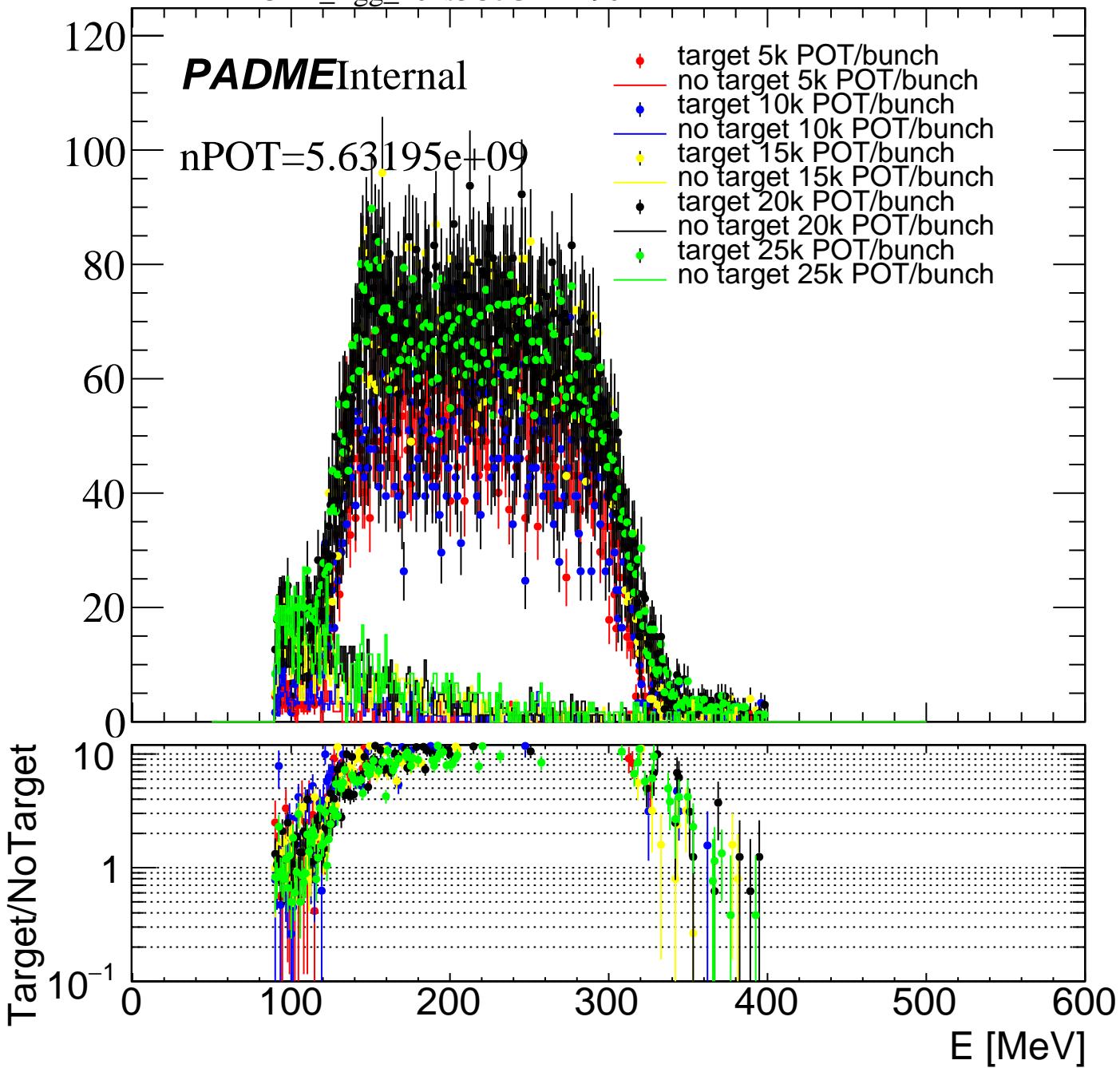
ECAL_Egg_10ns3CoGUnderPeakEThr90



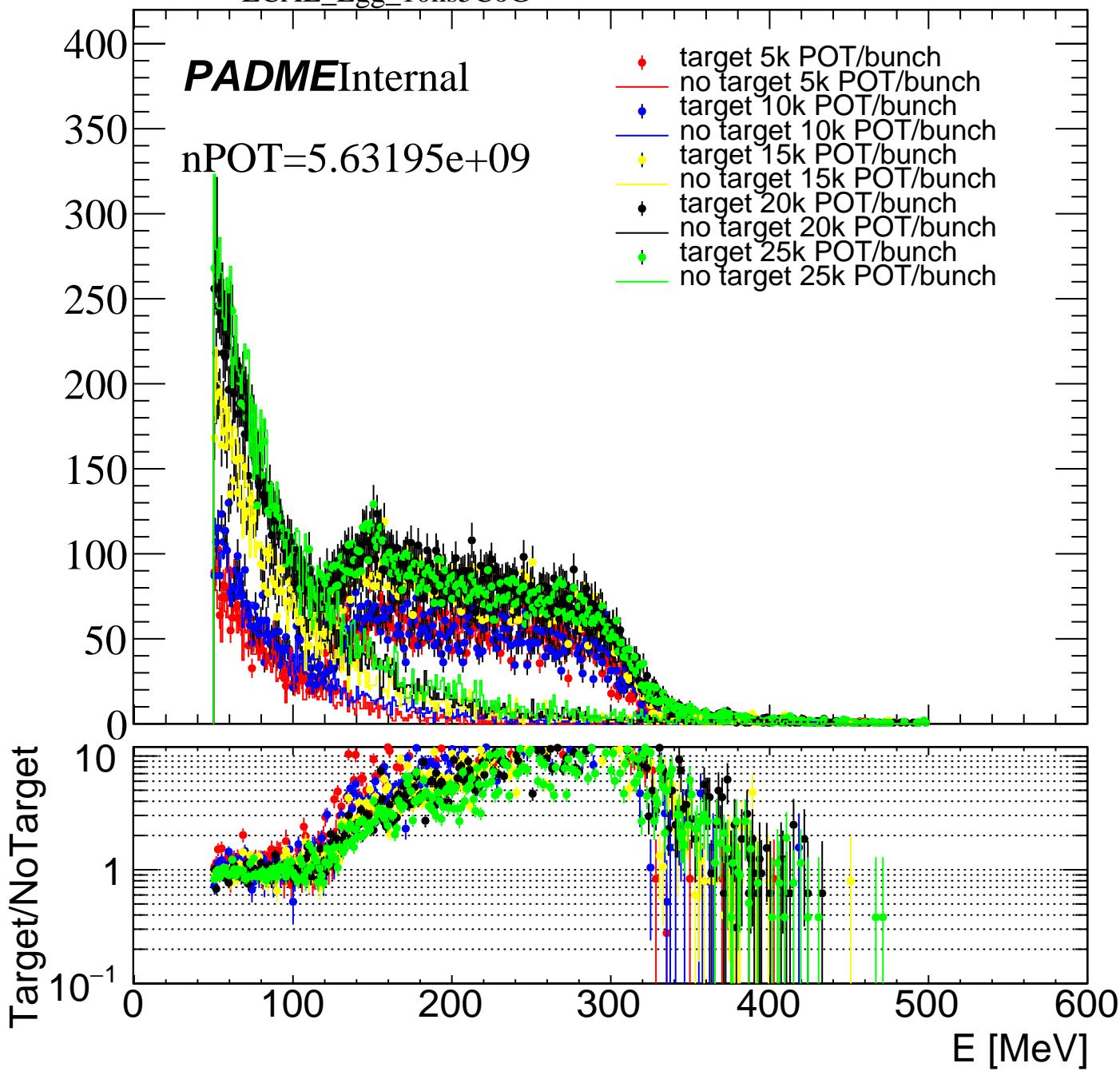
ECAL_Egg_10ns3CoGUnderPeakEThr90_FRY



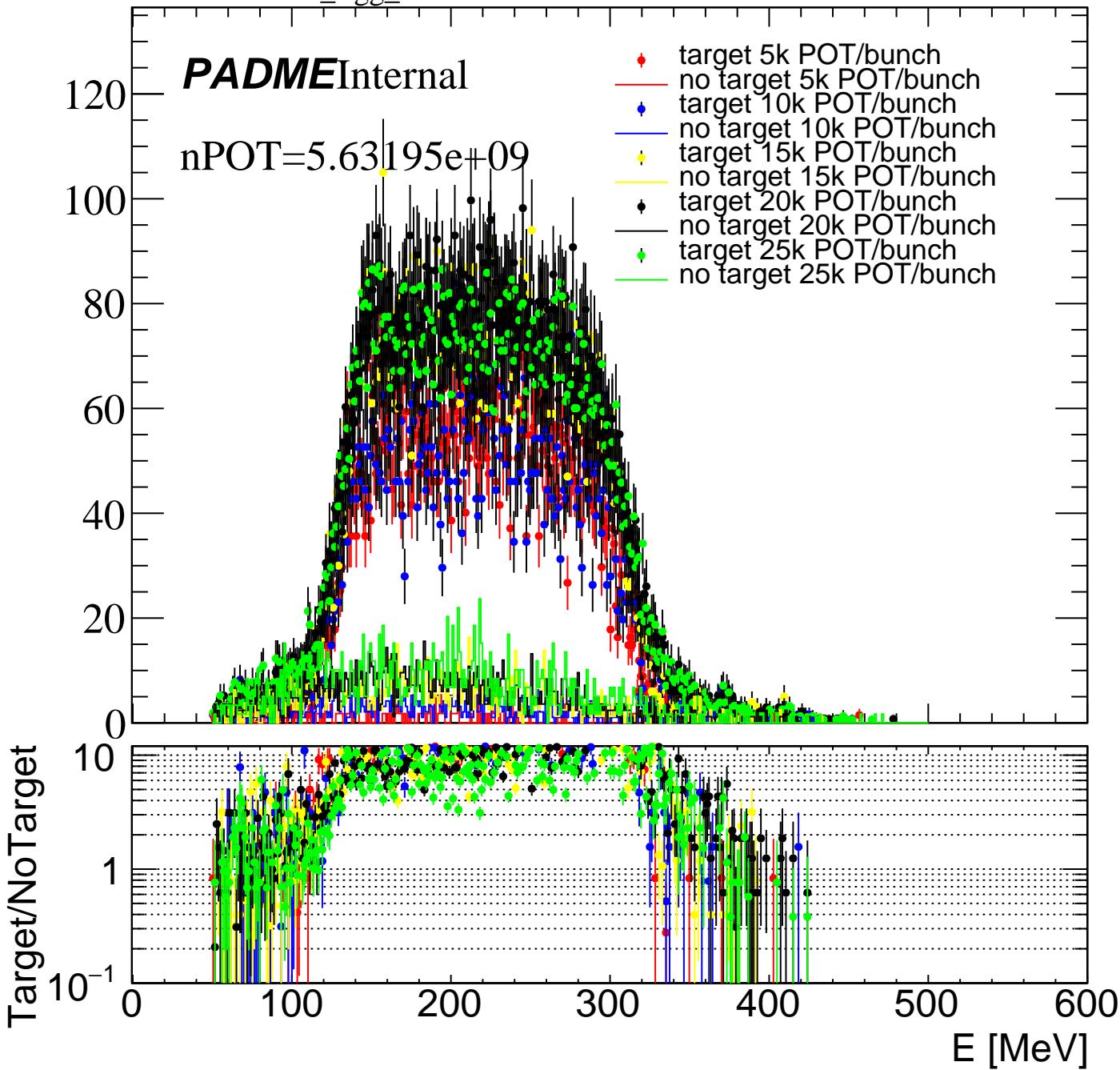
ECAL_Egg_10ns3CoGEThr90



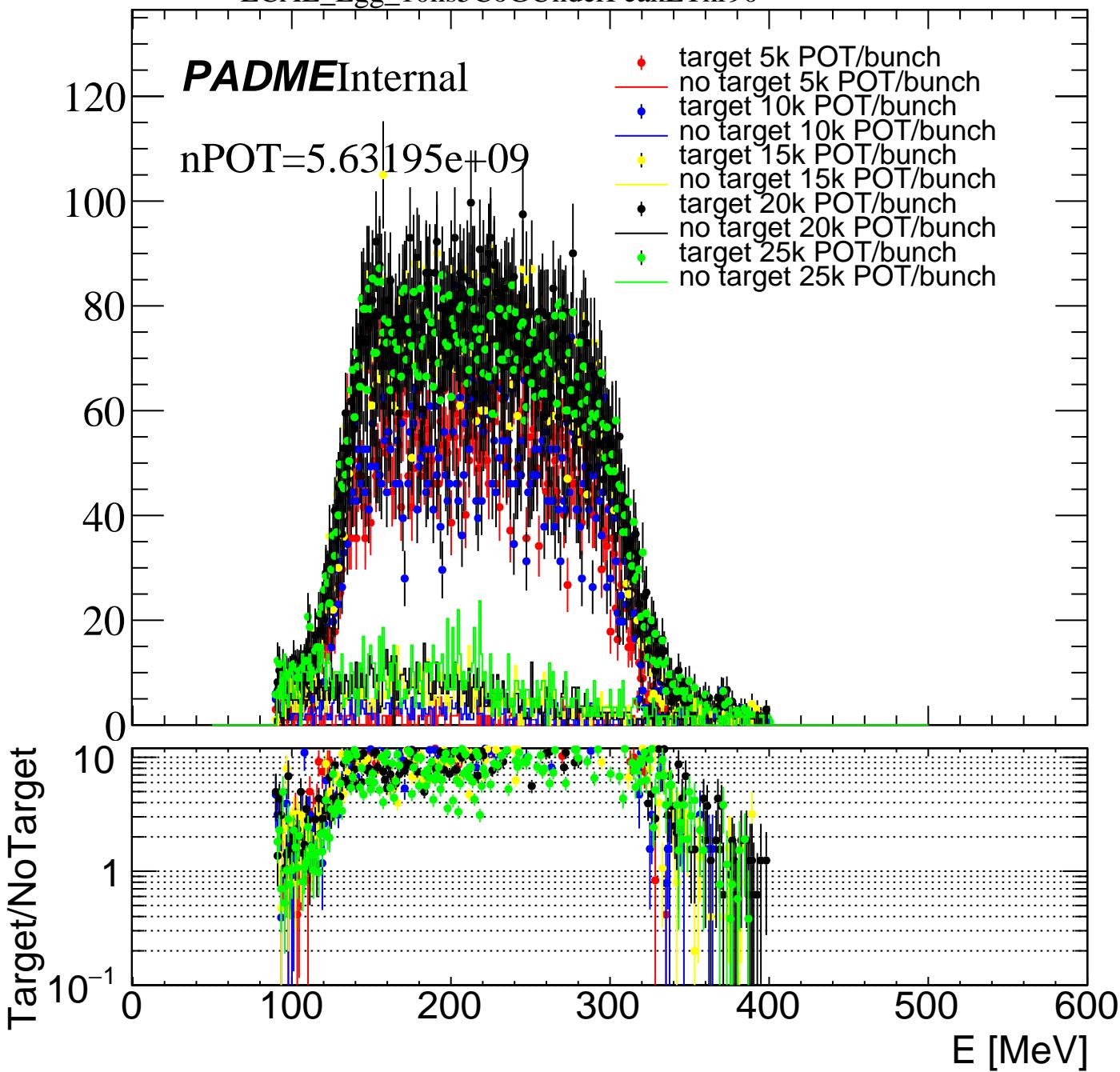
ECAL_Egg_10ns5CoG



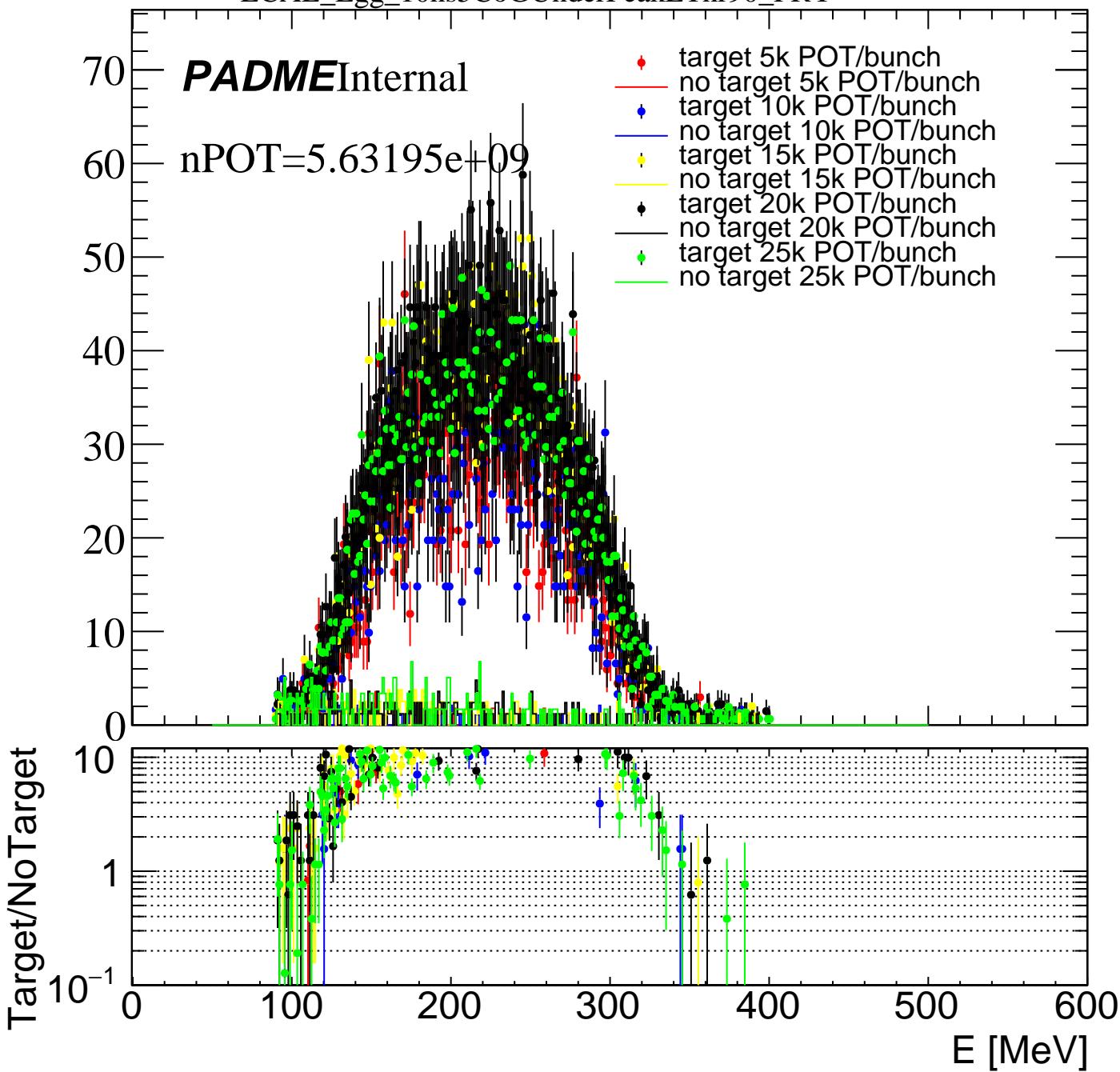
ECAL_Egg_10ns5CoGUnderPeak



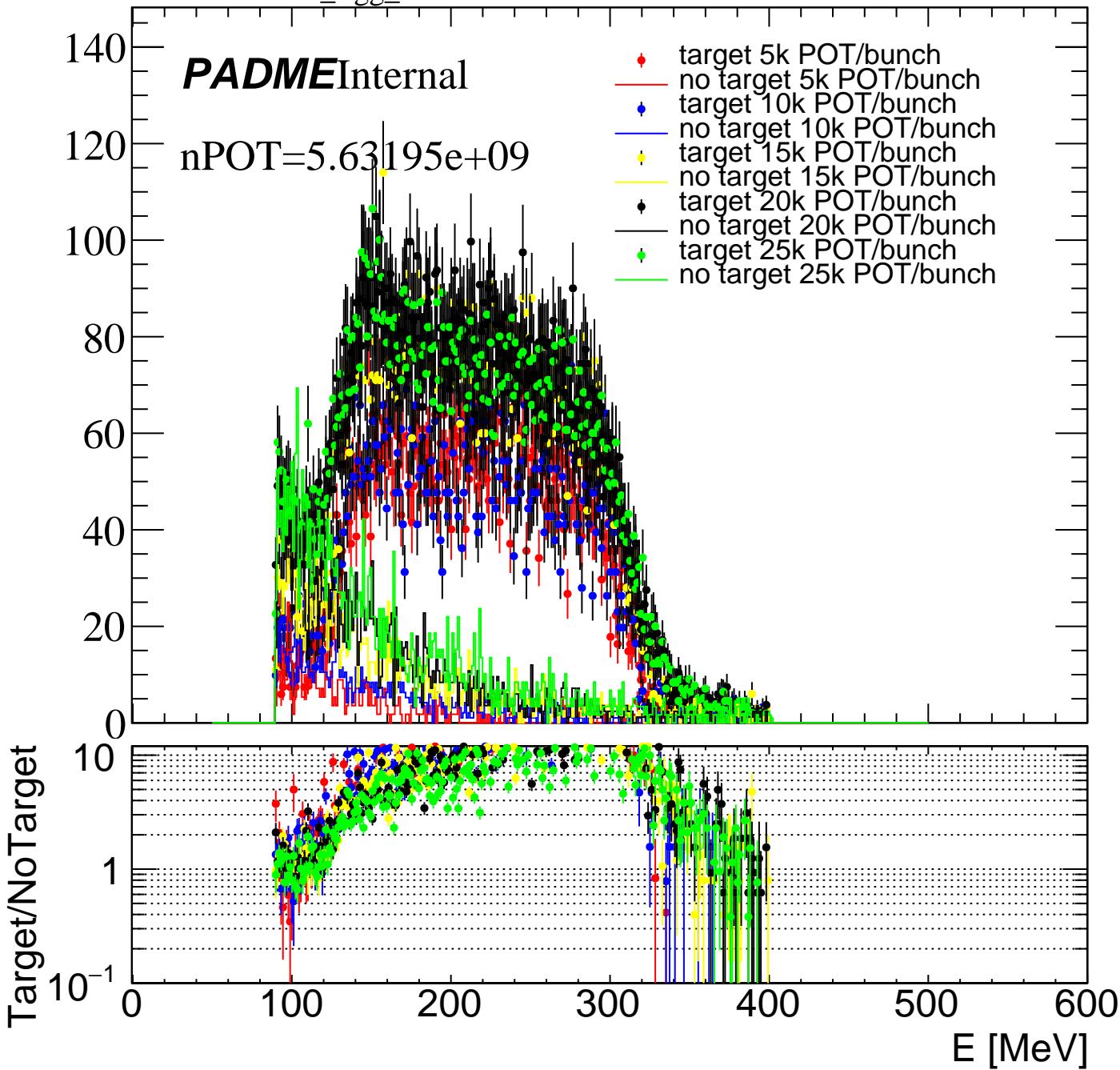
ECAL_Egg_10ns5CoGUnderPeakEThr90



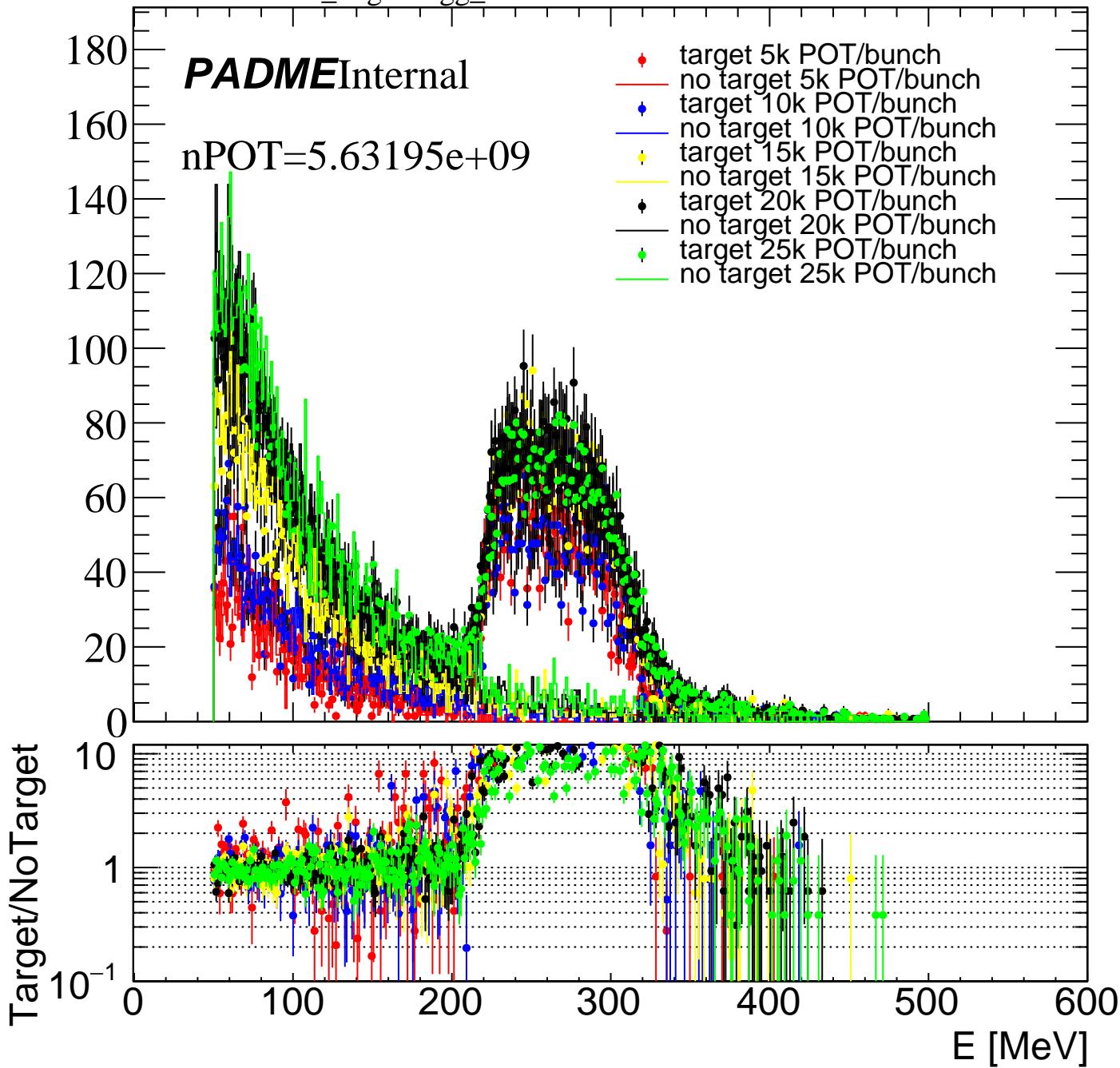
ECAL_Egg_10ns5CoGUnderPeakEThr90_FRY

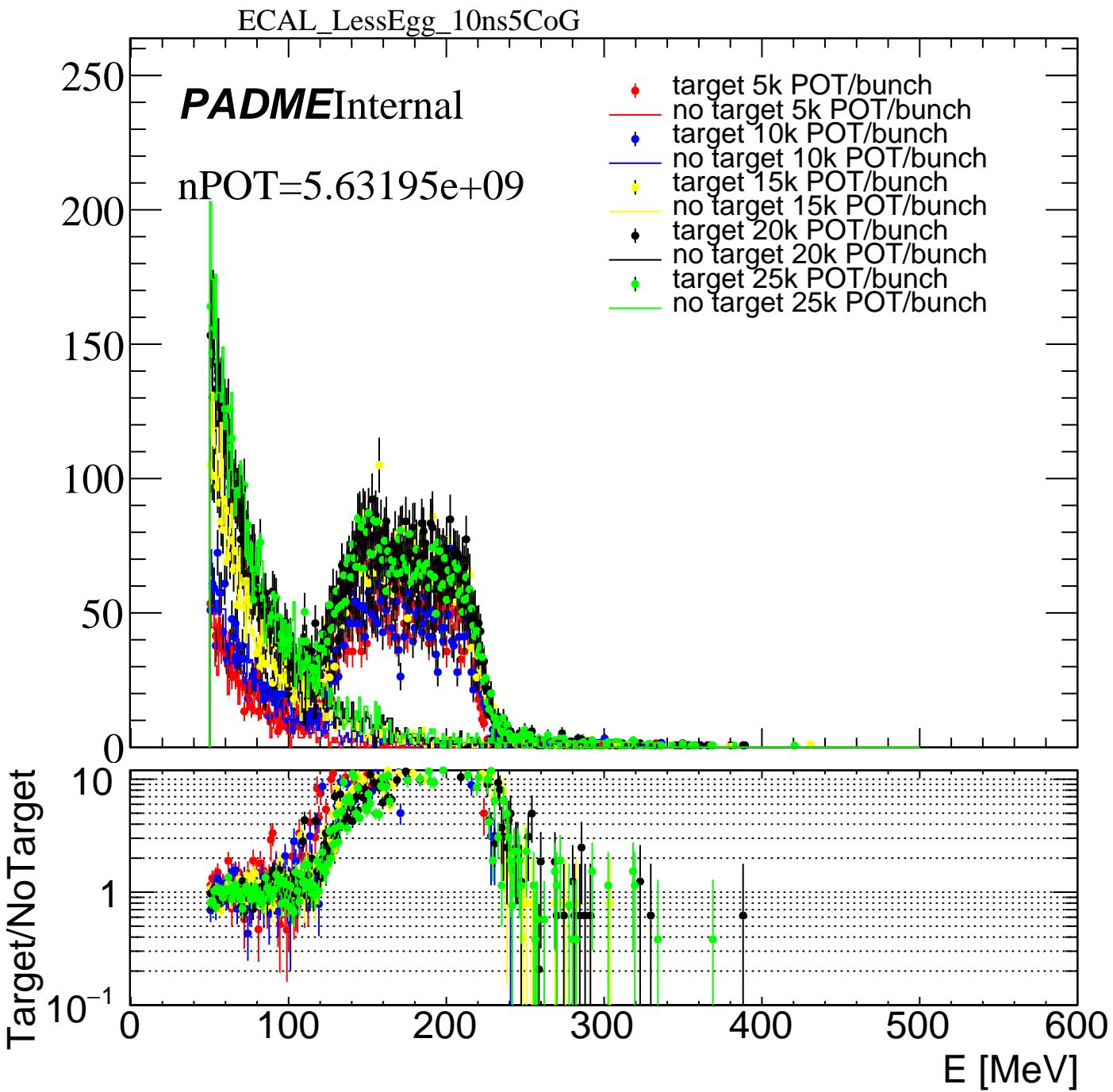


ECAL_Egg_10ns5CoGEThr90

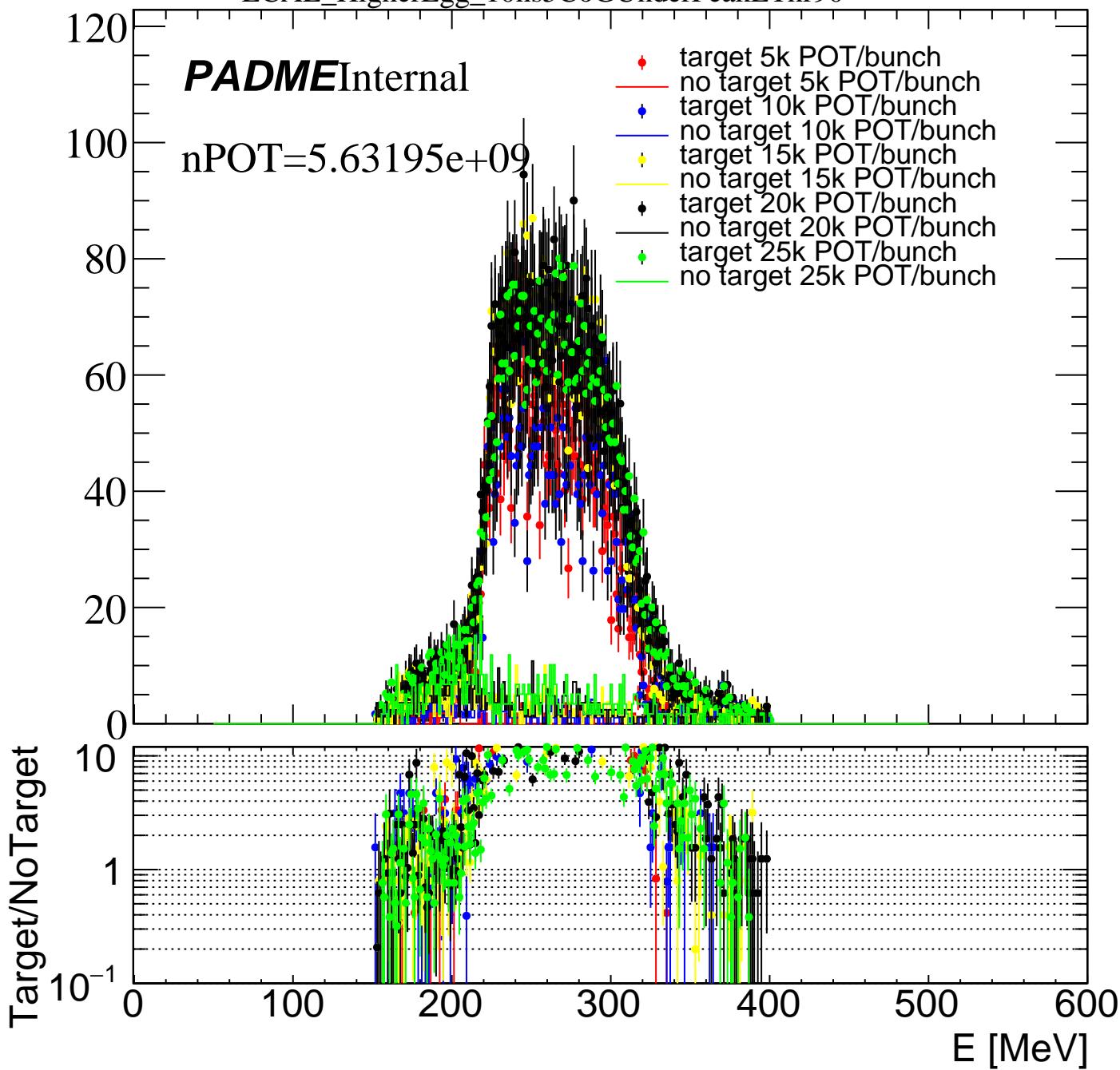


ECAL_HigherEgg_10ns5CoG

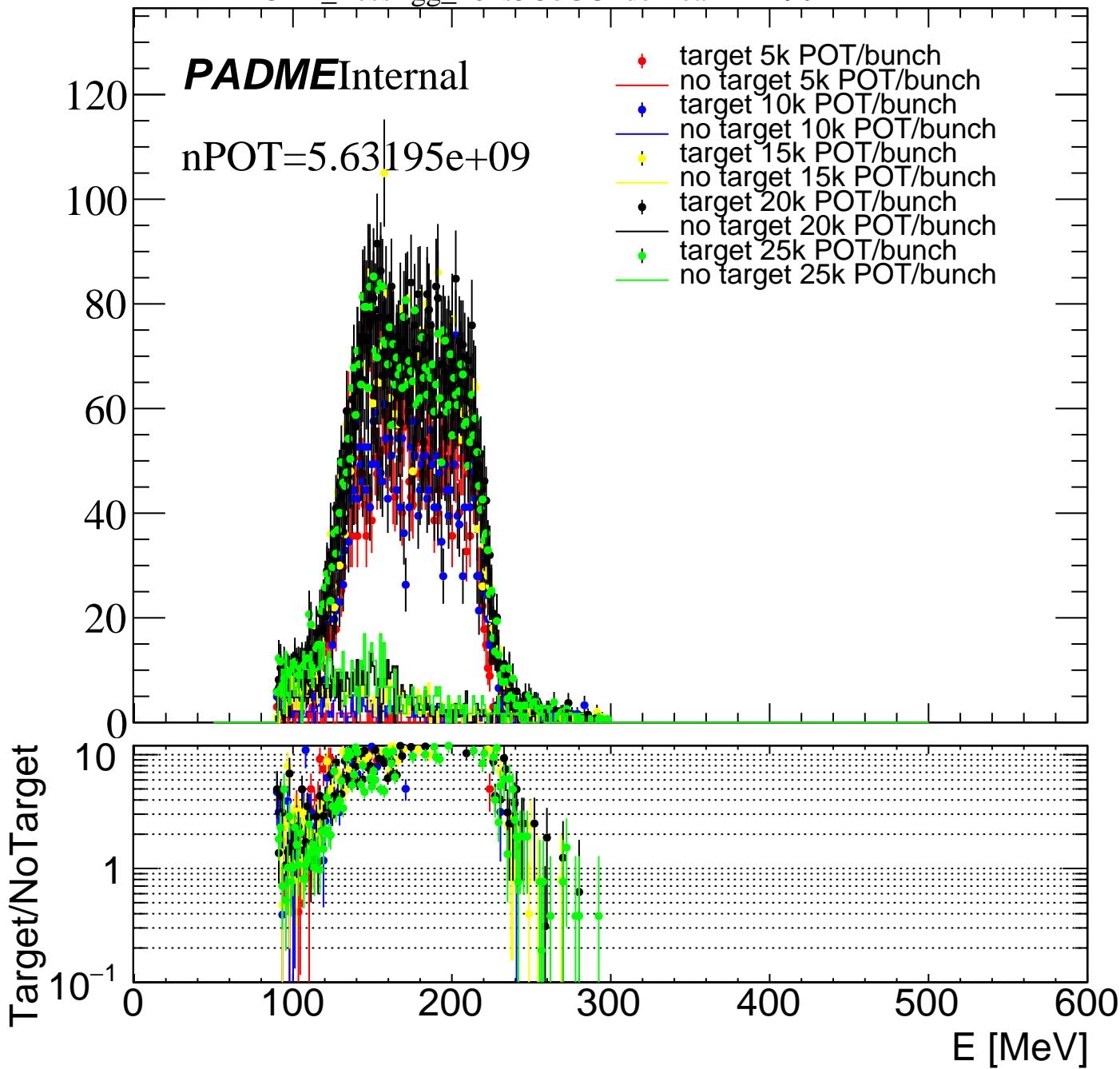


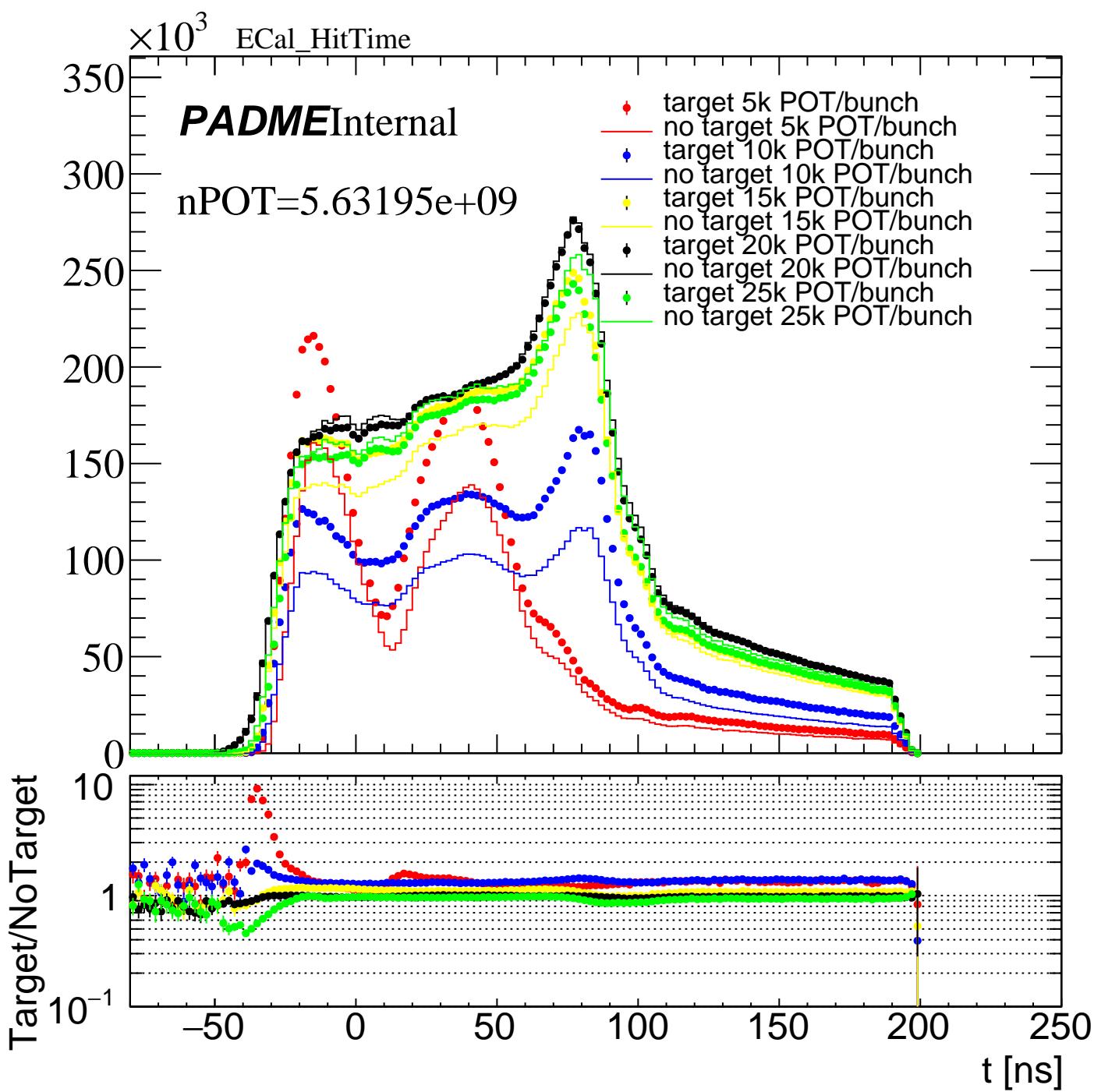


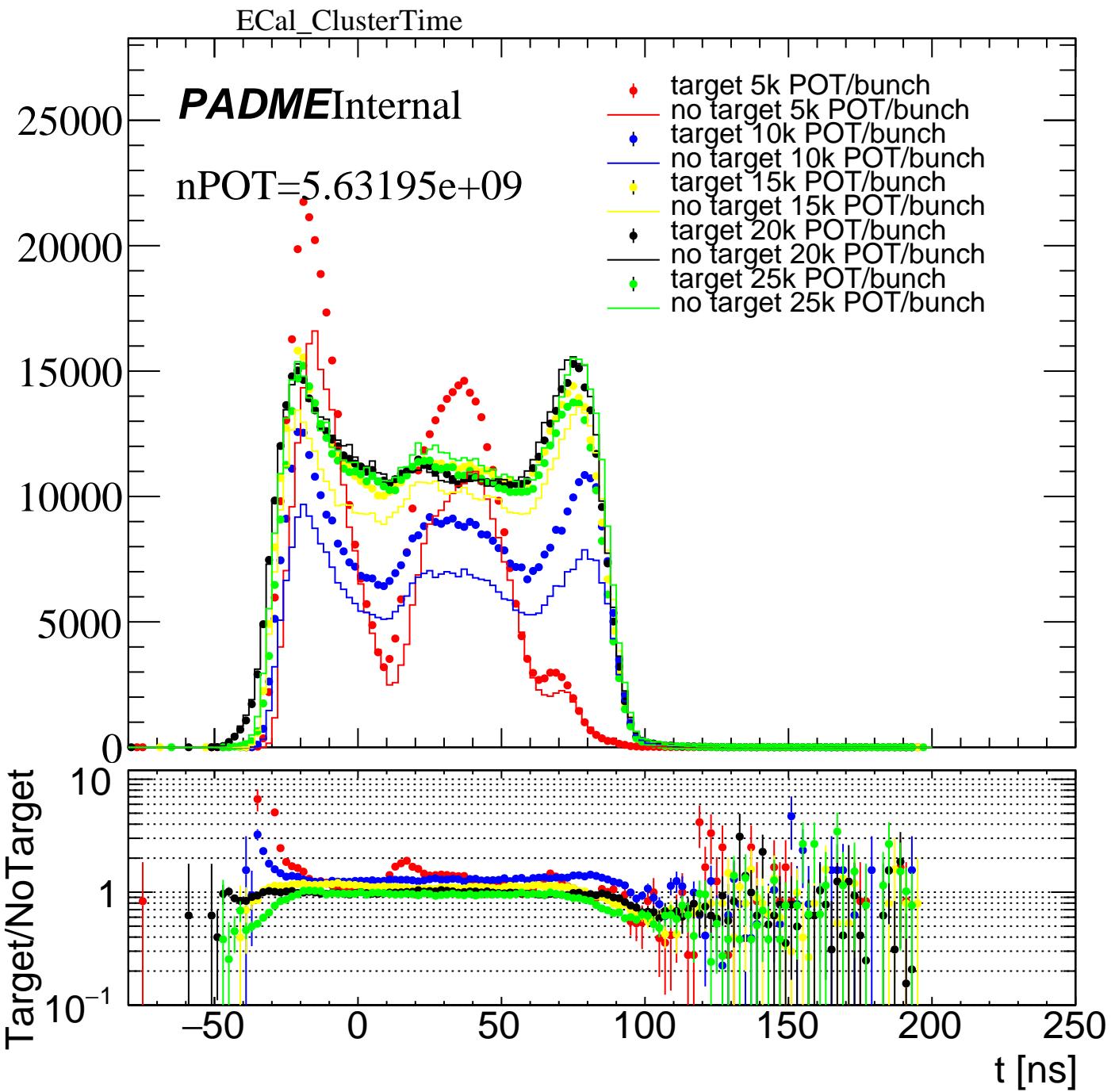
ECAL_HigherEgg_10ns5CoGUnderPeakEThr90



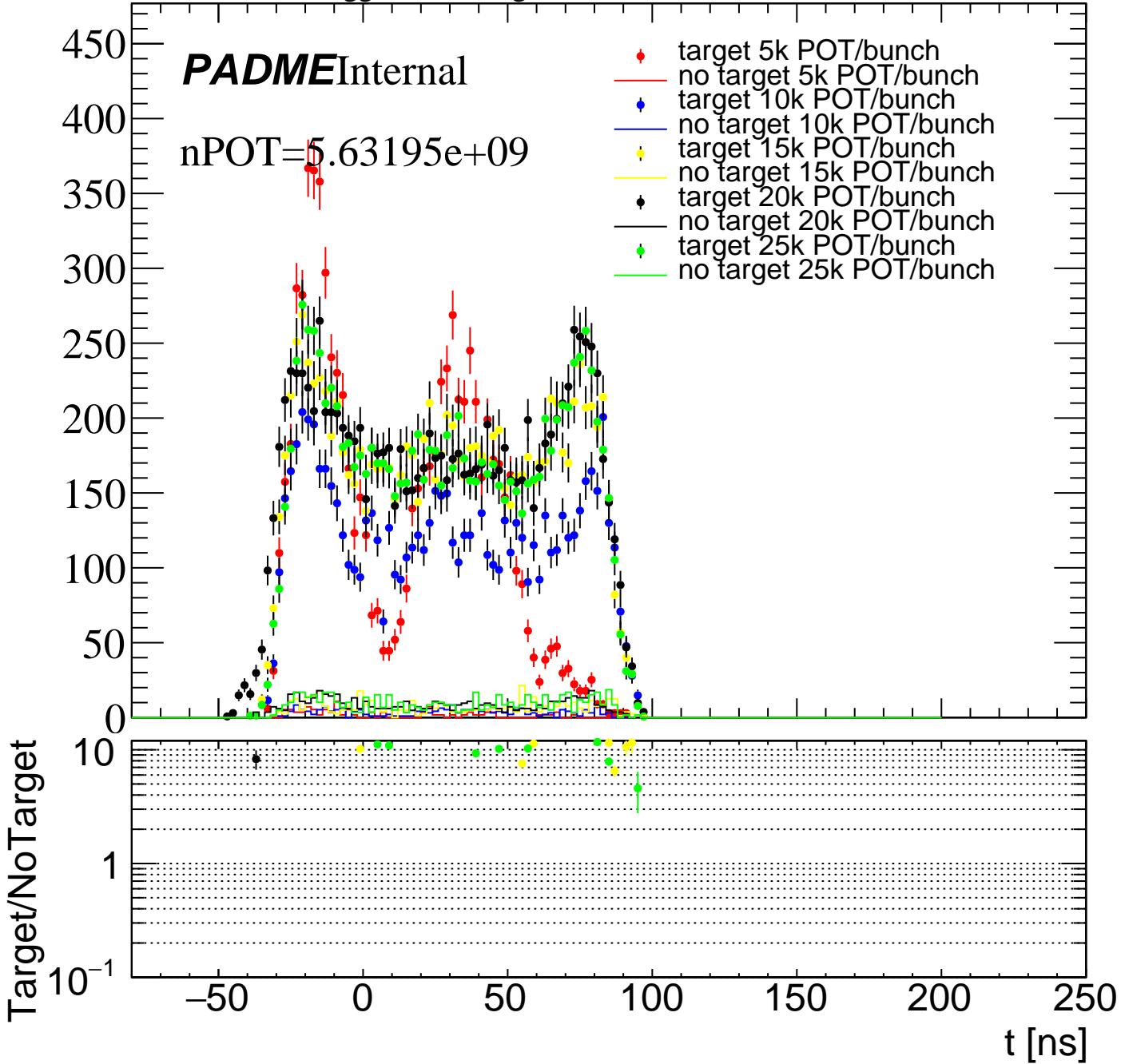
ECAL_LessEgg_10ns5CoGUnderPeakEThr90



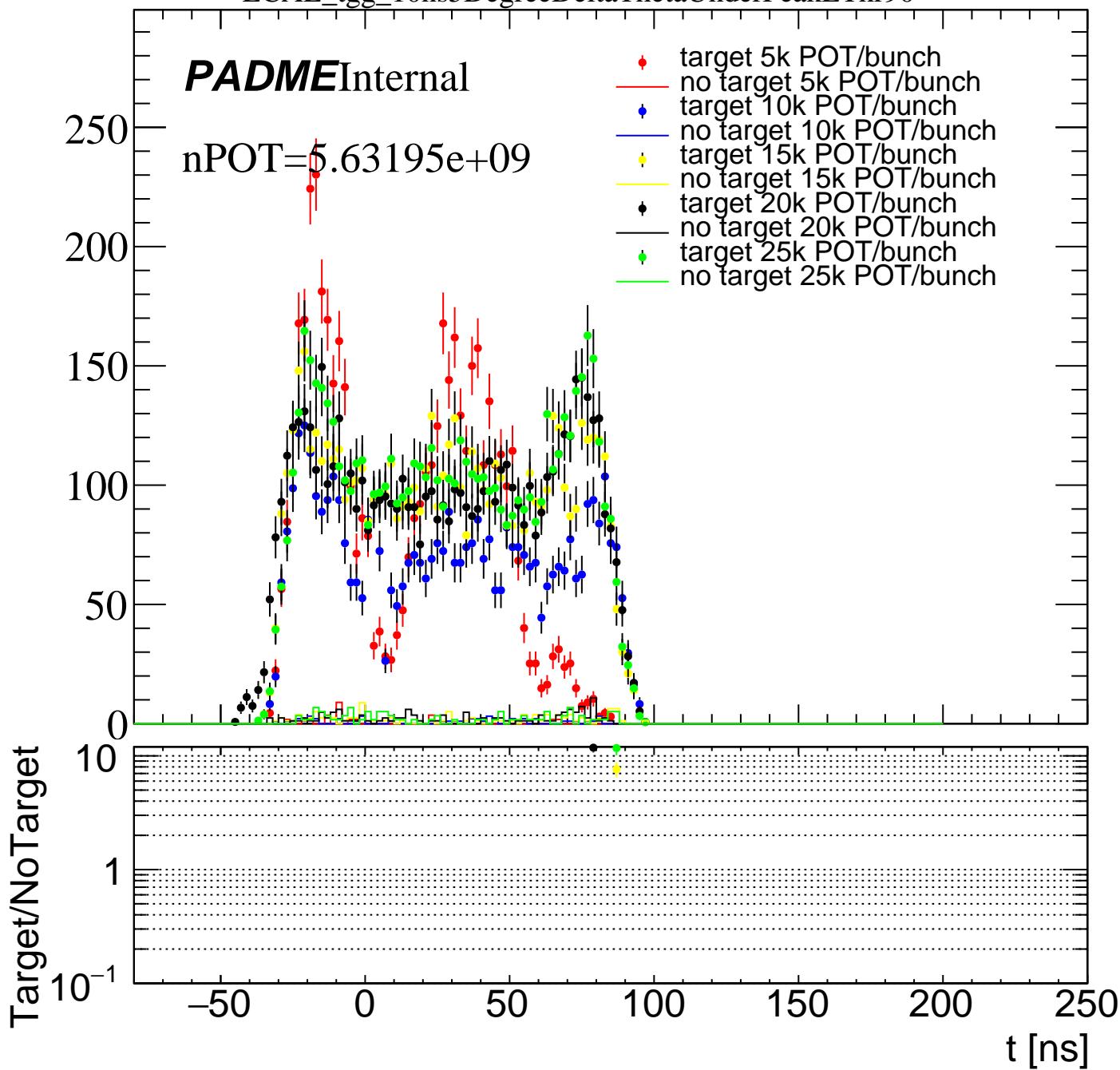


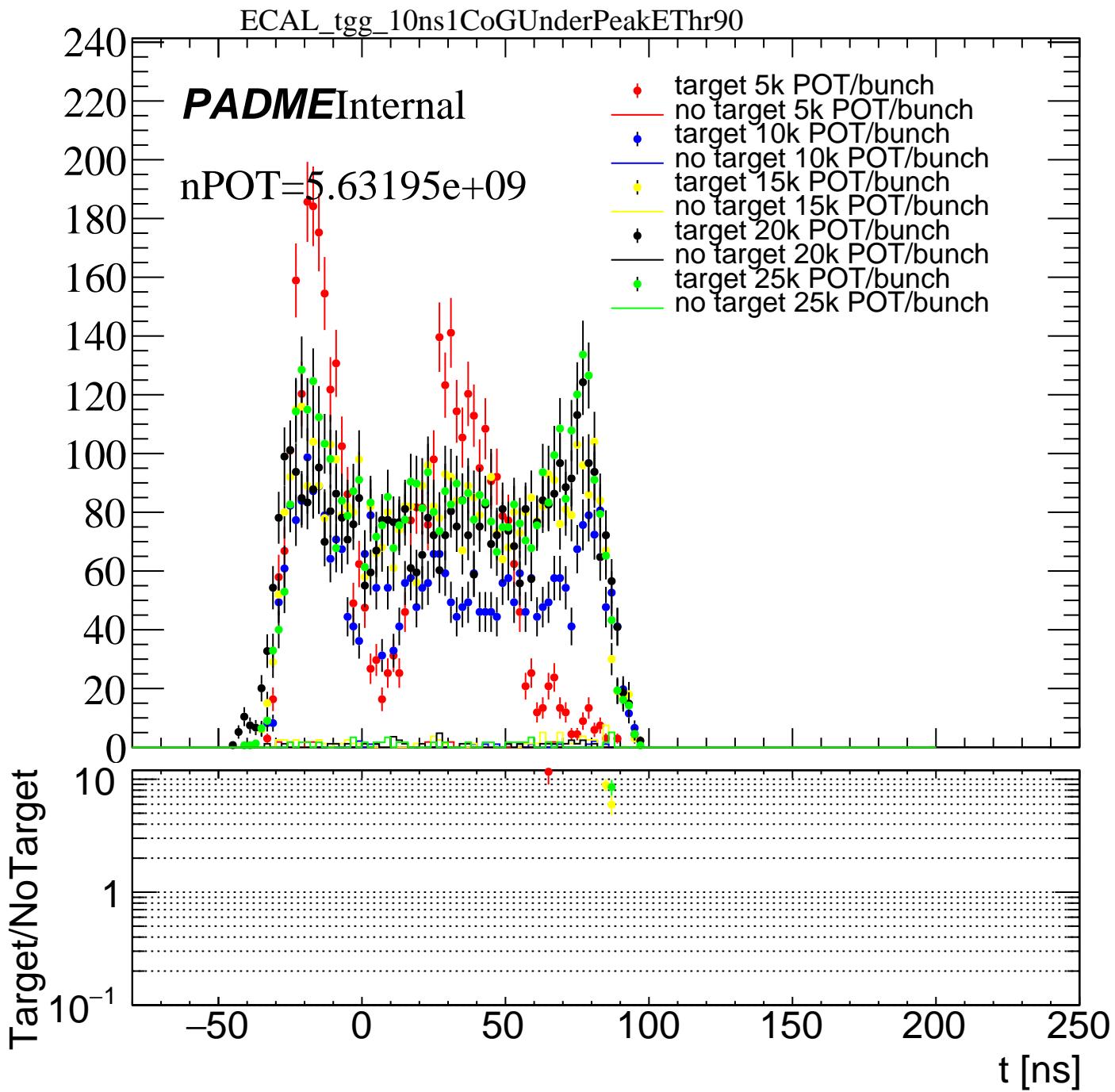


ECAL_tgg_10ns20DegreeDeltaThetaUnderPeakEThr90

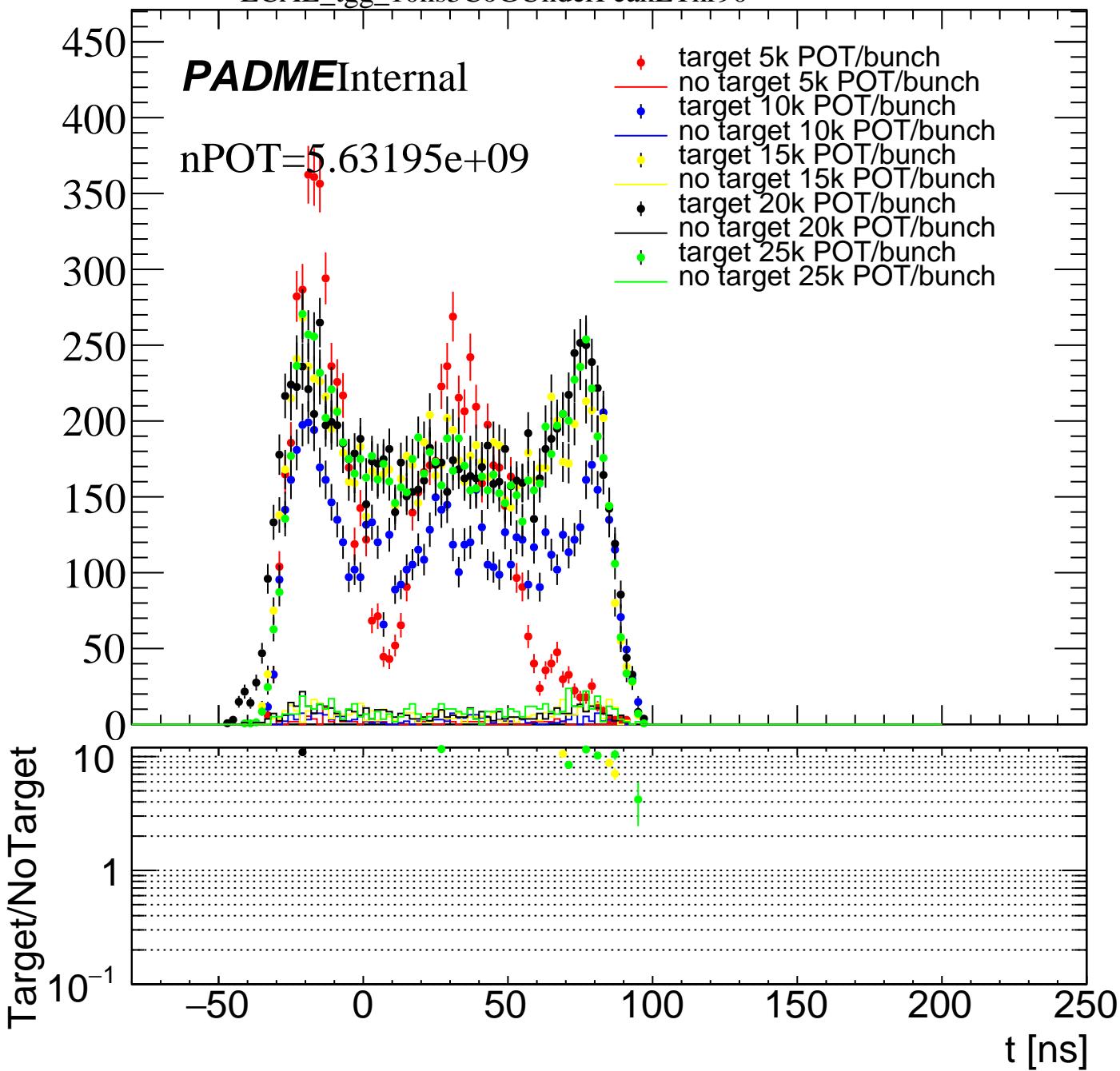


ECAL_tgg_10ns5DegreeDeltaThetaUnderPeakEThr90

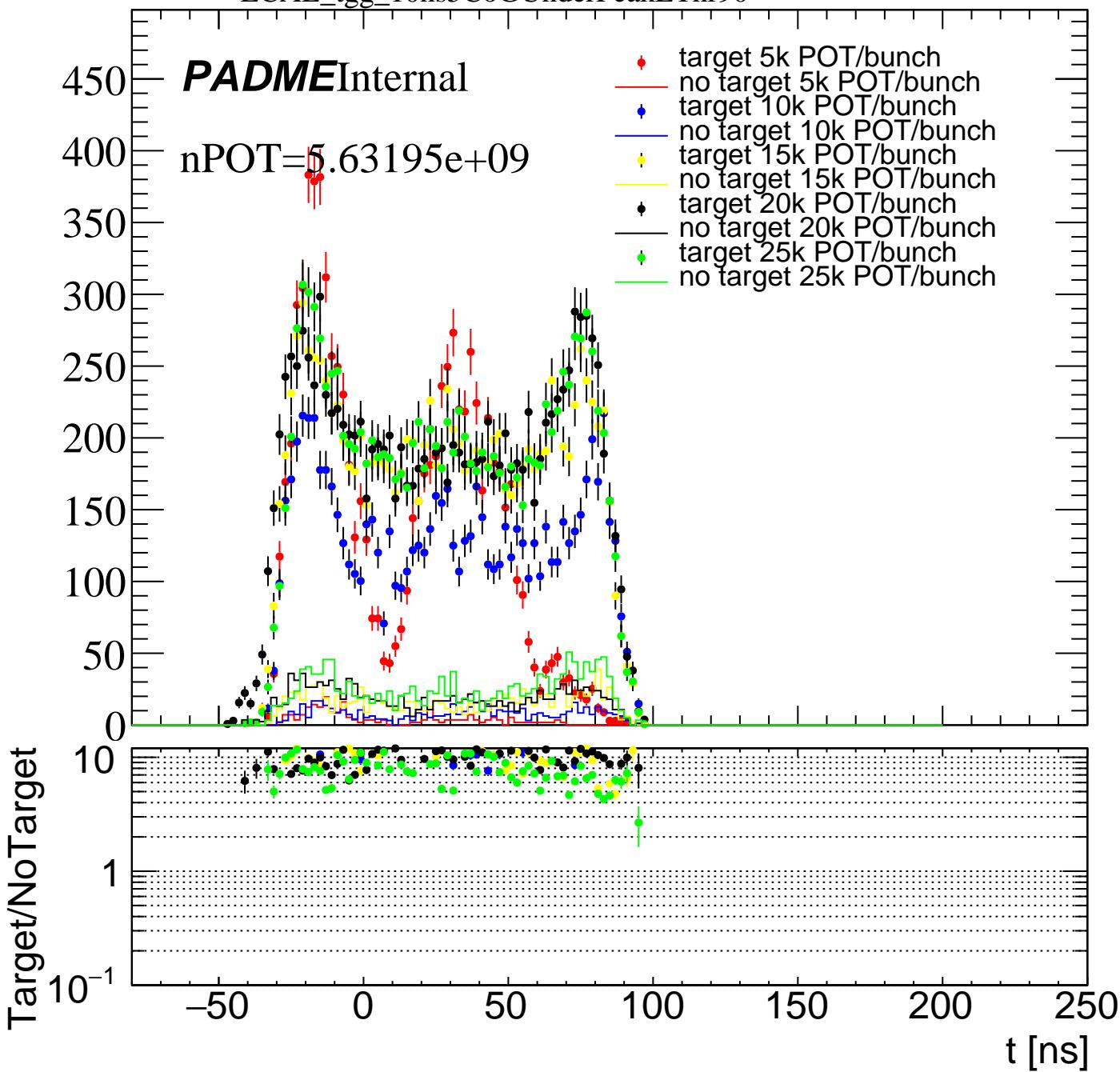


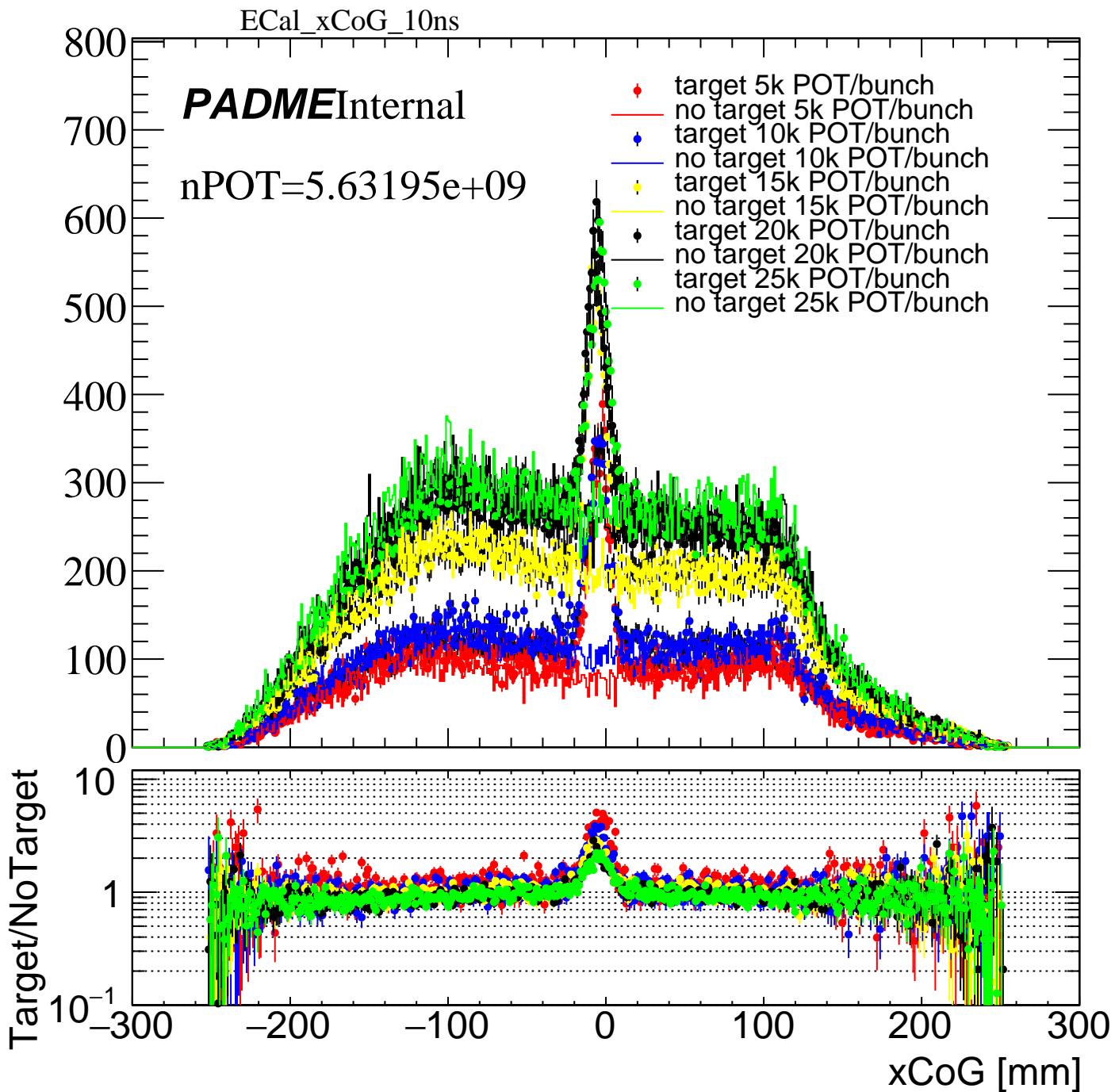


ECAL_tgg_10ns3CoGUnderPeakEThr90

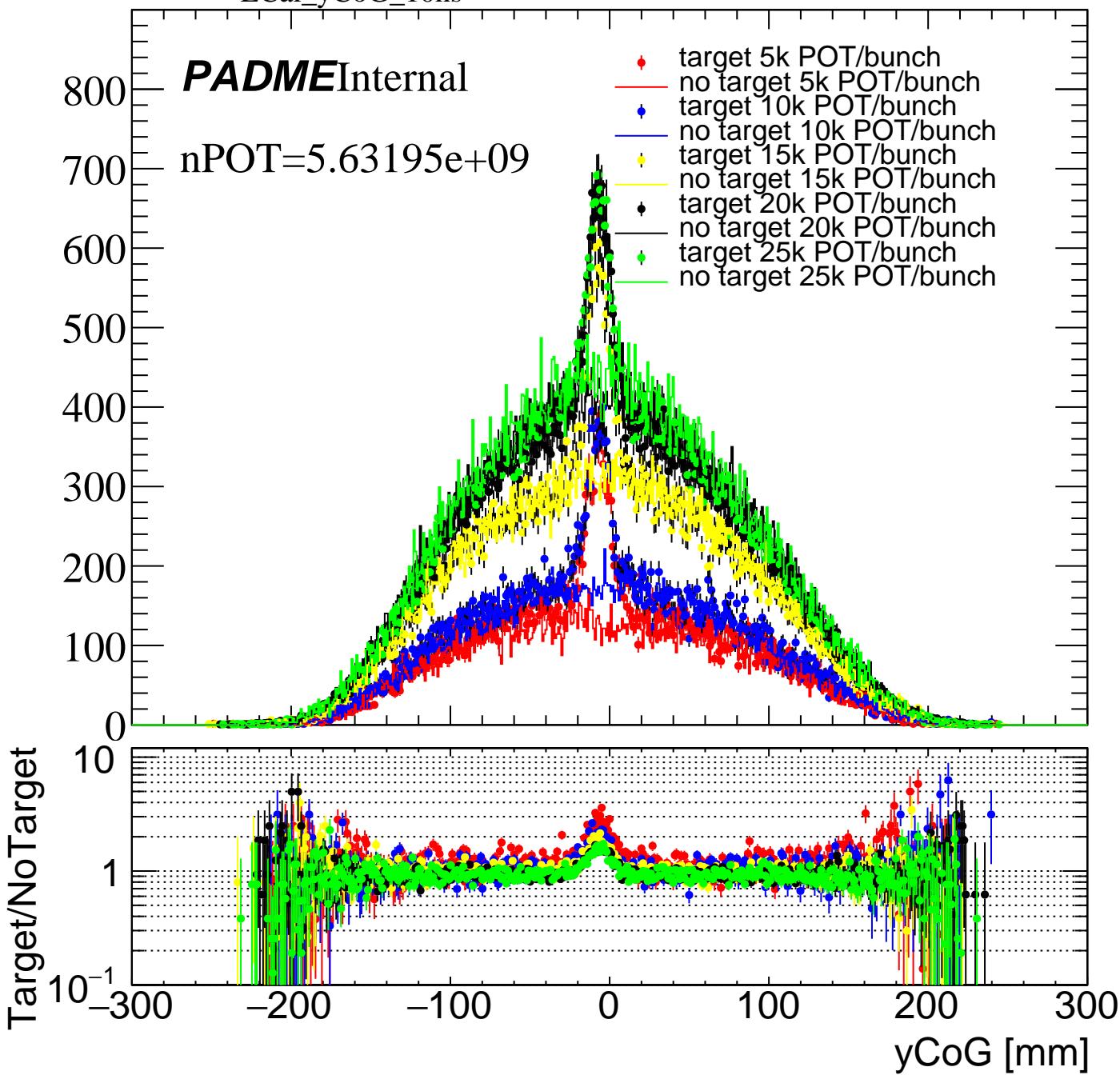


ECAL_tgg_10ns5CoGUnderPeakEThr90

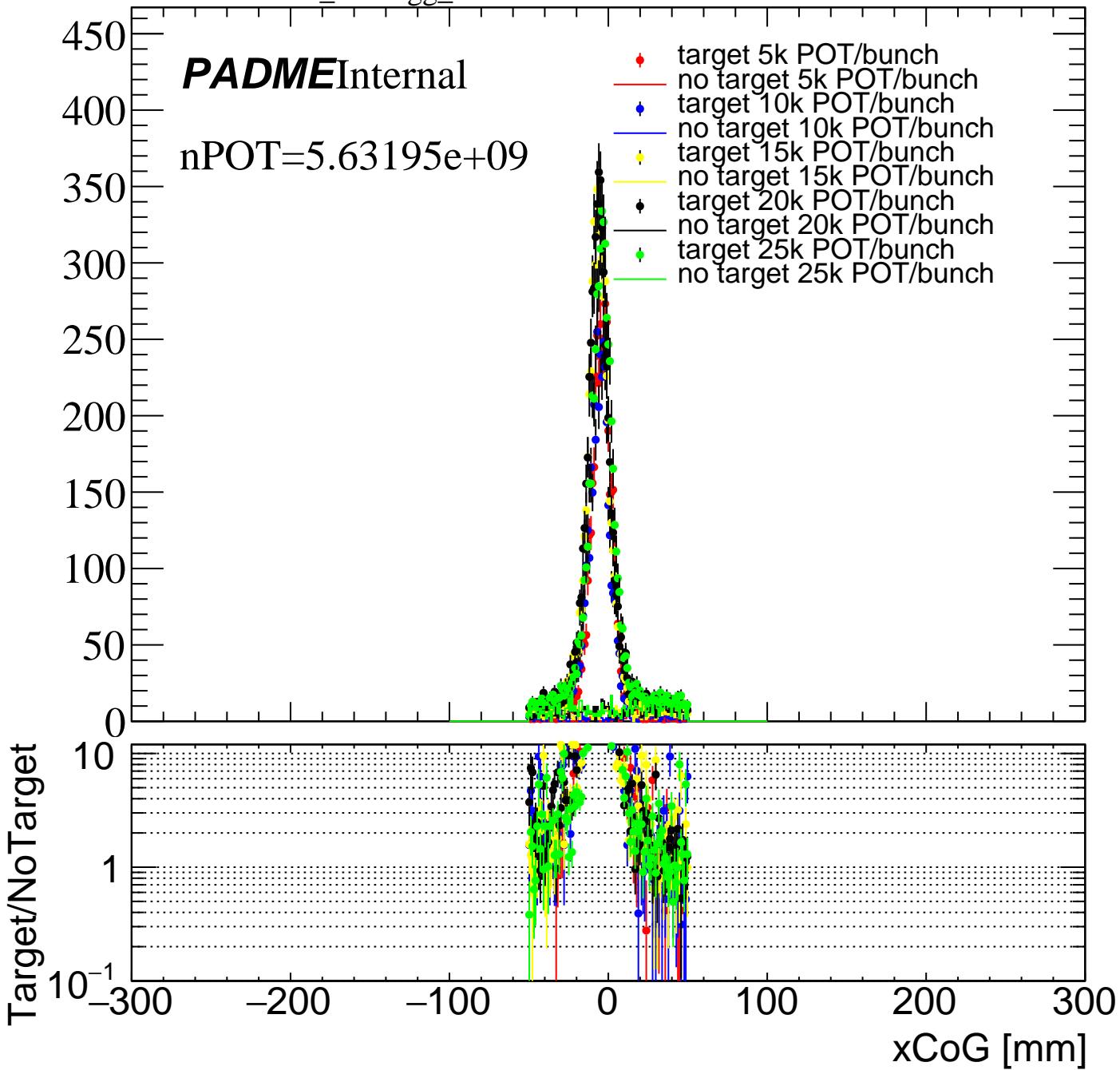


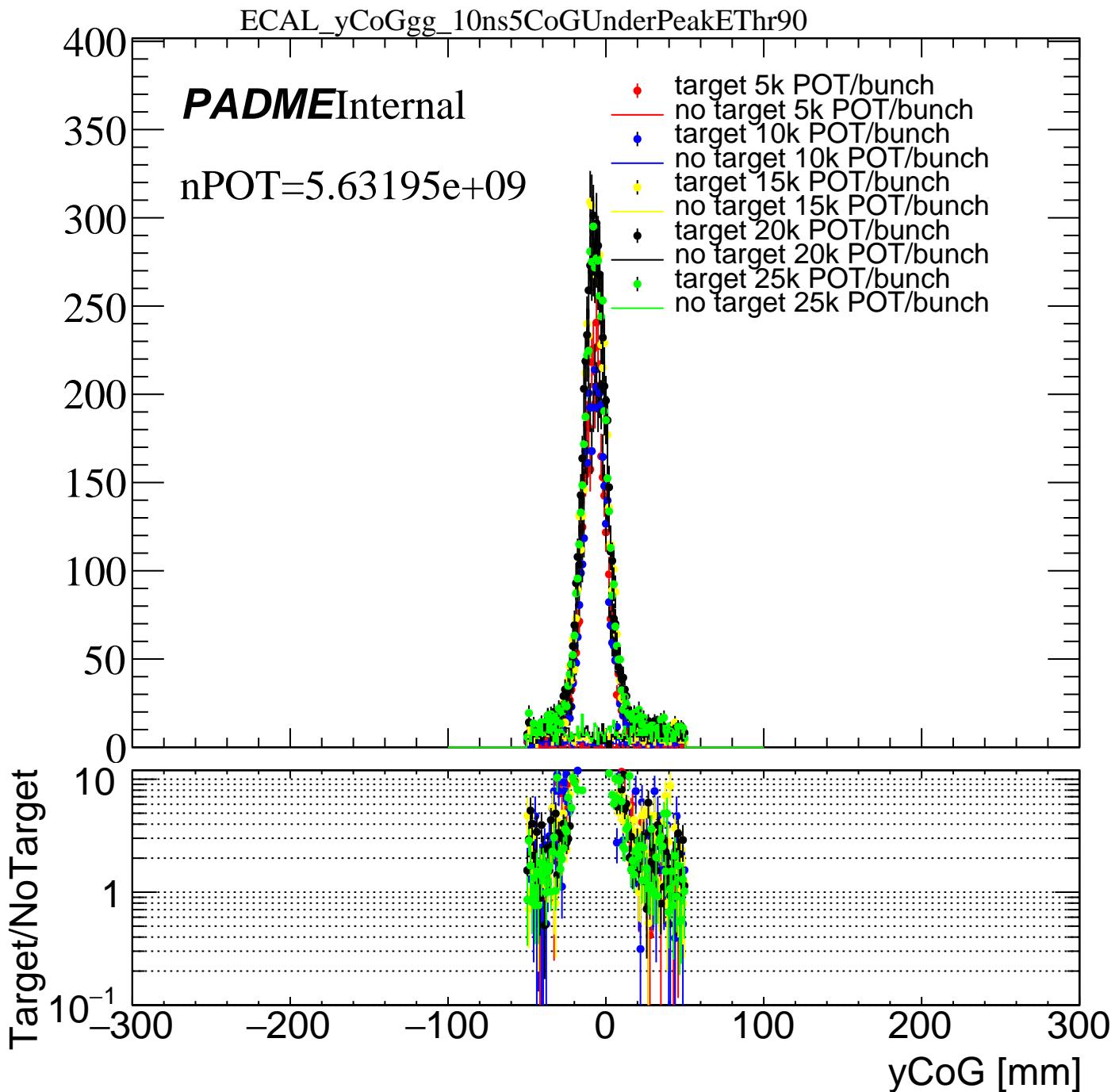


ECal_yCoG_10ns

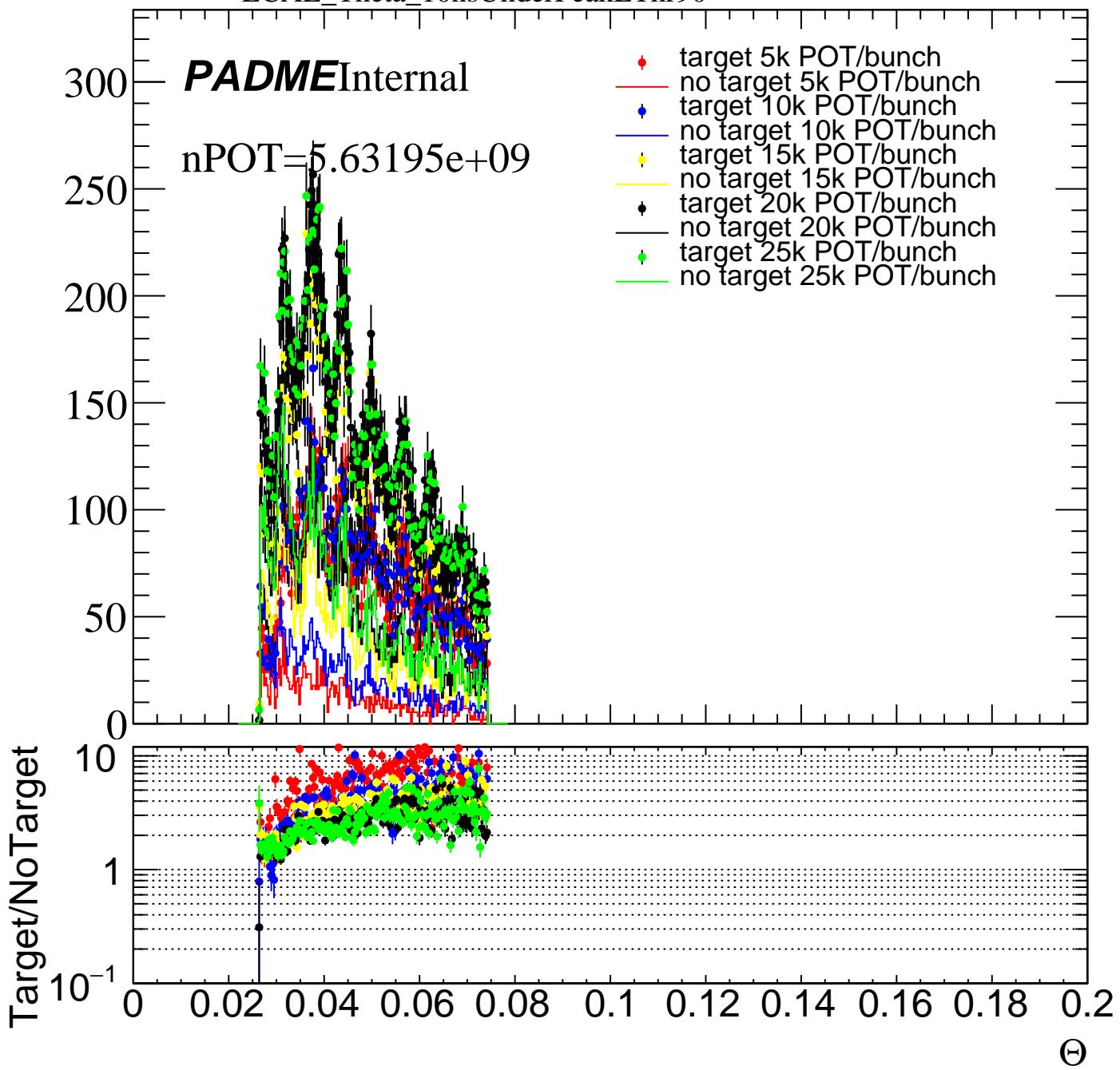


ECAL_xCoGgg_10ns5CoGUnderPeakEThr90

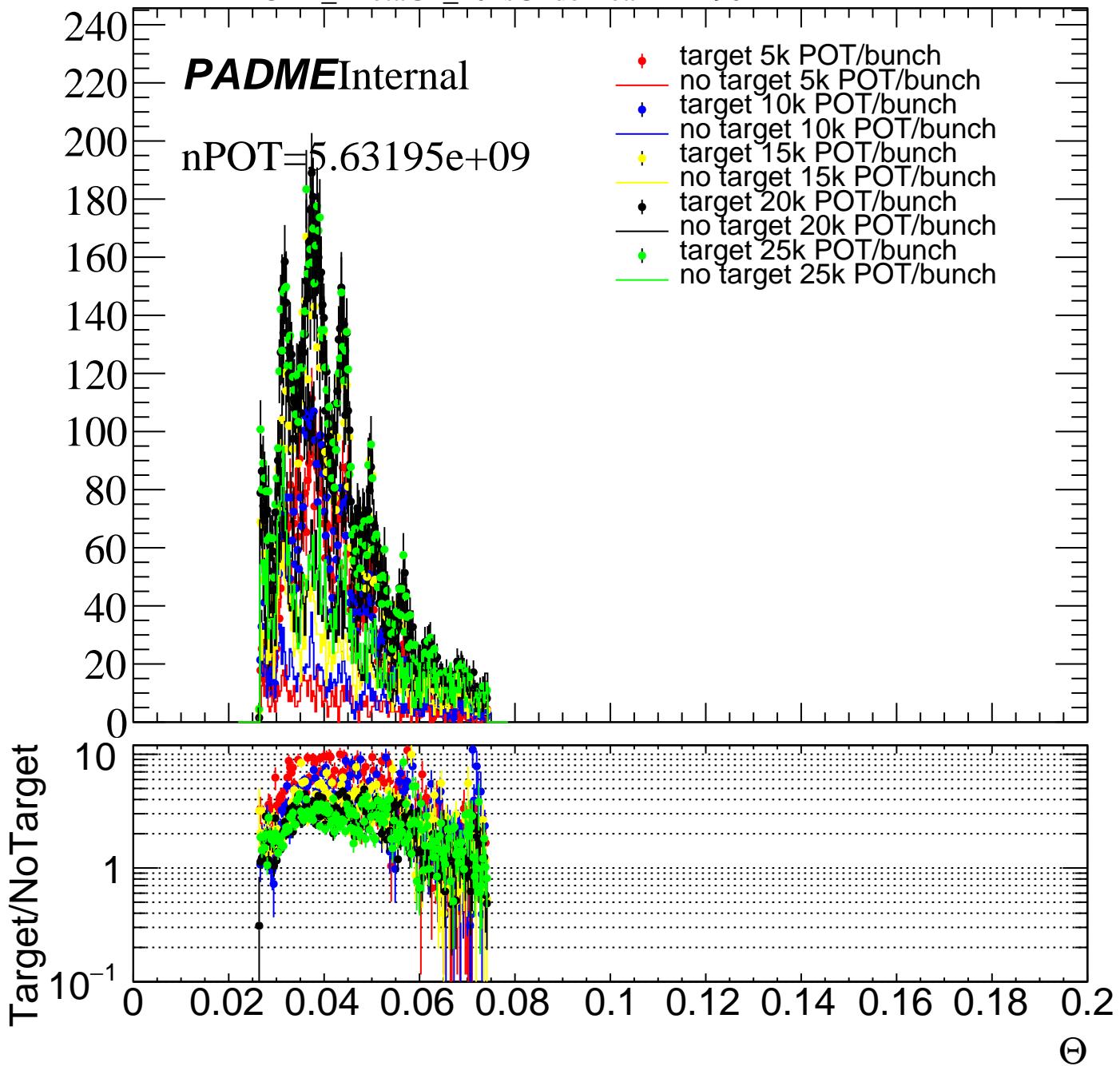




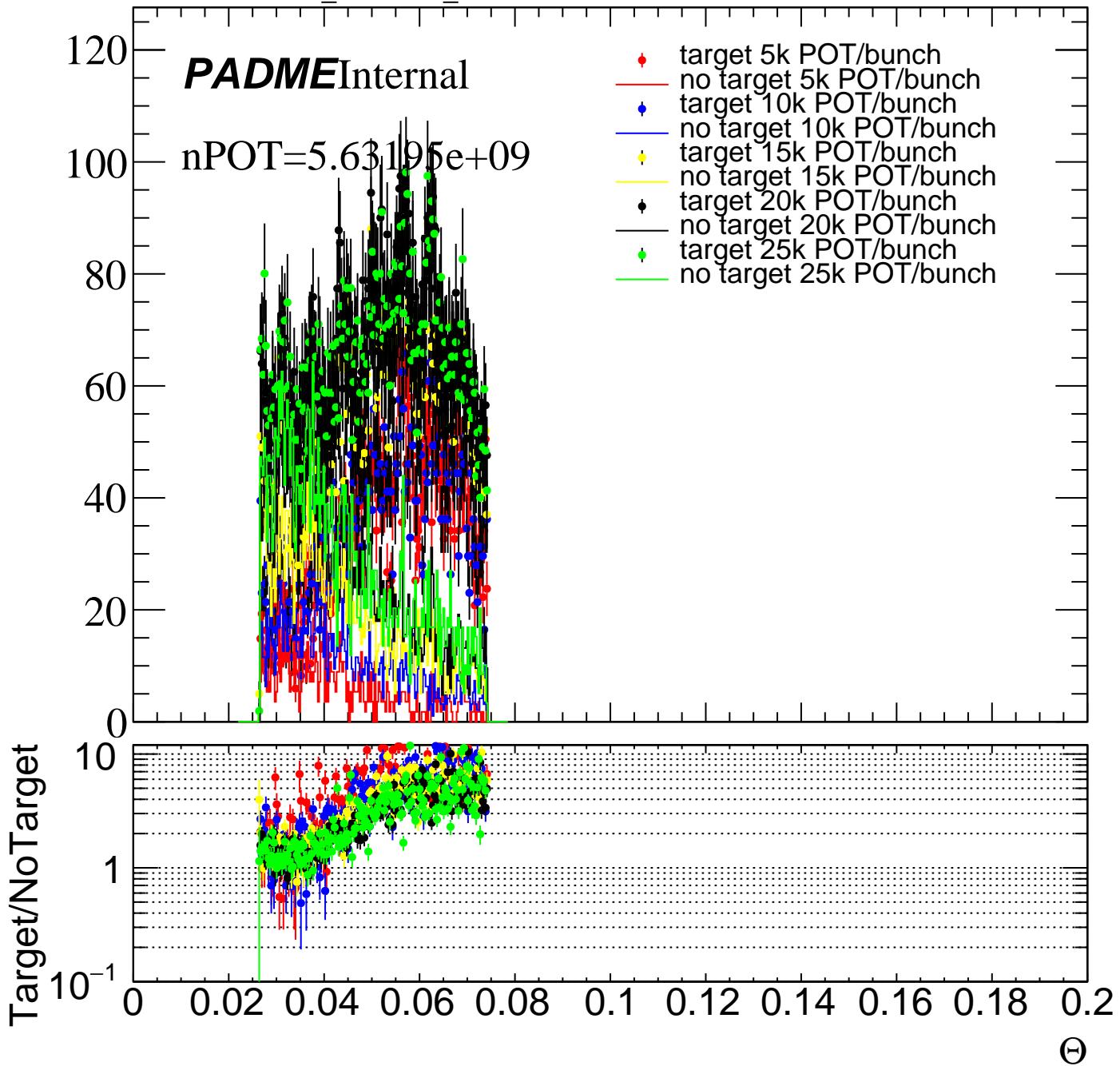
ECAL_Theta_10nsUnderPeakEThr90



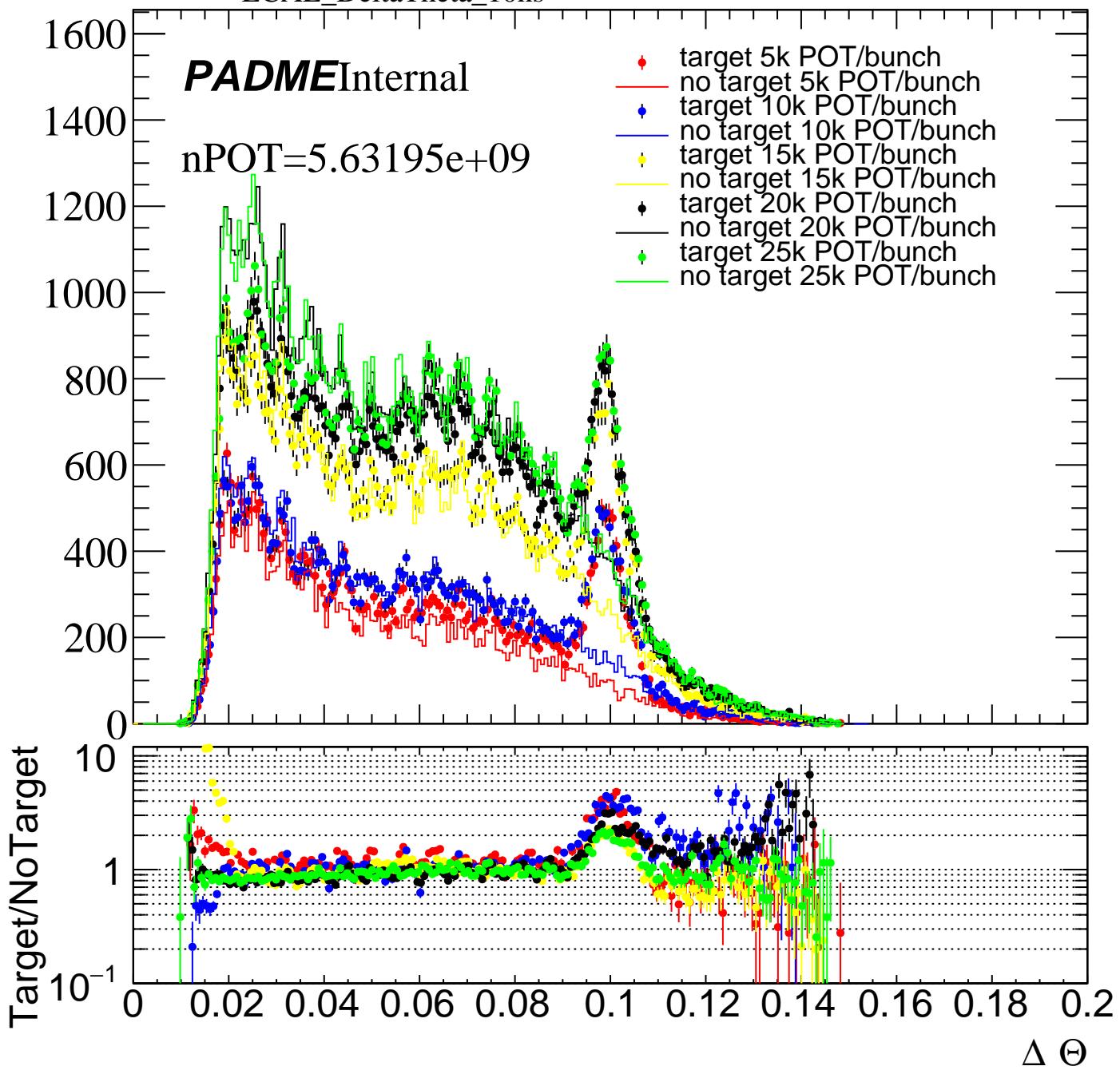
ECAL_ThetaG1_10nsUnderPeakEThr90



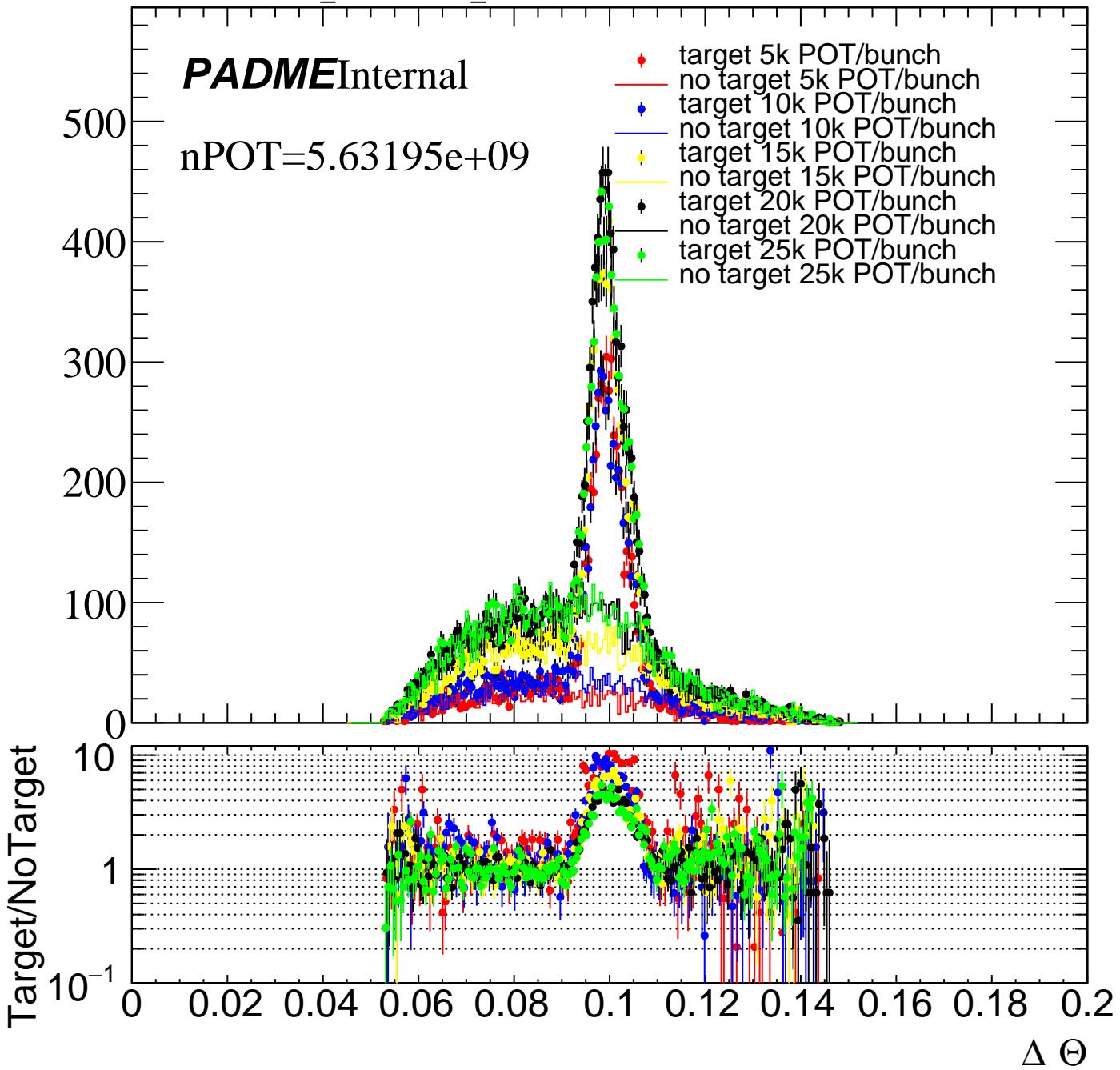
ECAL_ThetaG2_10nsUnderPeakEThr90



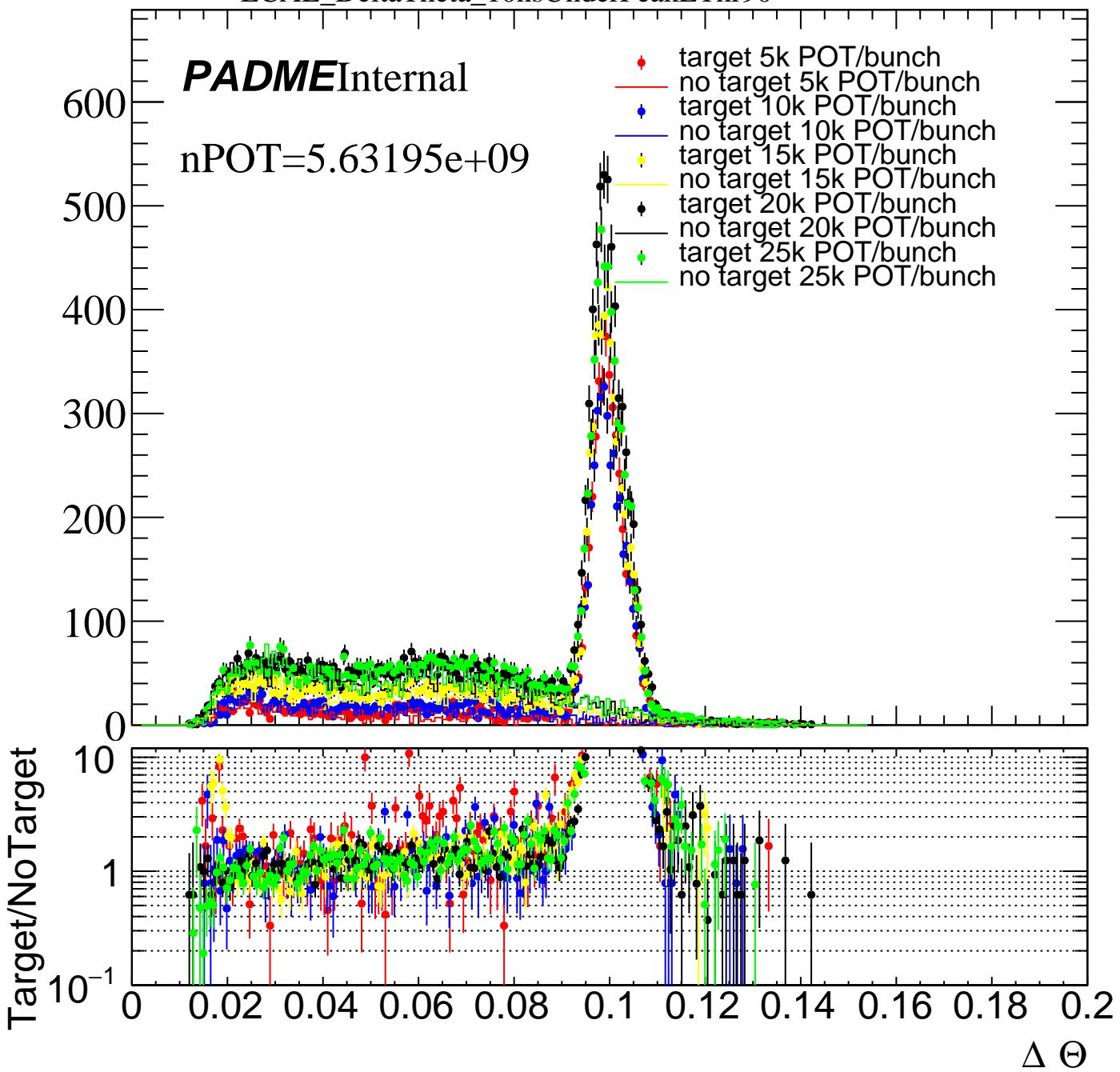
ECAL_DeltaTheta_10ns



ECAL_DeltaTheta_10nsDeltaPhi20



ECAL_DeltaTheta_10nsUnderPeakEThr90

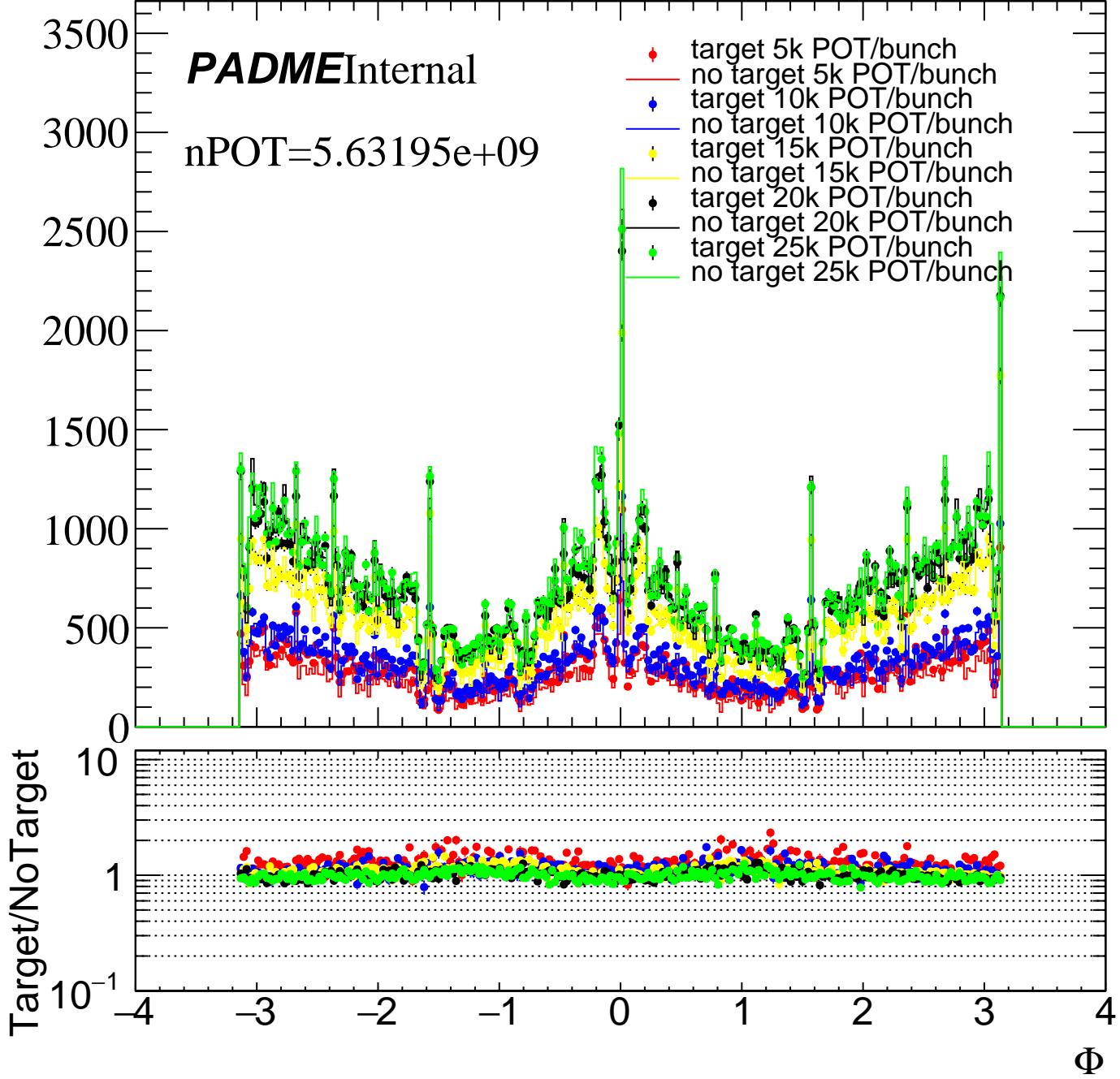


ECAL_Phi_10ns

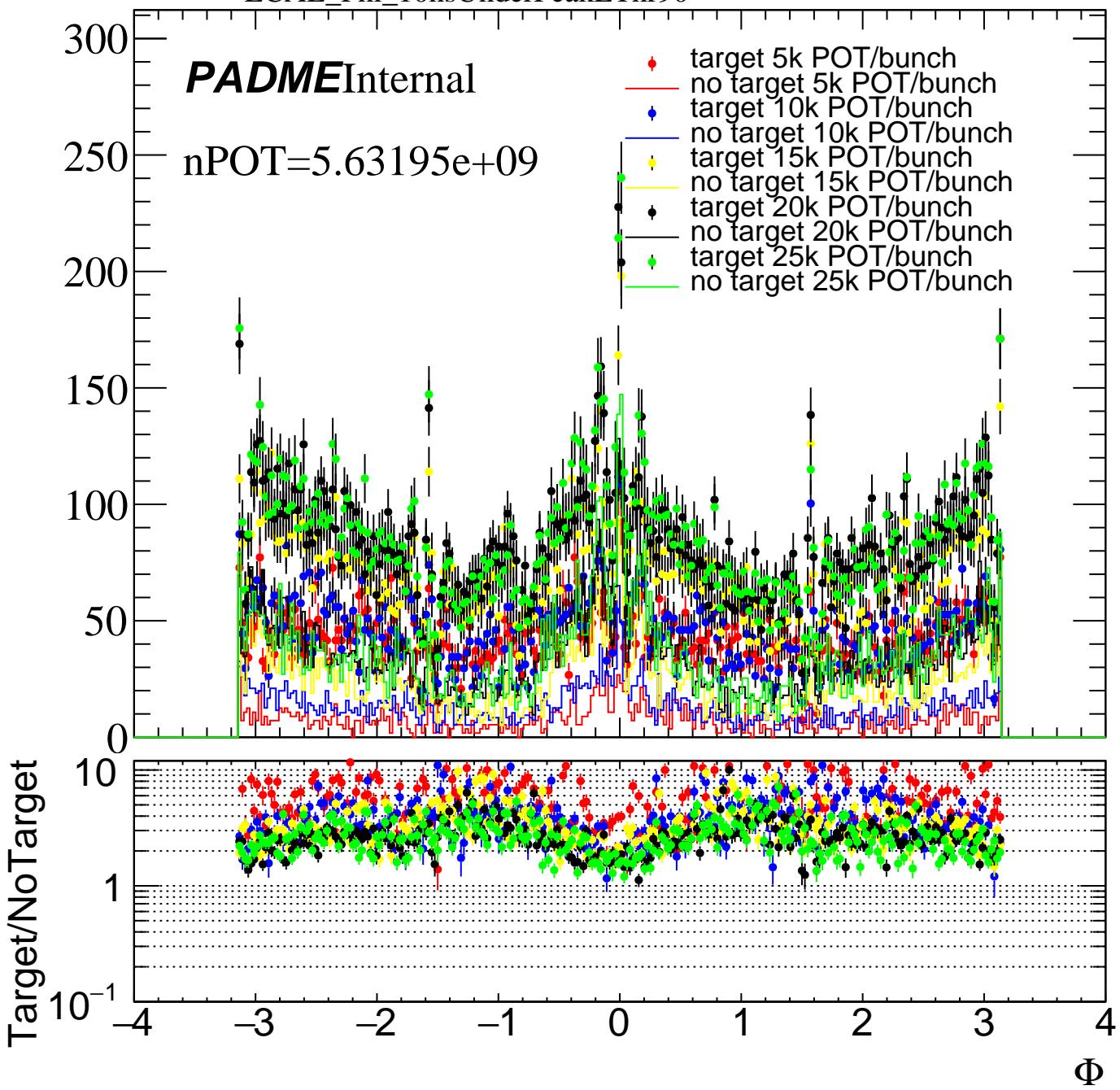
PADMEInternal

nPOT=5.63195e+09

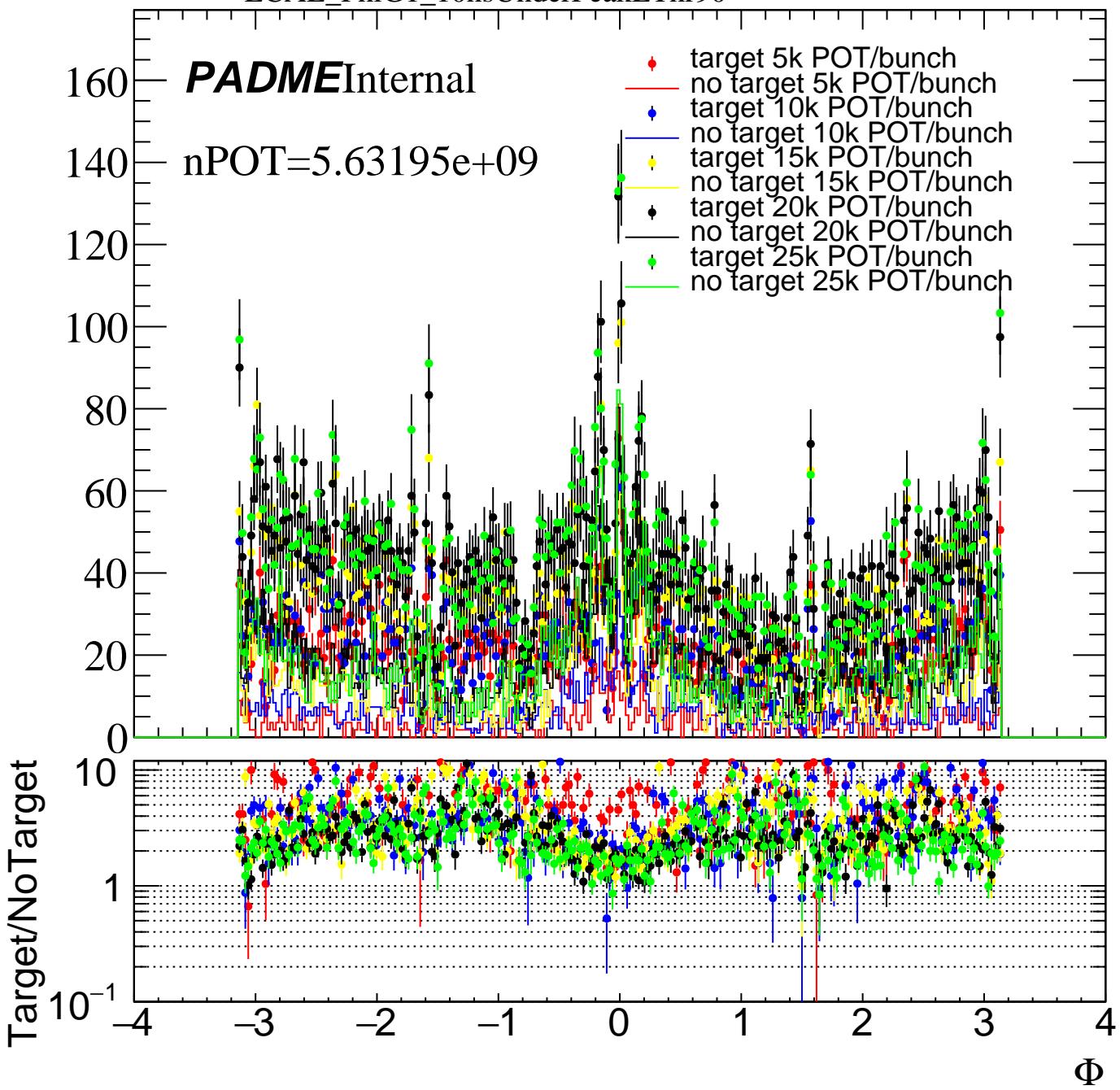
- target 5k POT/bunch
- no target 5k POT/bunch
- target 10k POT/bunch
- no target 10k POT/bunch
- target 15k POT/bunch
- no target 15k POT/bunch
- target 20k POT/bunch
- no target 20k POT/bunch
- target 25k POT/bunch
- no target 25k POT/bunch



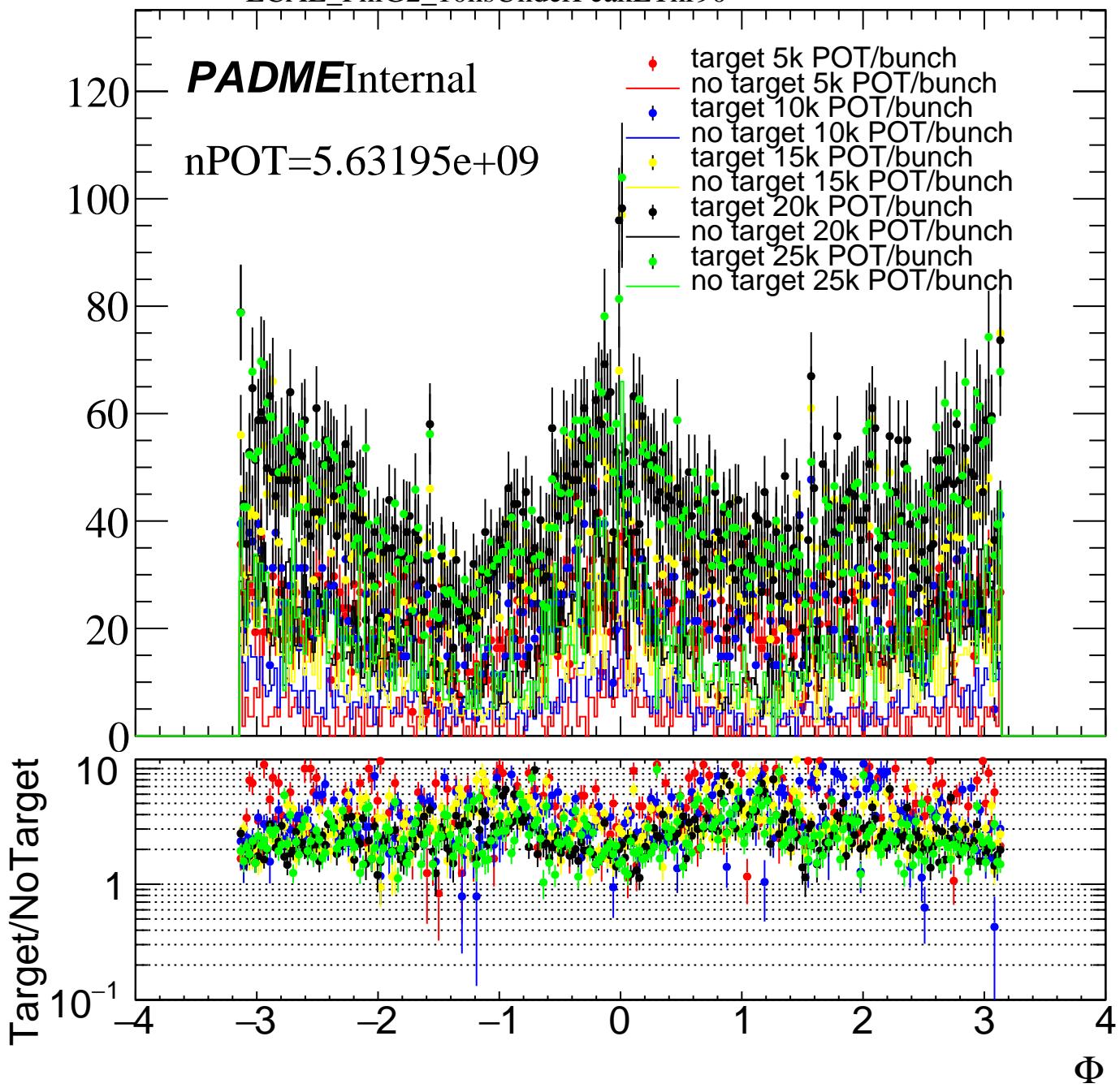
ECAL_Phi_10nsUnderPeakEThr90



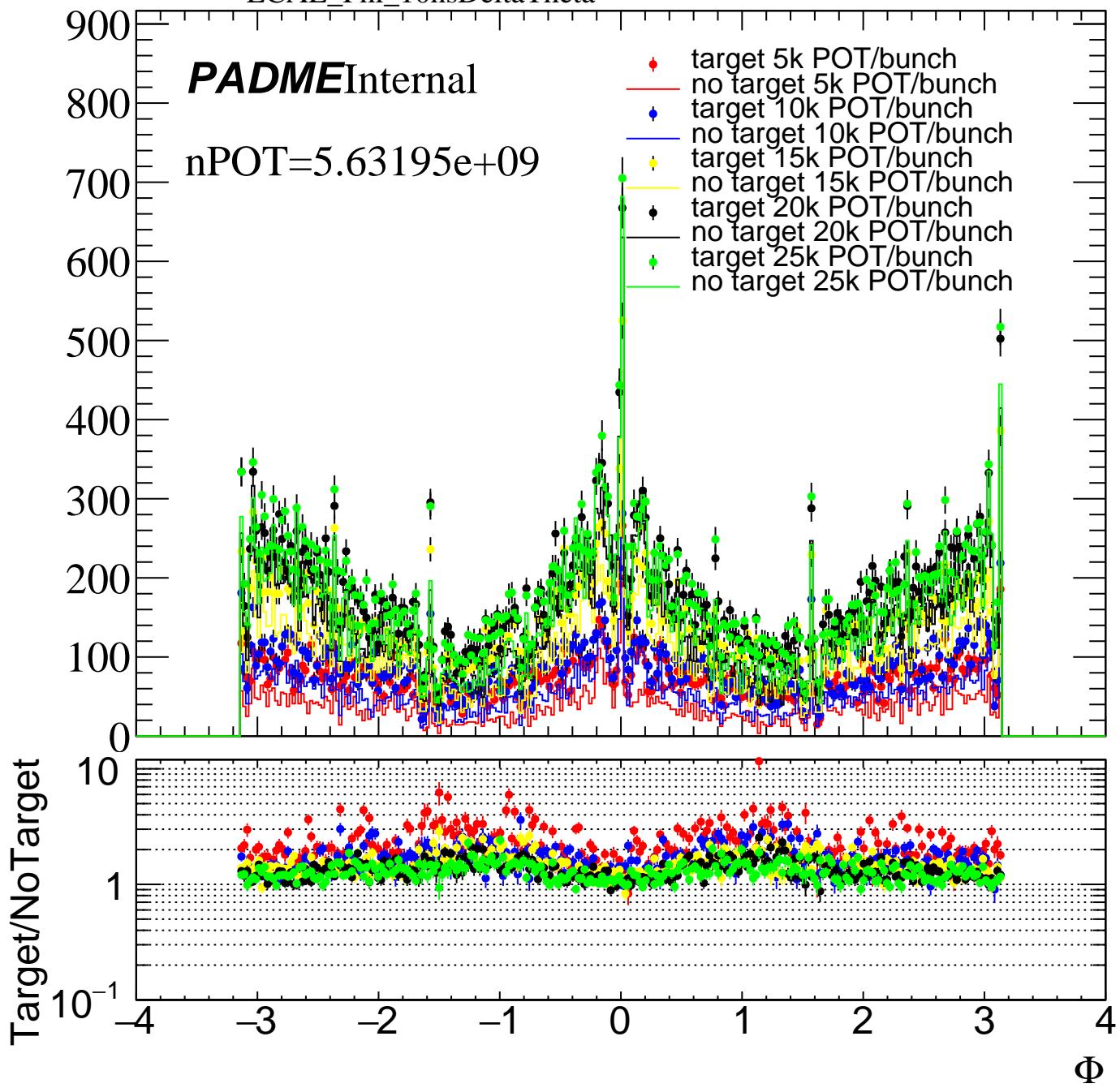
ECAL_PhiG1_10nsUnderPeakEThr90



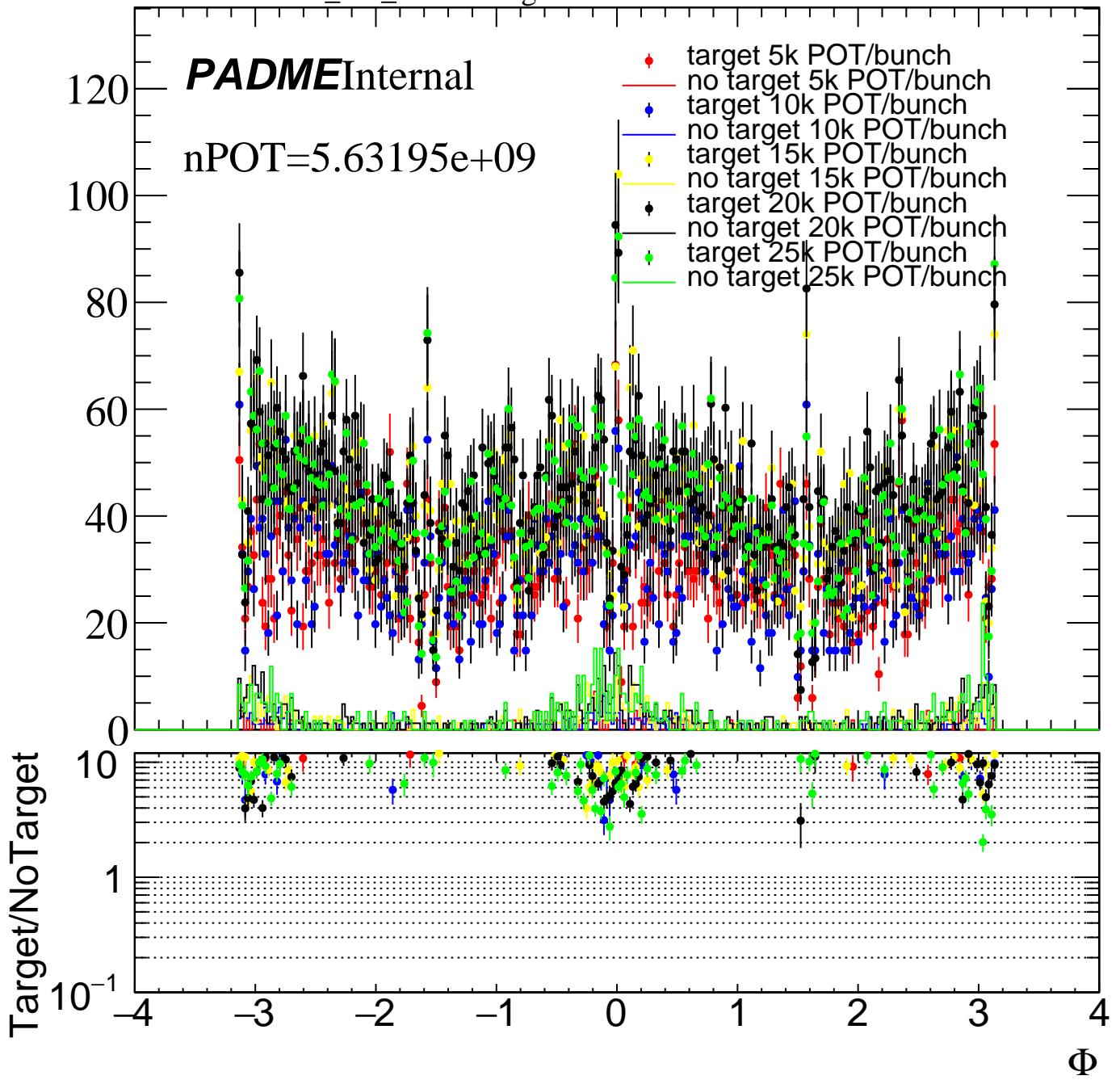
ECAL_PhiG2_10nsUnderPeakEThr90



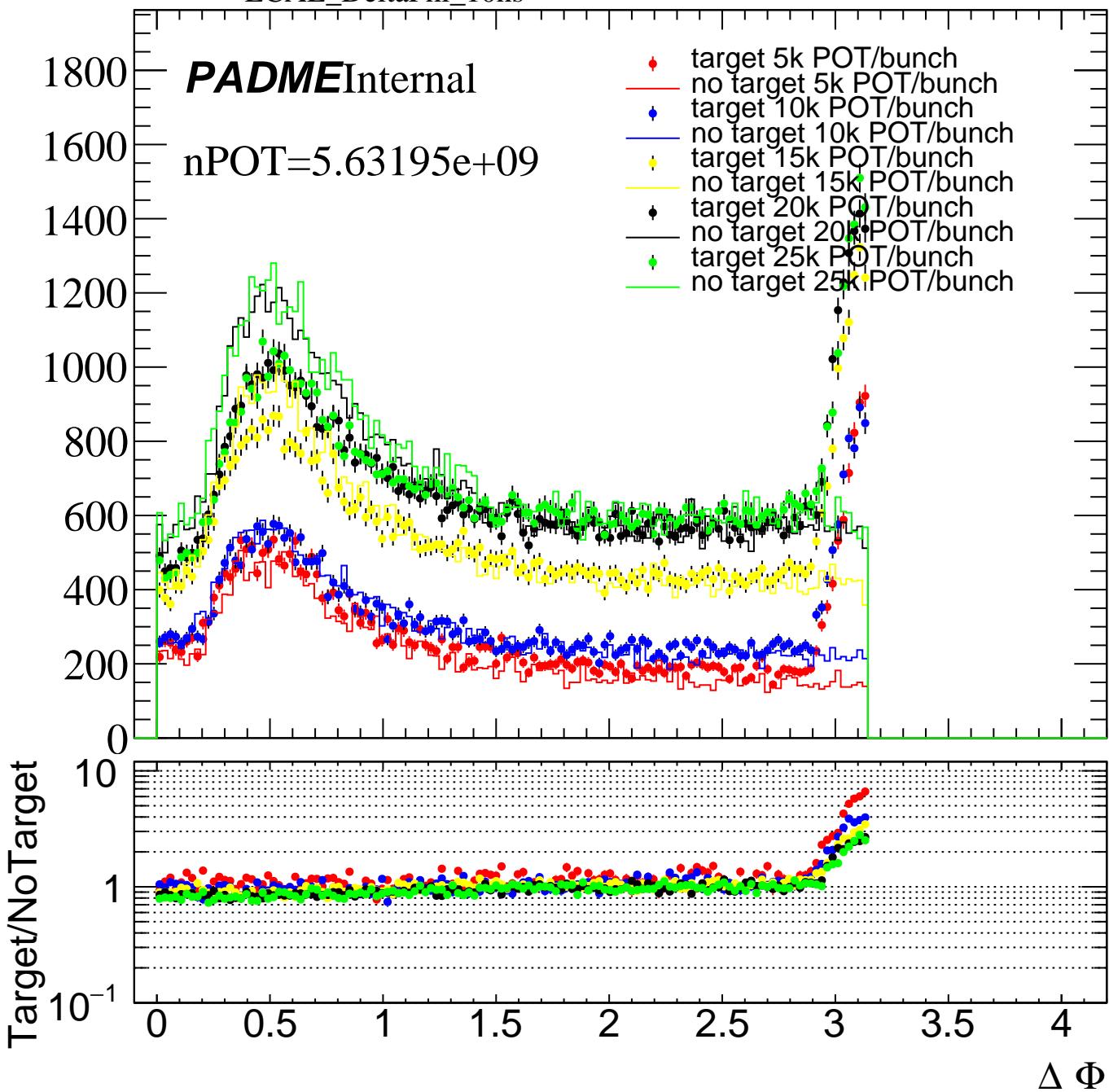
ECAL_Phi_10nsDeltaTheta



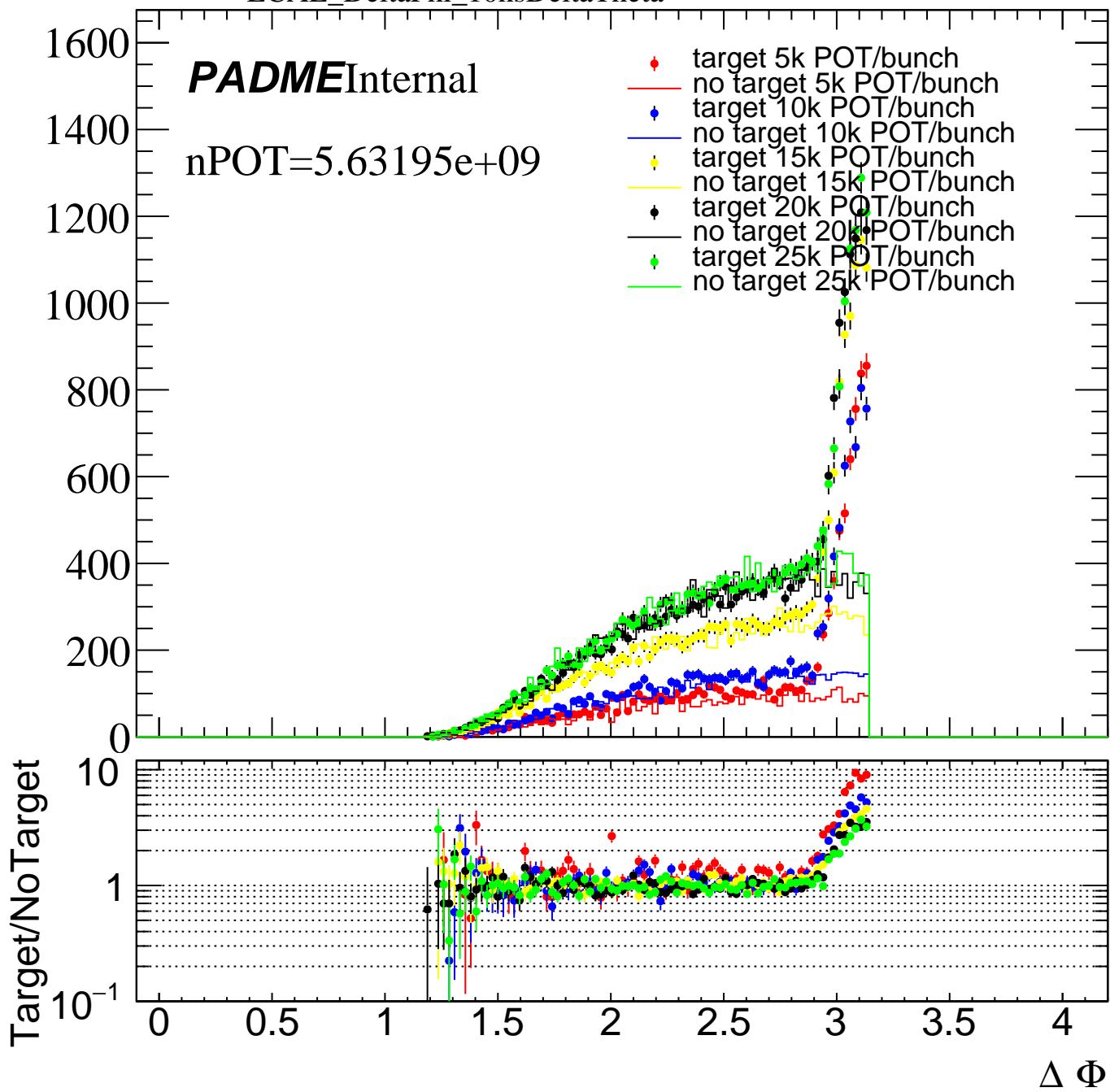
ECAL_Phi_10ns20DegreeDeltaThetaUnderPeakEThr90



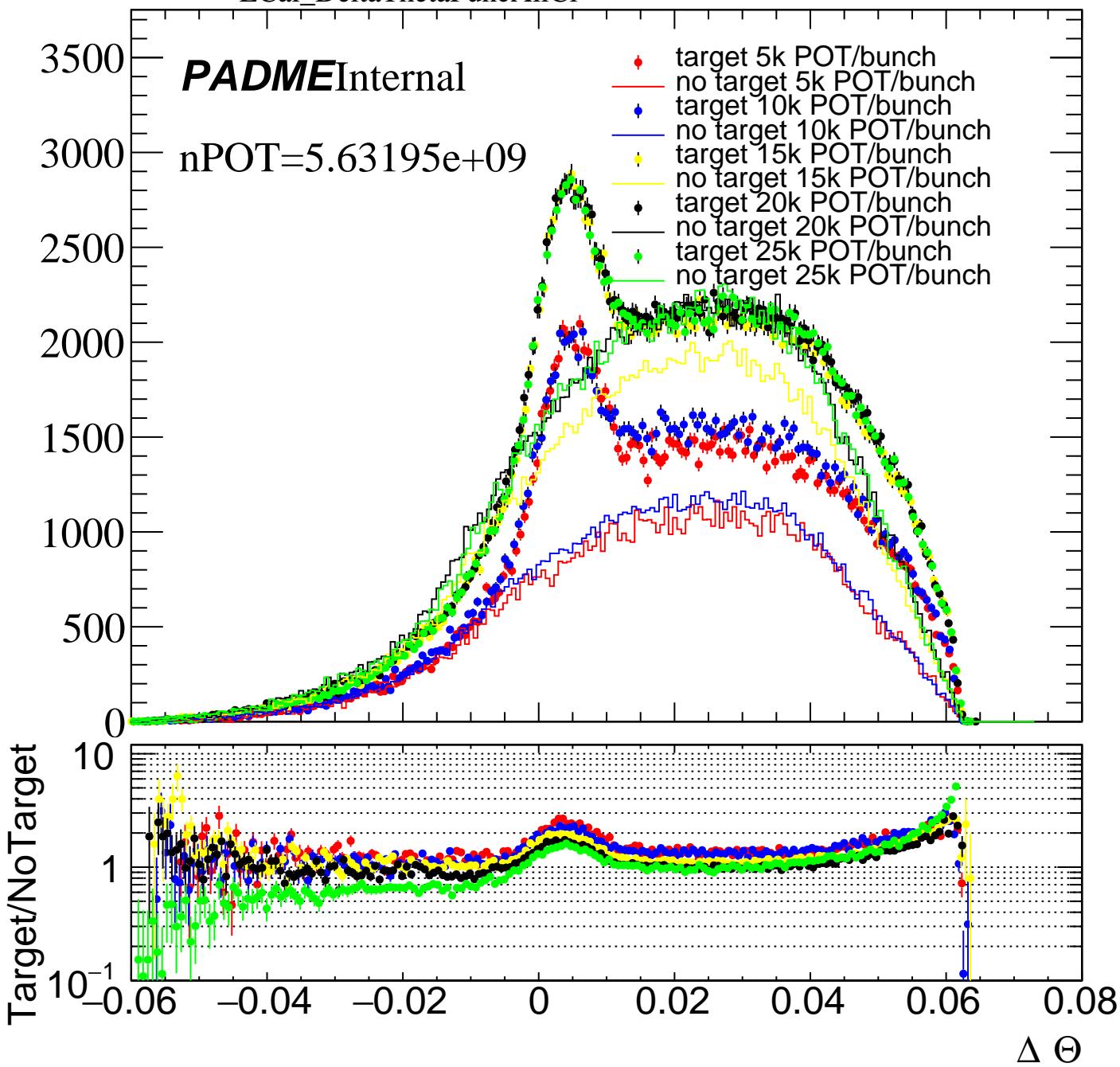
ECAL_DeltaPhi_10ns



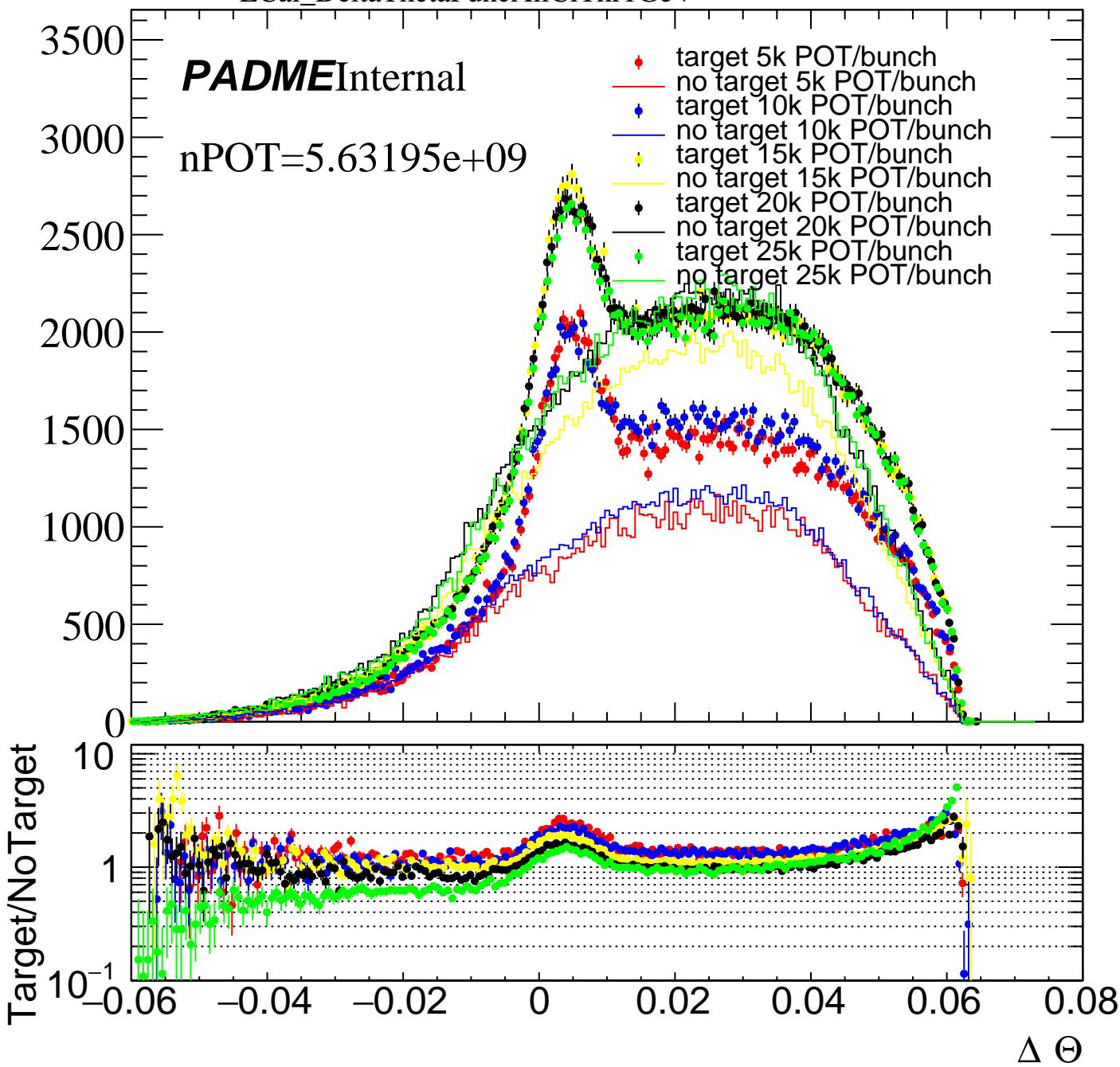
ECAL_DeltaPhi_10nsDeltaTheta



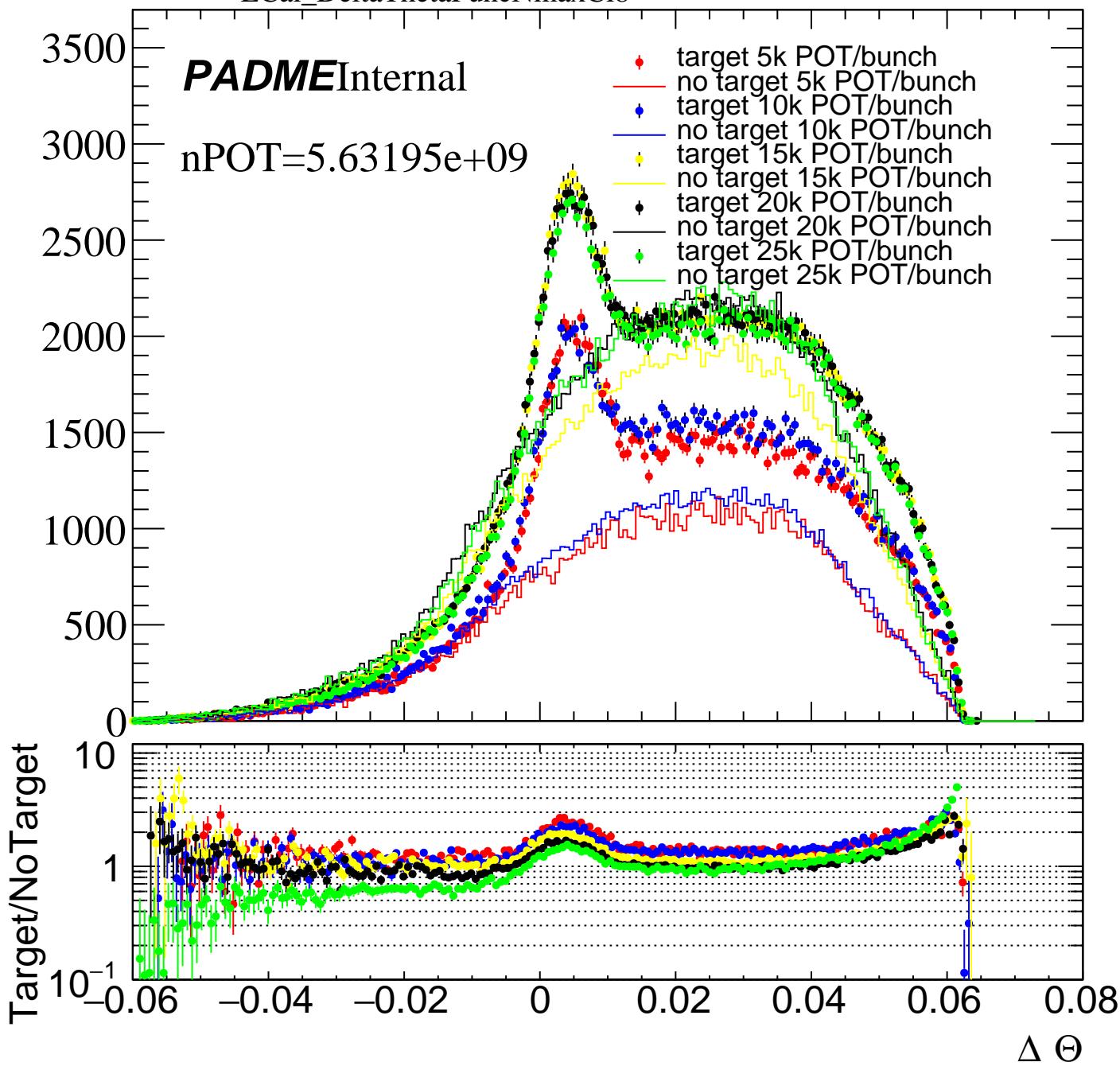
ECal_DeltaThetaFuncAllCl



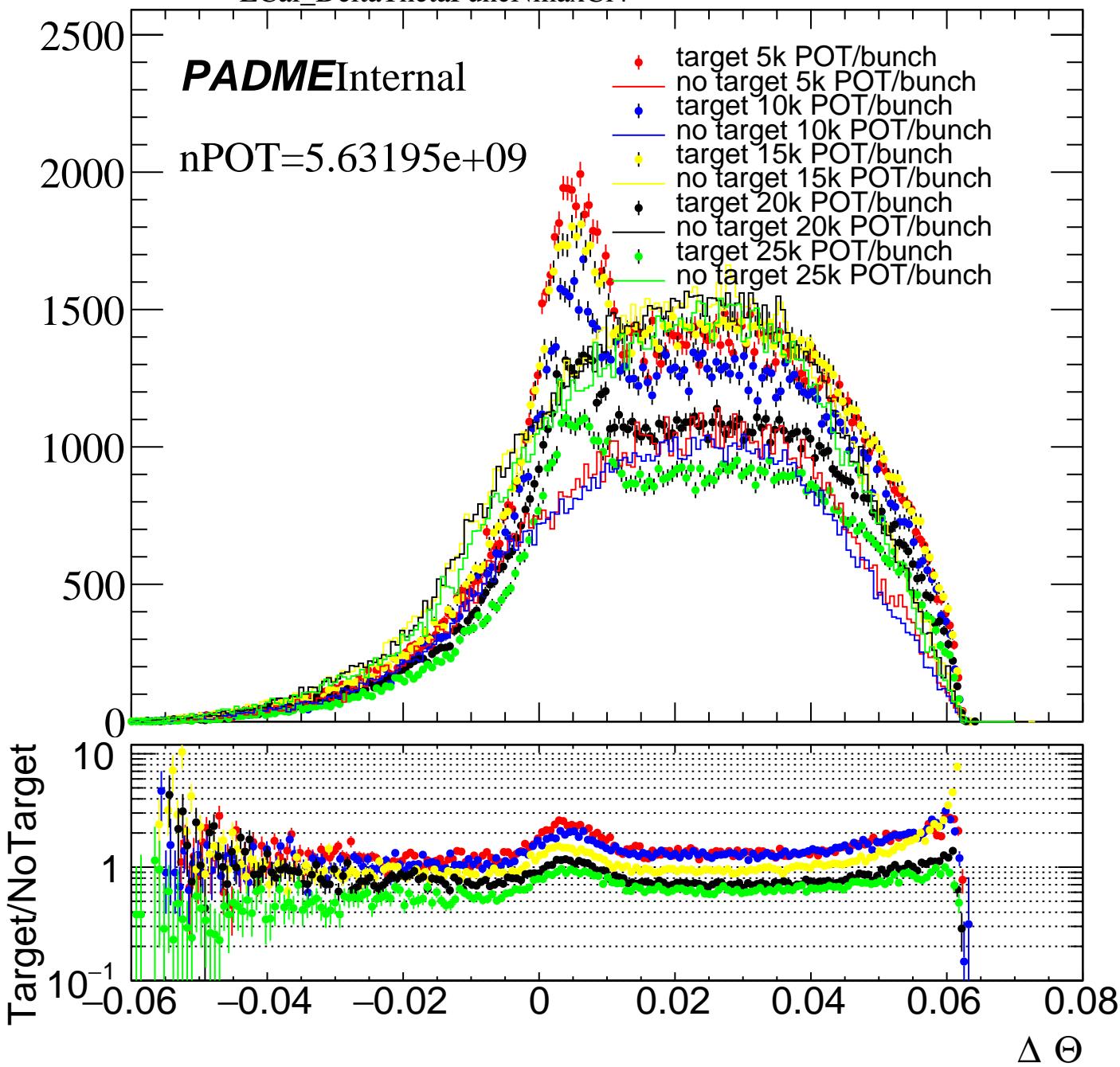
ECal_DeltaThetaFuncAllClThr1GeV



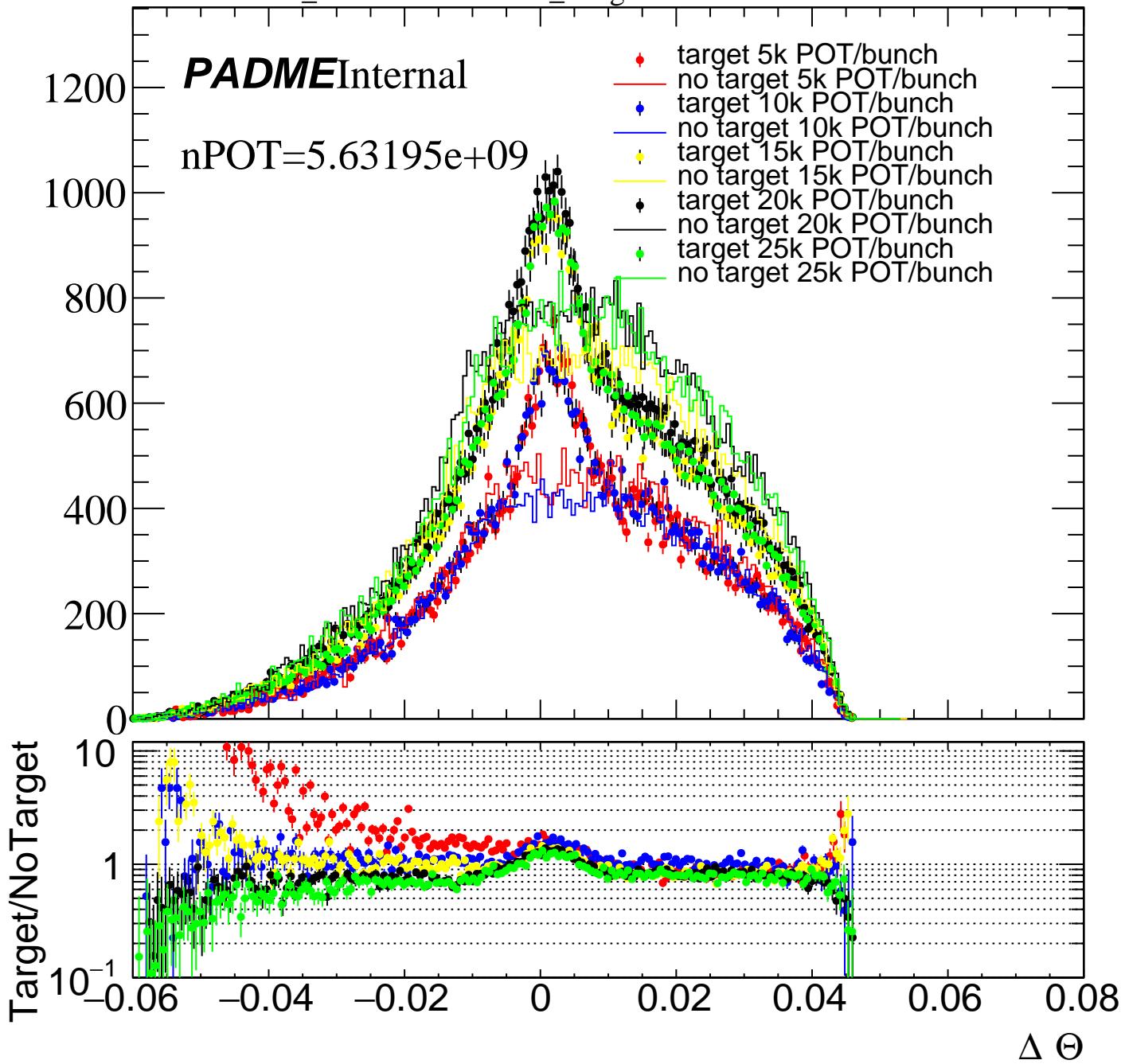
ECal_DeltaThetaFuncNmaxC18



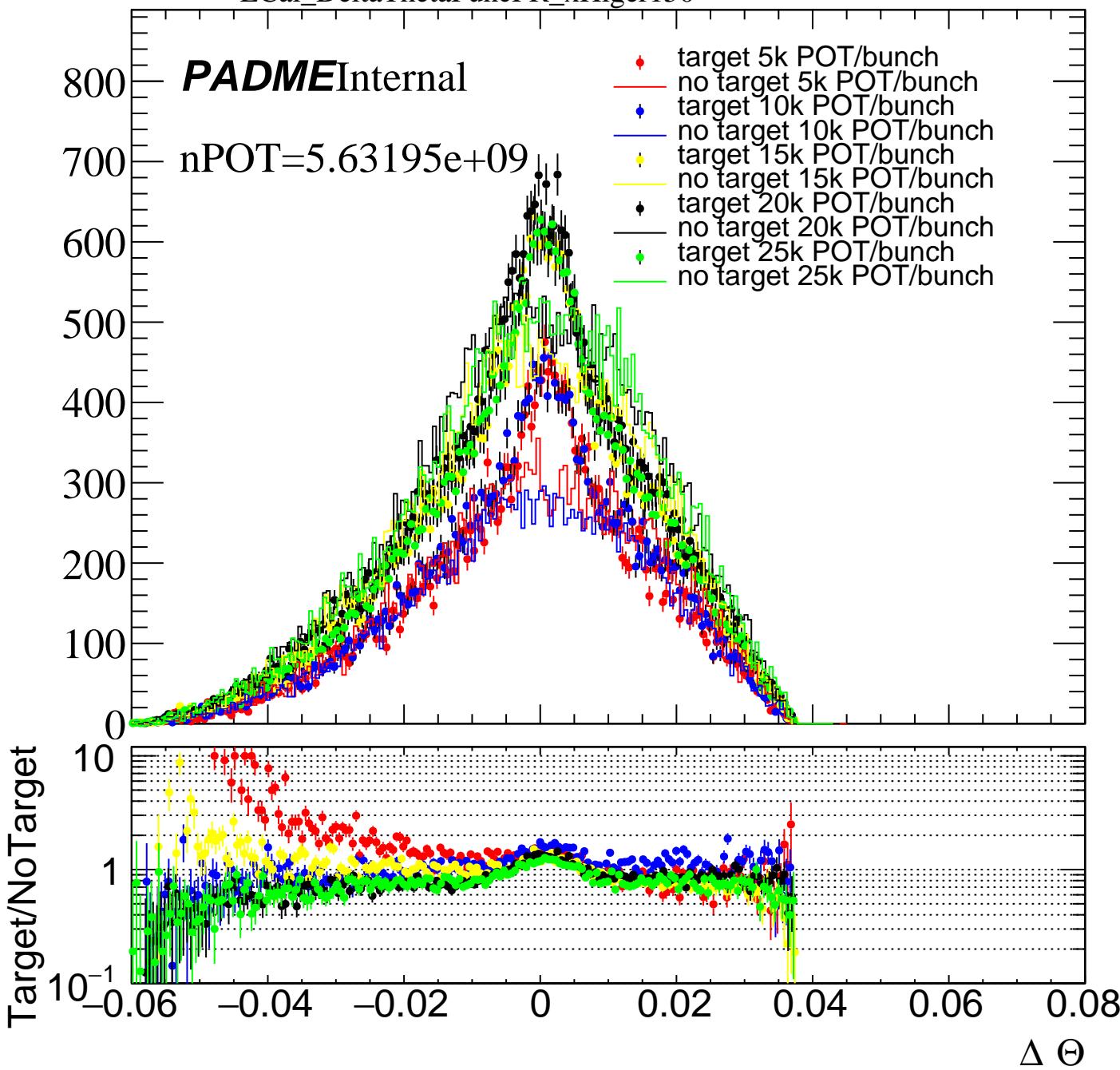
ECal_DeltaThetaFuncNmaxC14



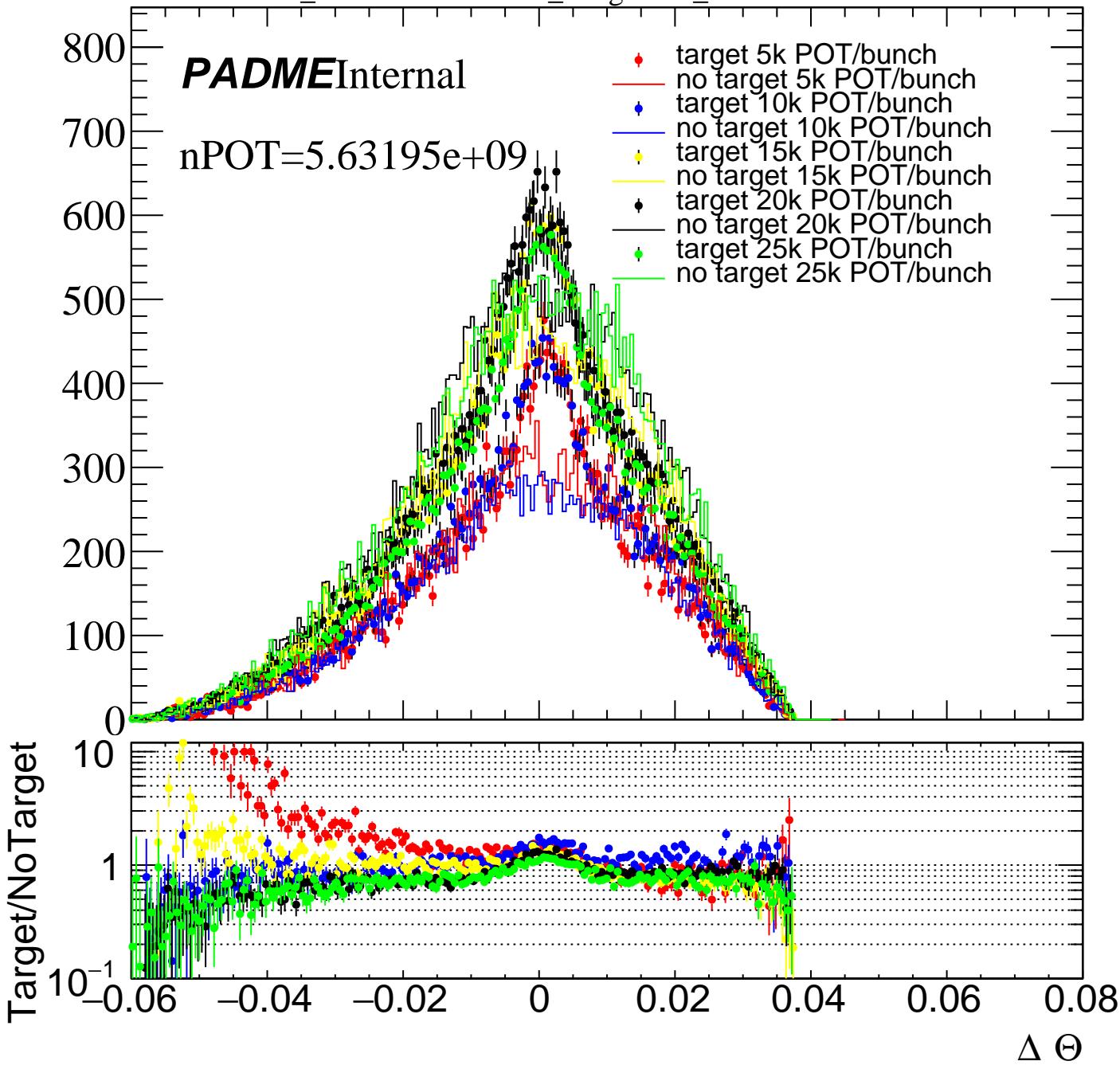
ECal_DeltaThetaFuncFR_xHiger120



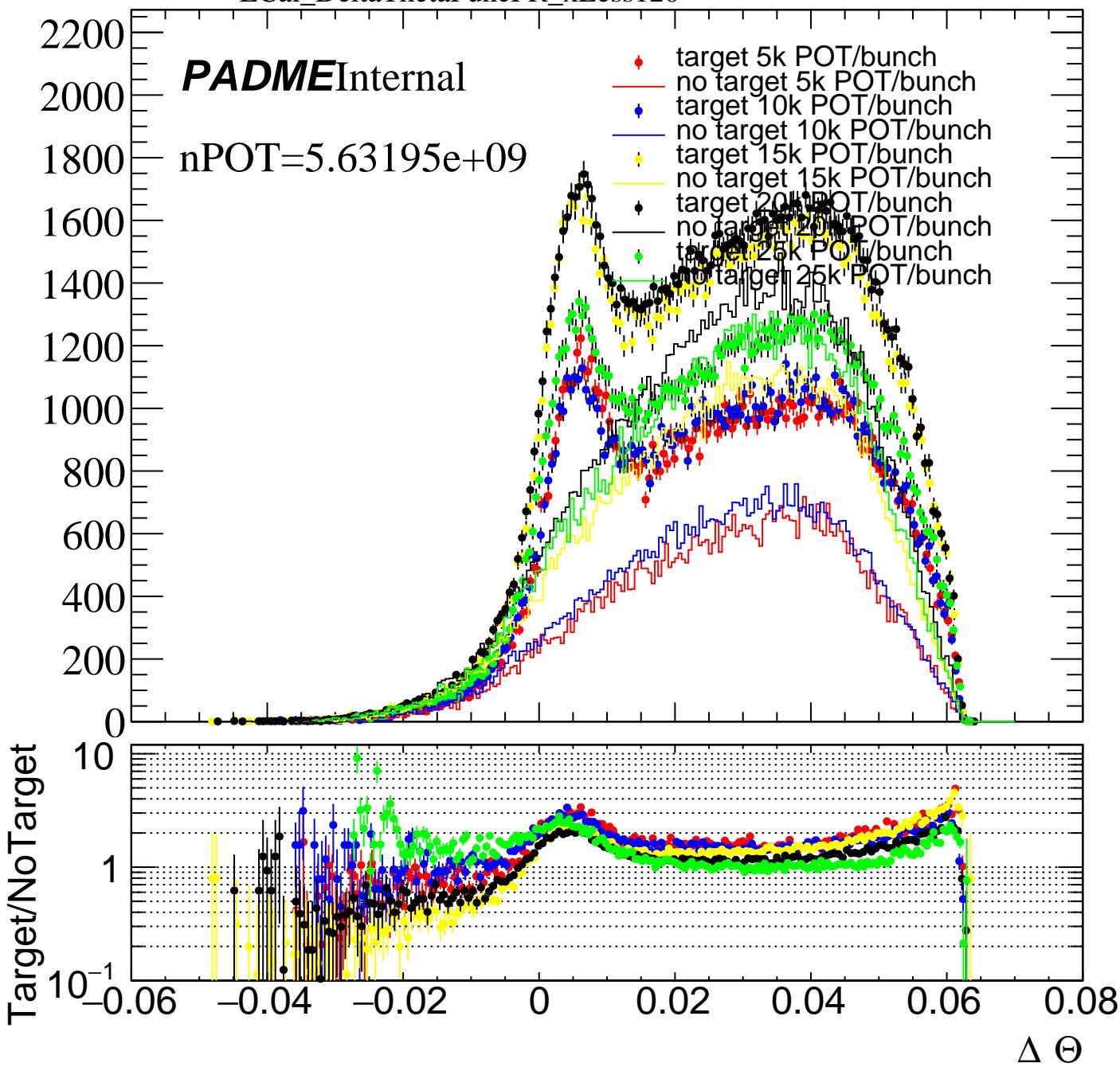
ECal_DeltaThetaFuncFR_xHiger150



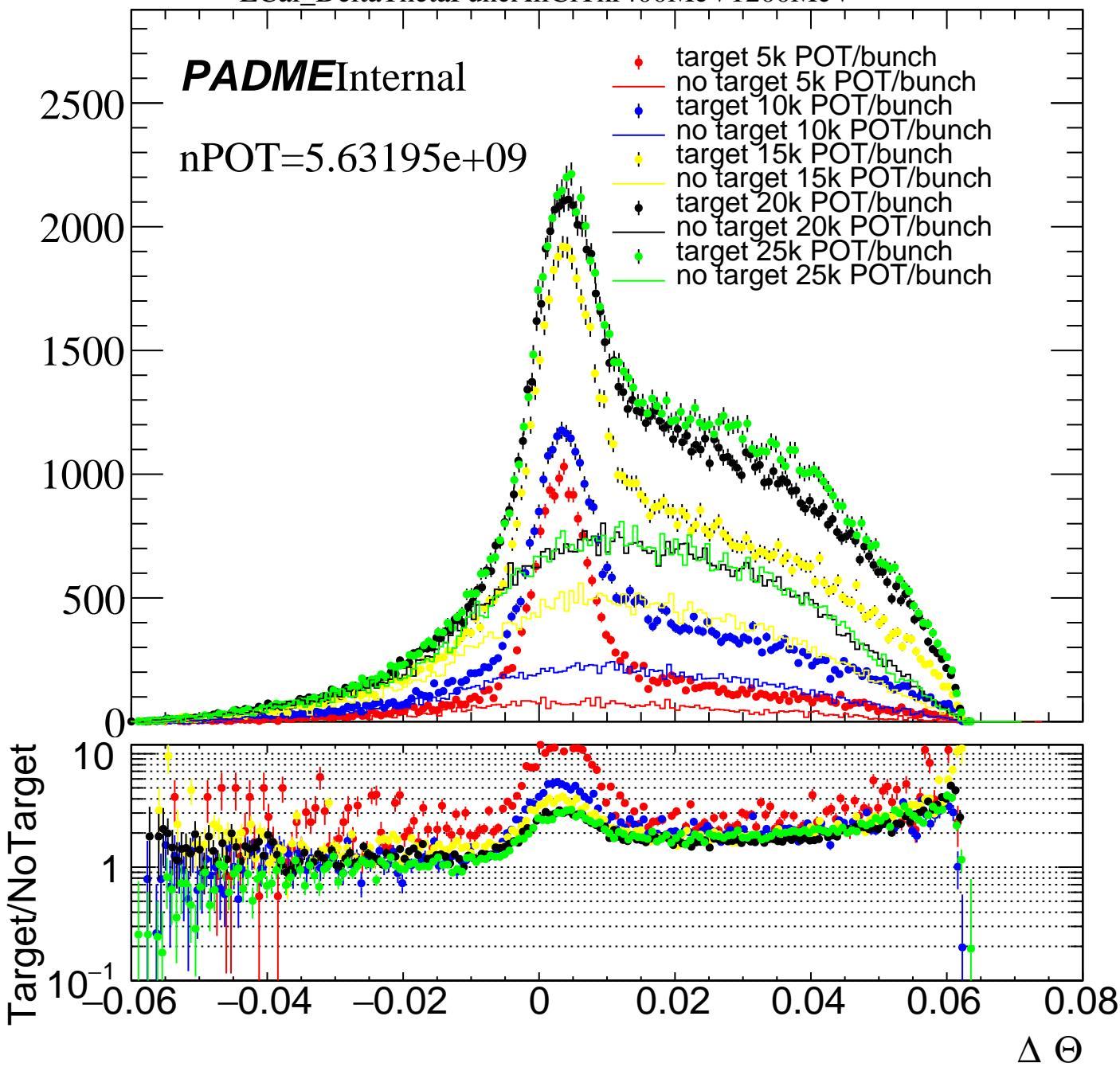
ECal_DeltaThetaFuncFR_xHiger150_EthrLess1GeV



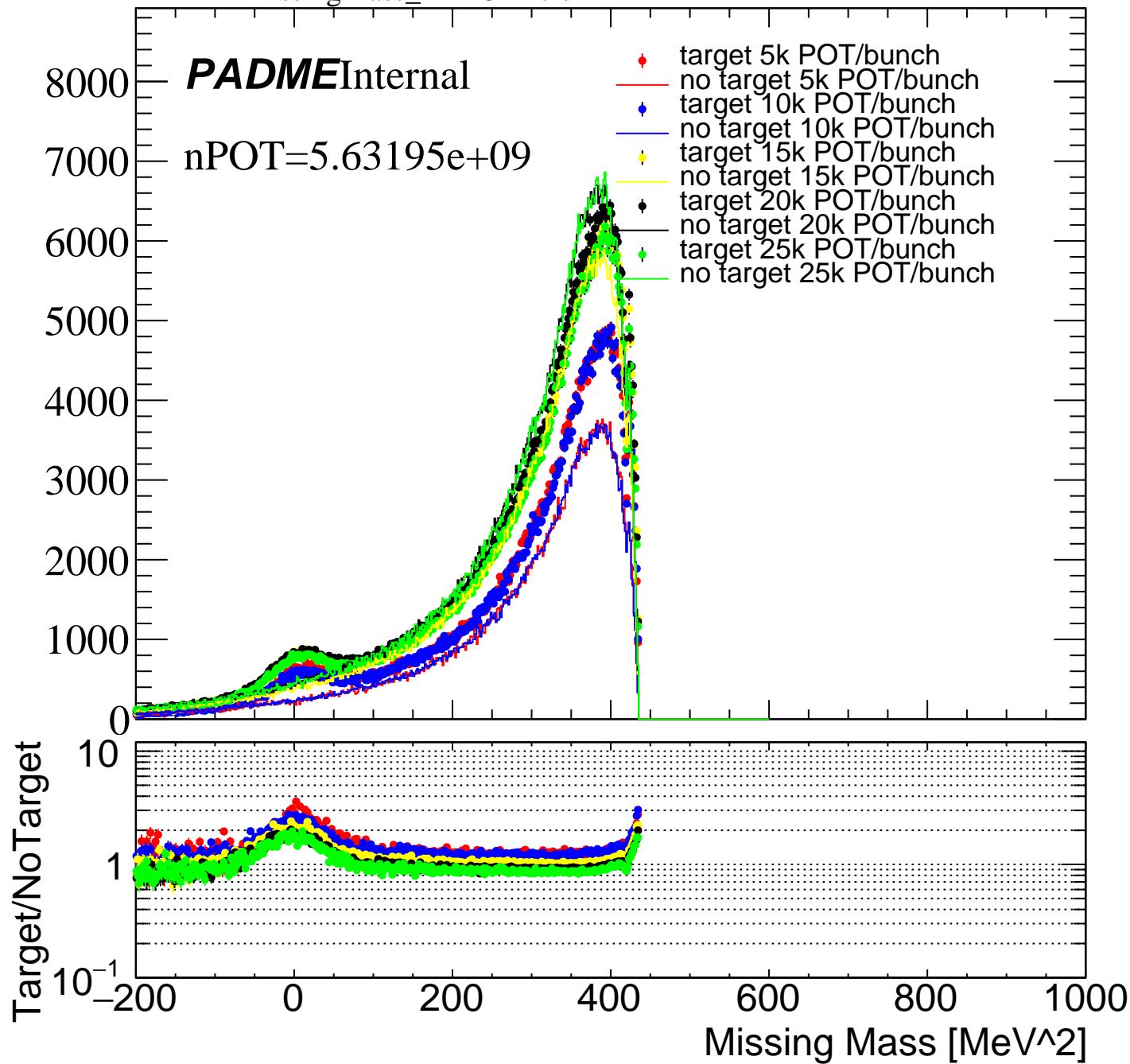
ECal_DeltaThetaFuncFR_xLess120



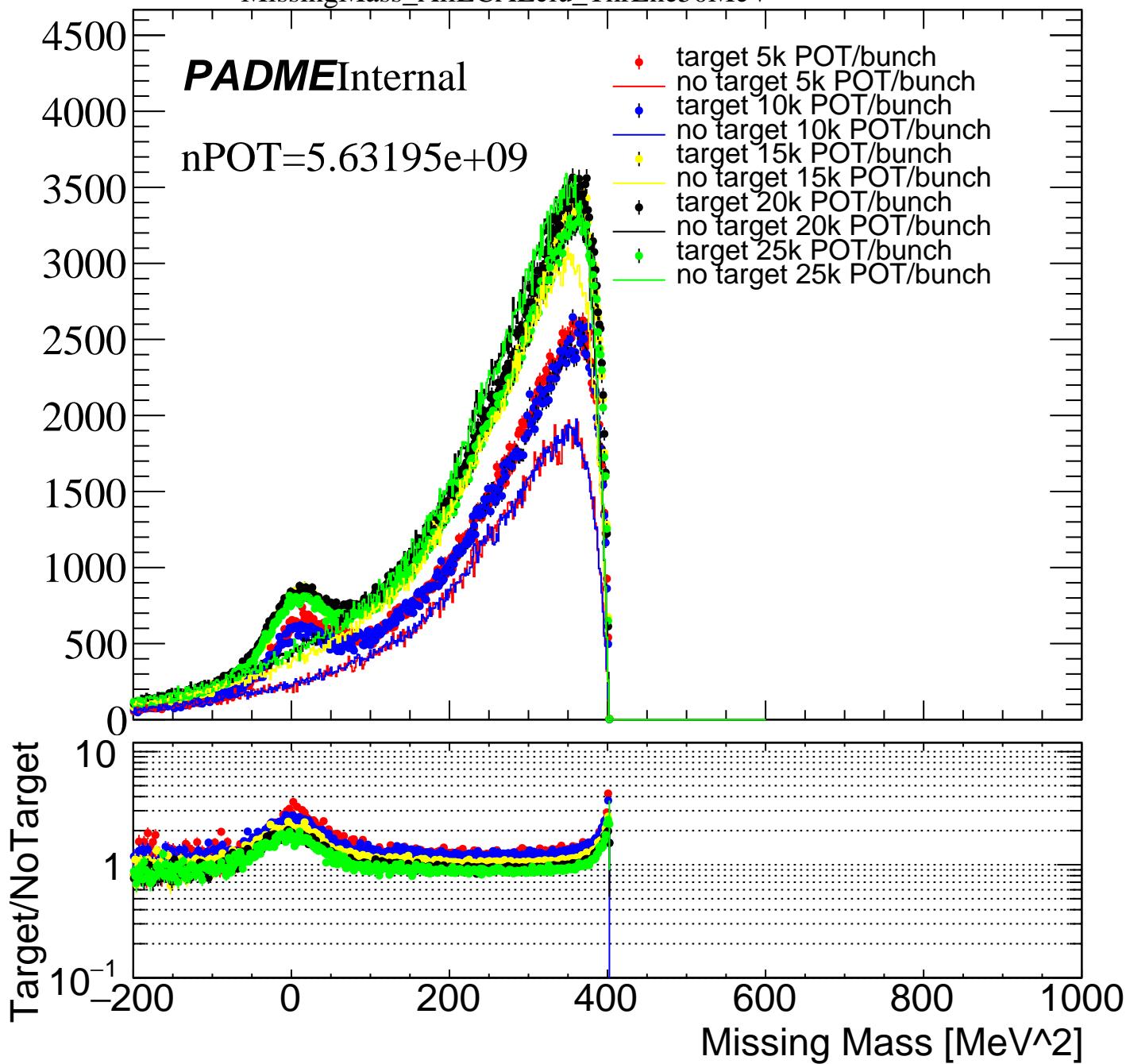
ECal_DeltaThetaFuncAllClThr400MeV1200MeV



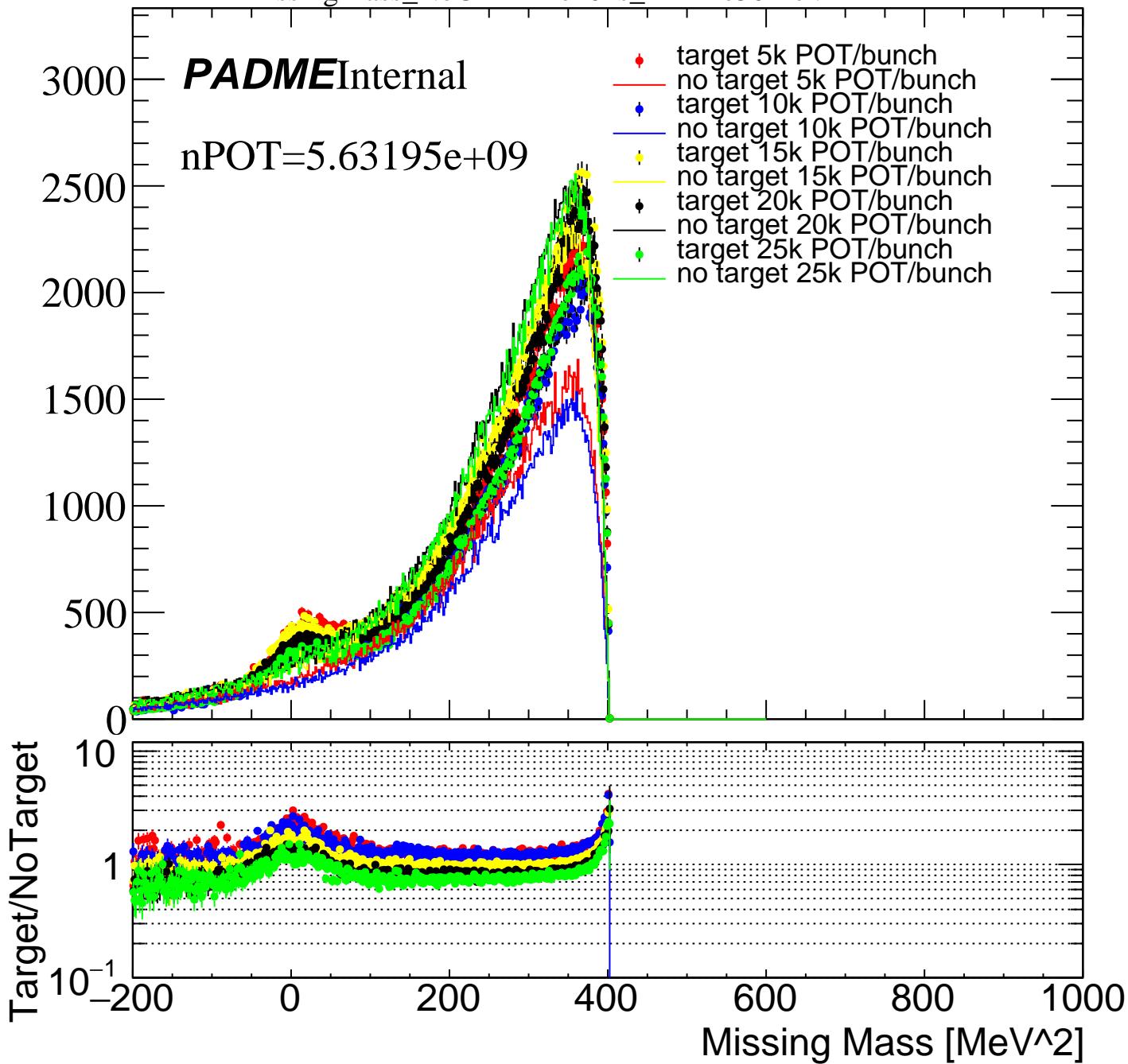
MissingMass_AllECALclu



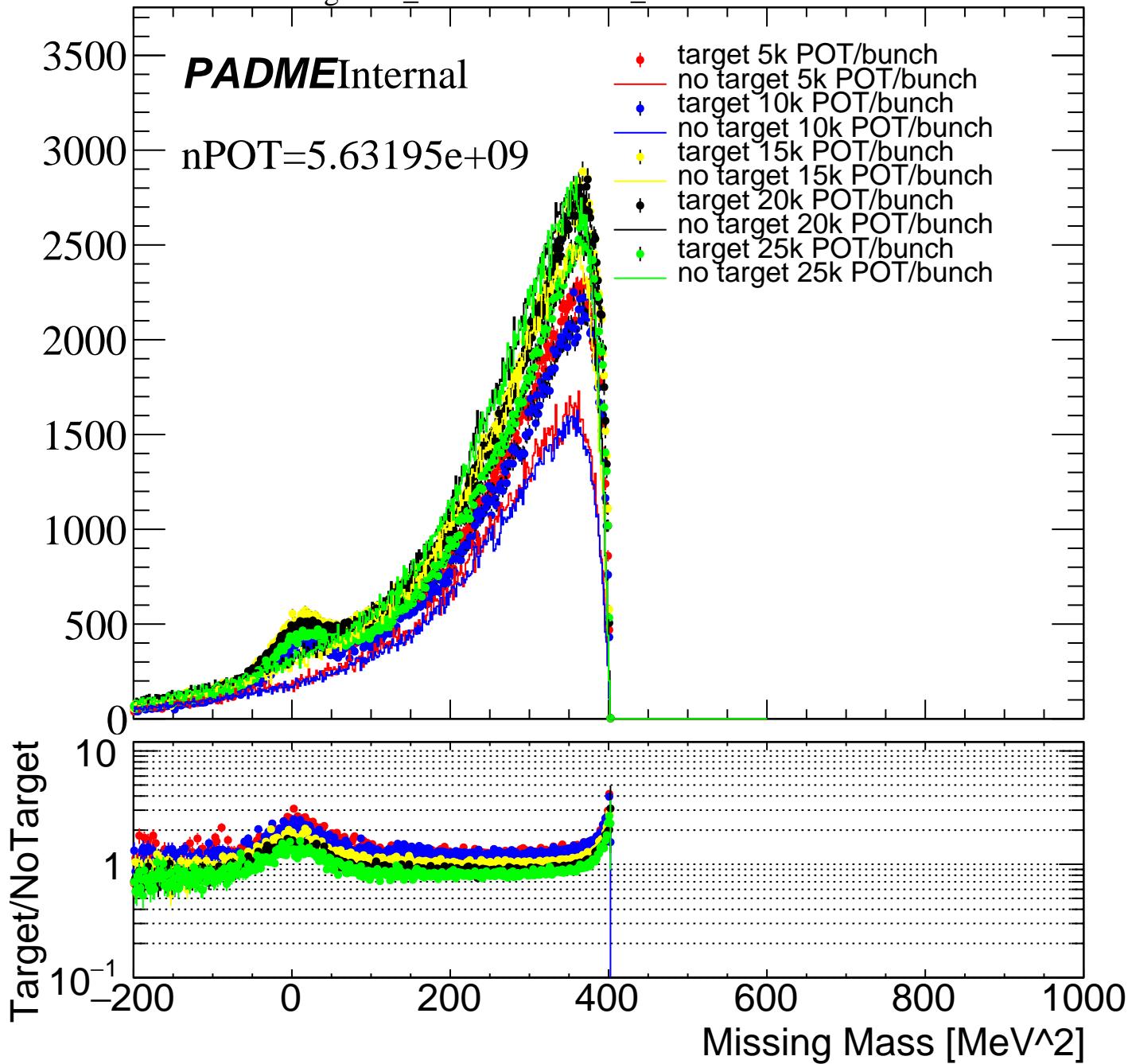
MissingMass_AllECALclu_ThrEne50MeV



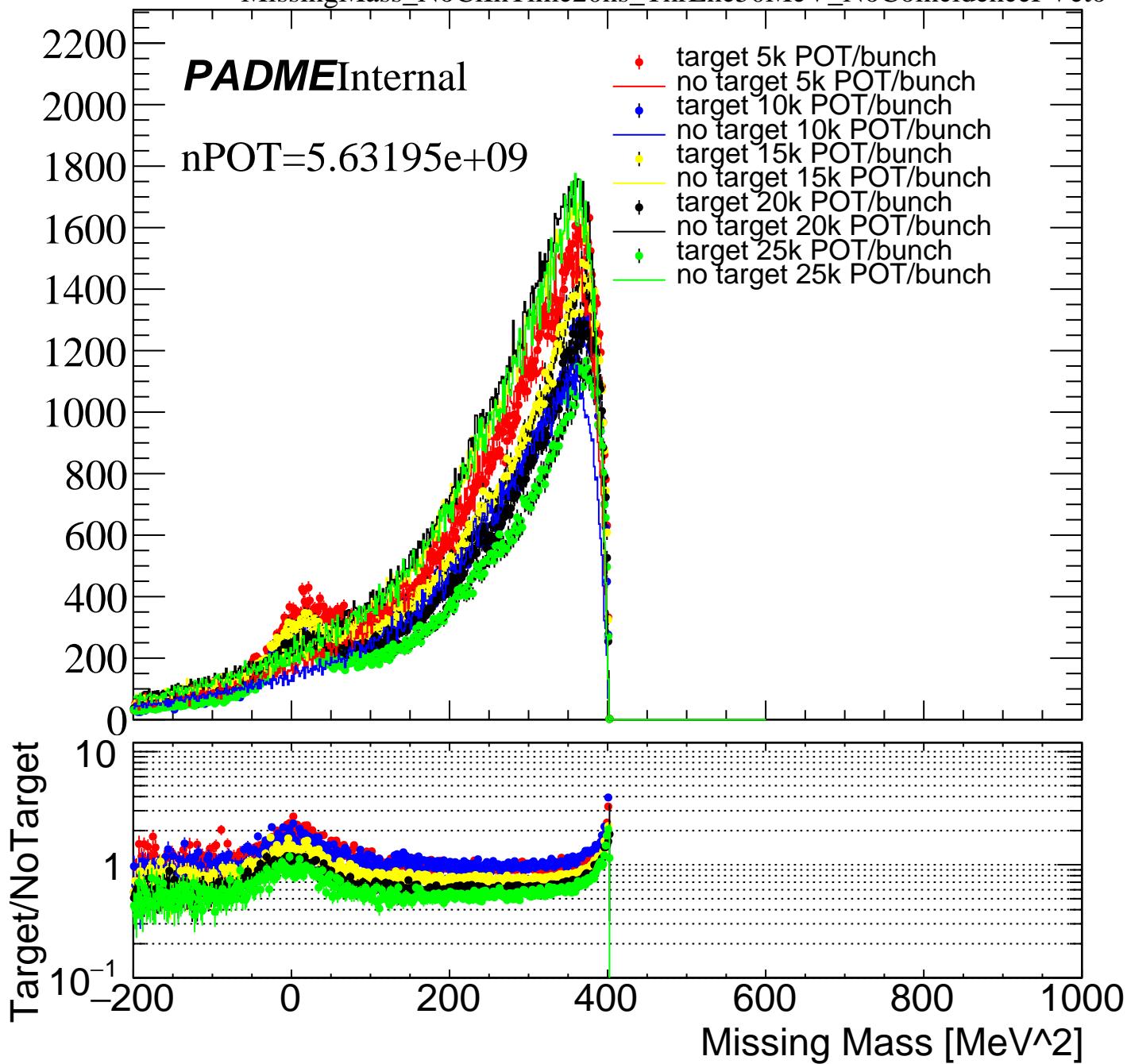
MissingMass_NoClInTime20ns_ThrEne50MeV

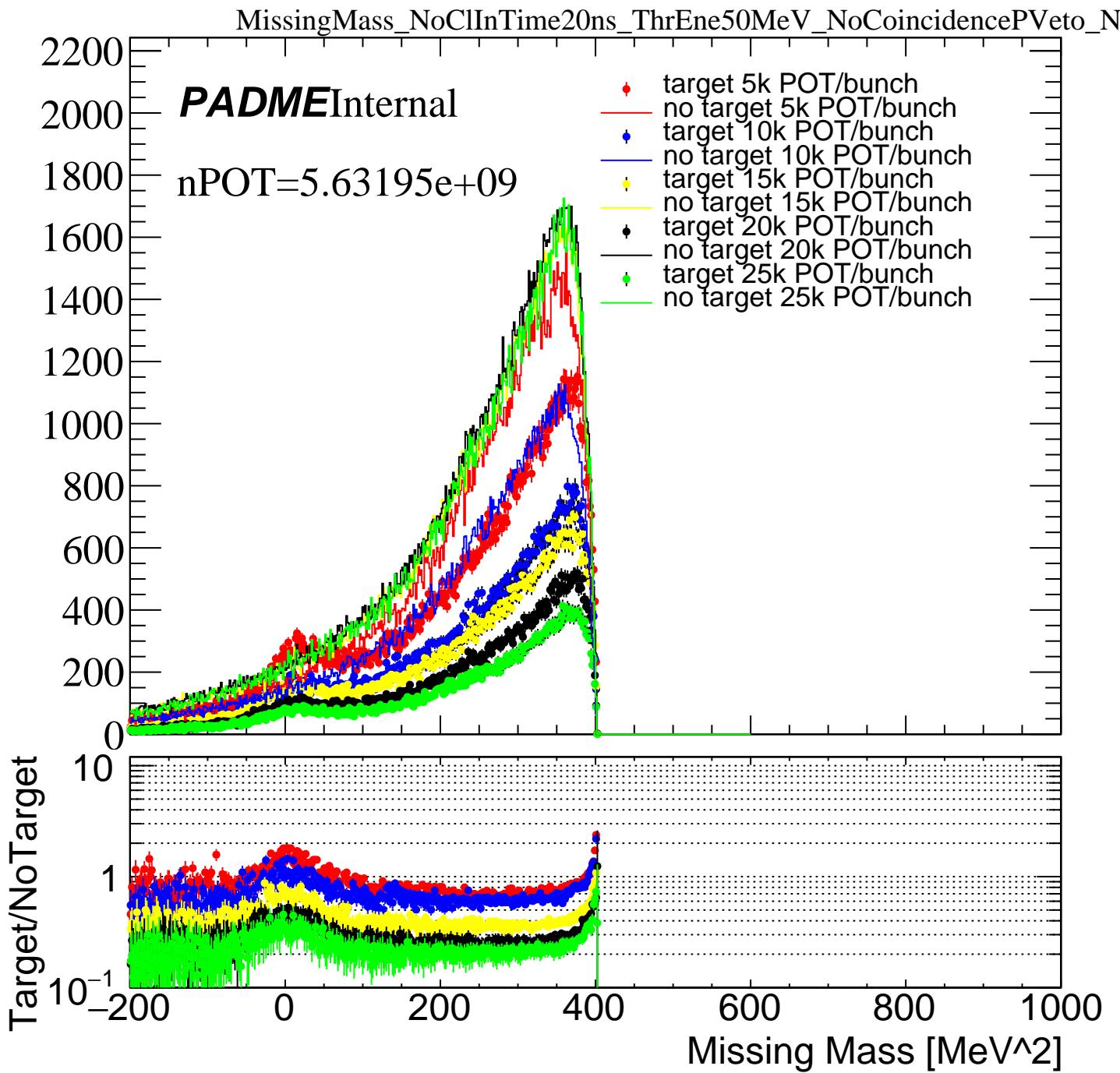


MissingMass_NoClInTime10ns_ThrEne50MeV

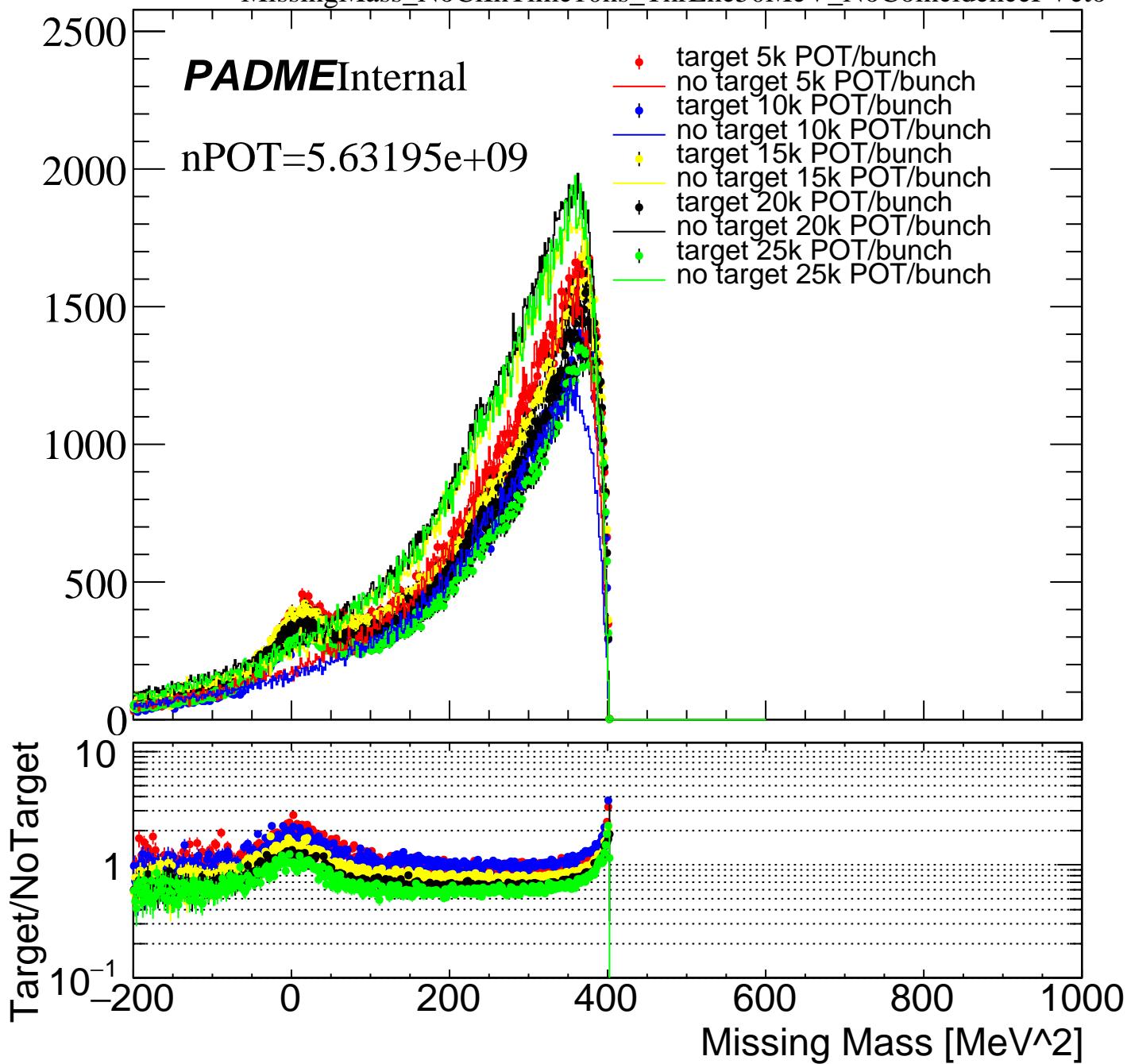


MissingMass_NoClInTime20ns_ThrEne50MeV_NoCoincidencePVeto





MissingMass_NoClInTime10ns_ThrEne50MeV_NoCoincidencePVeto



MissingMass_NoClInTime10ns_ThrEne50MeV_NoCoincidencePVeto_N

