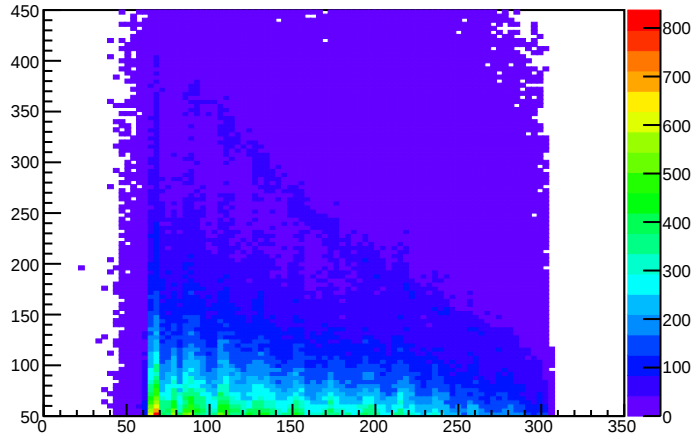
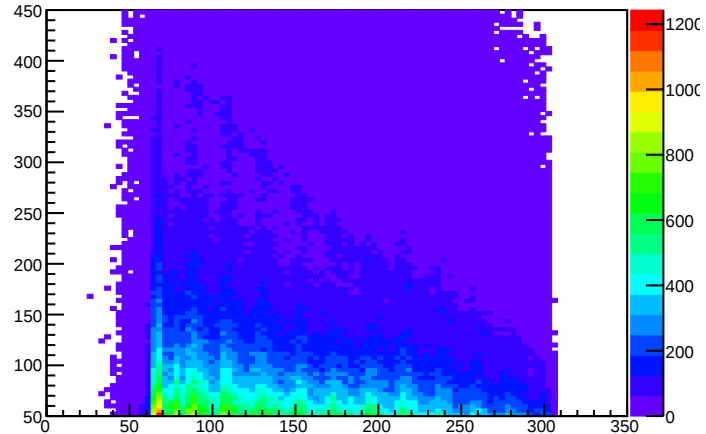


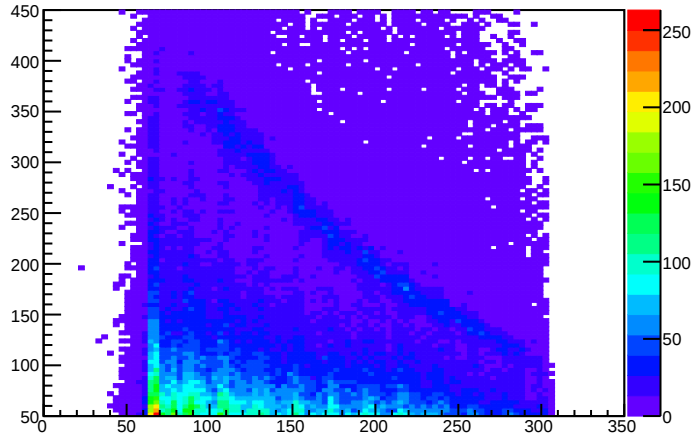
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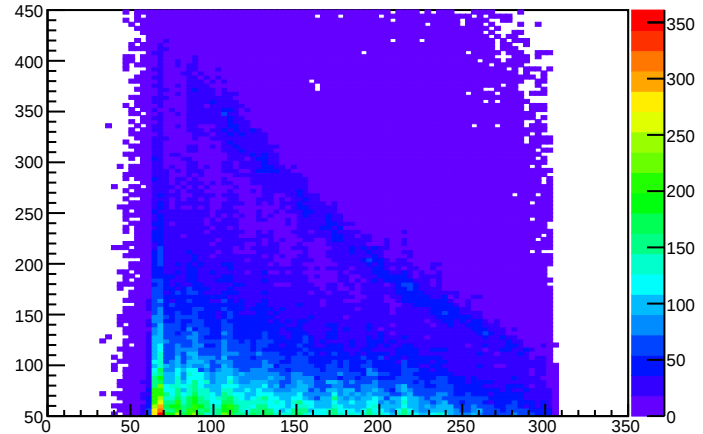
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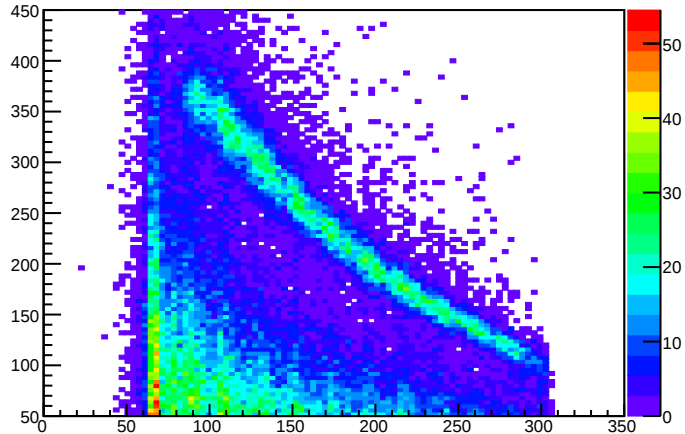
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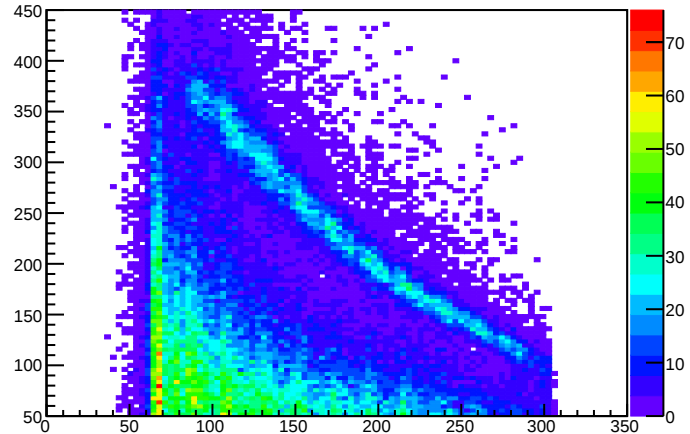
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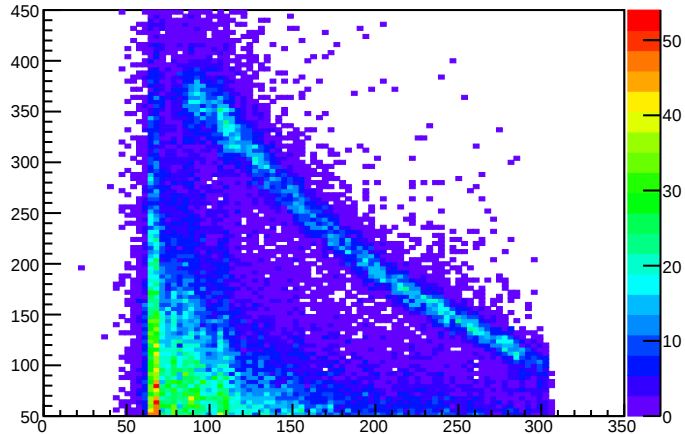
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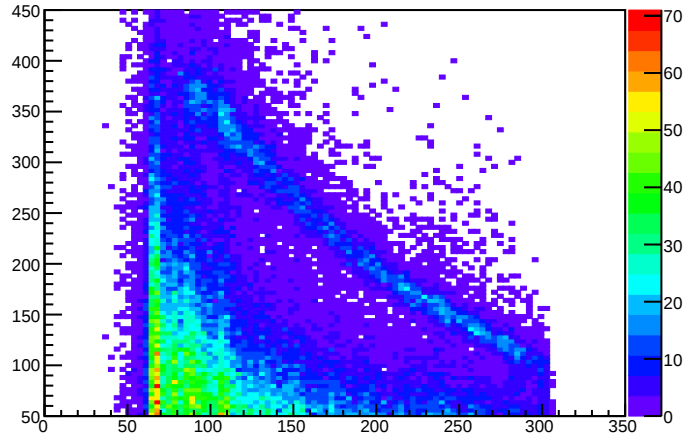
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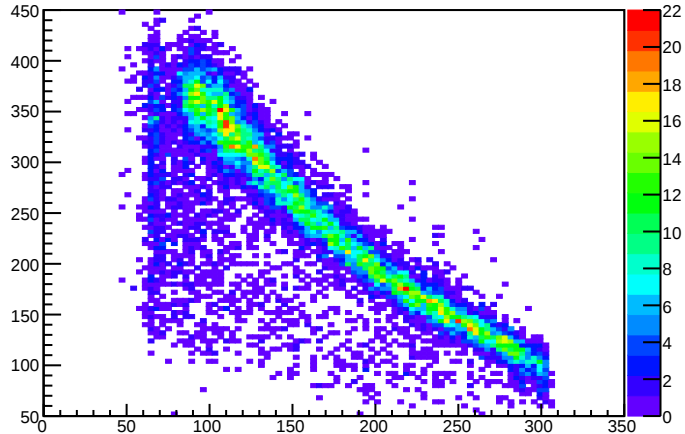
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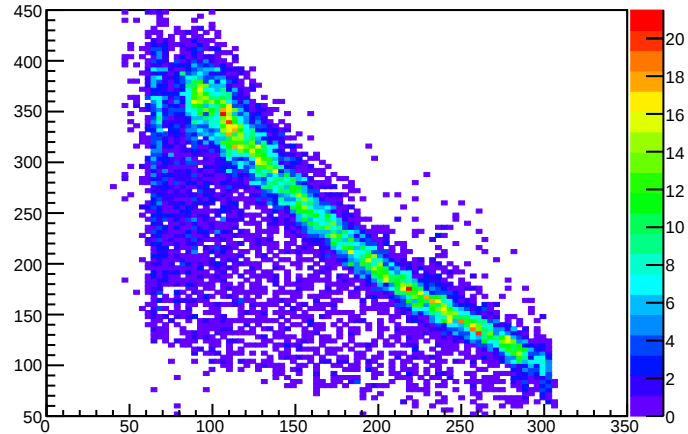
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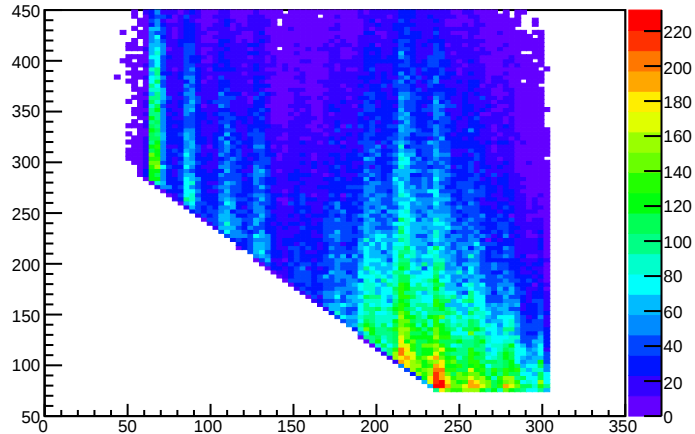
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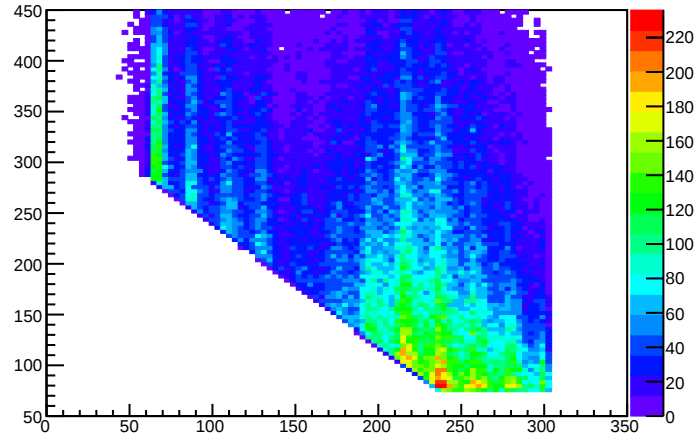
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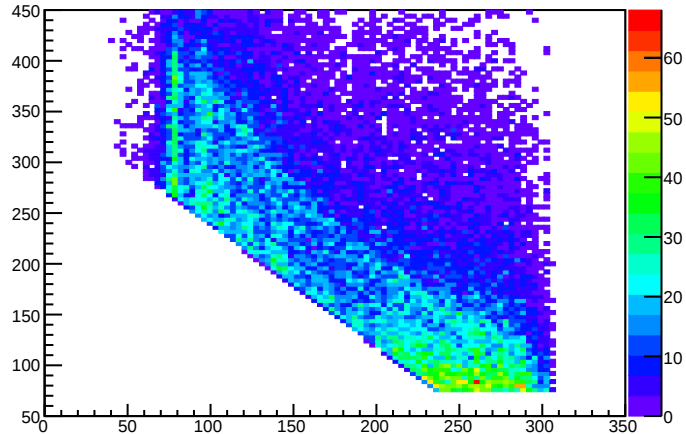
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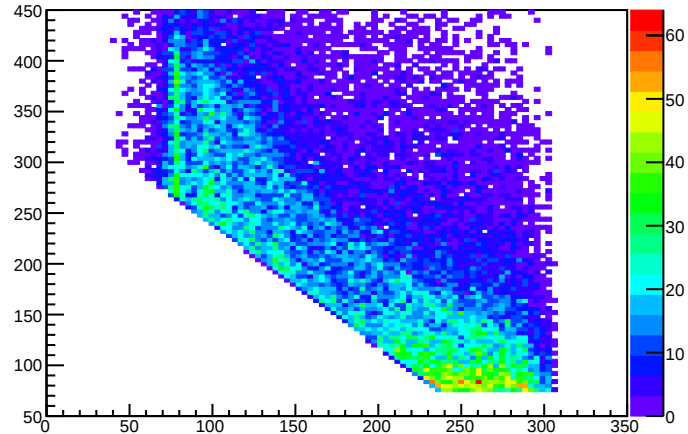
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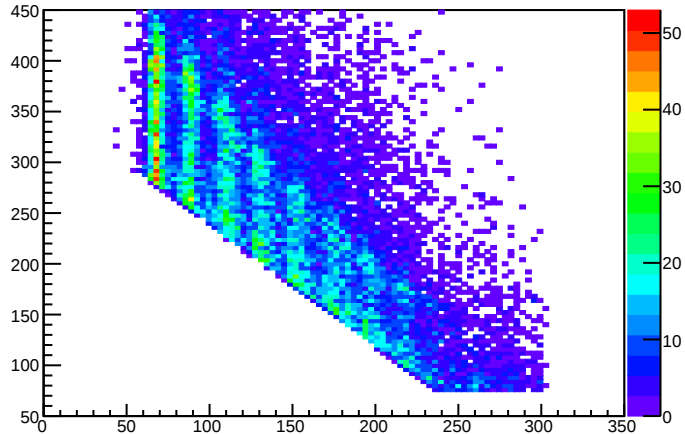
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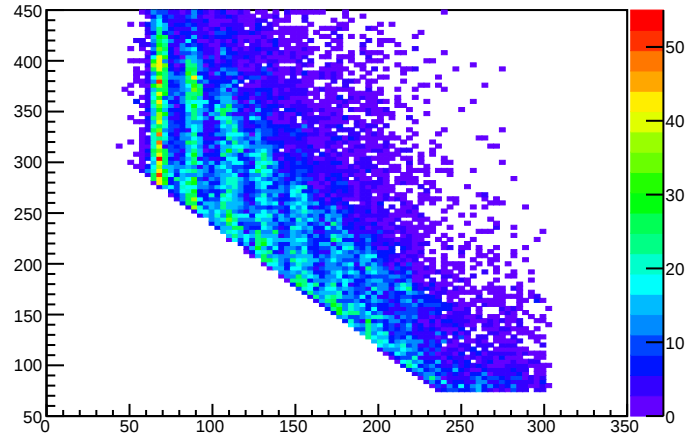
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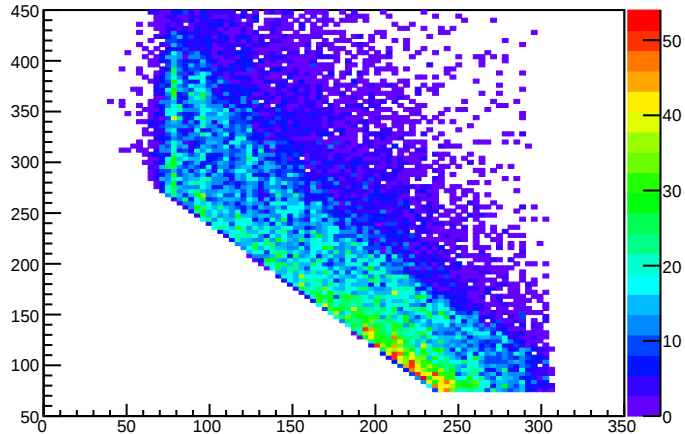
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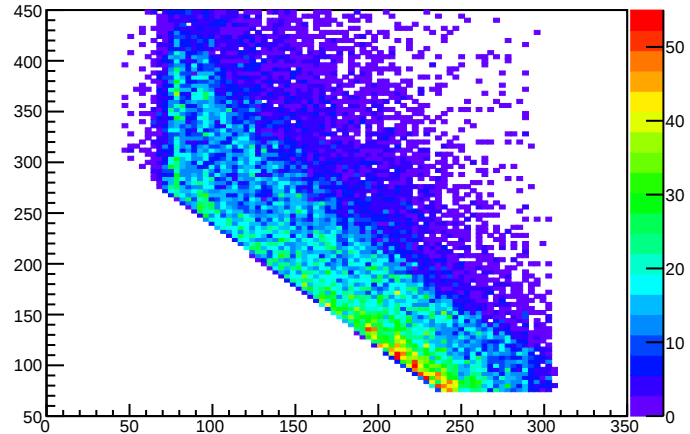
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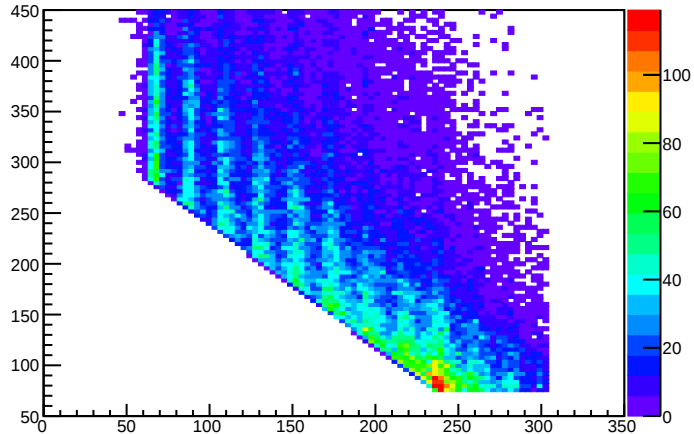
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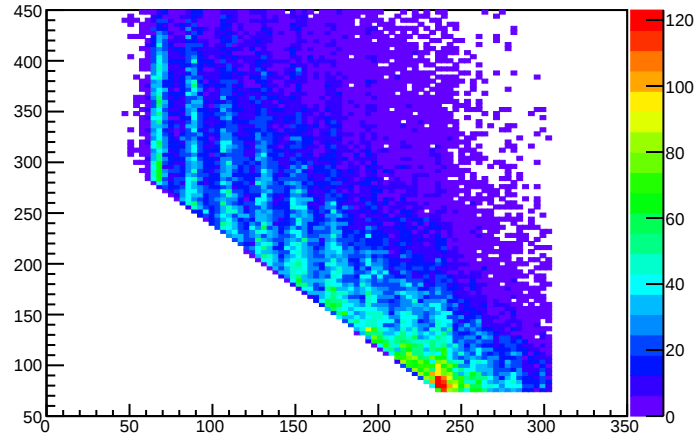
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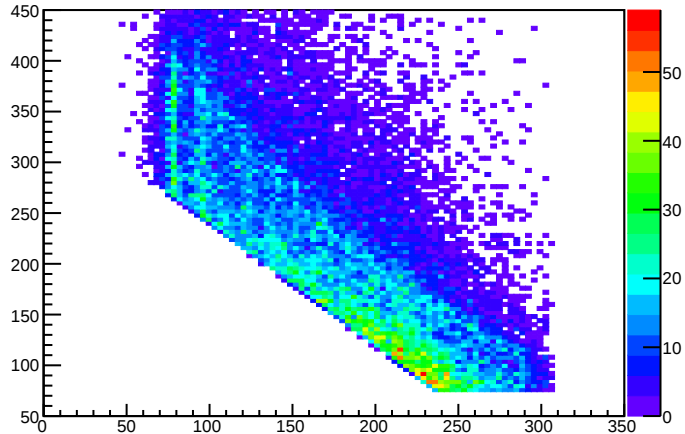
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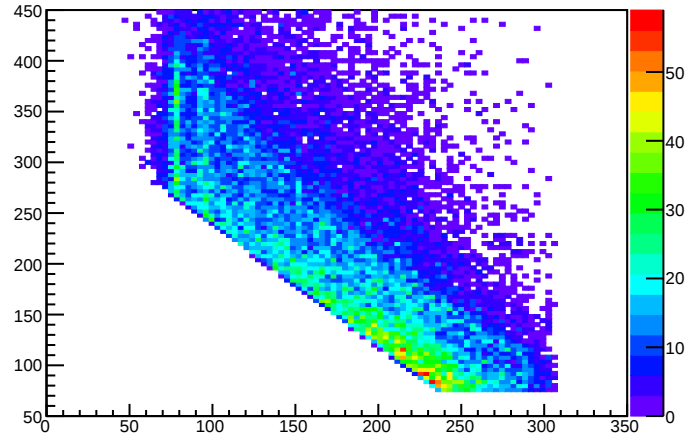
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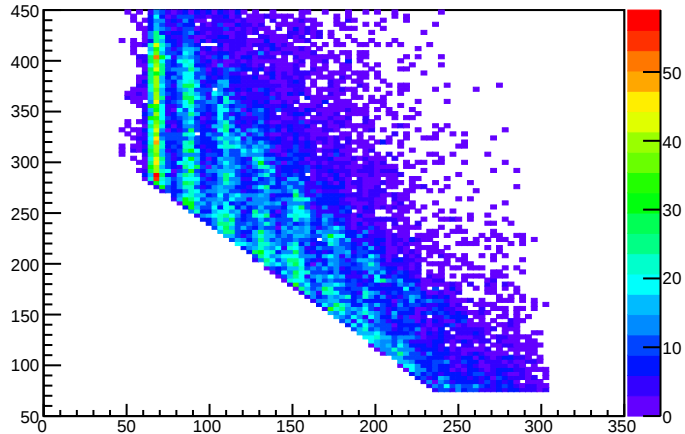
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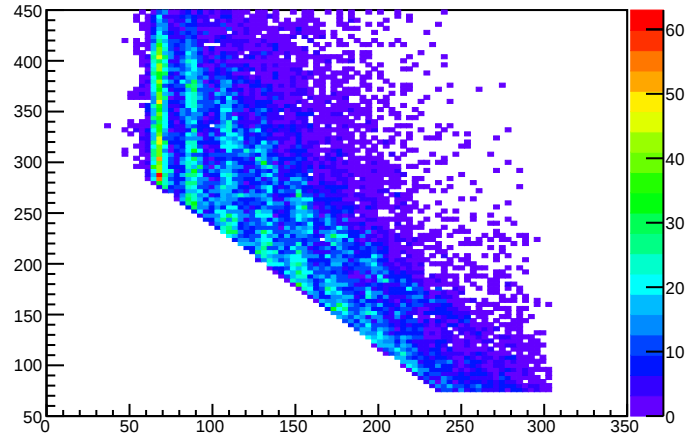
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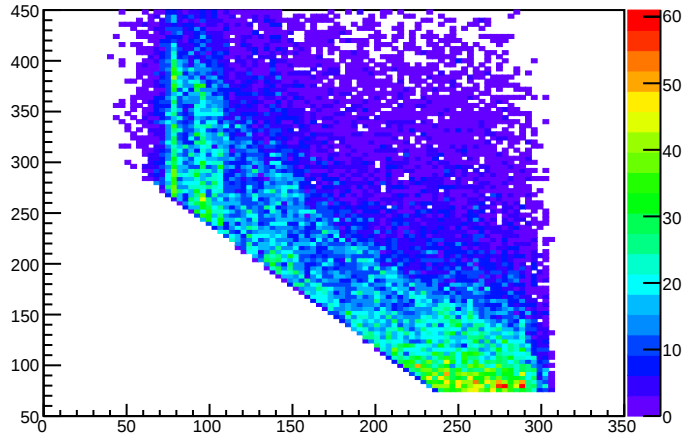
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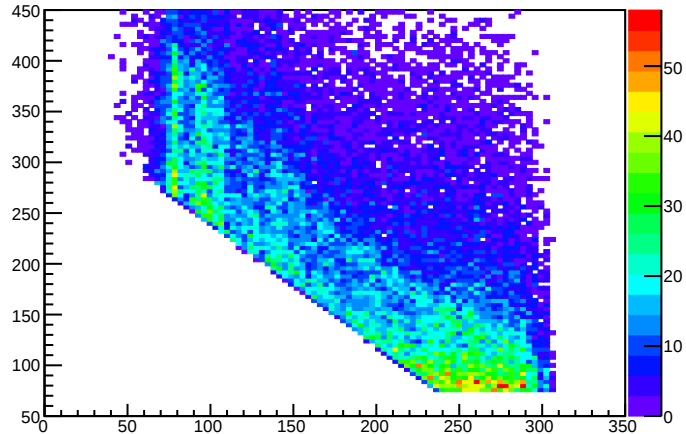
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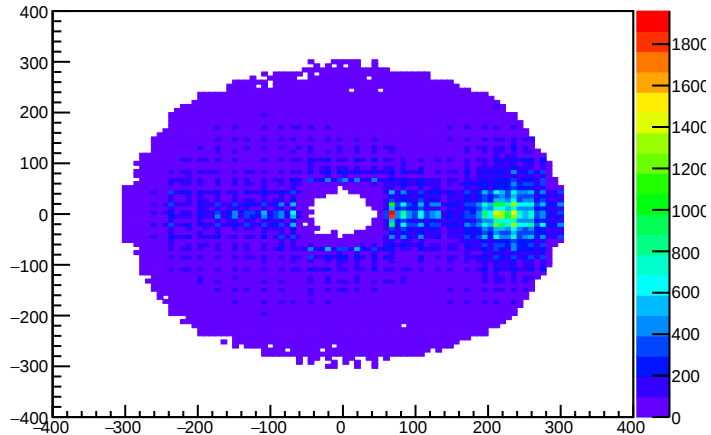
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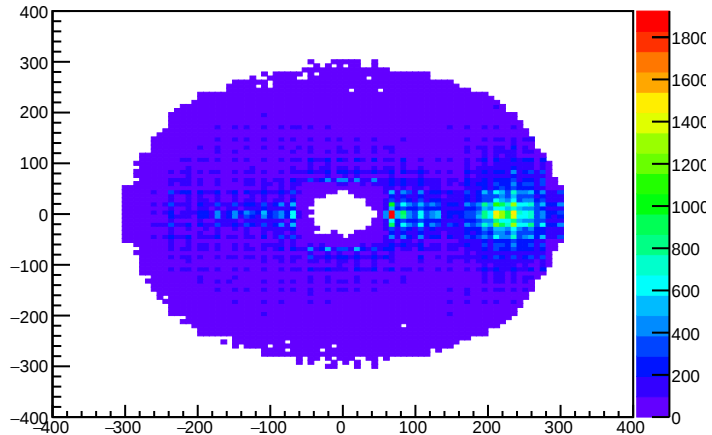
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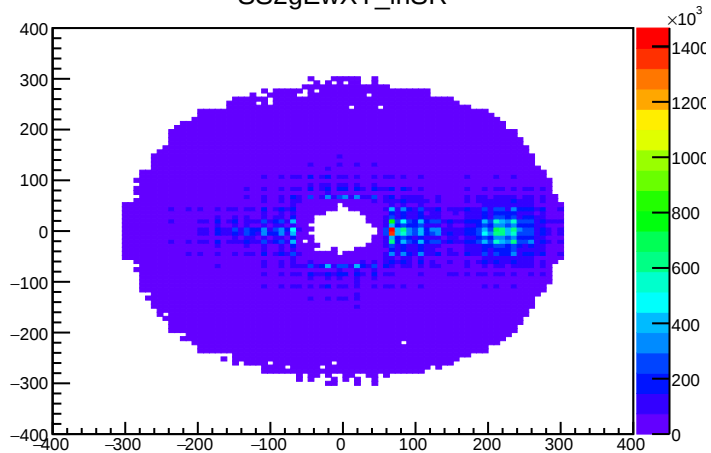
SS2gXY_inSR



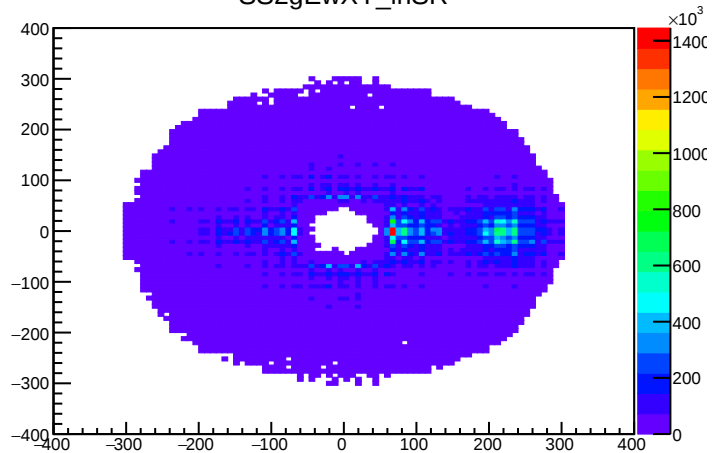
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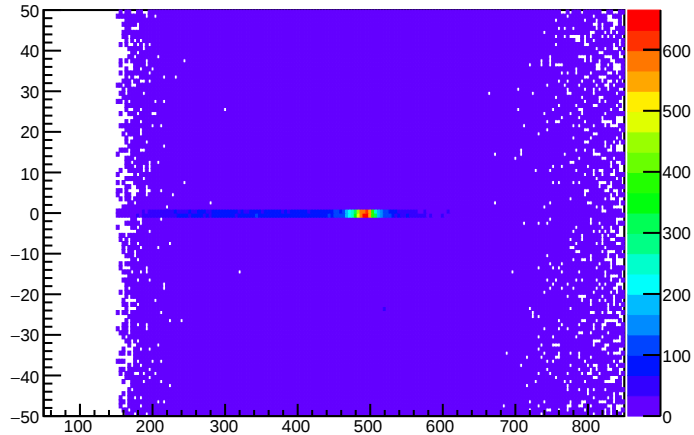
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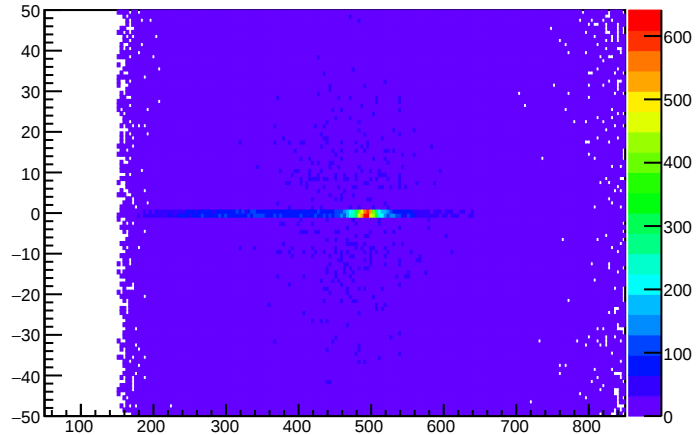
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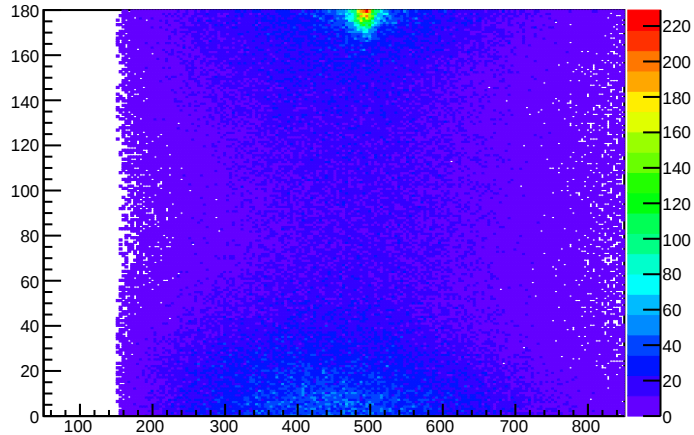
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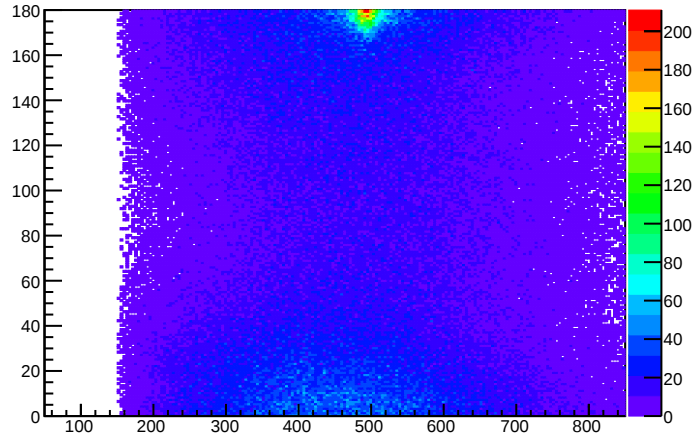
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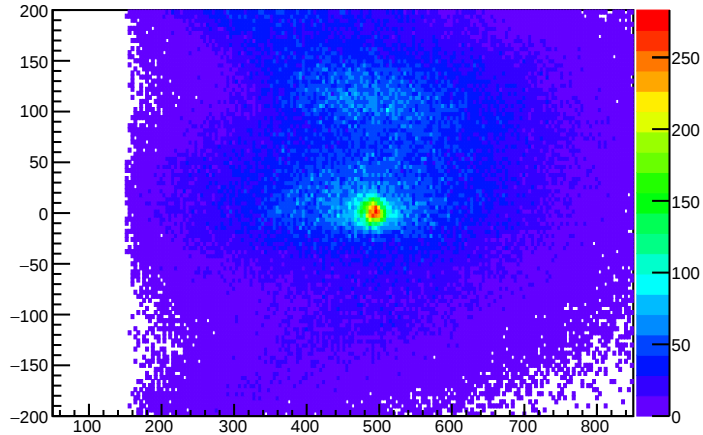
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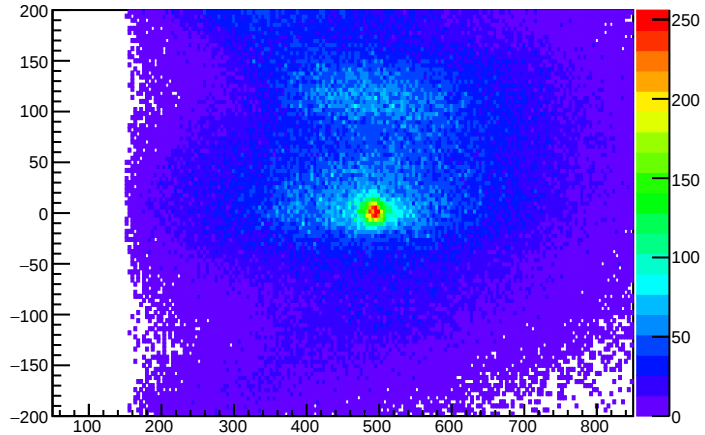
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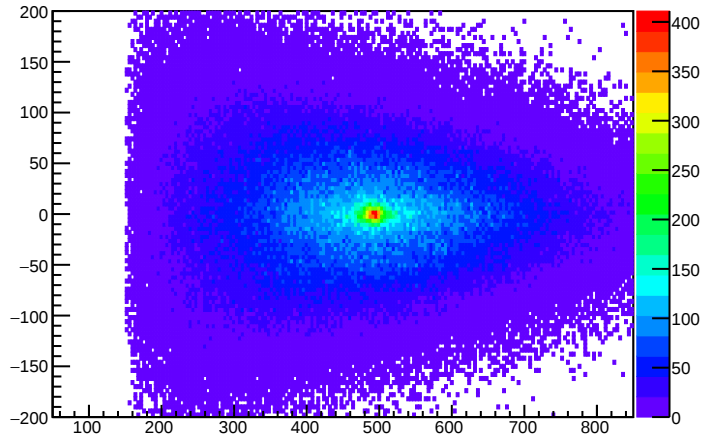
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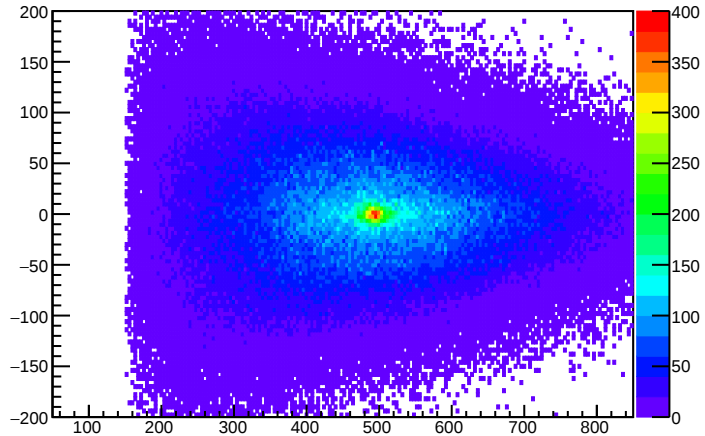
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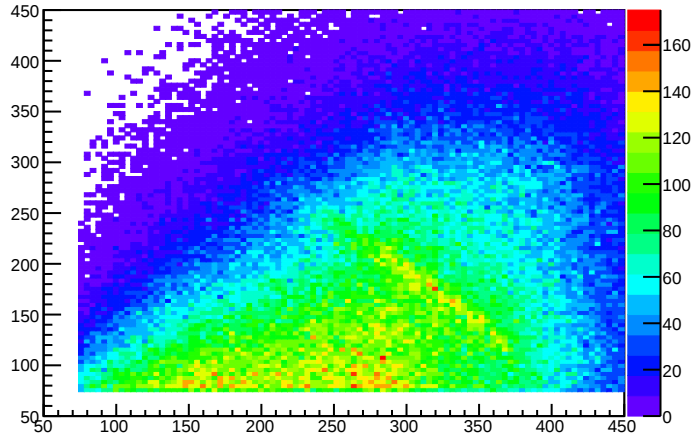
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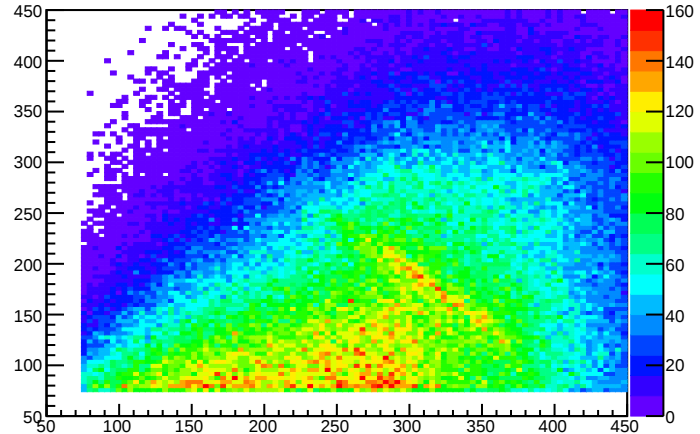
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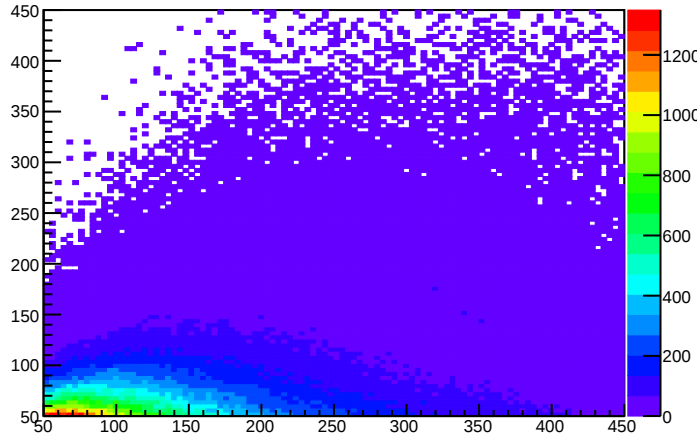
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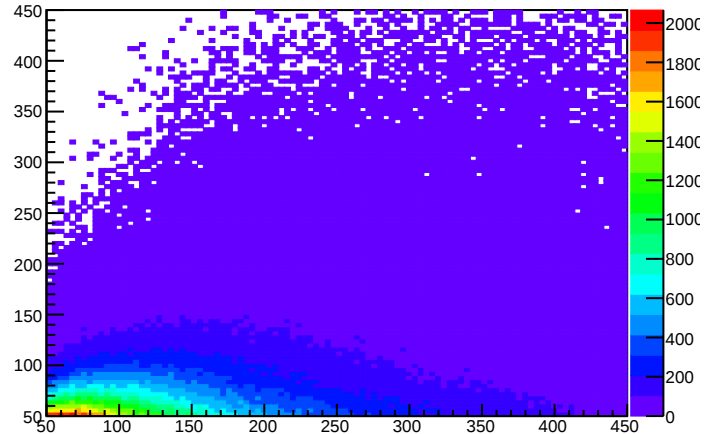
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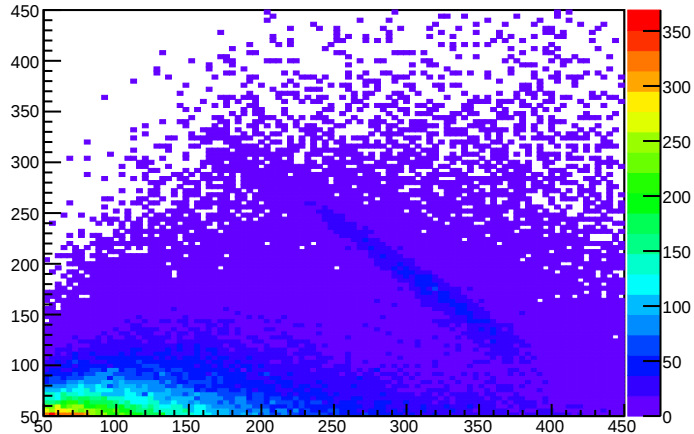
SS2gEVsE_passDt



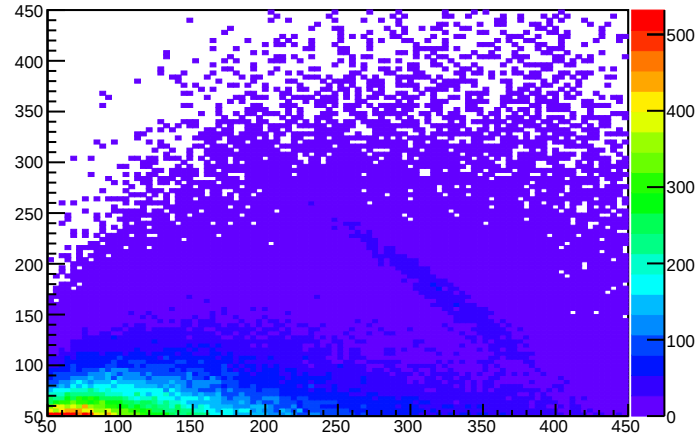
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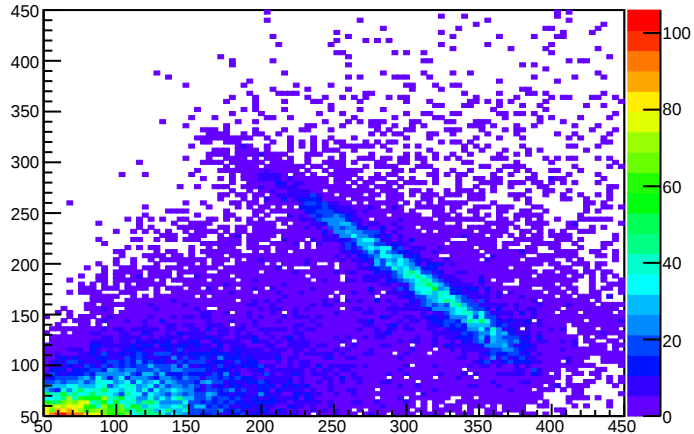
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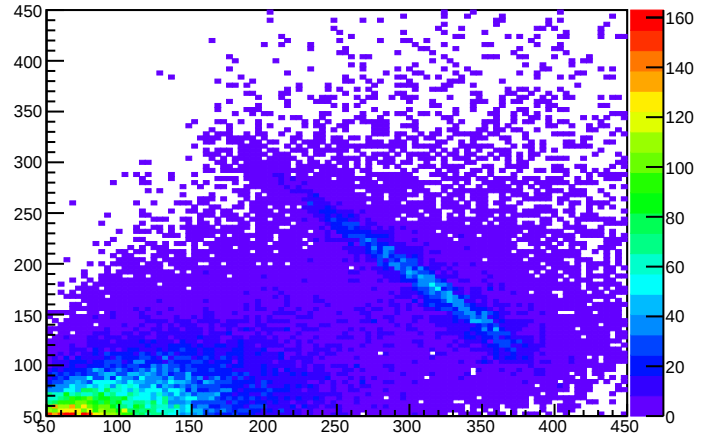
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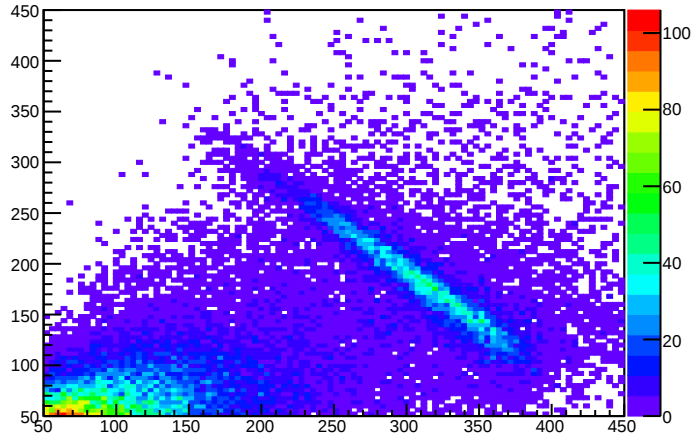
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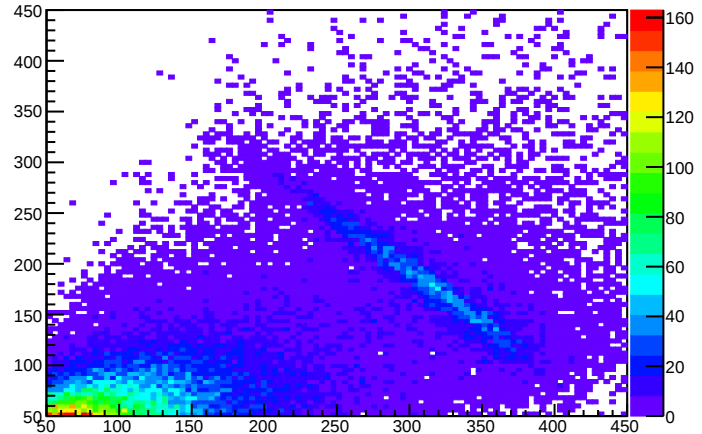
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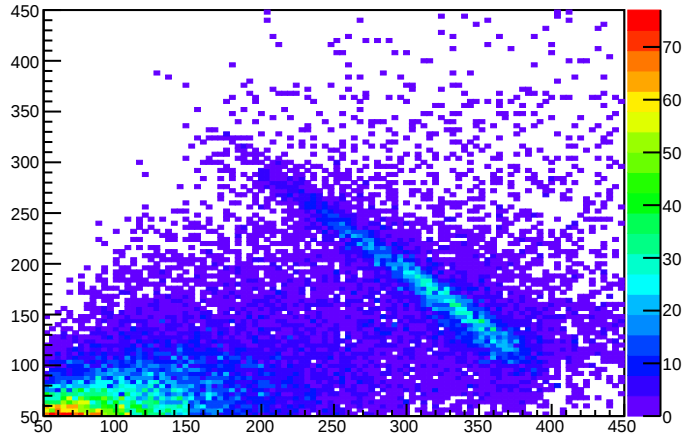
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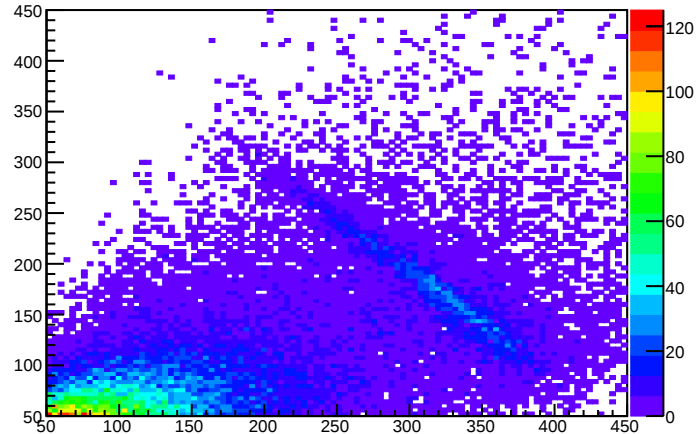
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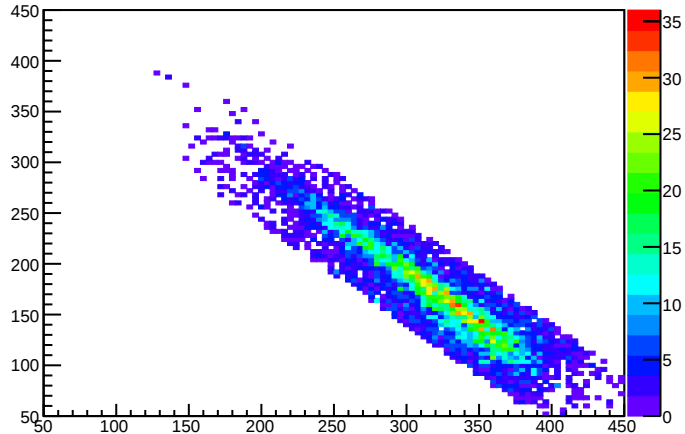
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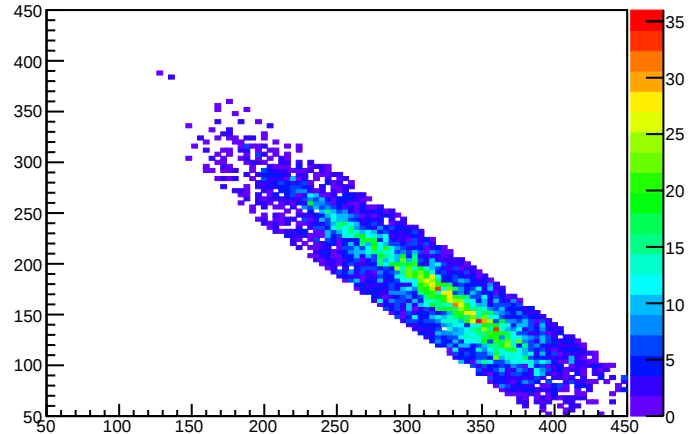
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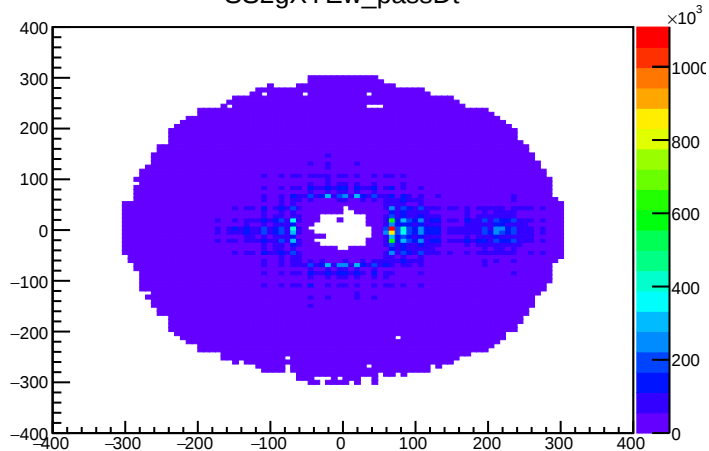
SS2gEVsE_passDtDphiCogDsume



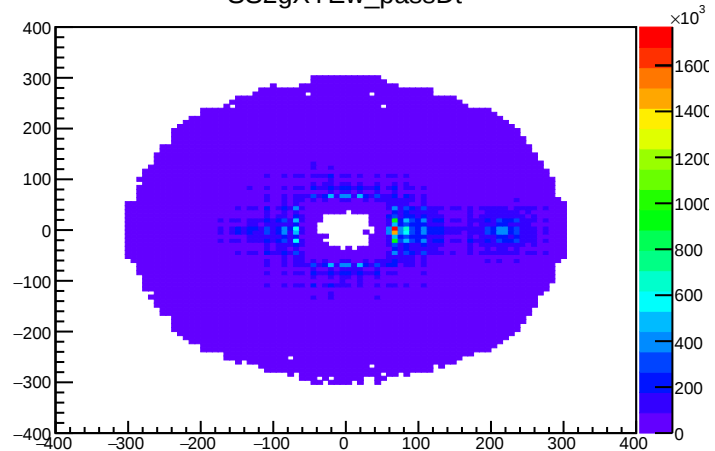
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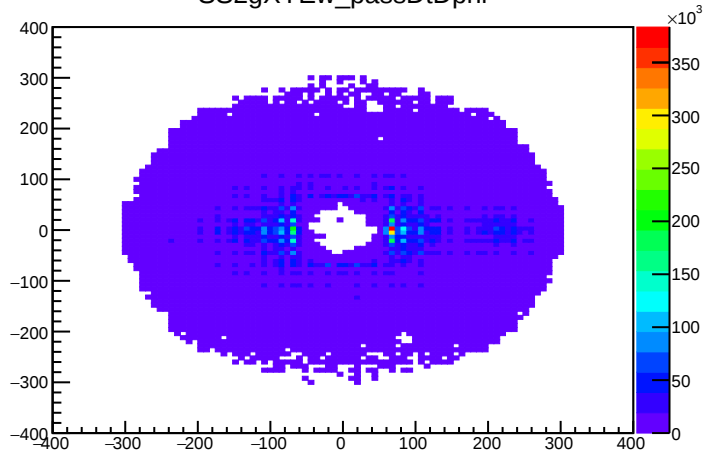
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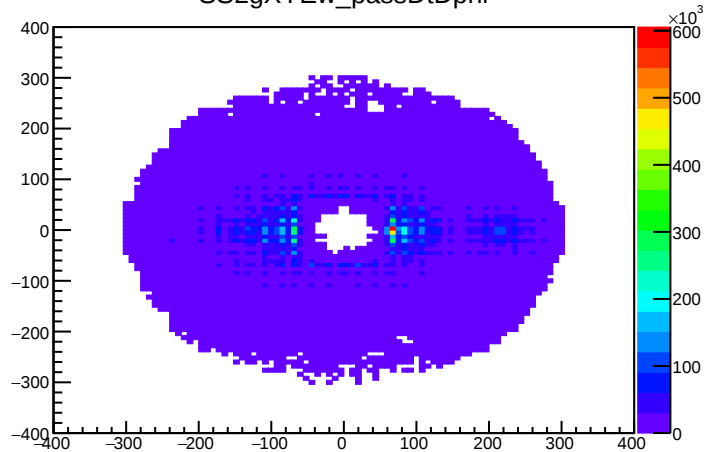
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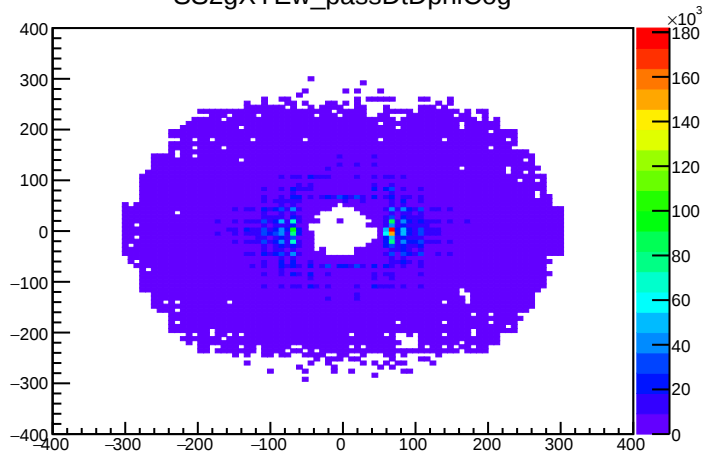
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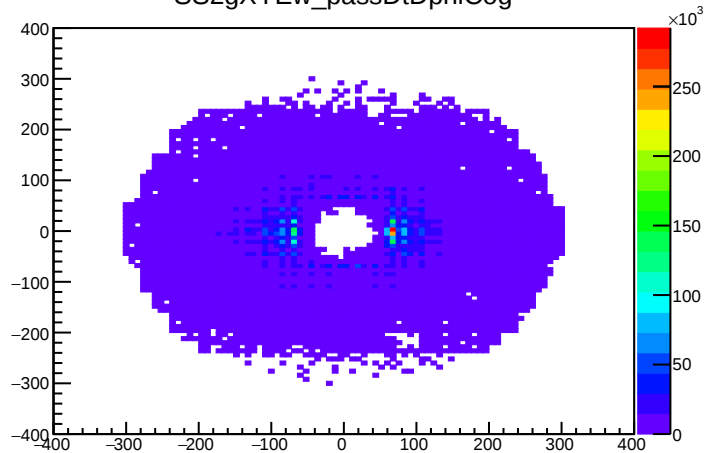
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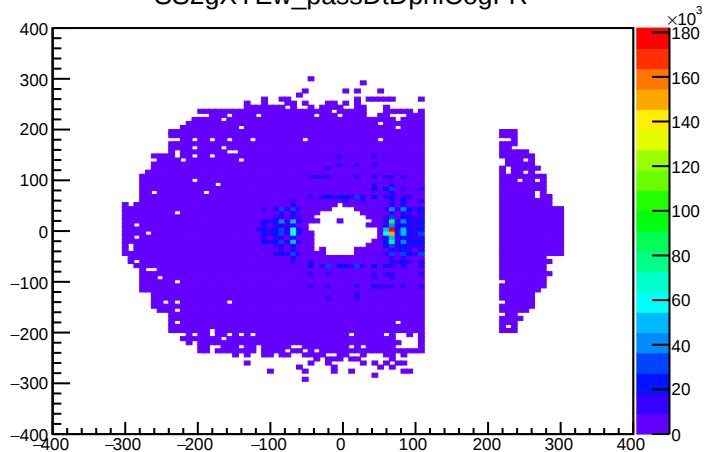
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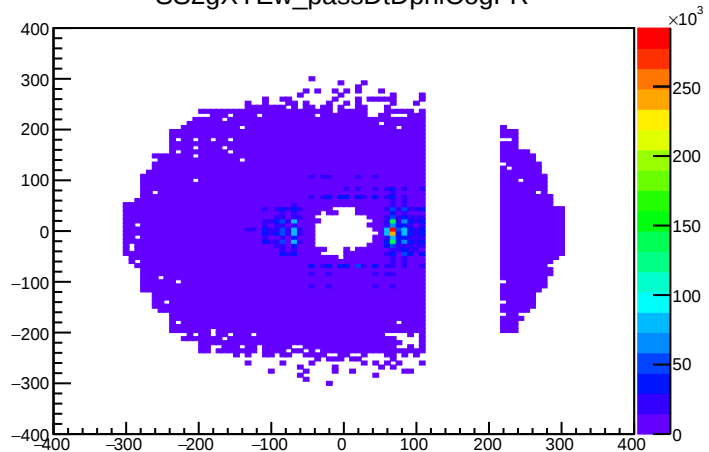
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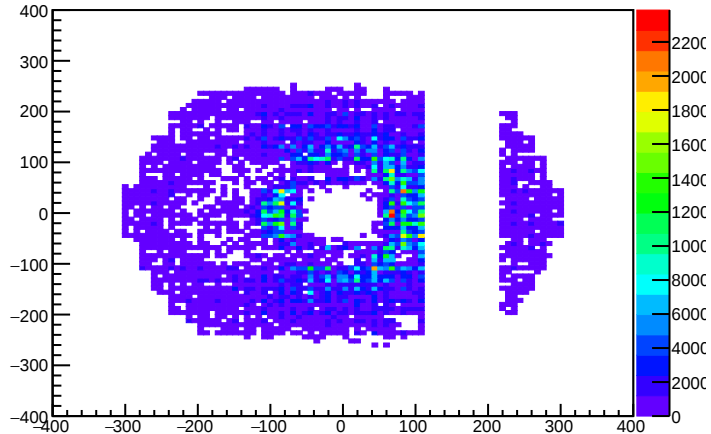
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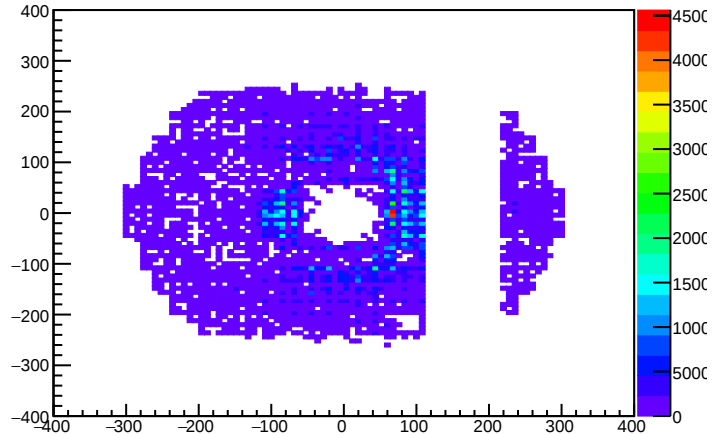
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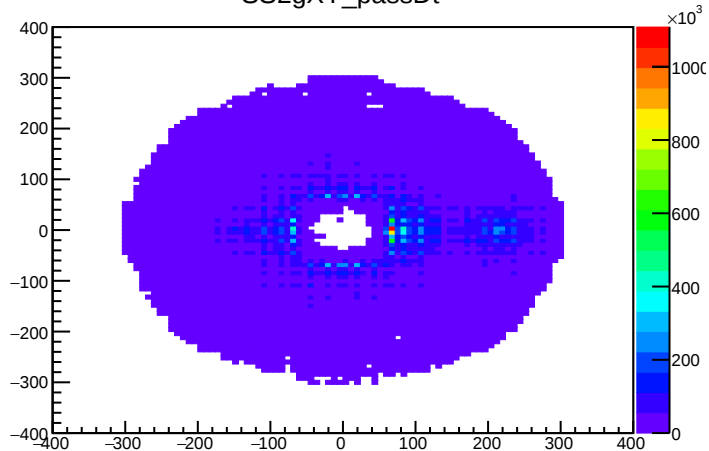
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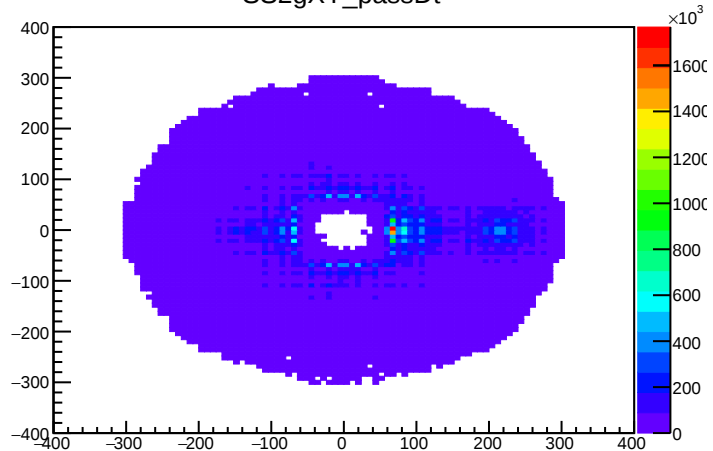
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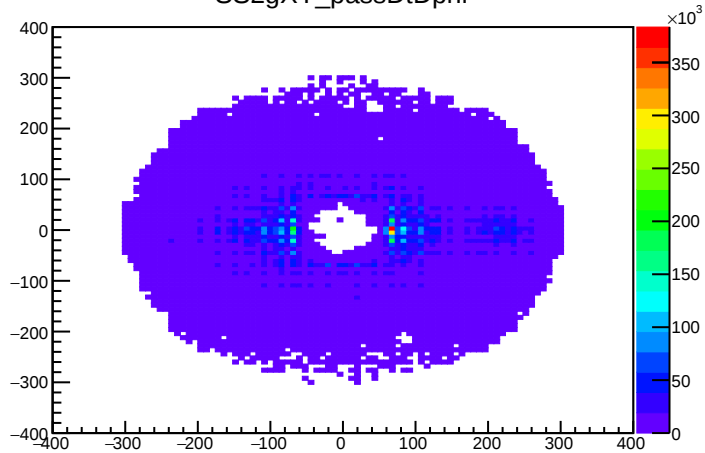
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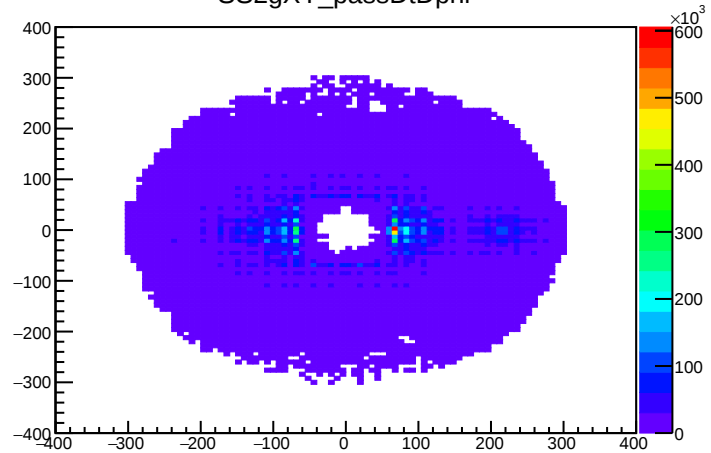
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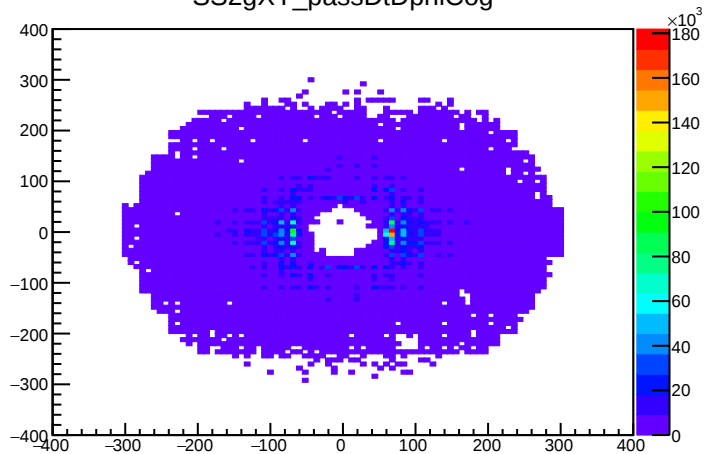
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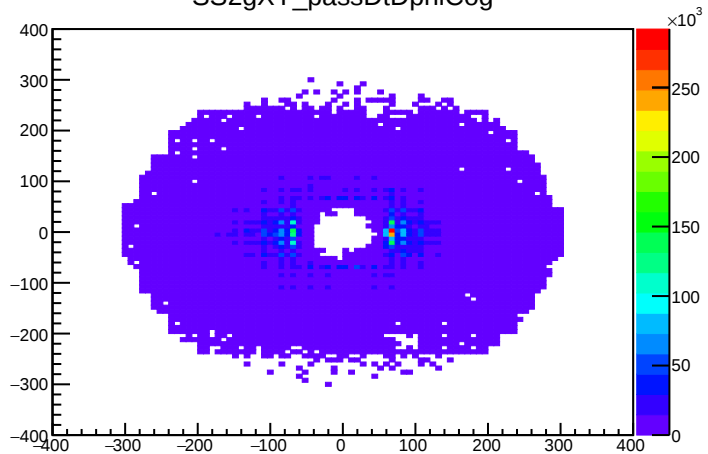
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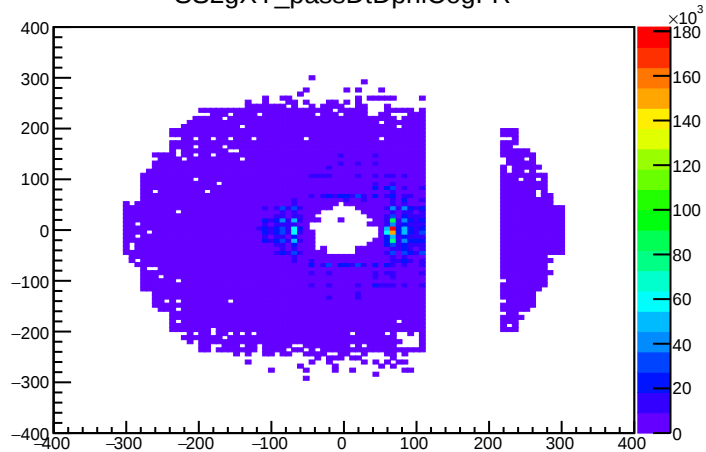
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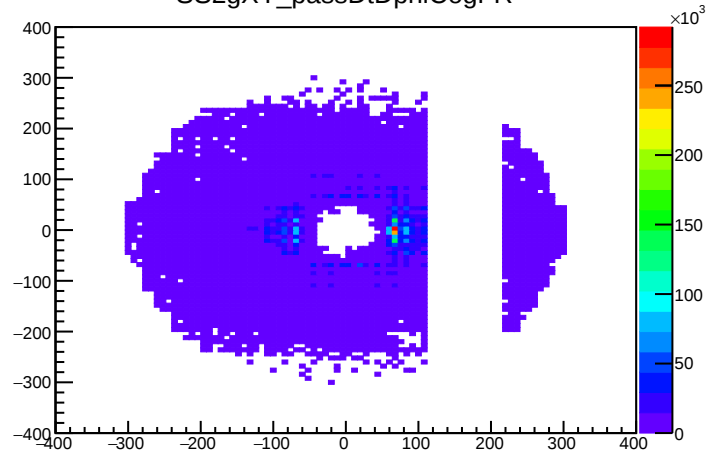
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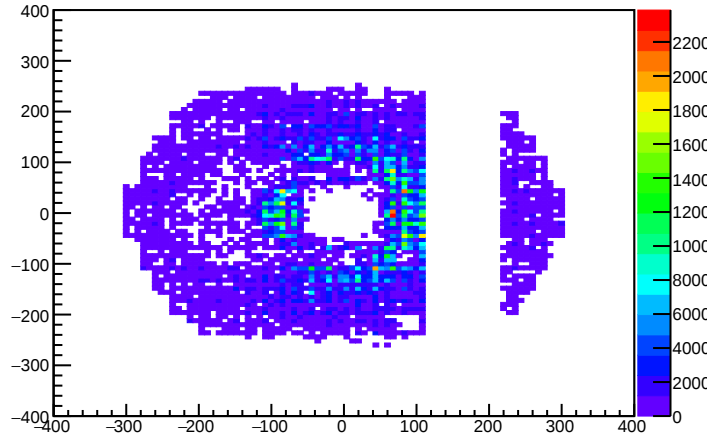
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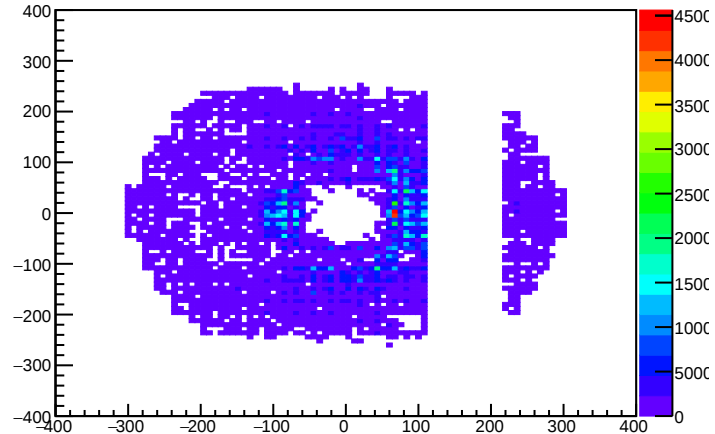
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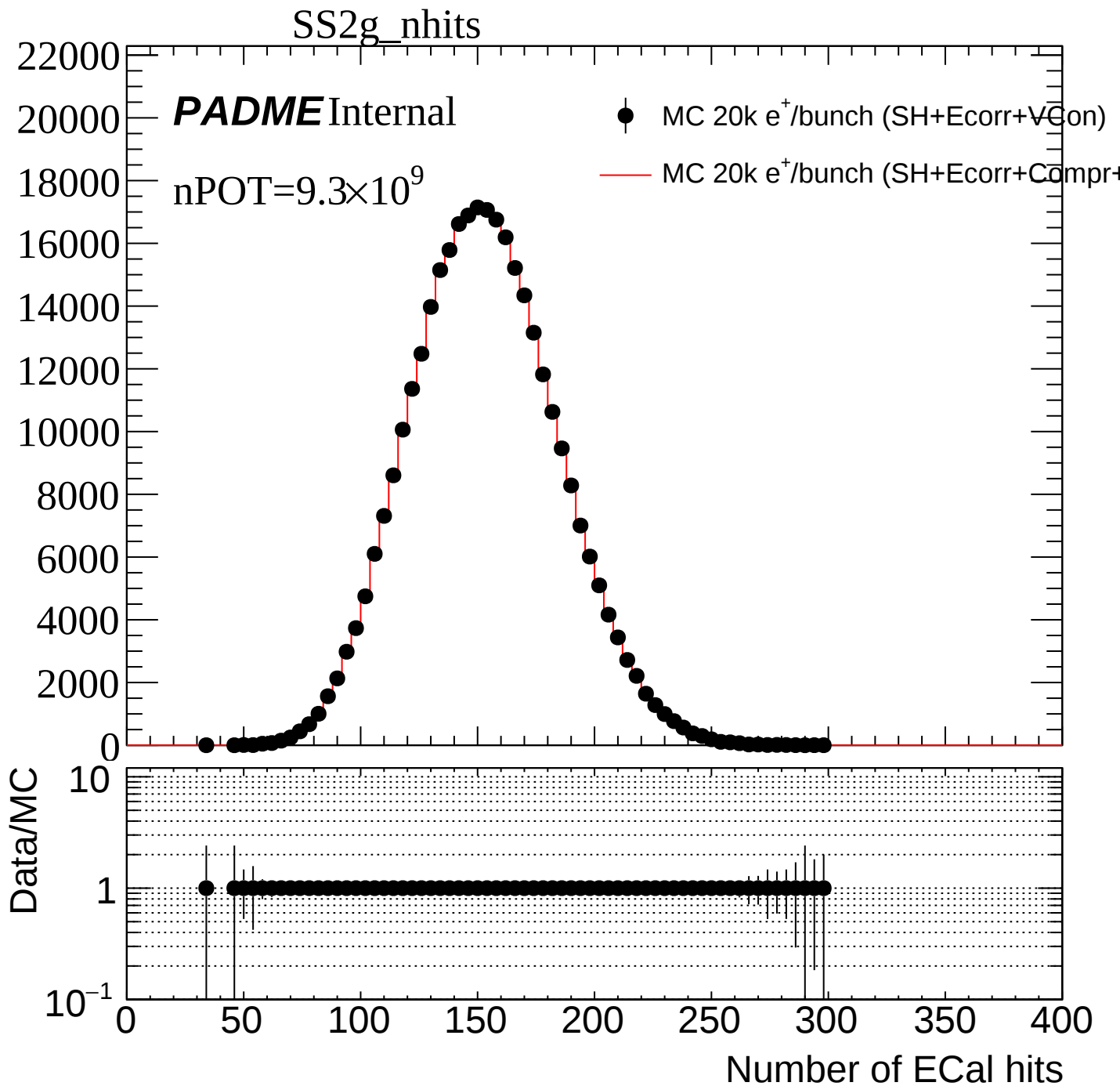


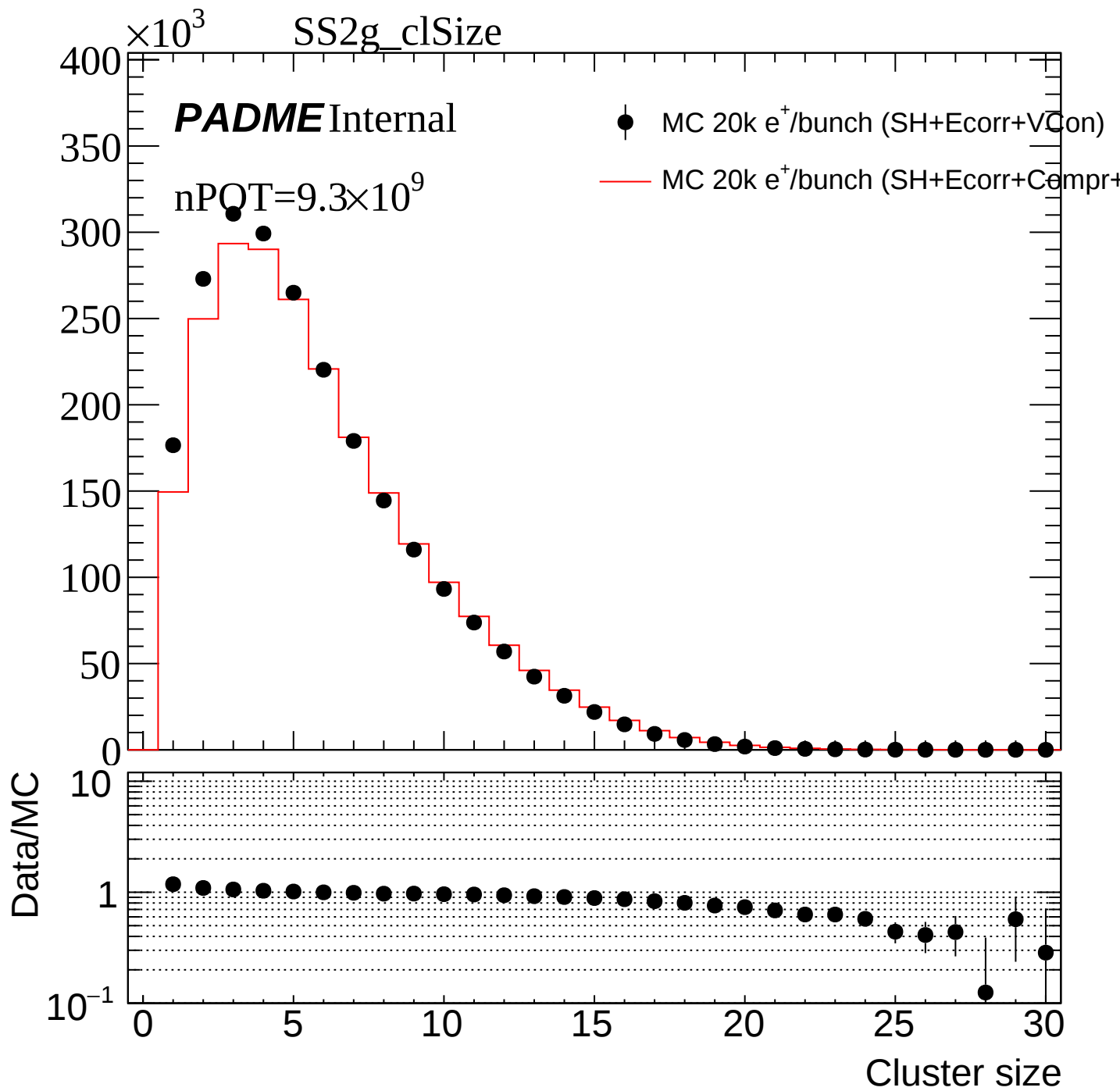
SS2gXY_passDtDphiCogDsume



SS2gXY_passDtDphiCogDsume







NposInBunch_beam

PADME Internal

nPOT= 9.3×10^9

● MC 20k e⁺/bunch (SH+Ecorr+VCon)

— MC 20k e⁺/bunch (SH+Ecorr+Compr+)

Data/MC

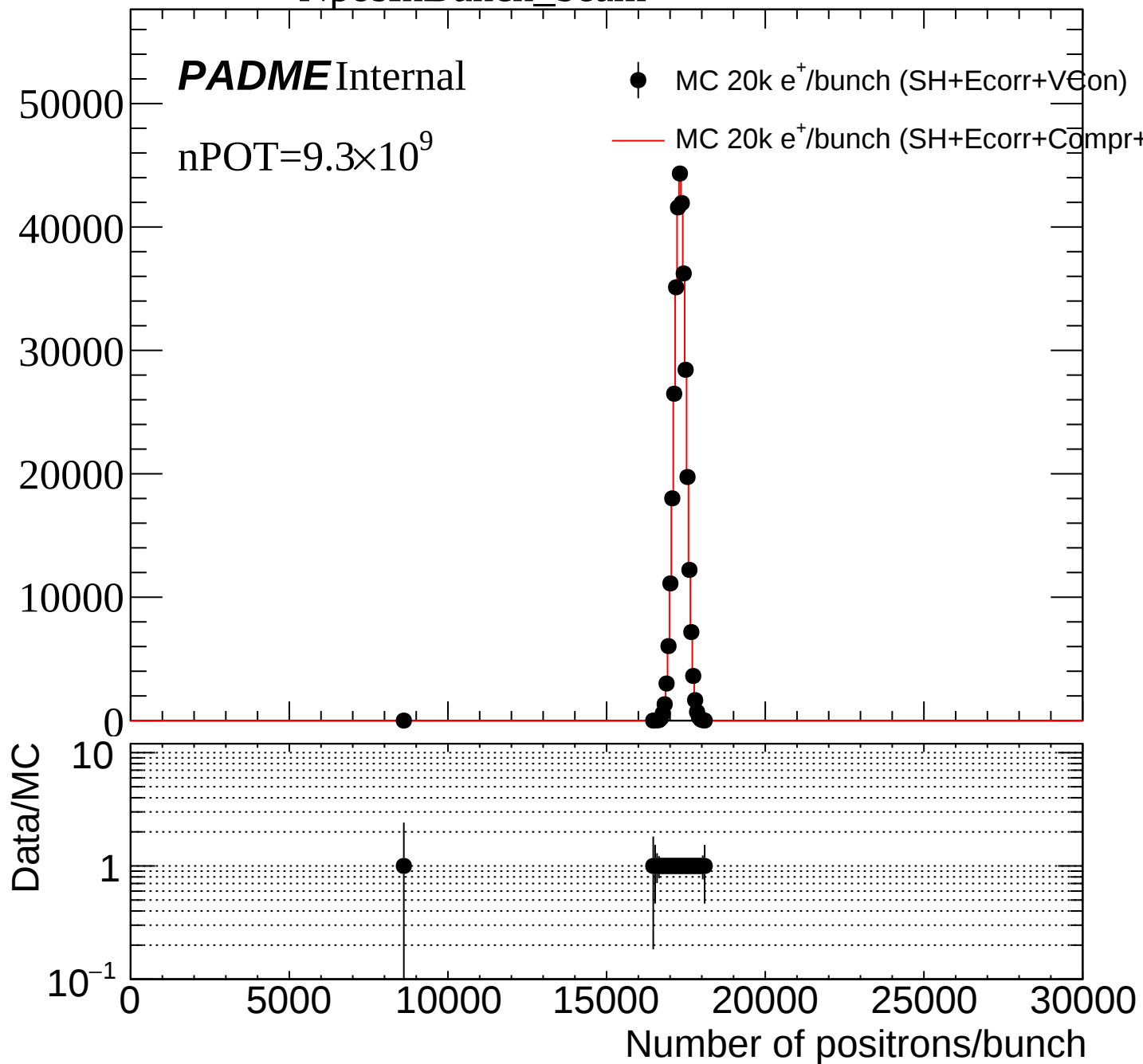
10^{-1}

0

1

10

Number of positrons/bunch



NposInBunch_beam_passDtDphiCogDsume

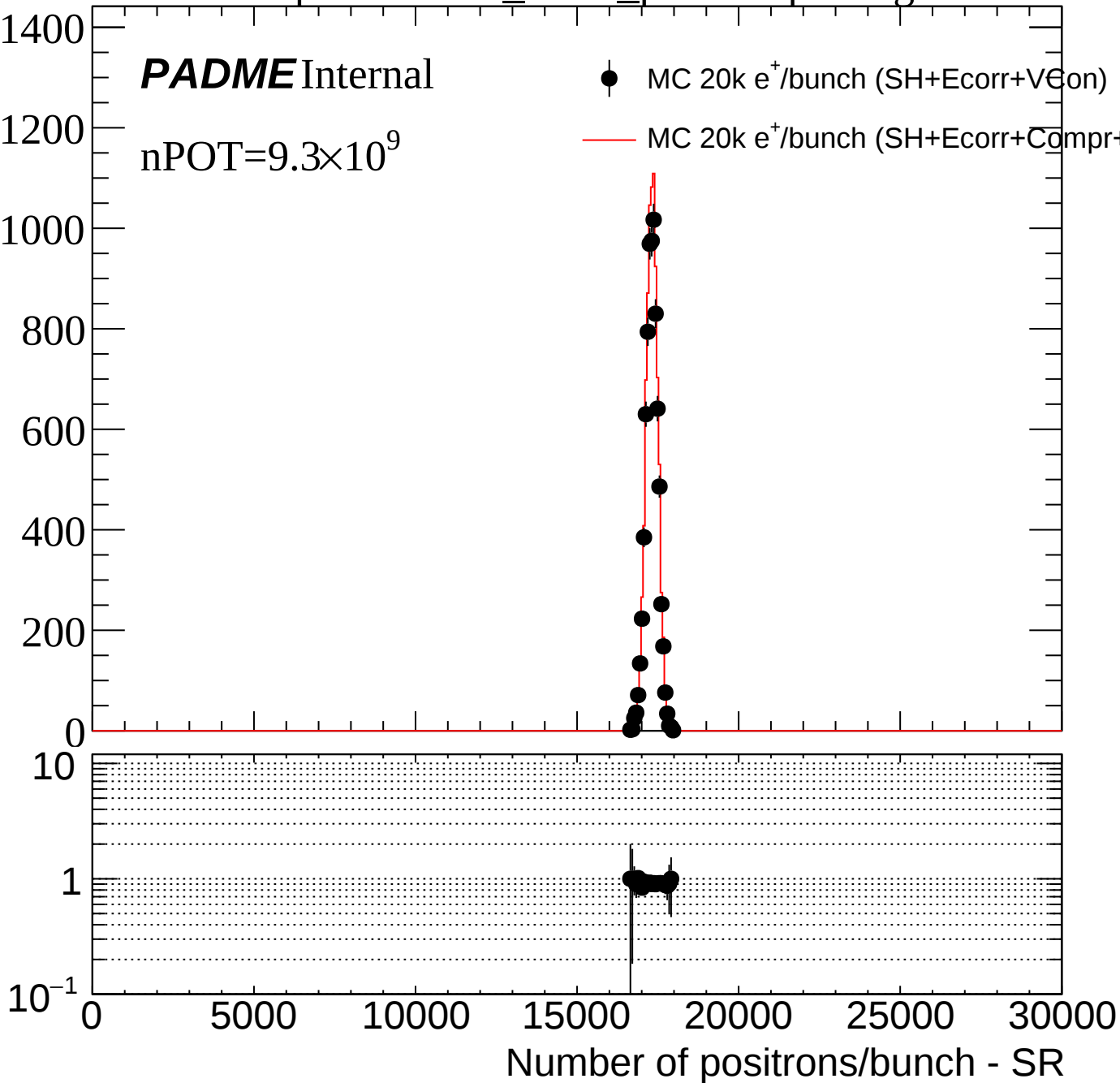
PADME Internal

nPOT=9.3×10⁹

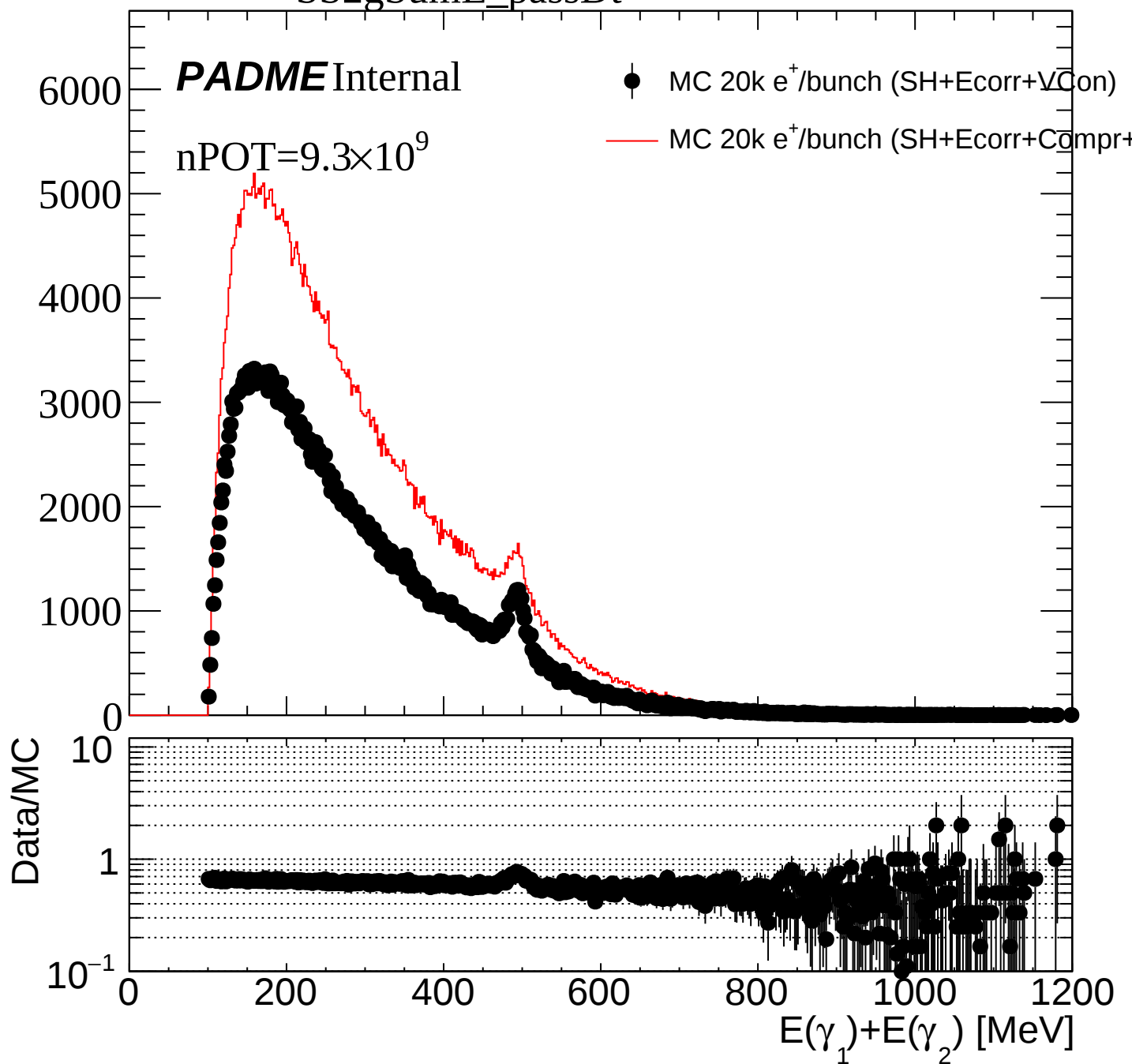
● MC 20k e⁺/bunch (SH+Ecorr+VCon)

— MC 20k e⁺/bunch (SH+Ecorr+Compr+)

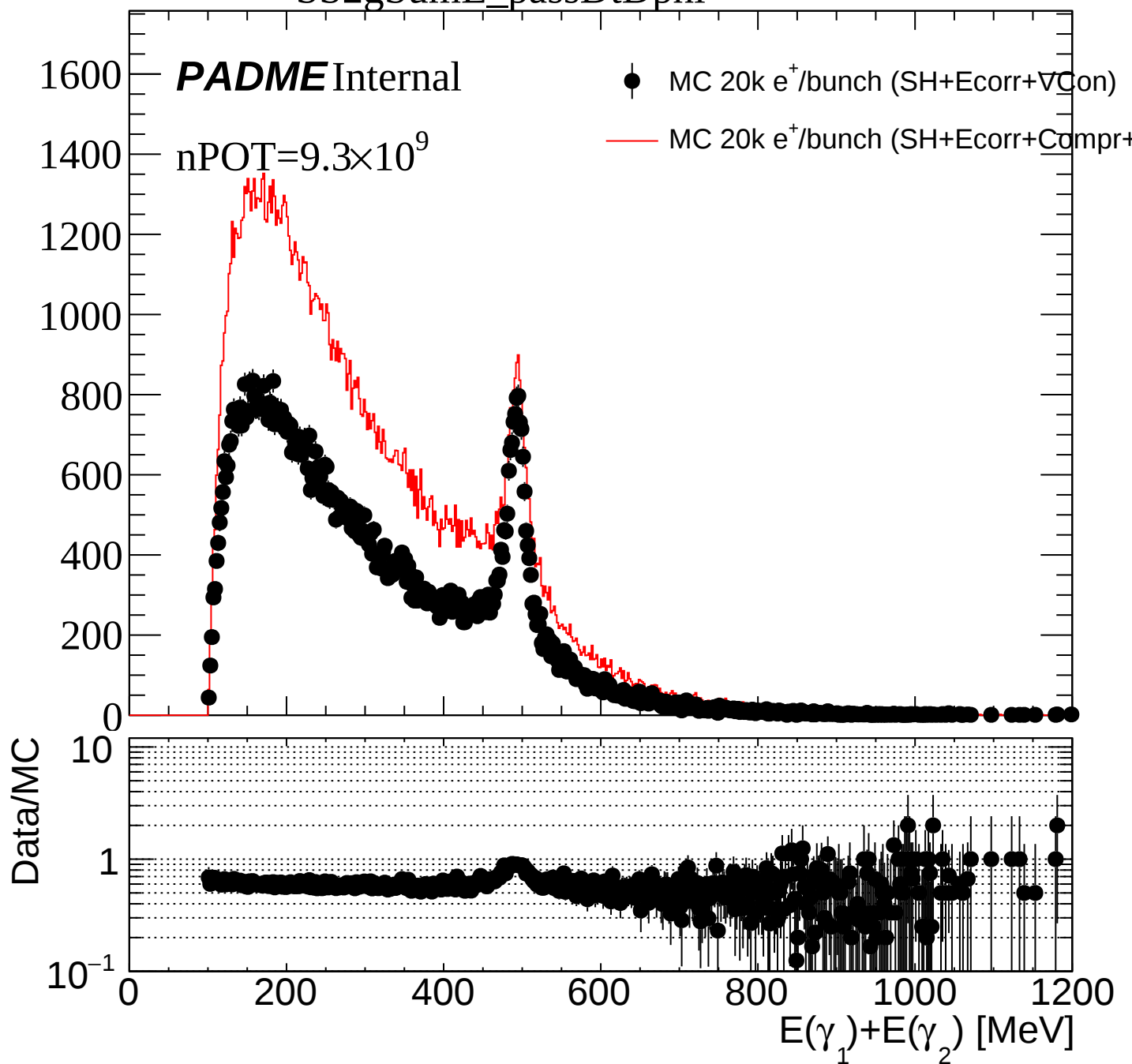
Data/MC



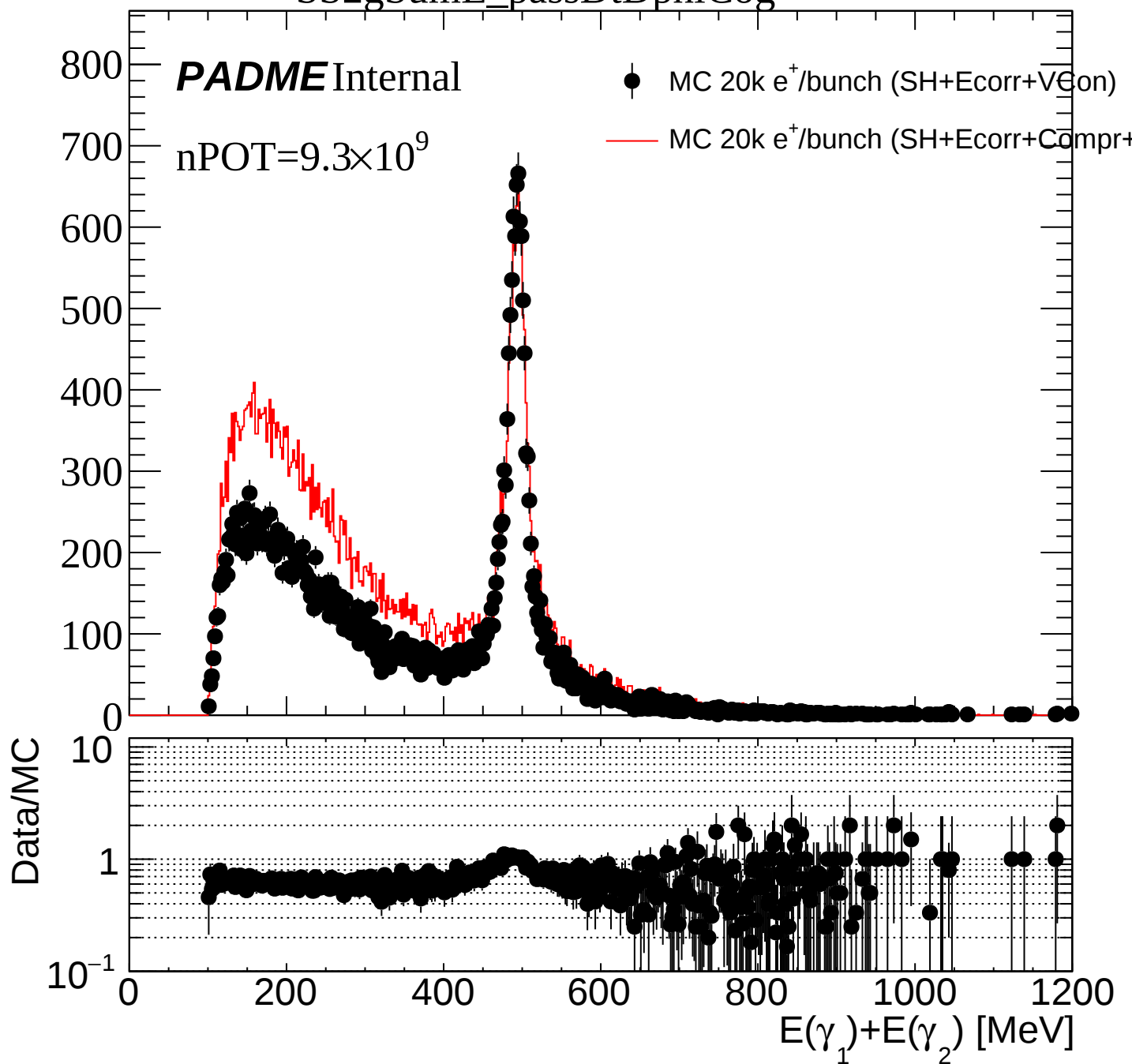
SS2gSumE_passDt



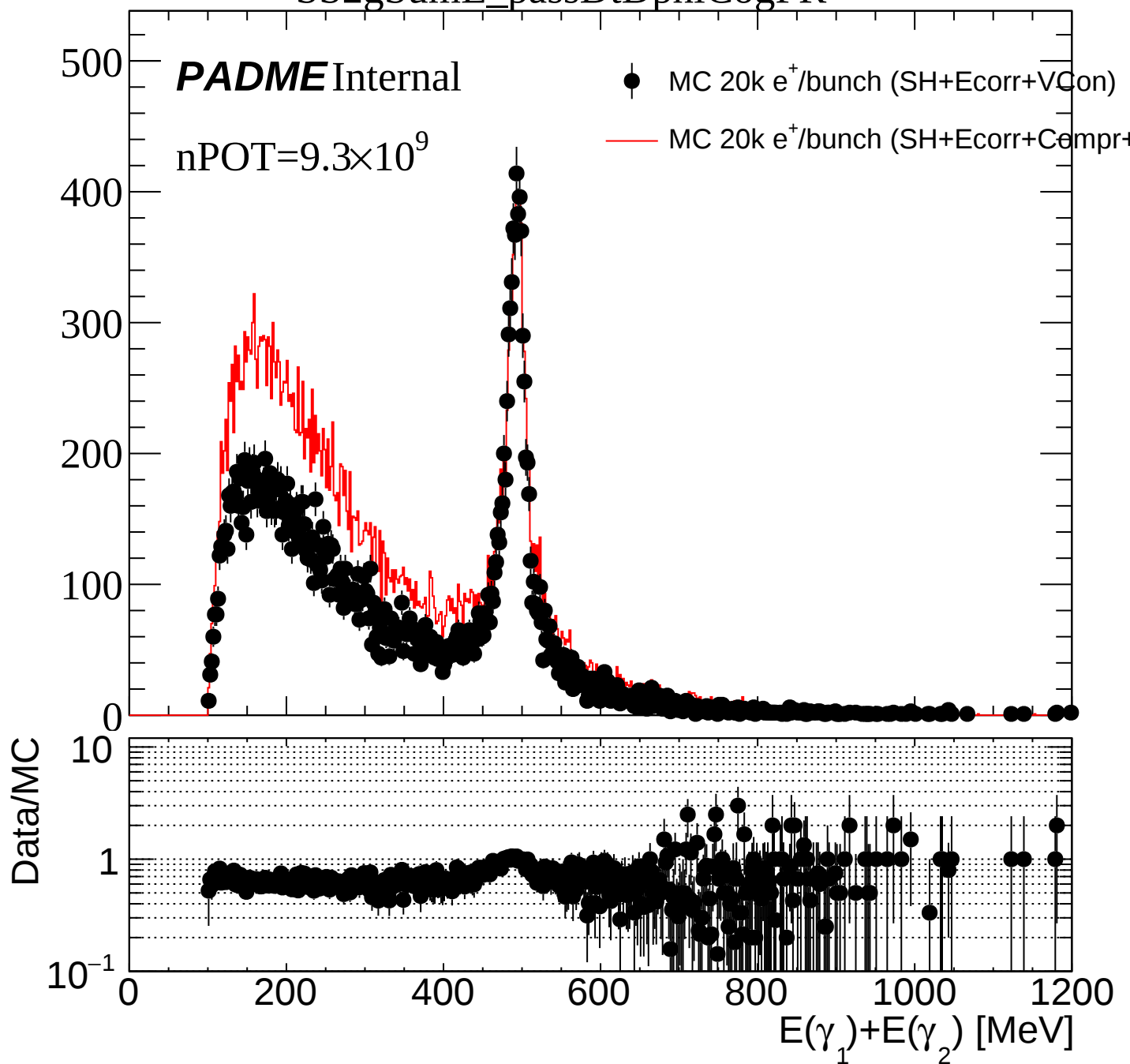
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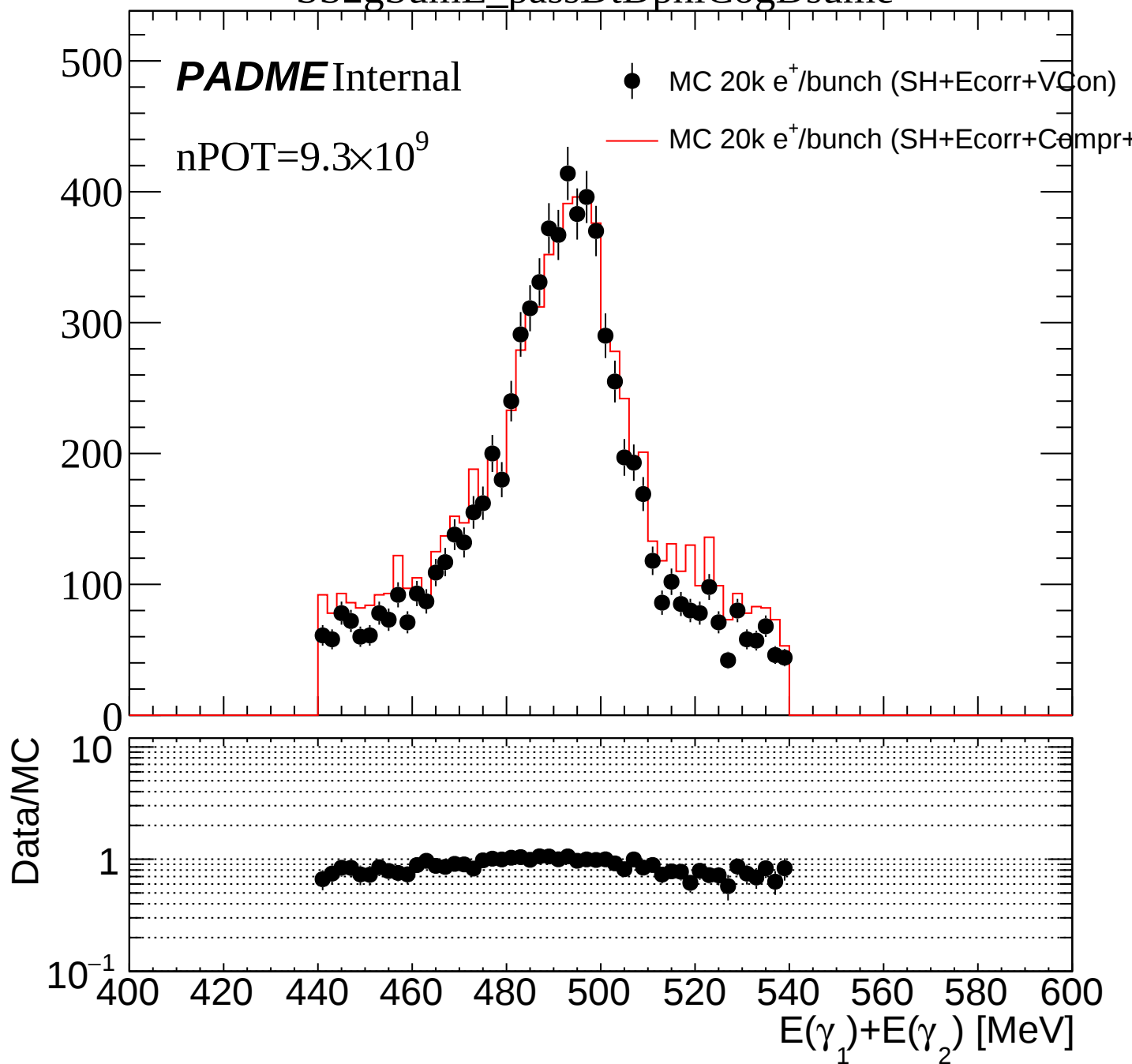
SS2gSumE_passDtDphiCog



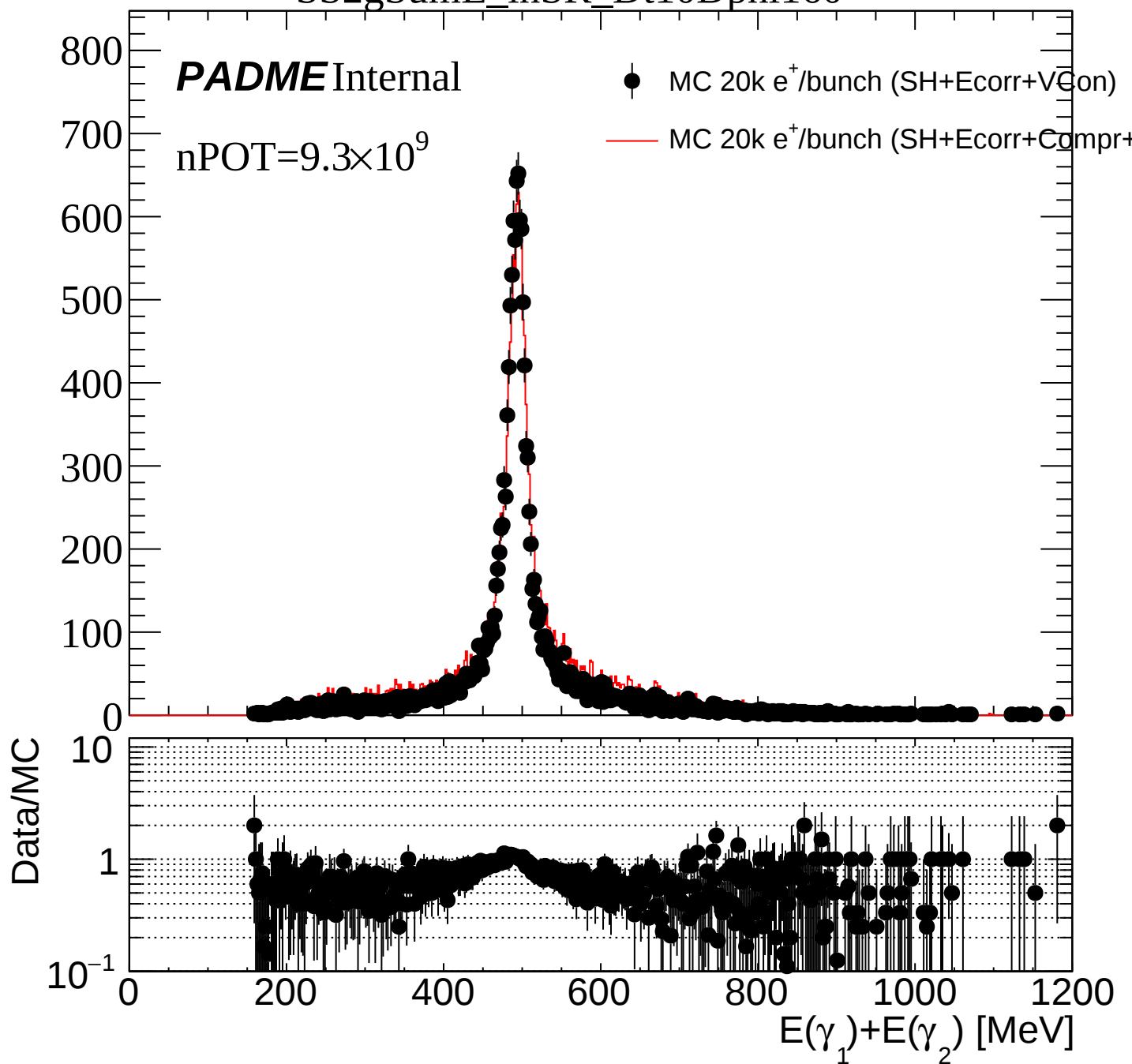
SS2gSumE_passDtDphiCogFR



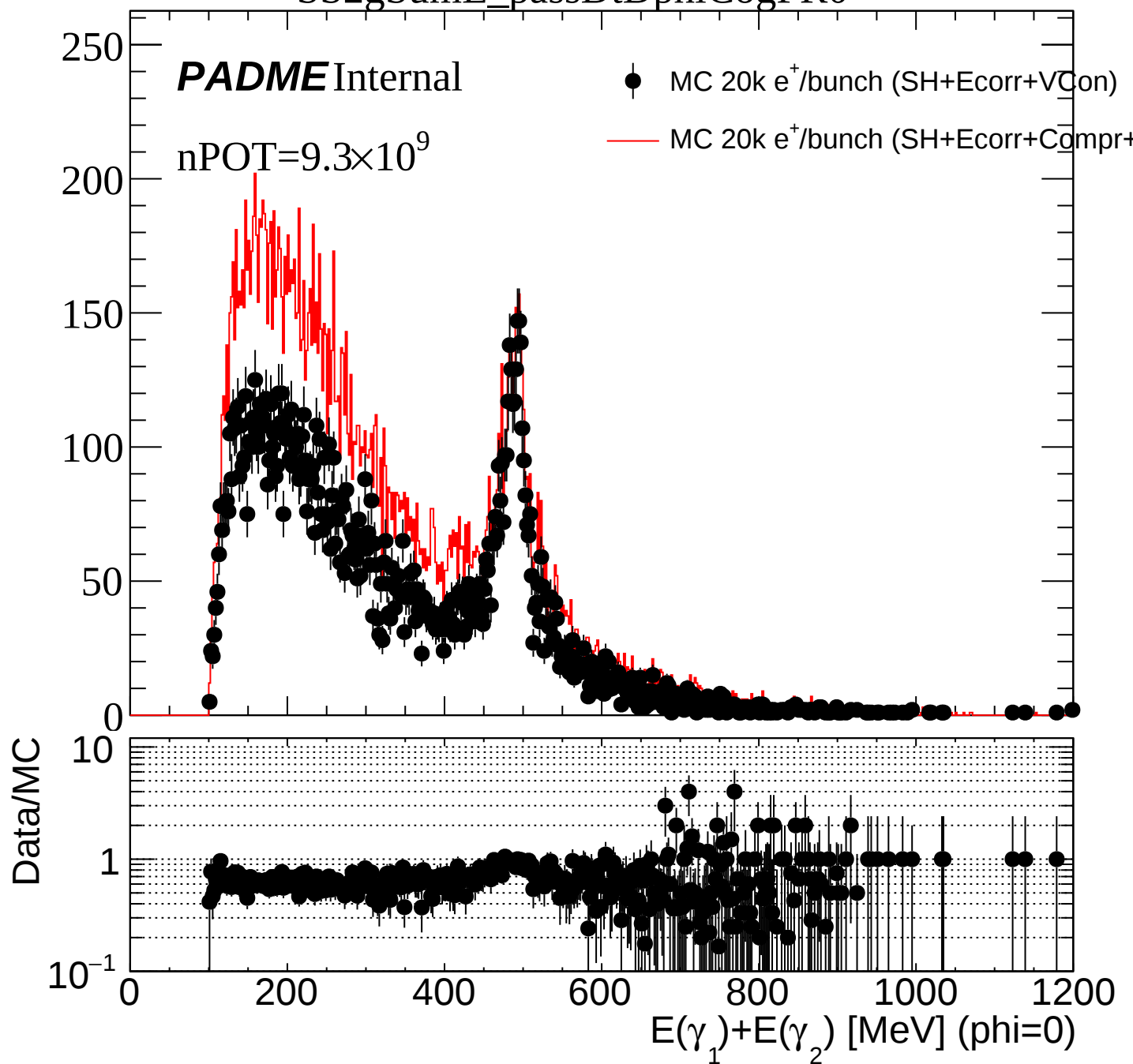
SS2gSumE_passDtDphiCogDsume



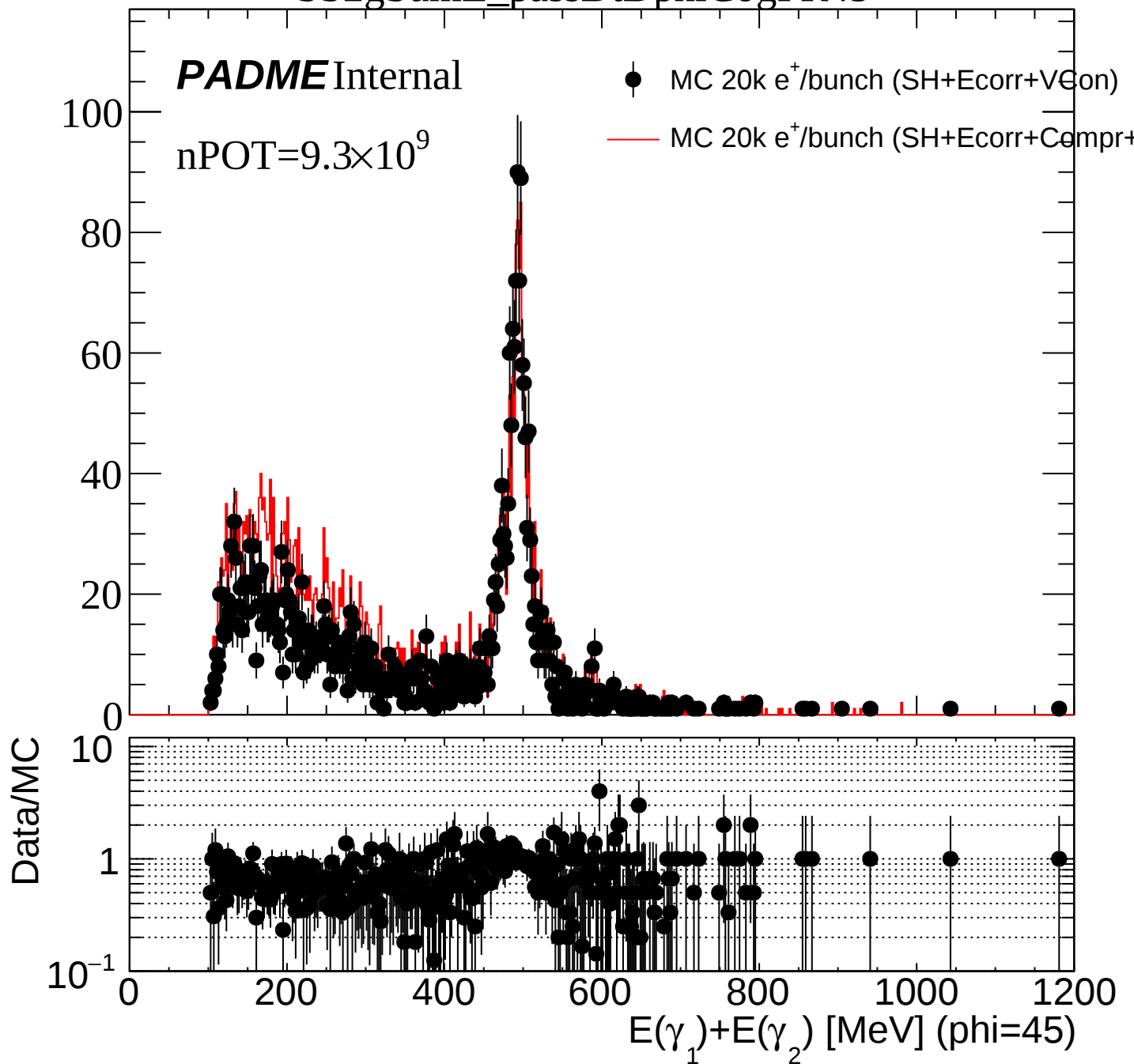
SS2gSumE_inSR_Dt10Dphi160



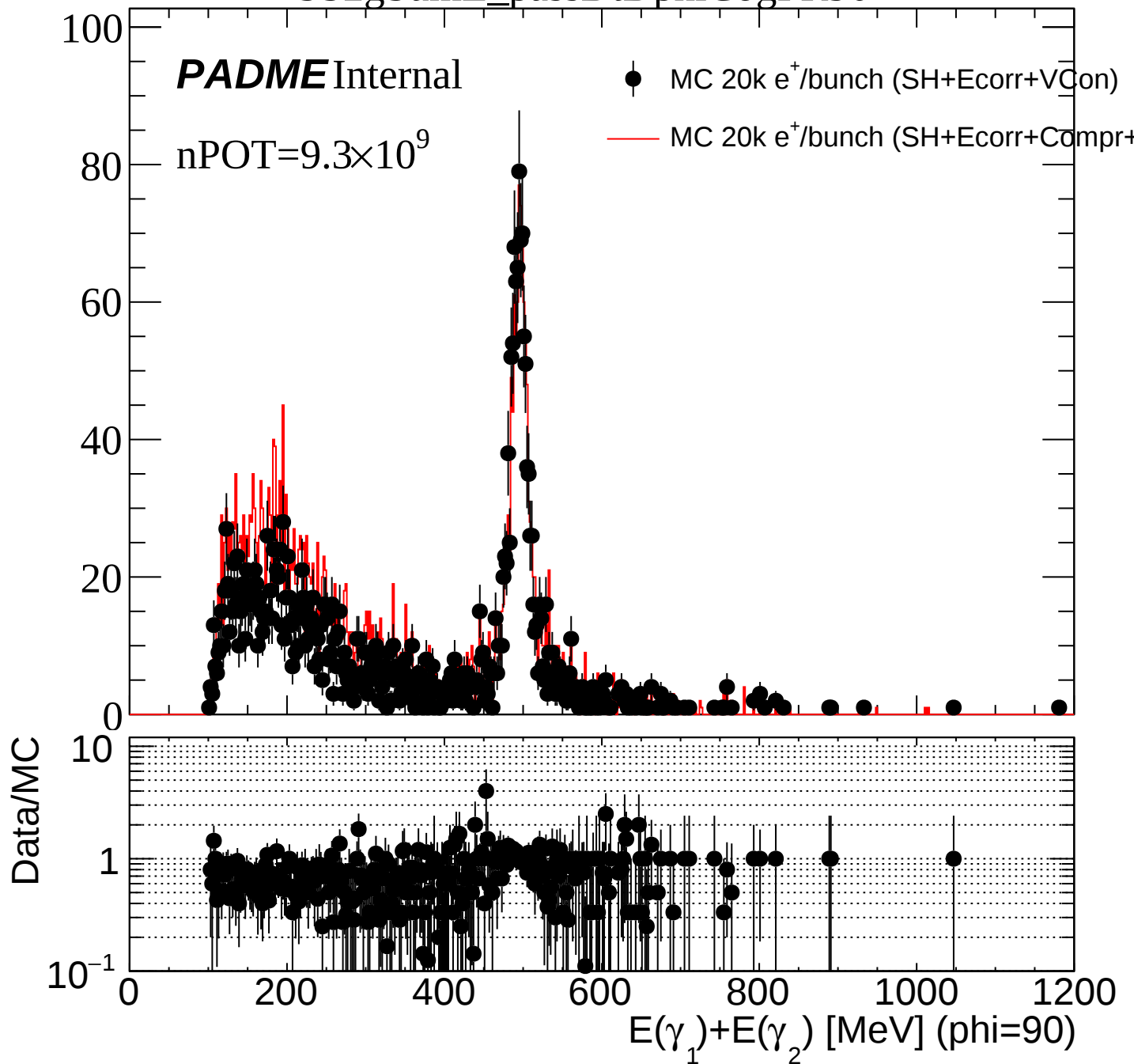
SS2gSumE_passDtDphiCogFR0



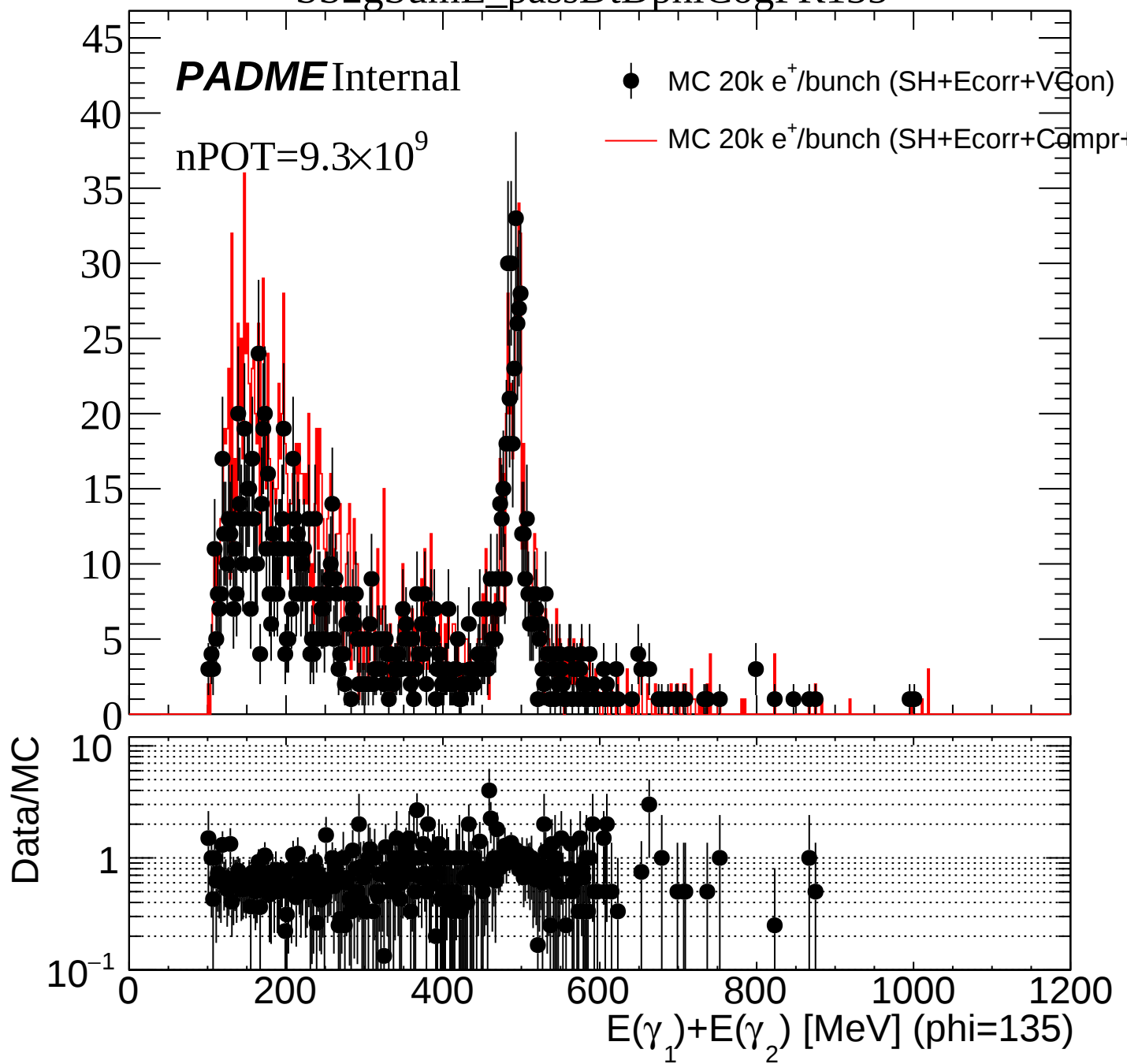
SS2gSumE_passDtDphiCogFR45



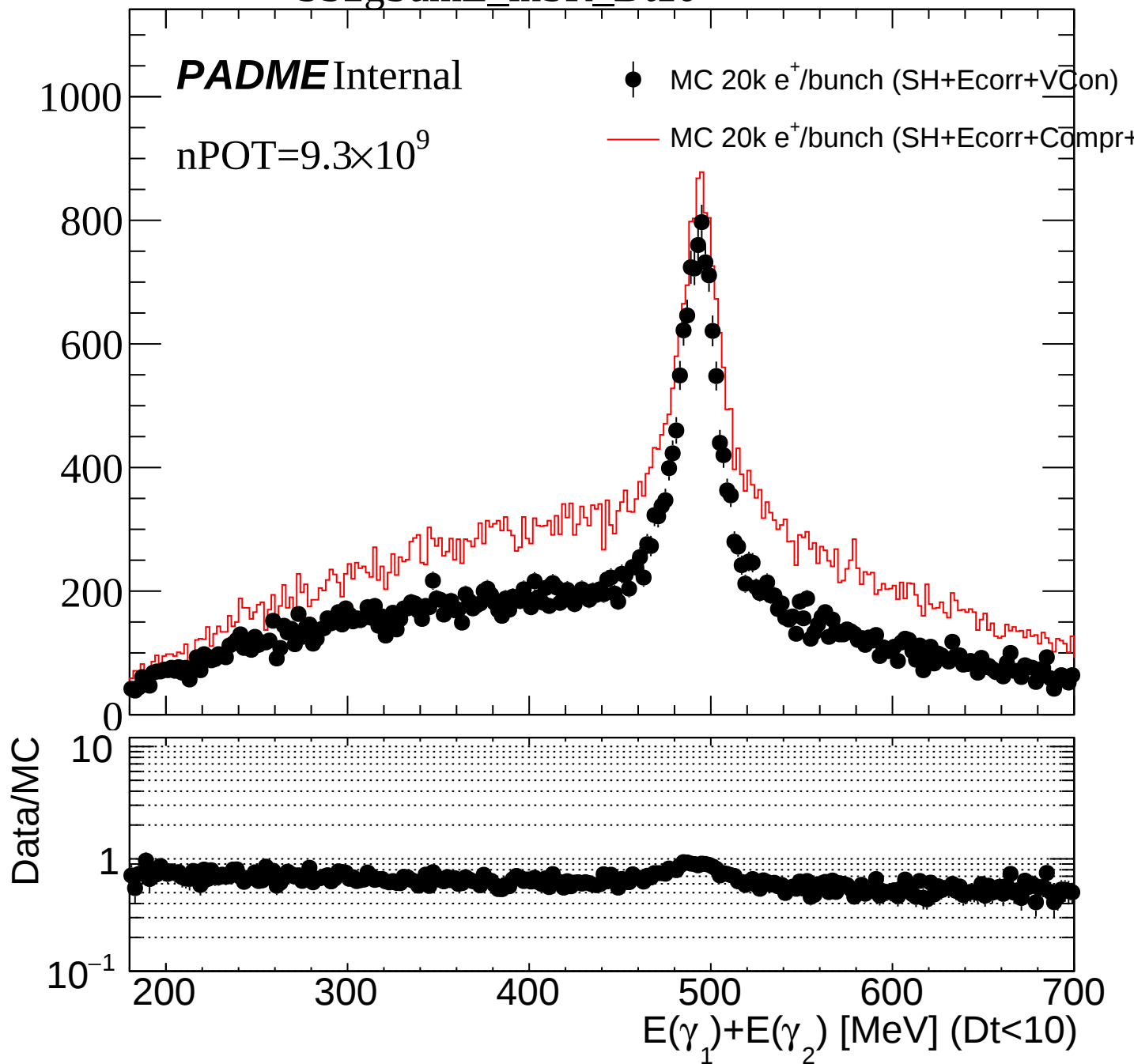
SS2gSumE_passDtDphiCogFR90



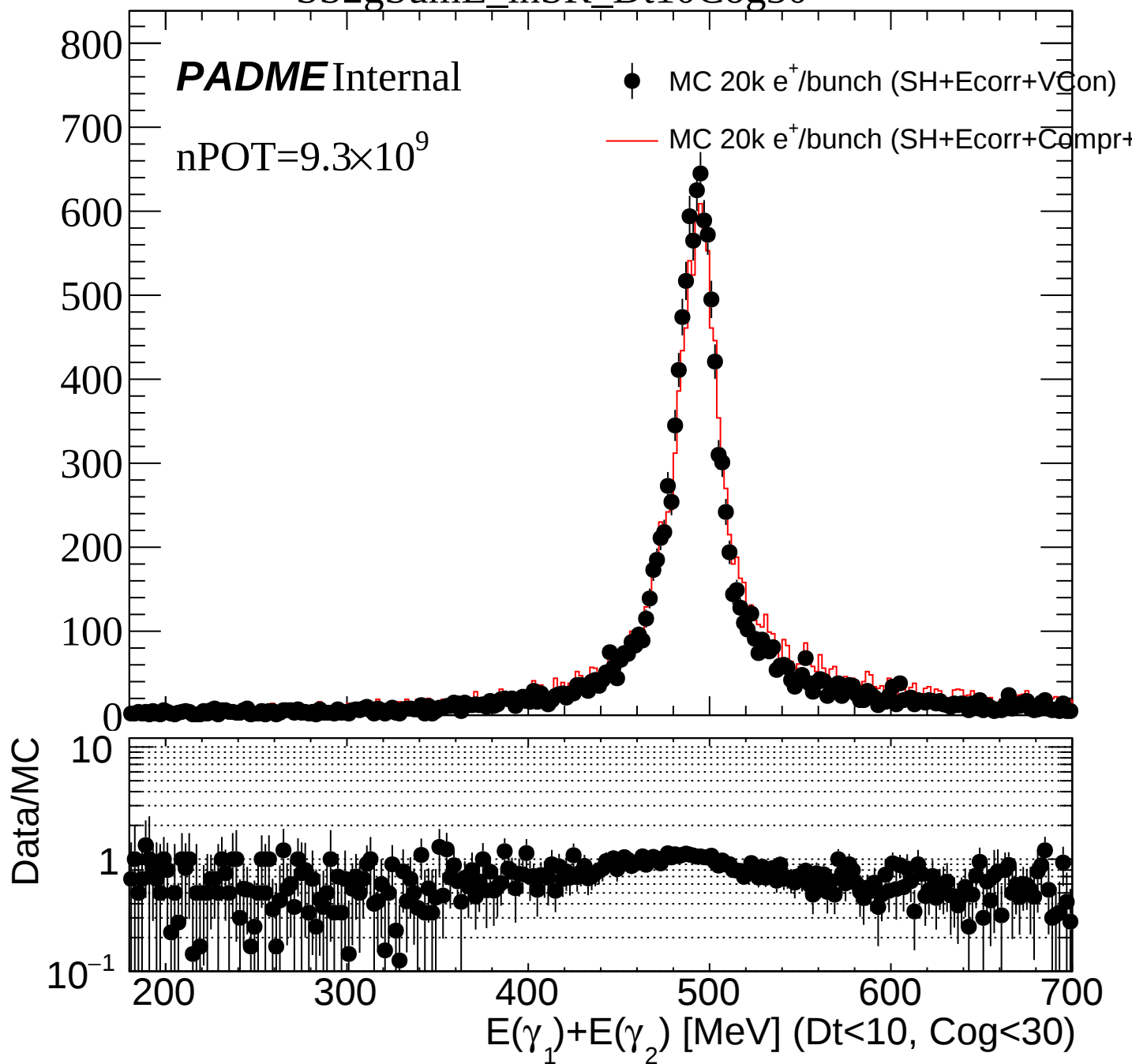
SS2gSumE_passDtDphiCogFR135



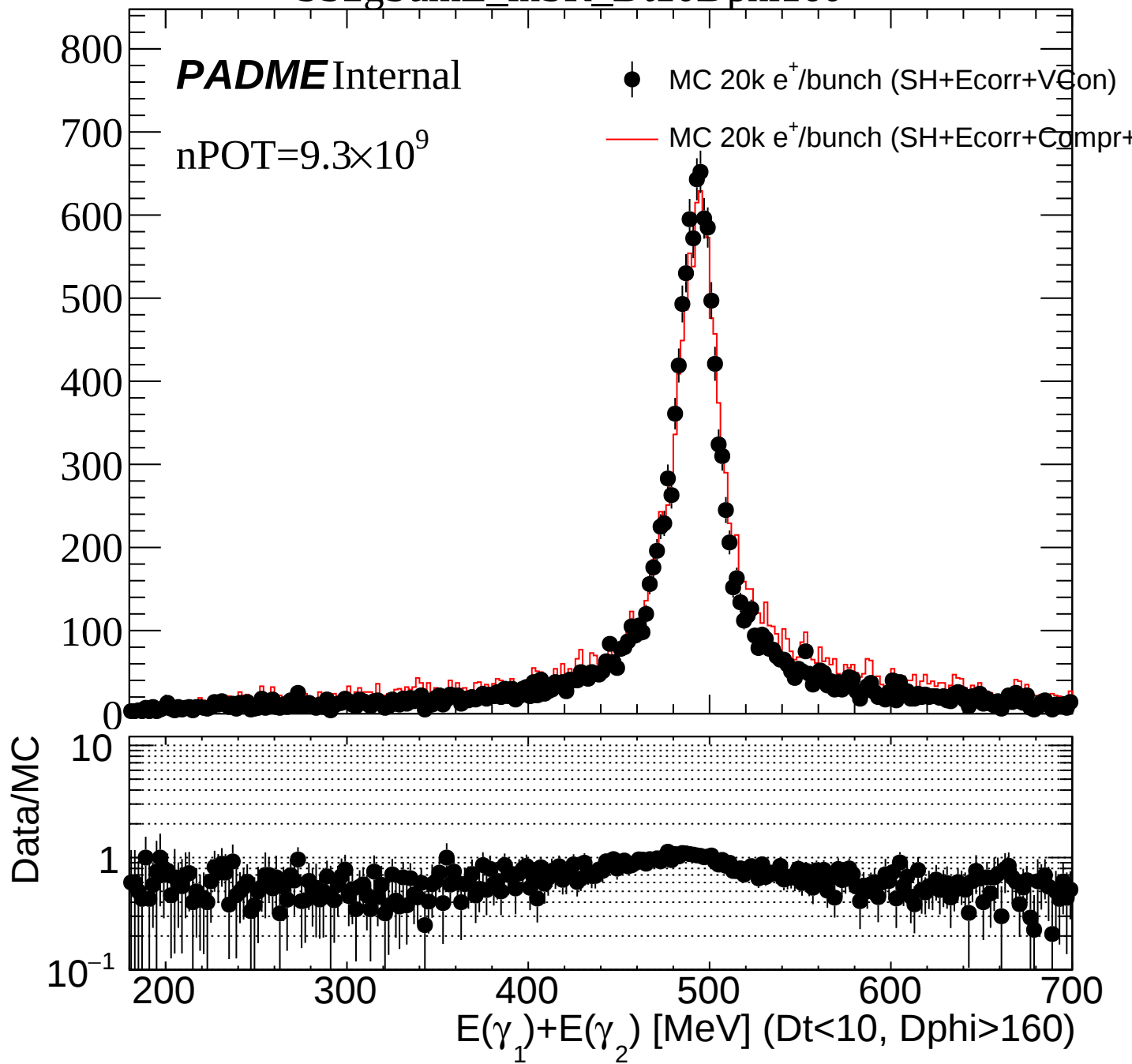
SS2gSumE_inSR_Dt10



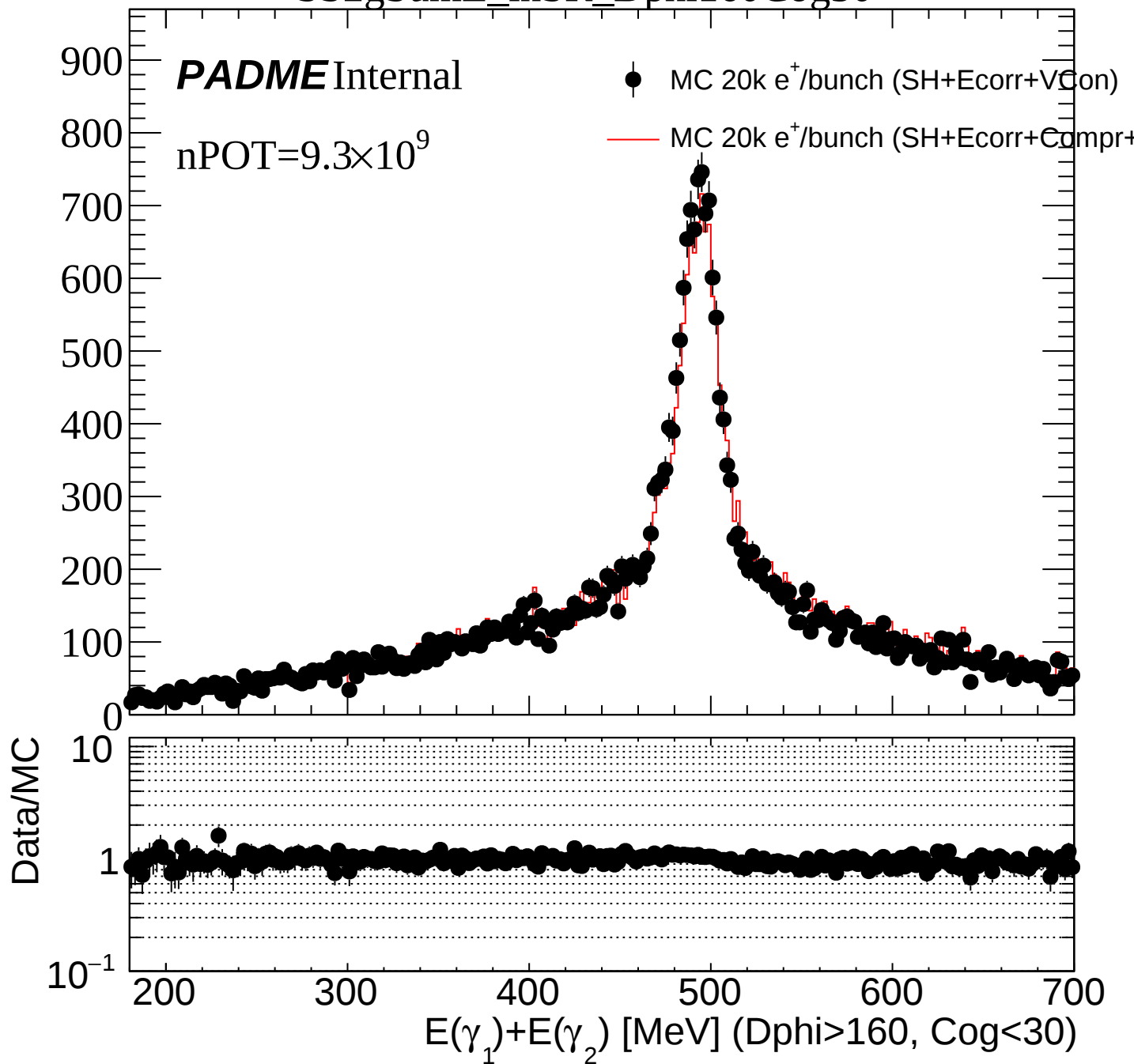
SS2gSumE_inSR_Dt10Cog30



SS2gSumE_inSR_Dt10Dphi160



SS2gSumE_inSR_Dphi160Cog30



SS2gR_passDt

30000

PADME Internal

$nPOT=9.3 \times 10^9$

● MC 20k e⁺/bunch (SH+Ecorr+VCon)

— MC 20k e⁺/bunch (SH+Ecorr+Compr+)

25000

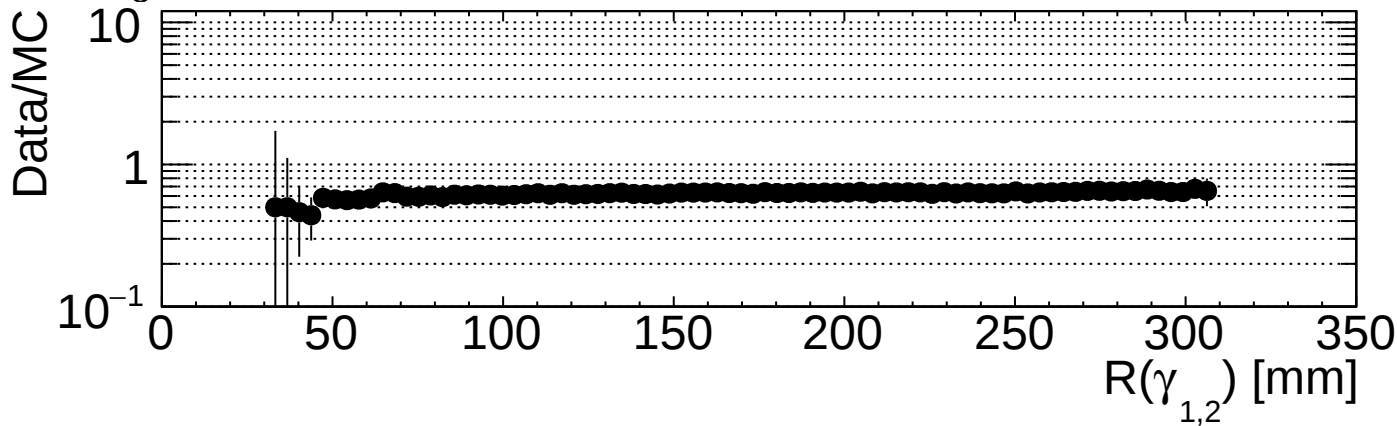
20000

15000

10000

5000

0



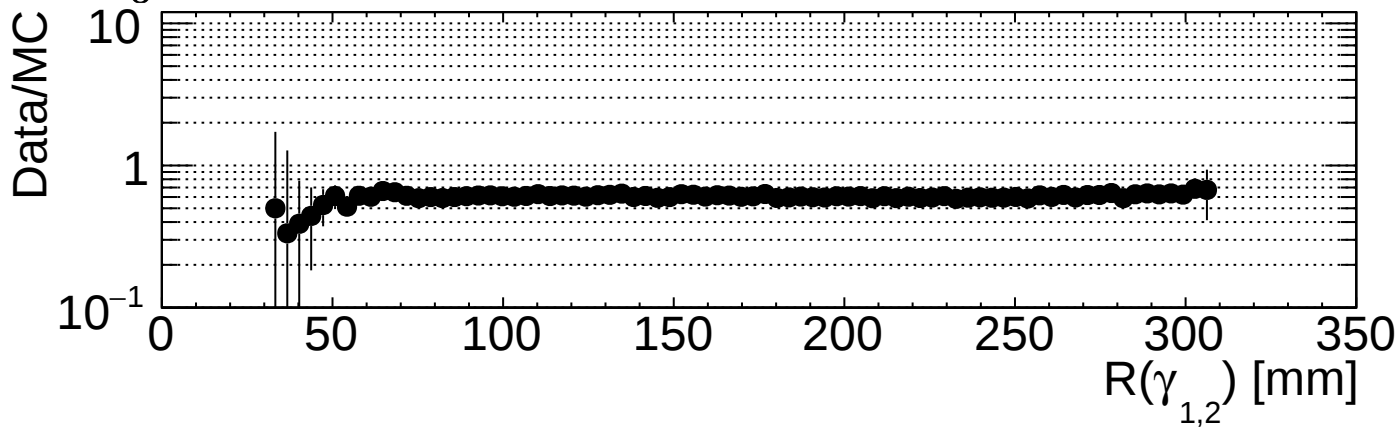
SS2gR_passDtDphi

PADME Internal

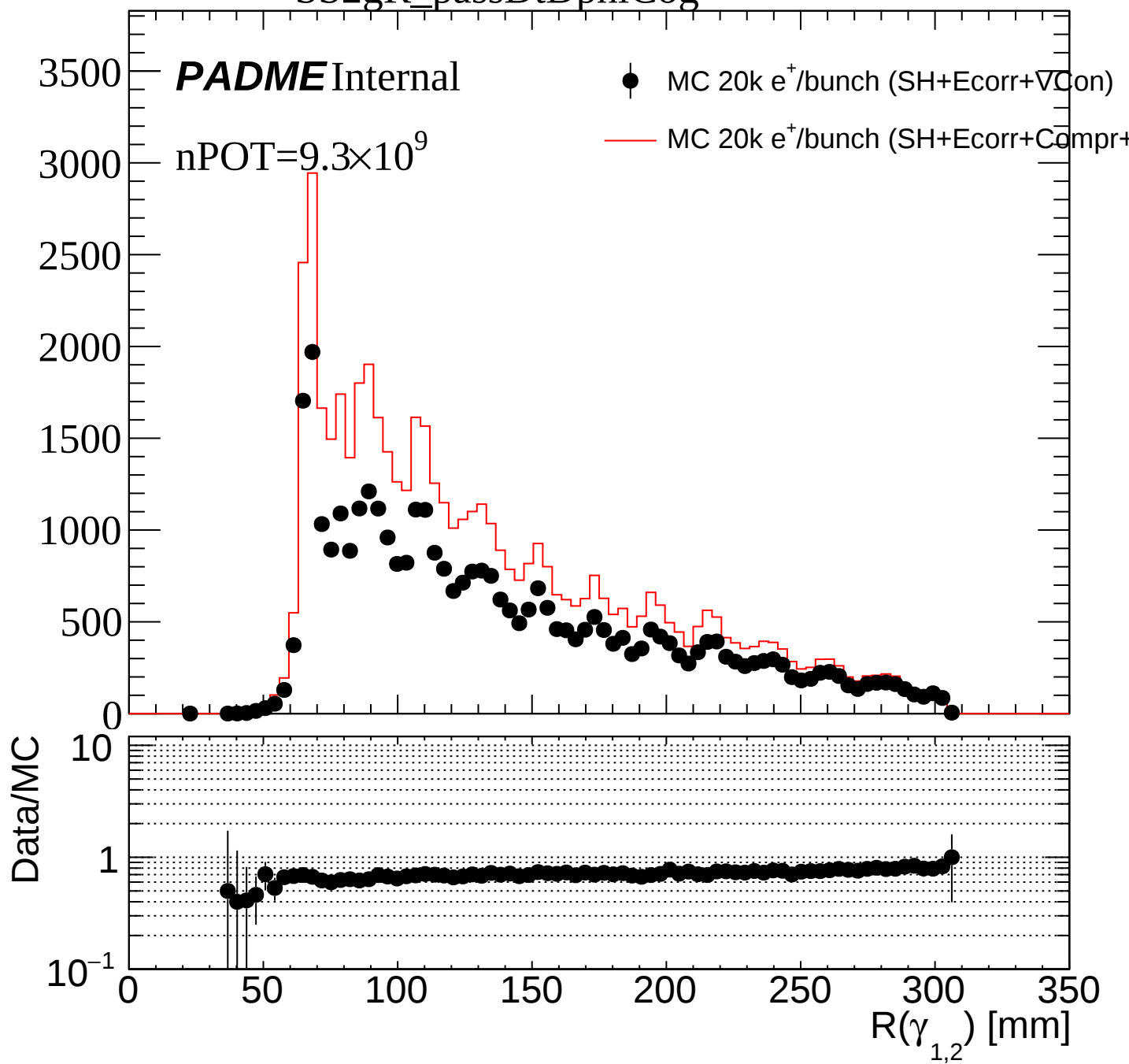
$n\text{POT}=9.3\times 10^9$

● MC 20k e⁺/bunch (SH+Ecorr+VCon)

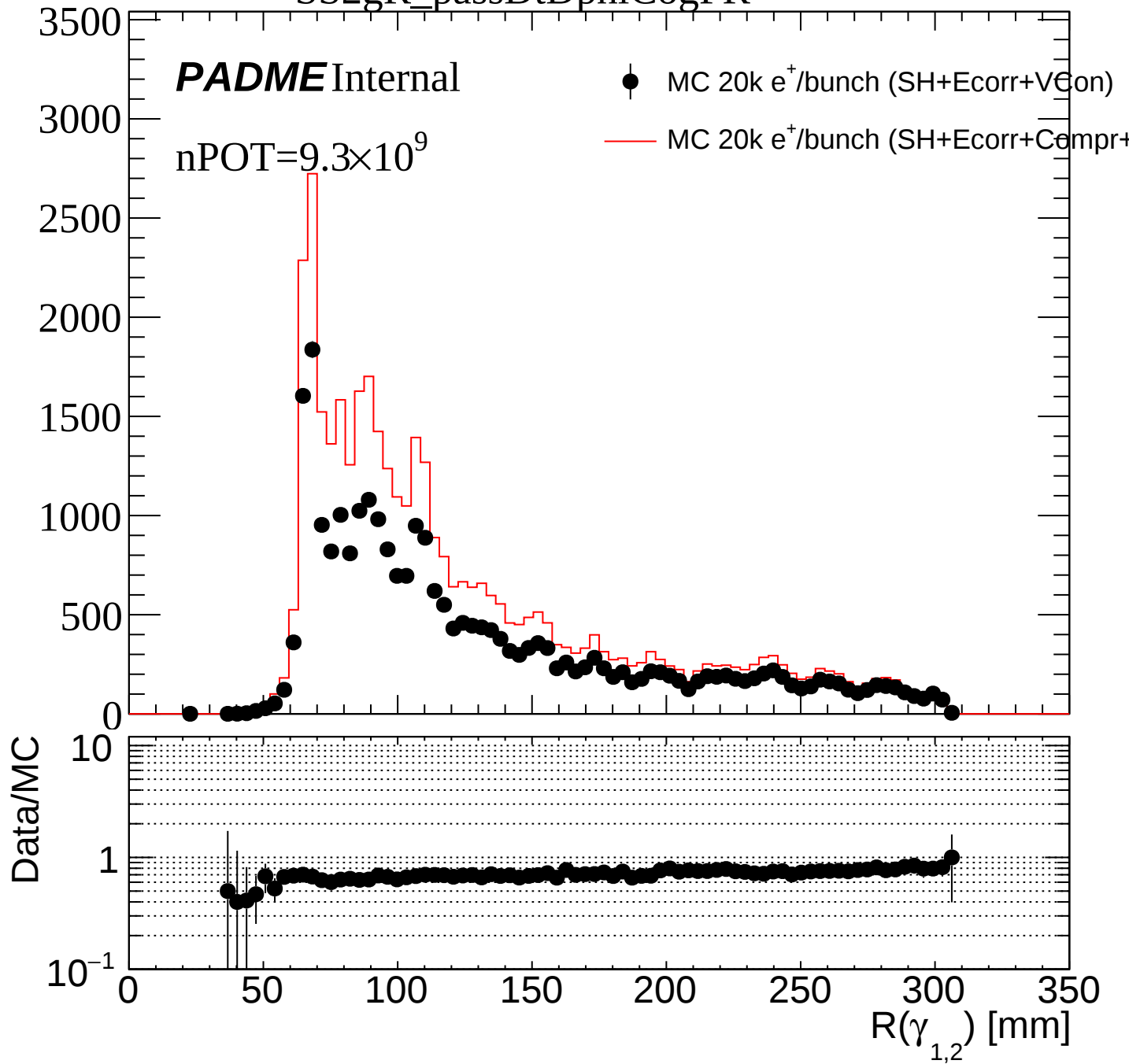
— MC 20k e⁺/bunch (SH+Ecorr+Compr+)



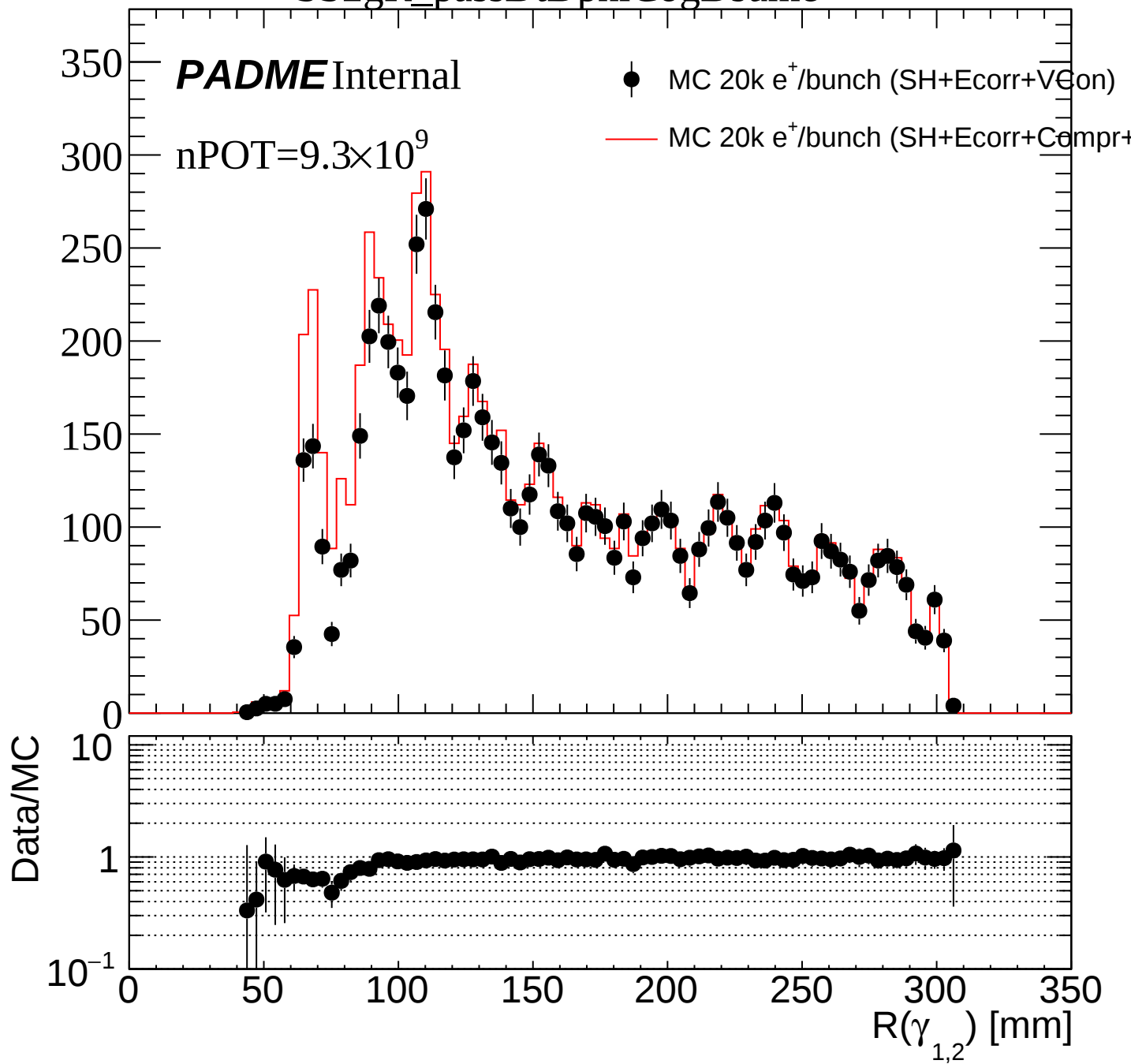
SS2gR_passDtDphiCog



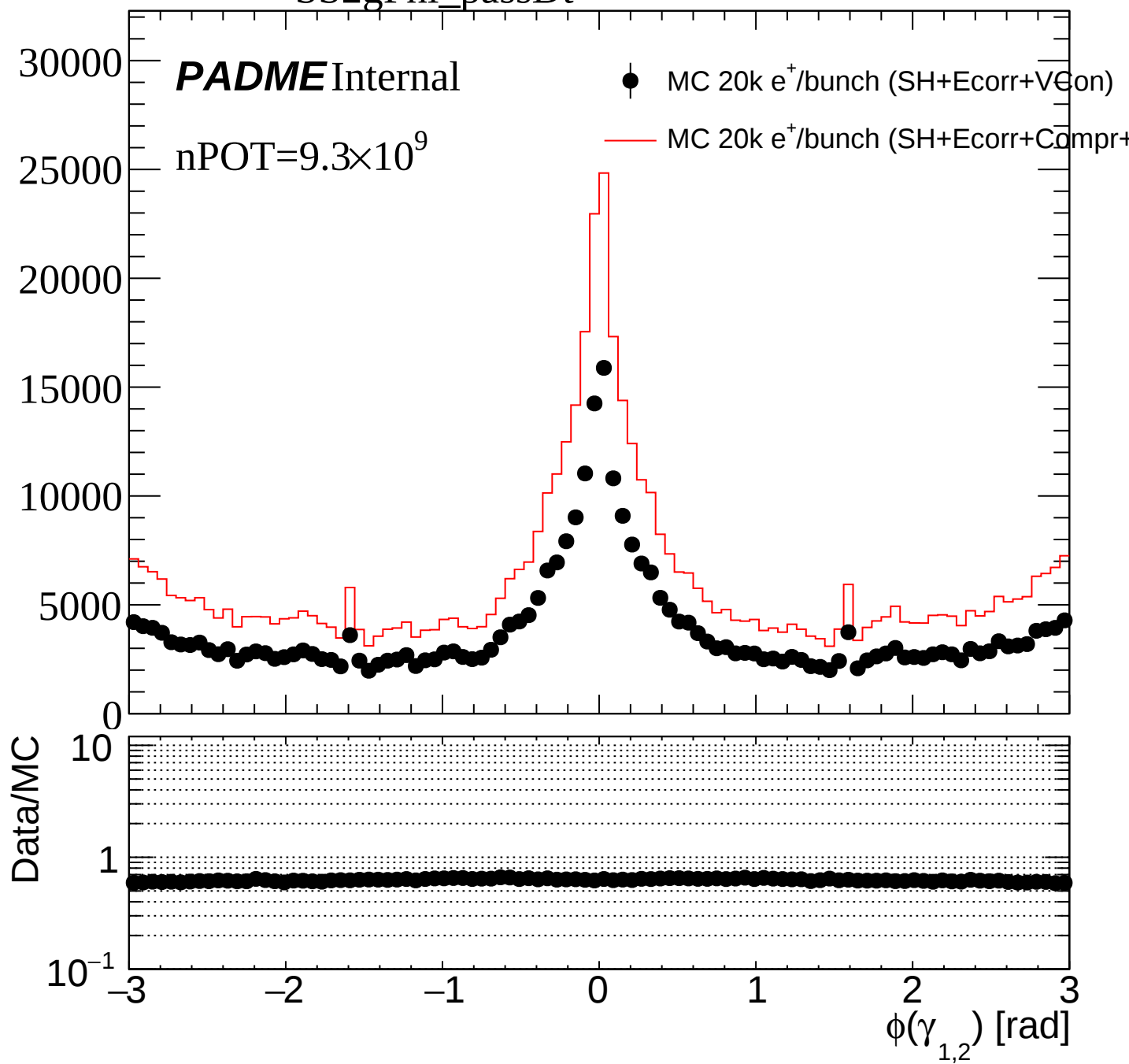
SS2gR_passDtDphiCogFR



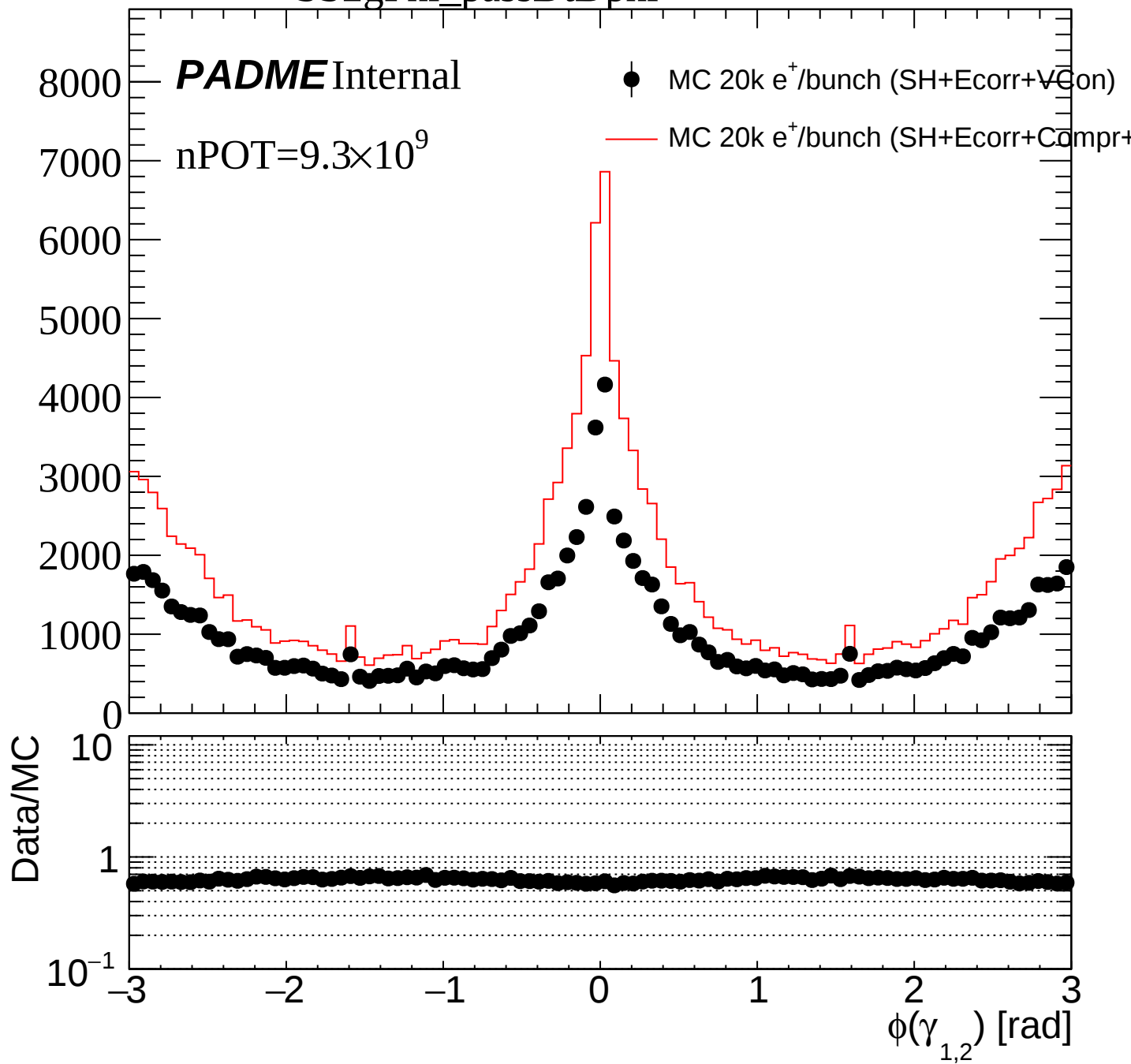
SS2gR_passDtDphiCogDsume



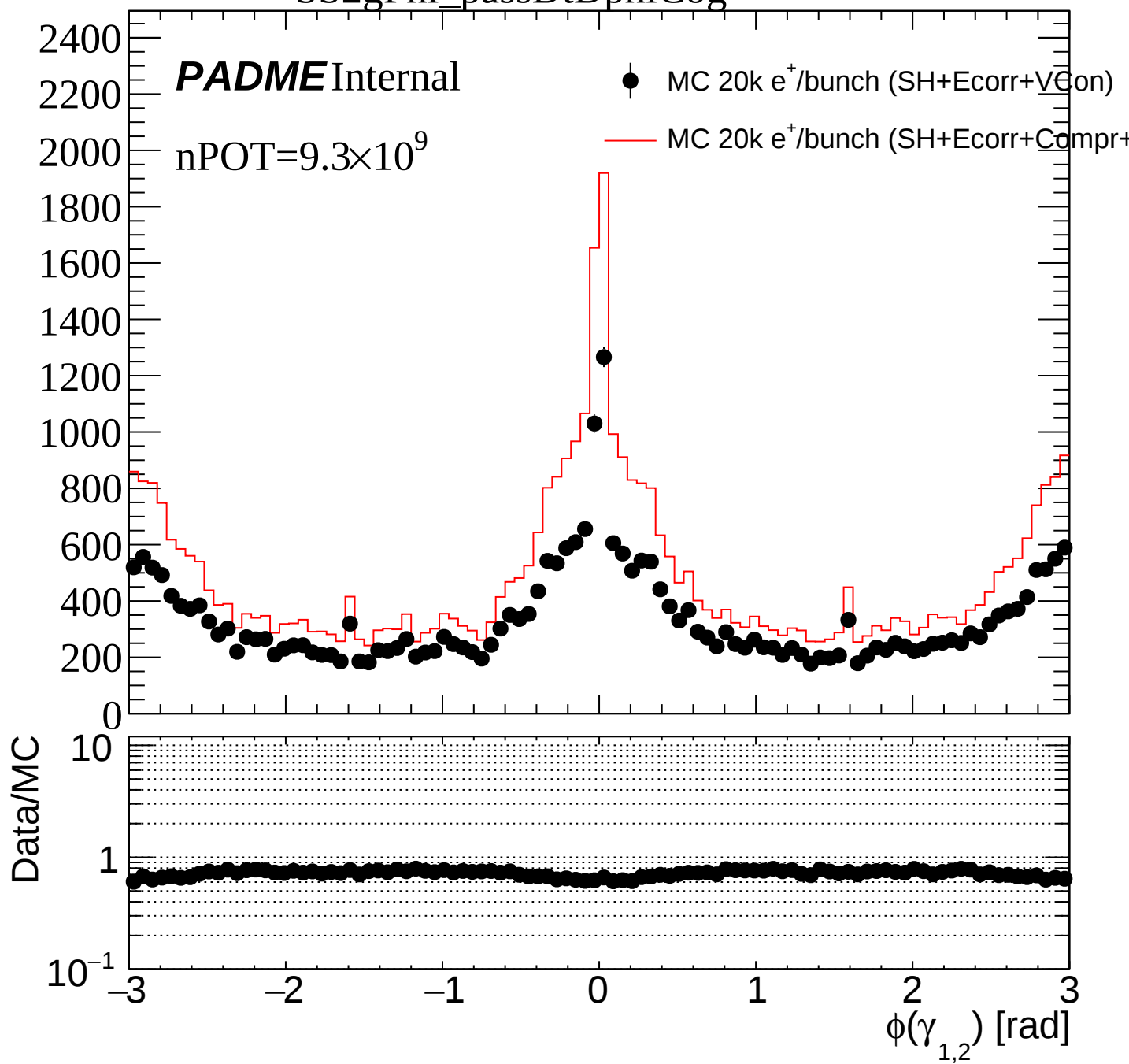
SS2gPhi_passDt



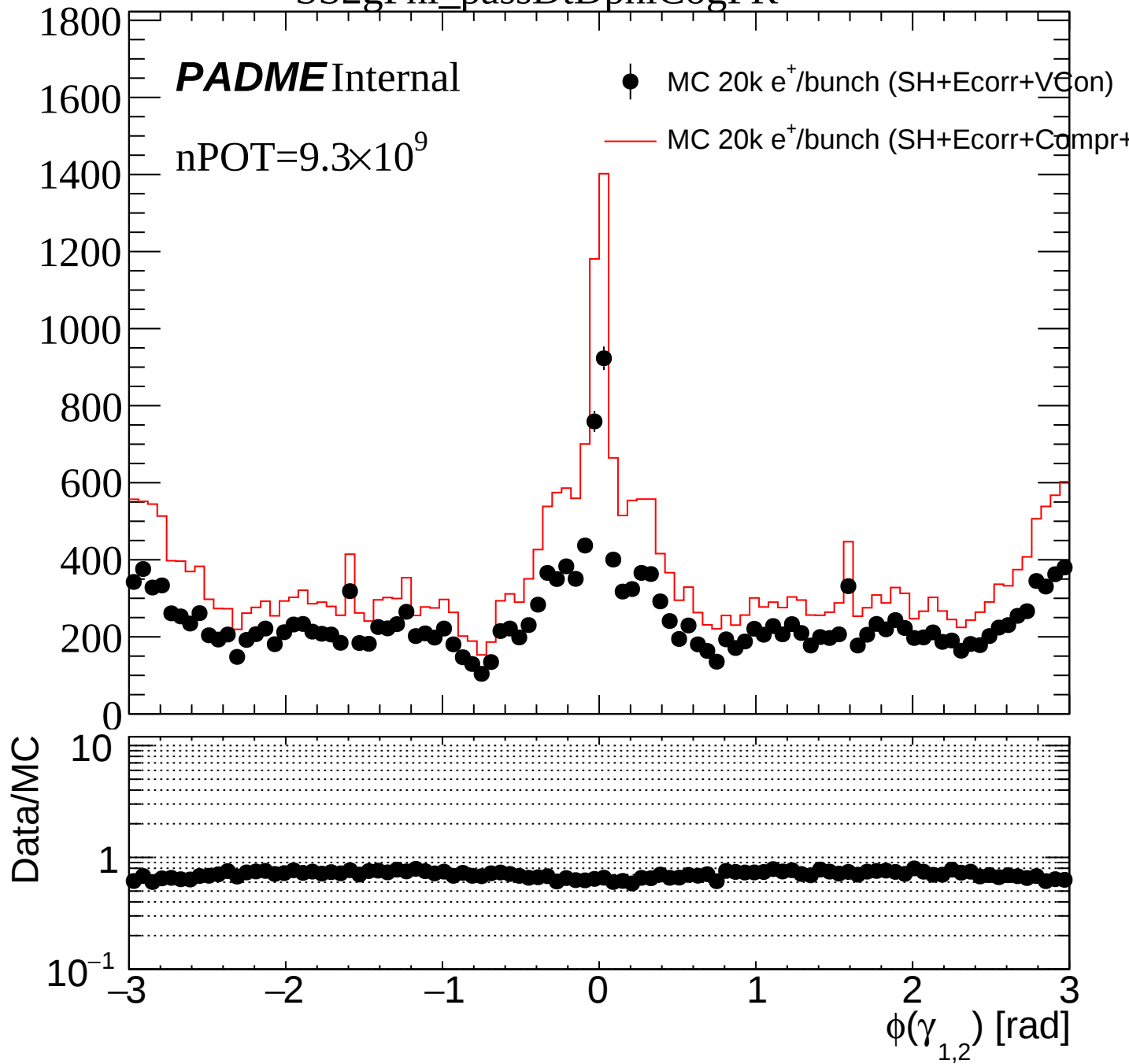
SS2gPhi_passDtDphi



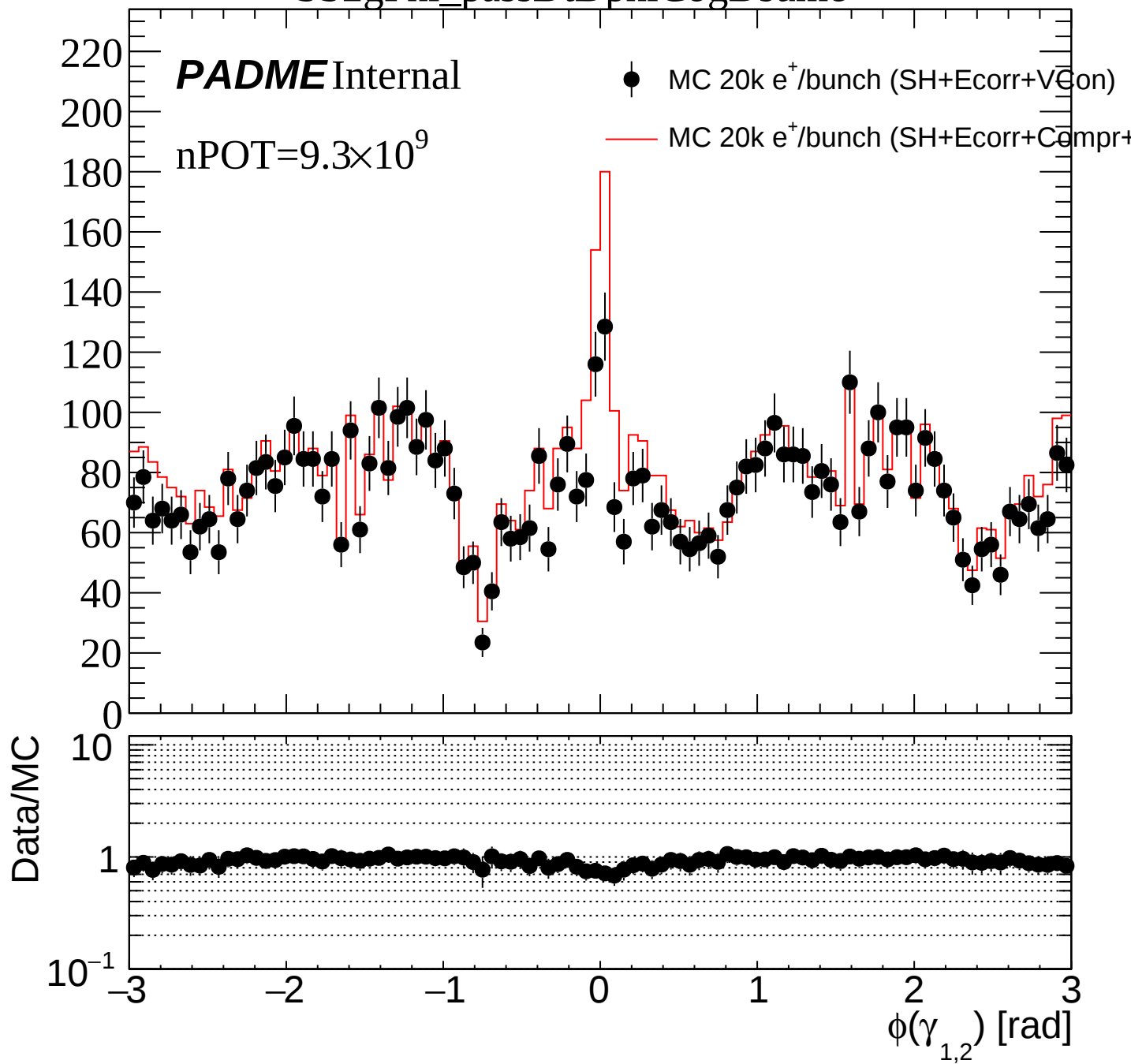
SS2gPhi_passDtDphiCog



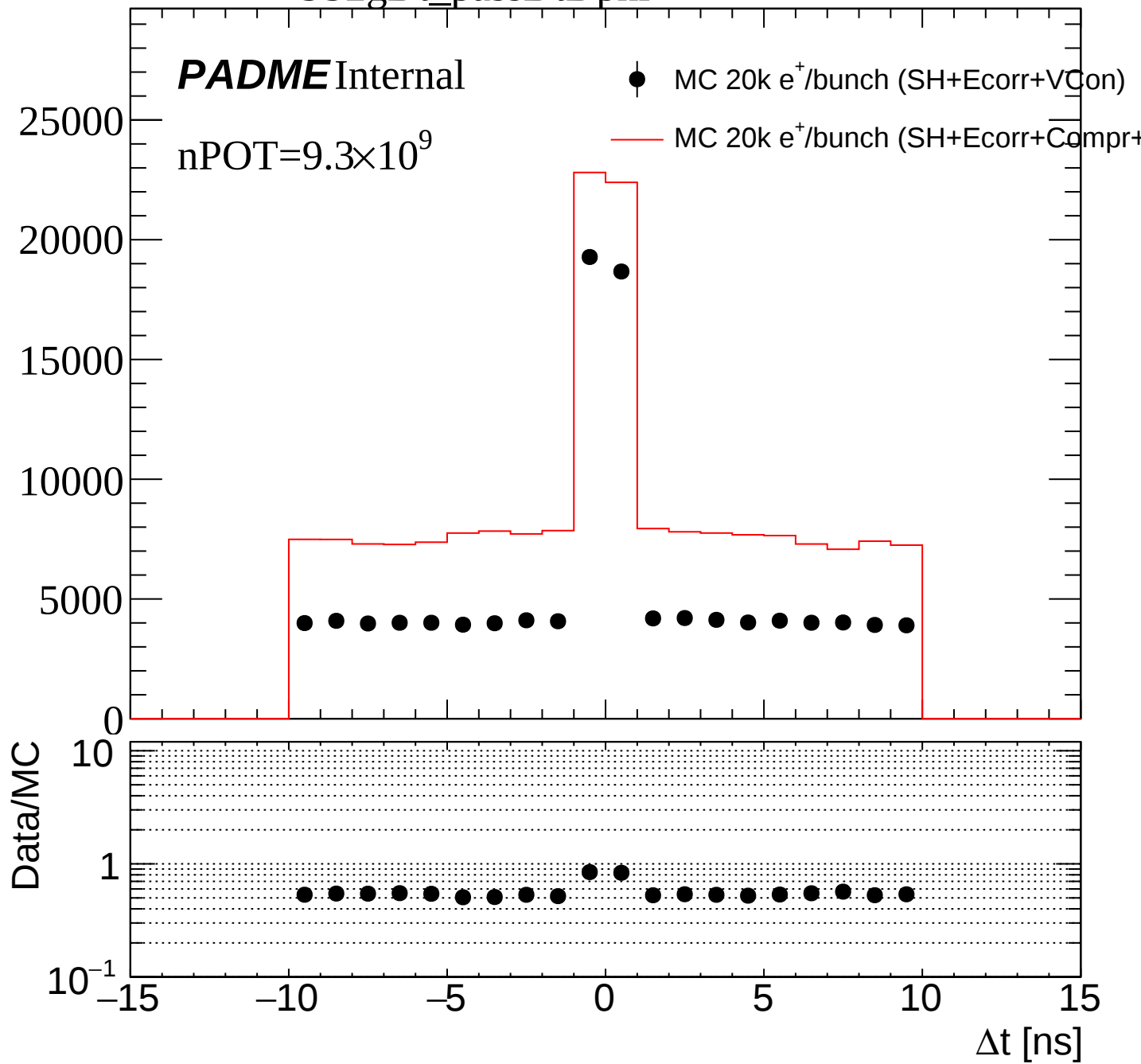
SS2gPhi_passDtDphiCogFR



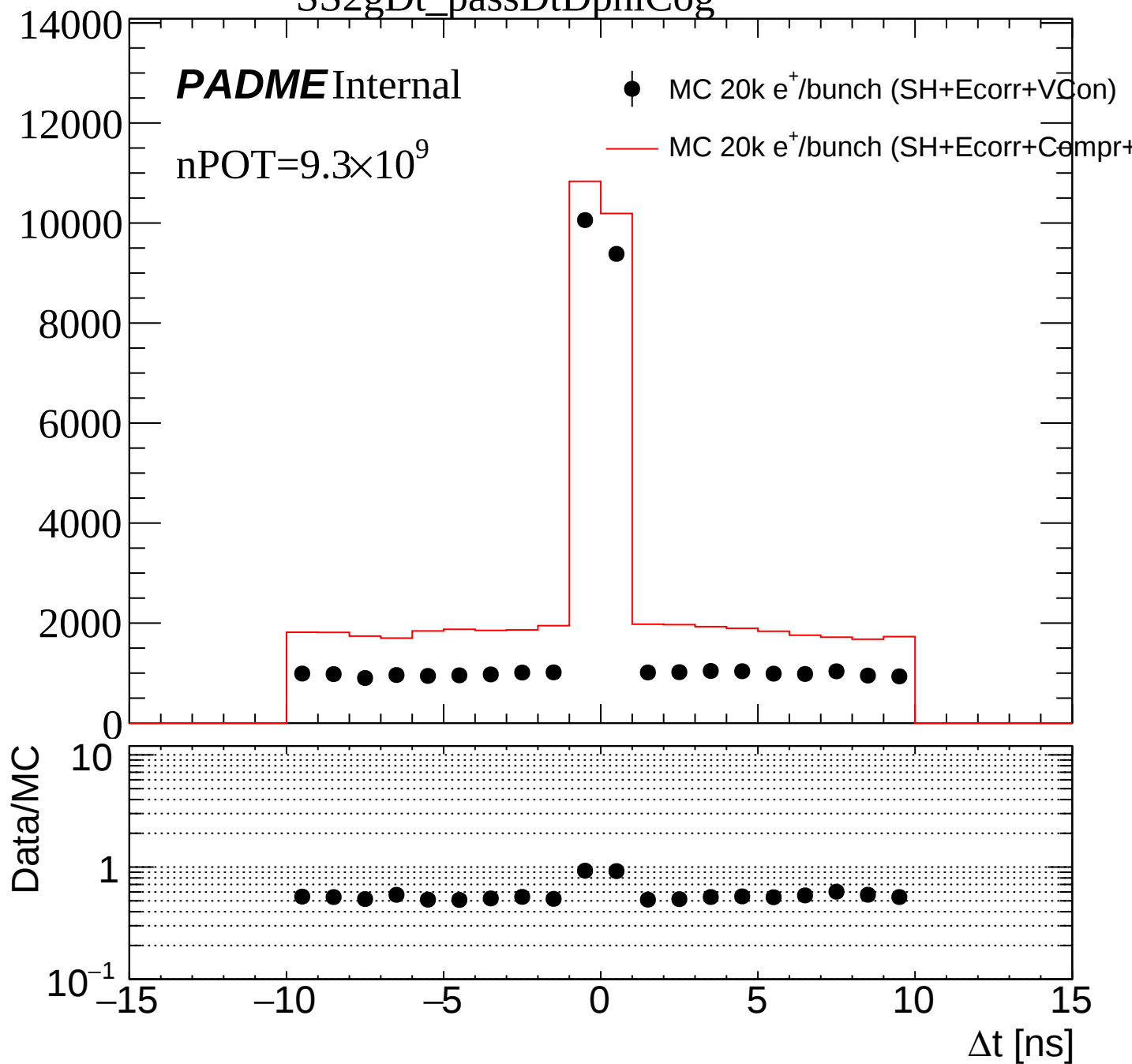
SS2gPhi_passDtDphiCogDsume



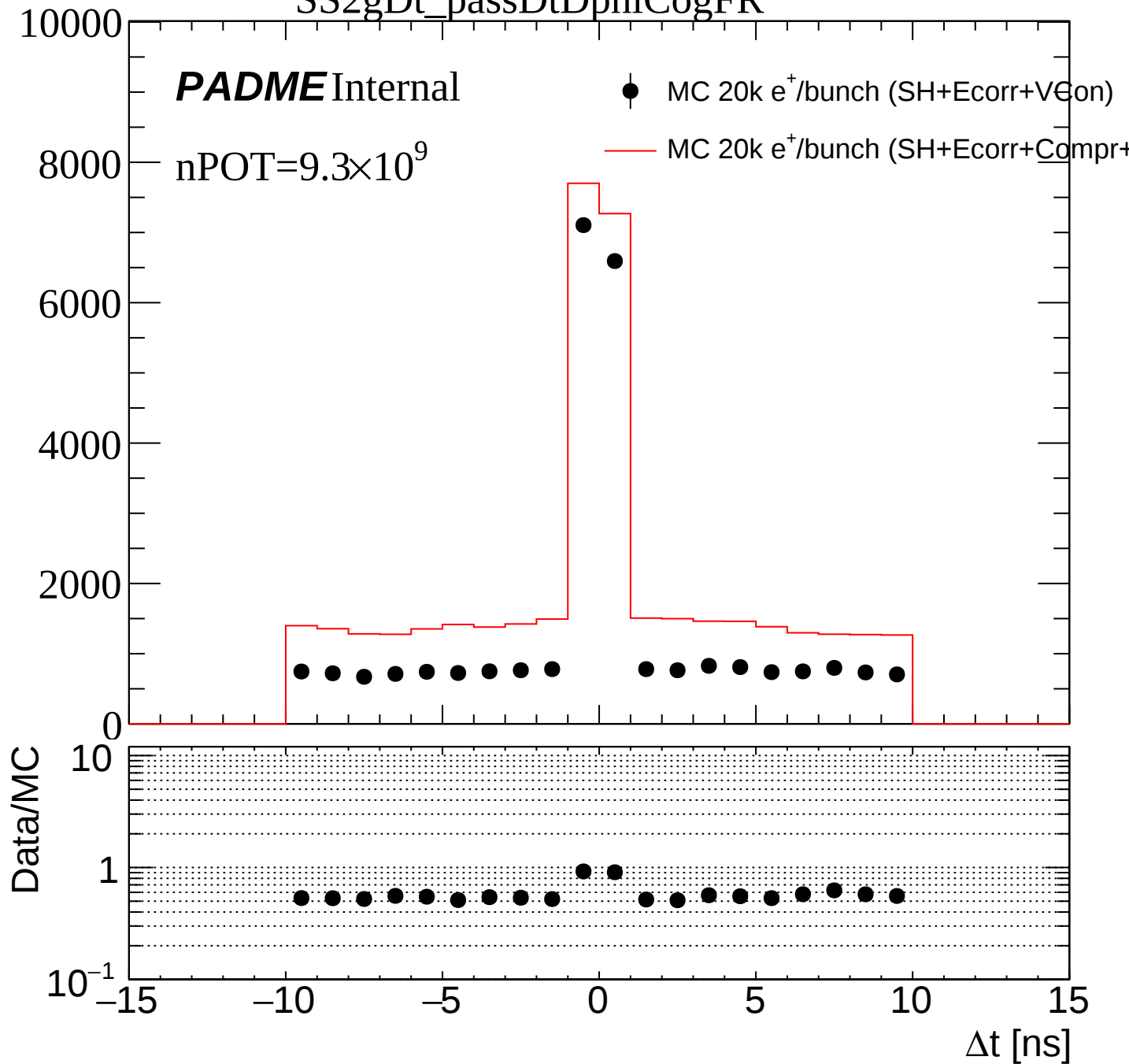
SS2gDt_passDtDphi



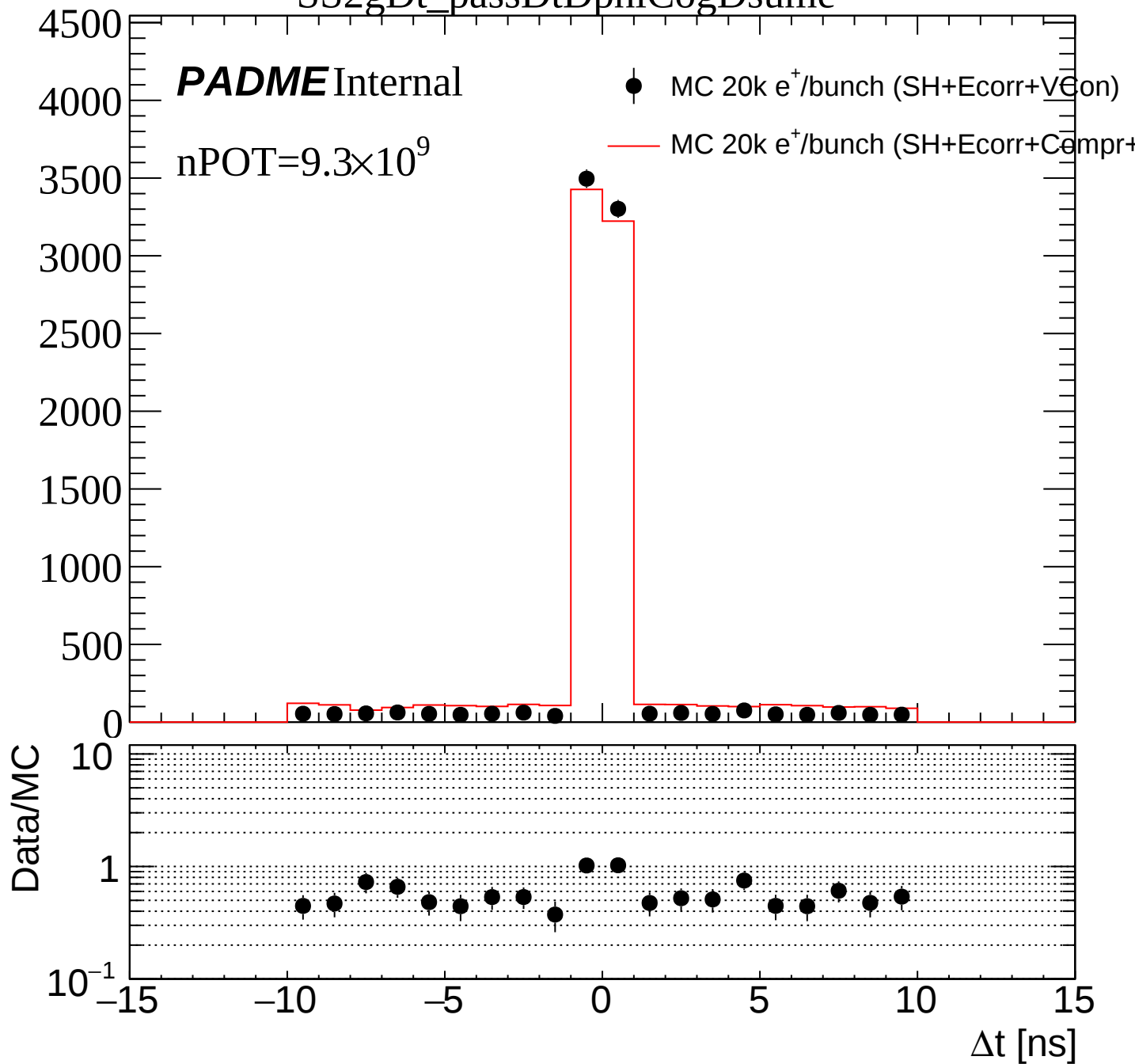
SS2gDt_passDtDphiCog

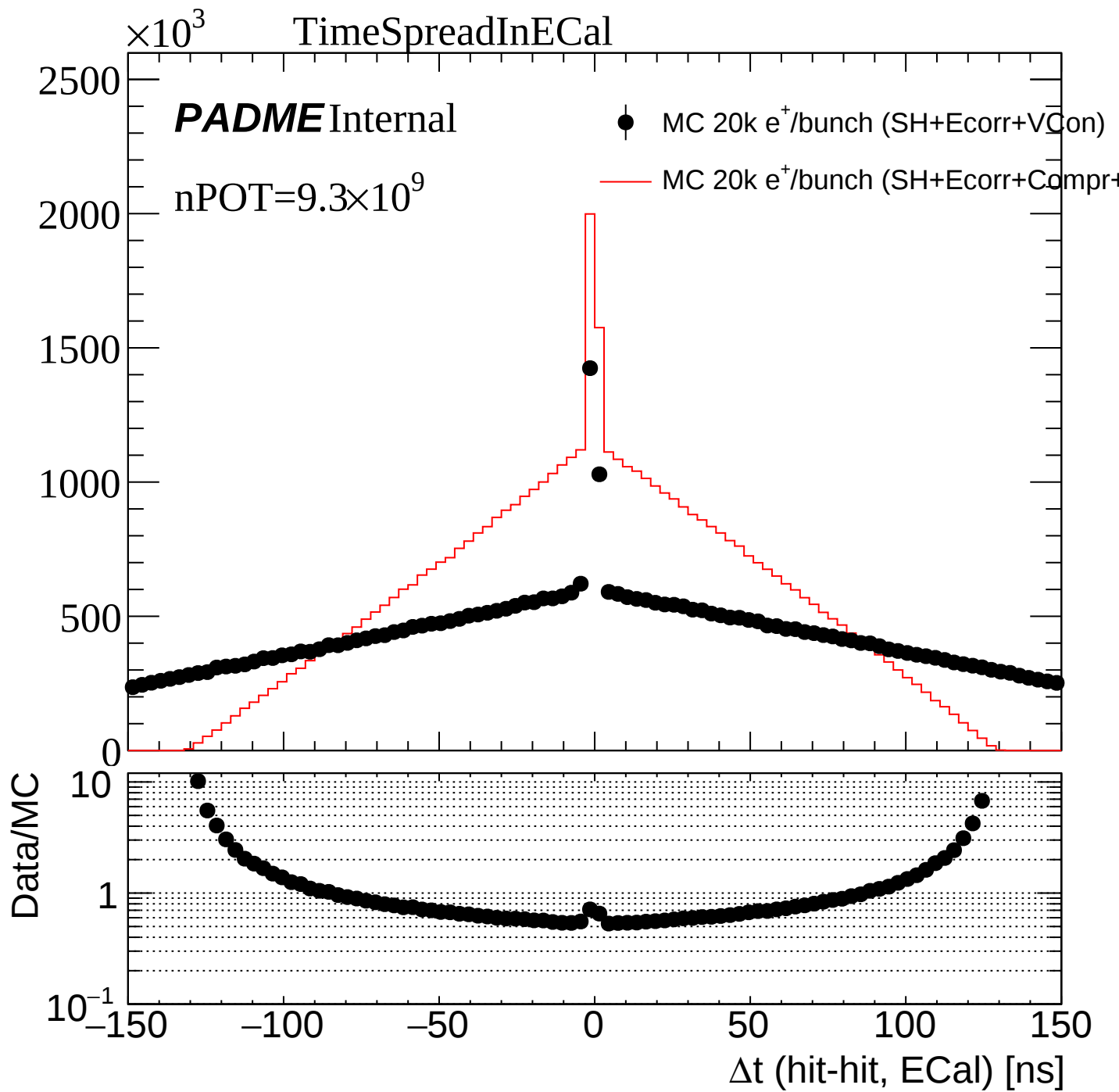


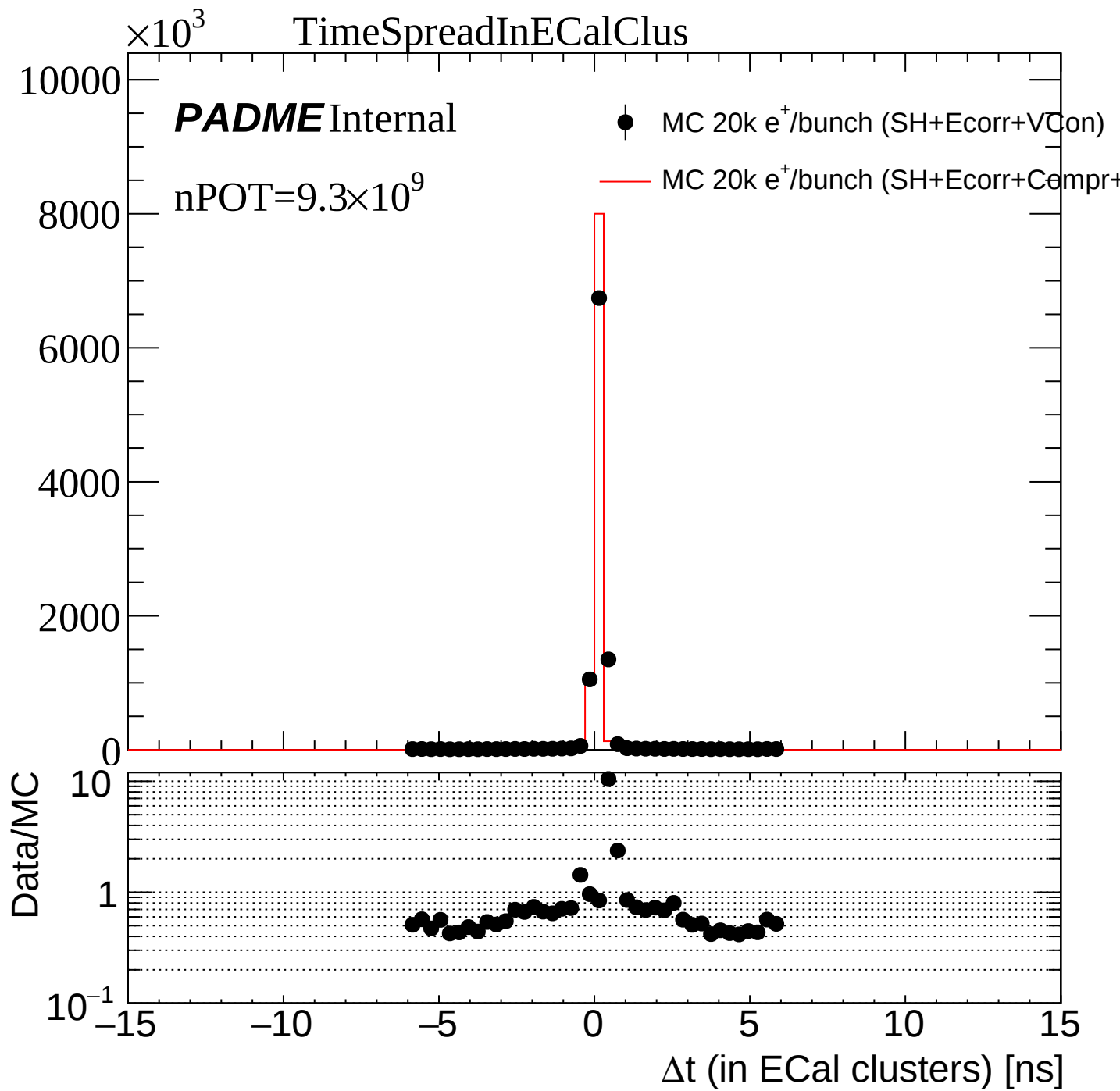
SS2gDt_passDtDphiCogFR

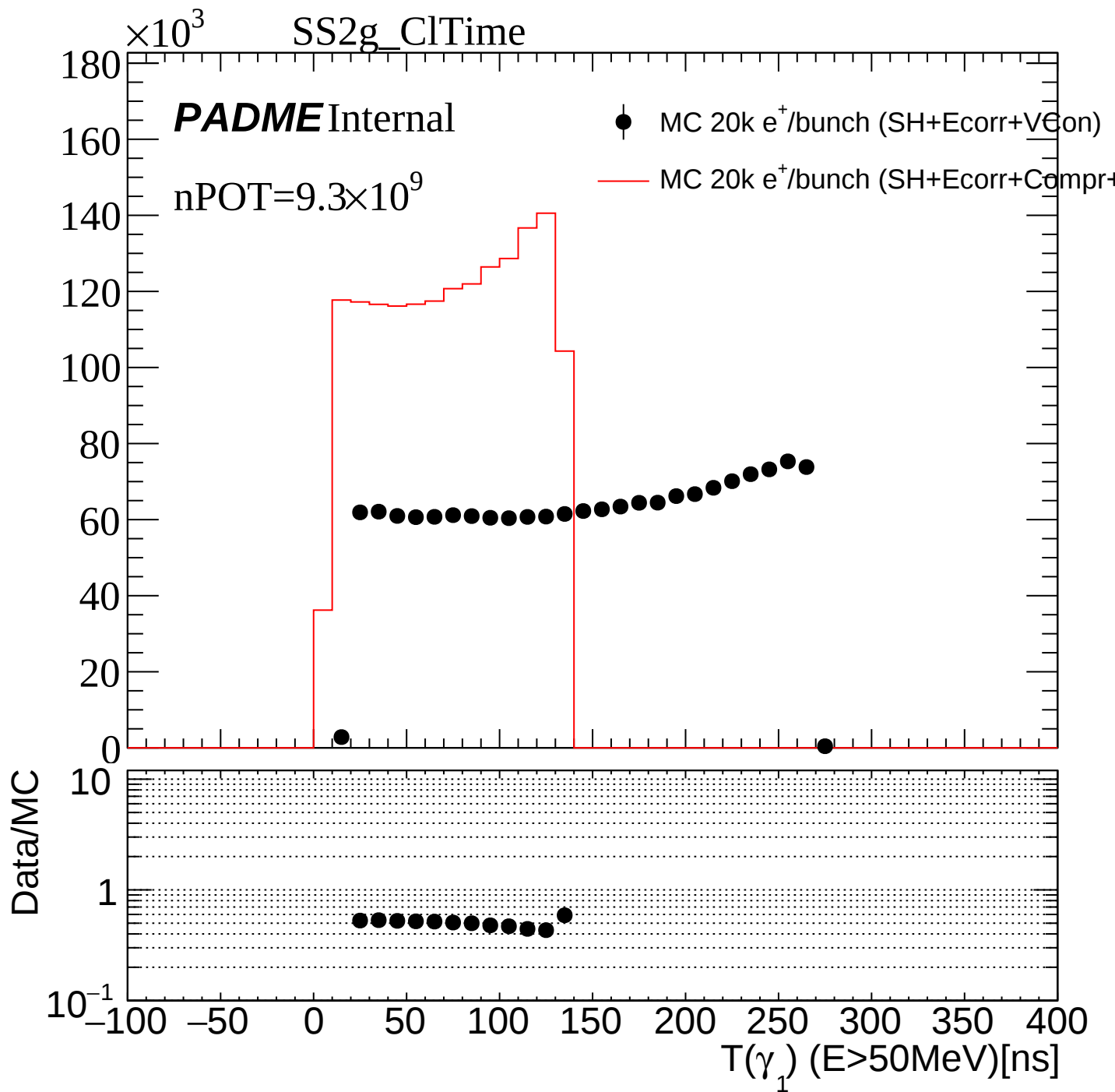


SS2gDt_passDtDphiCogDsume

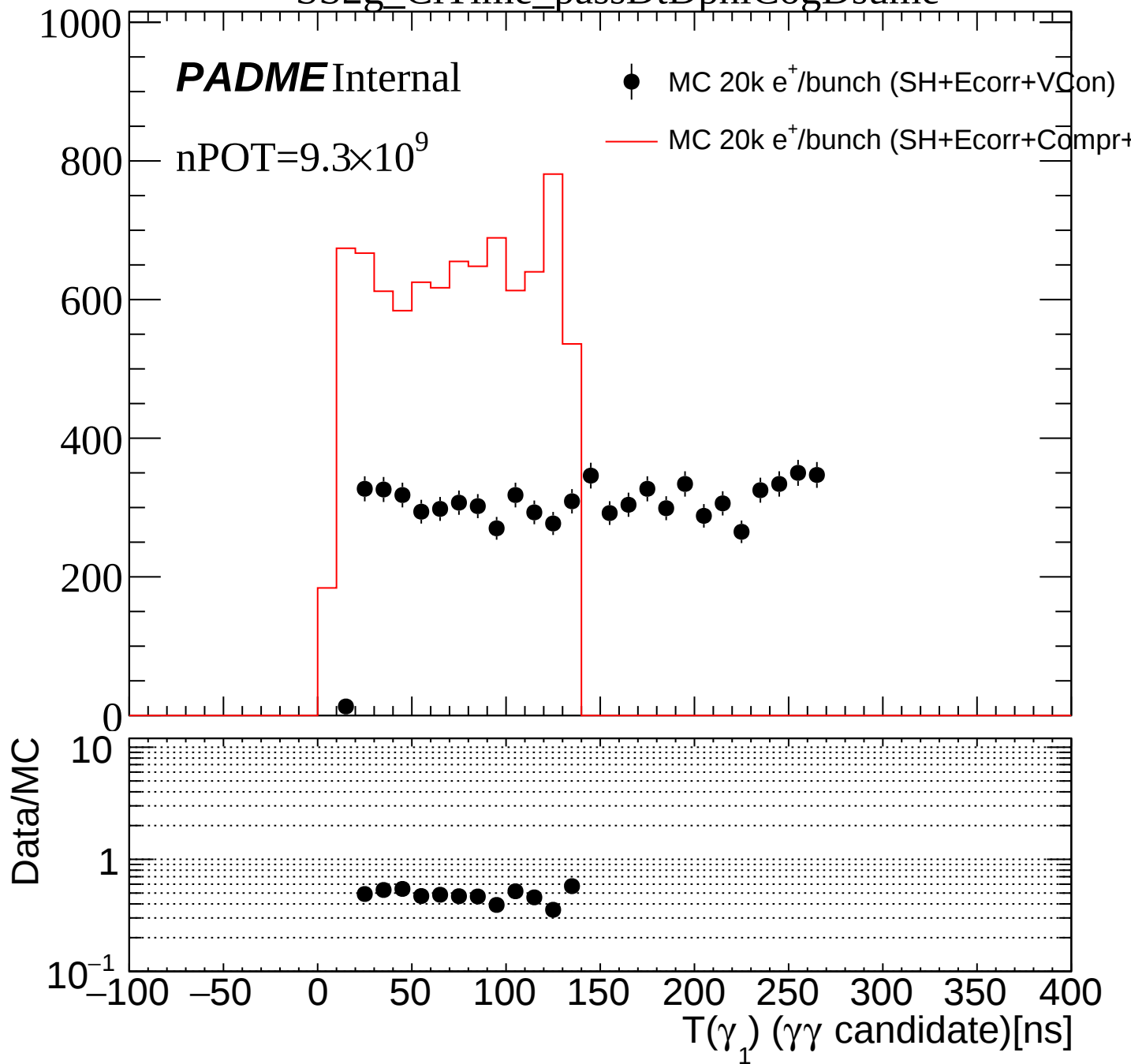




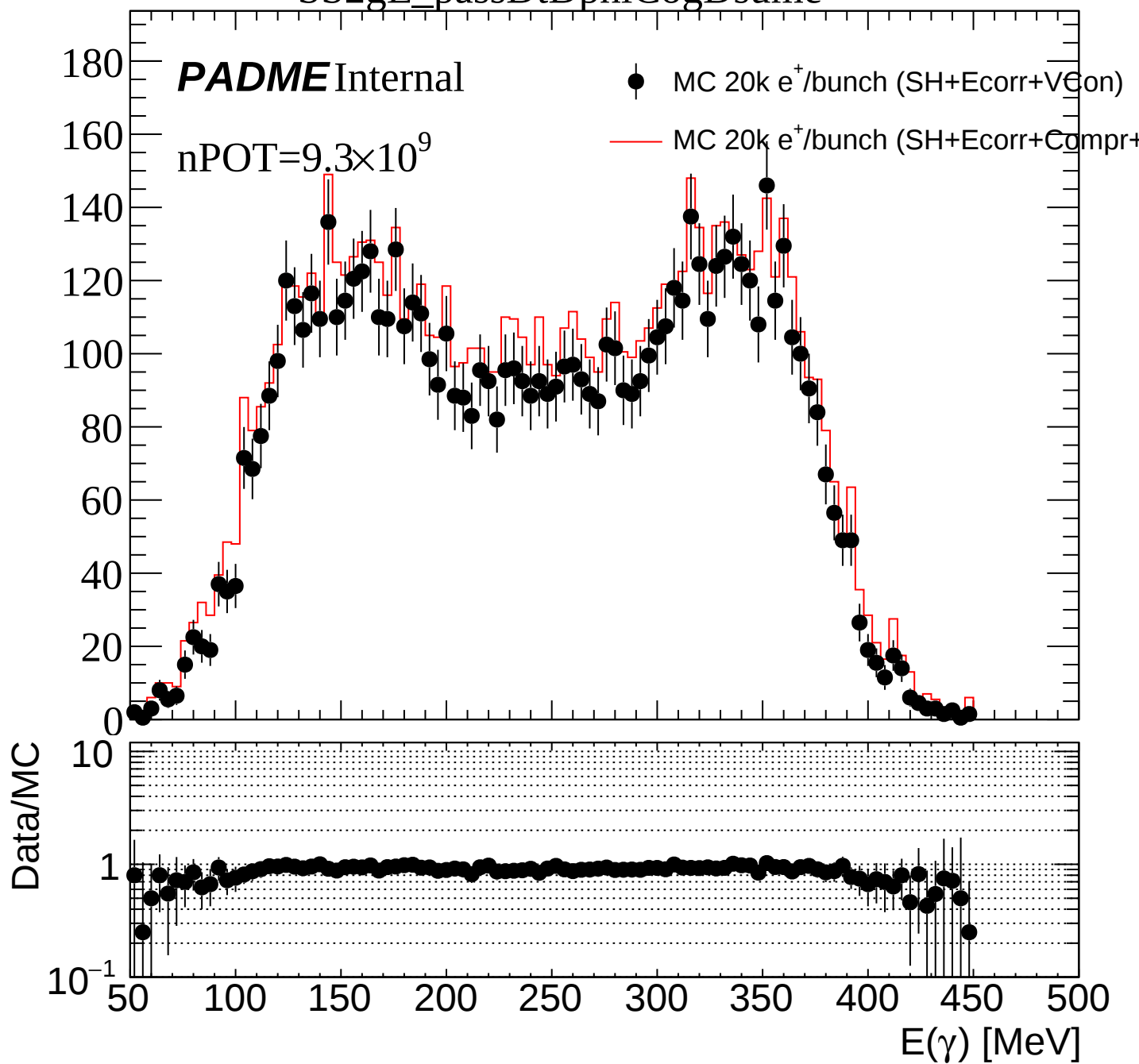




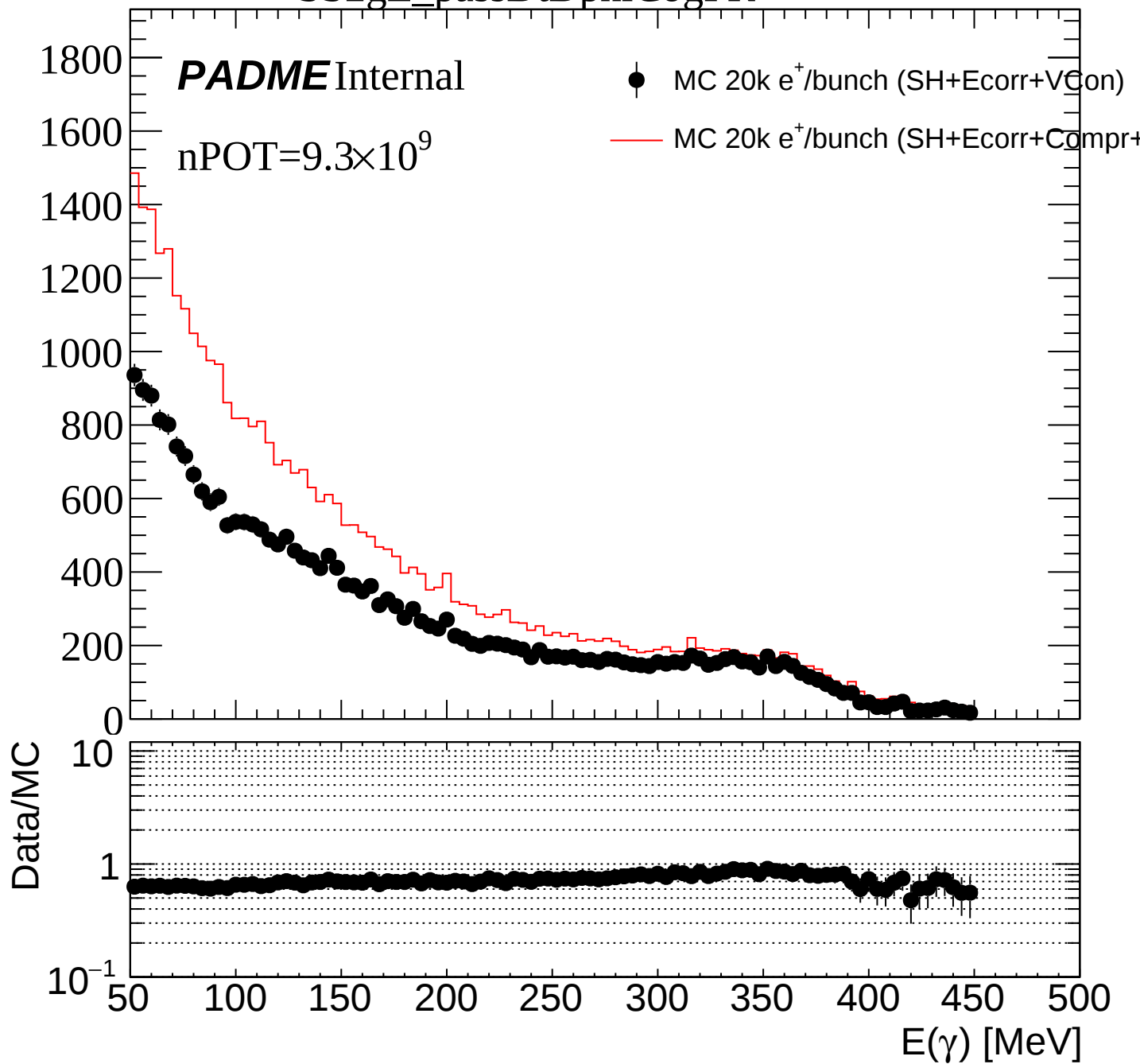
SS2g_ClTime_passDtDphiCogDsume



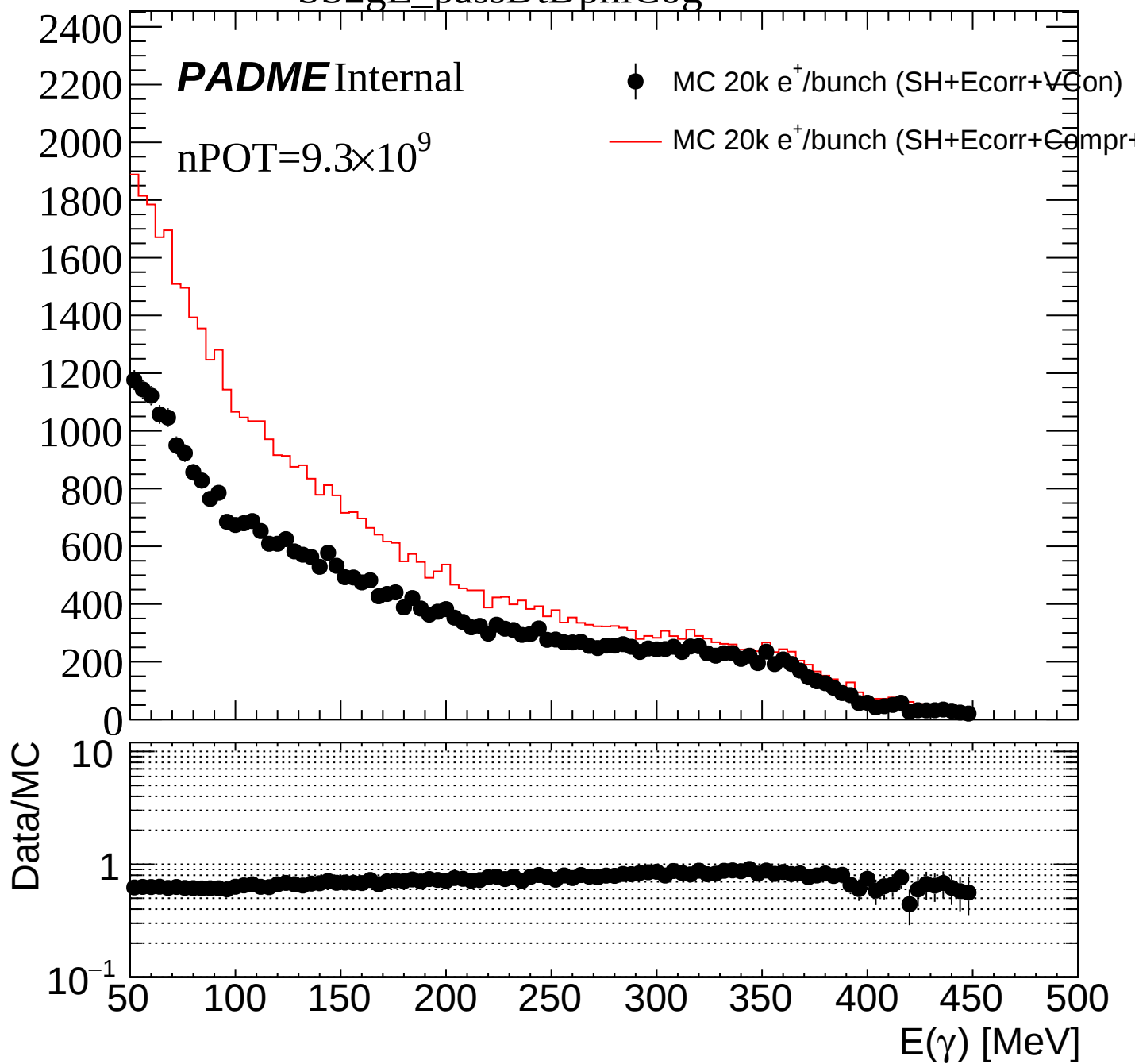
SS2gE_passDtDphiCogDsume



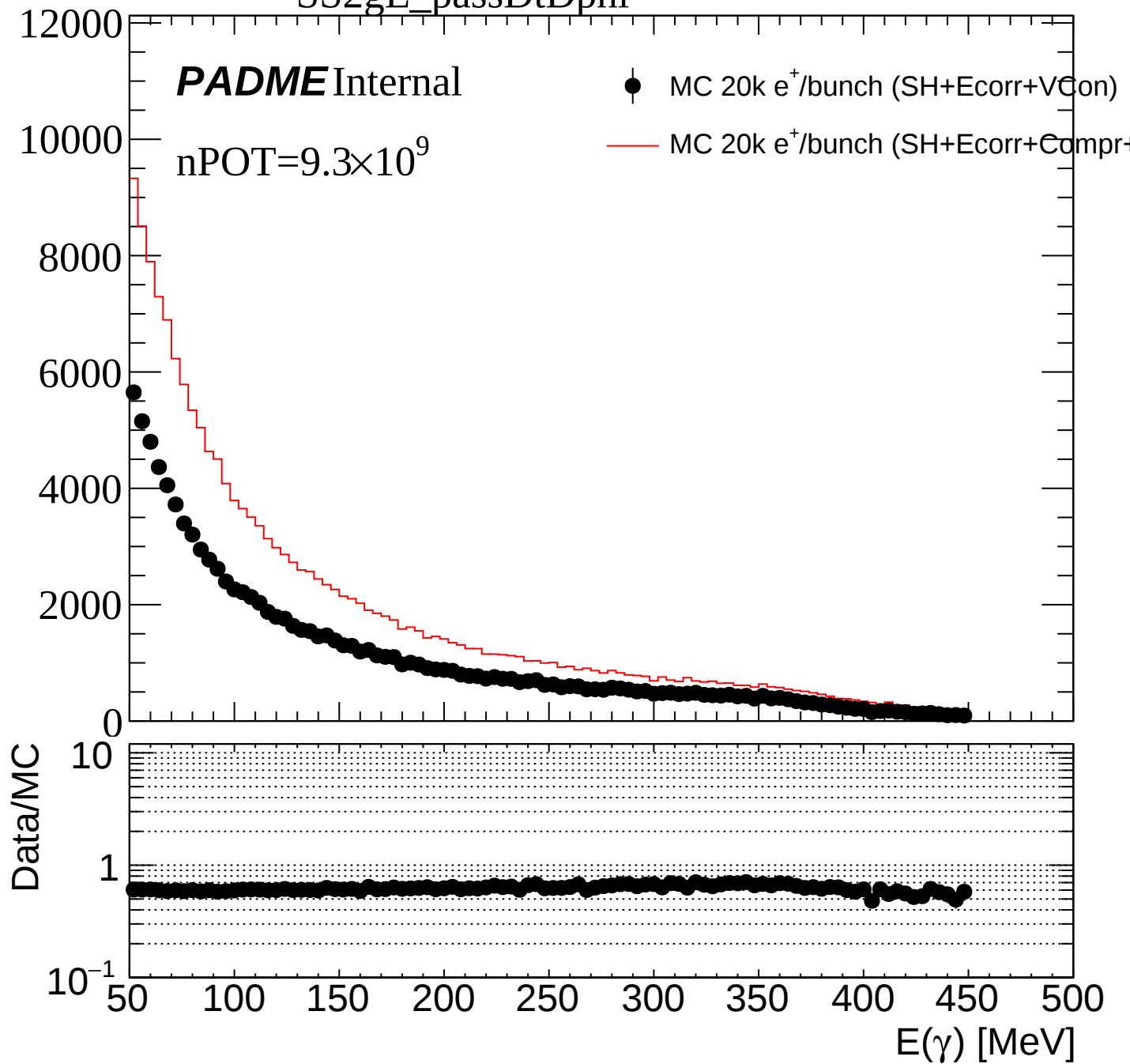
SS2gE_passDtDphiCogFR



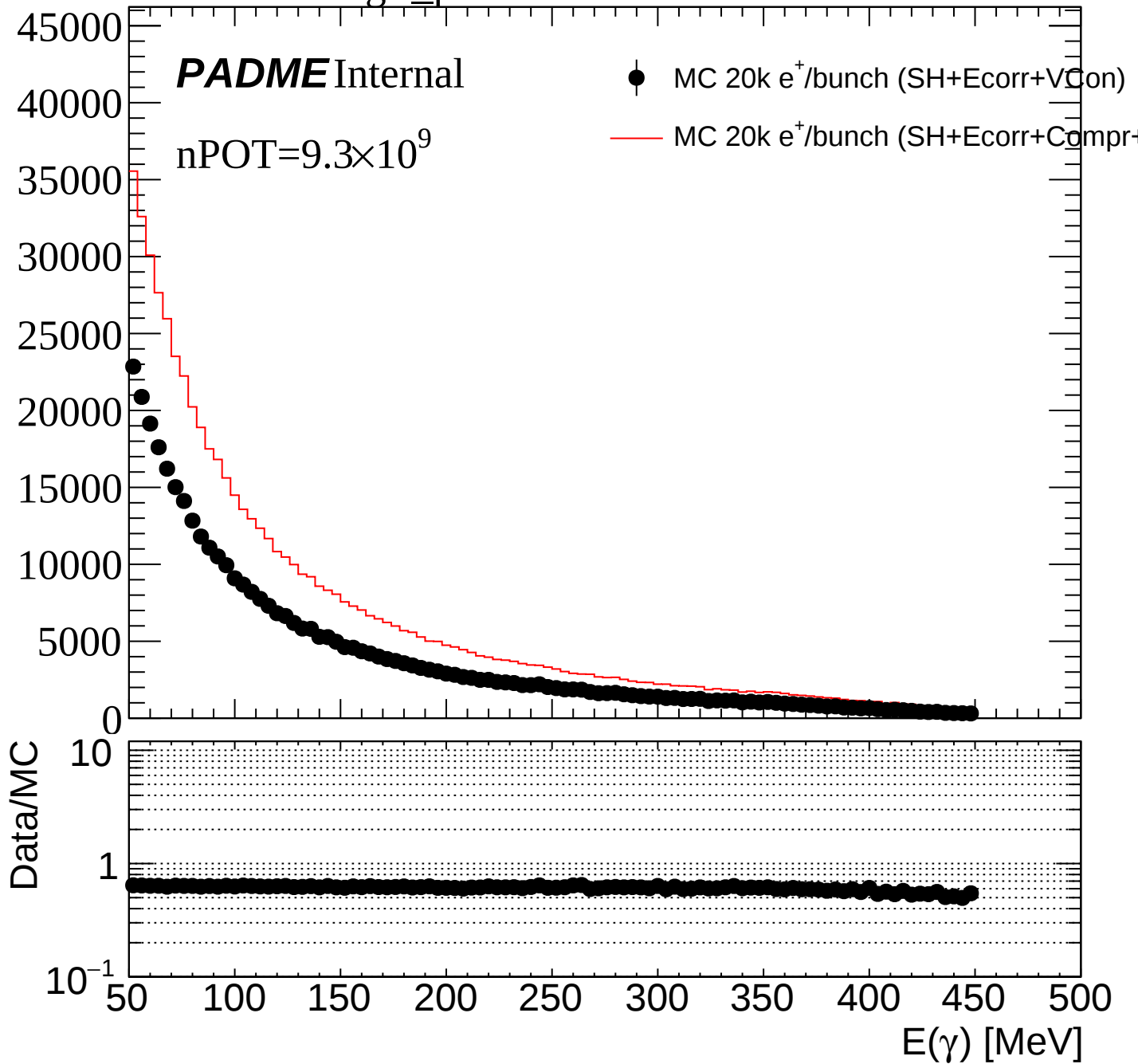
SS2gE_passDtDphiCog



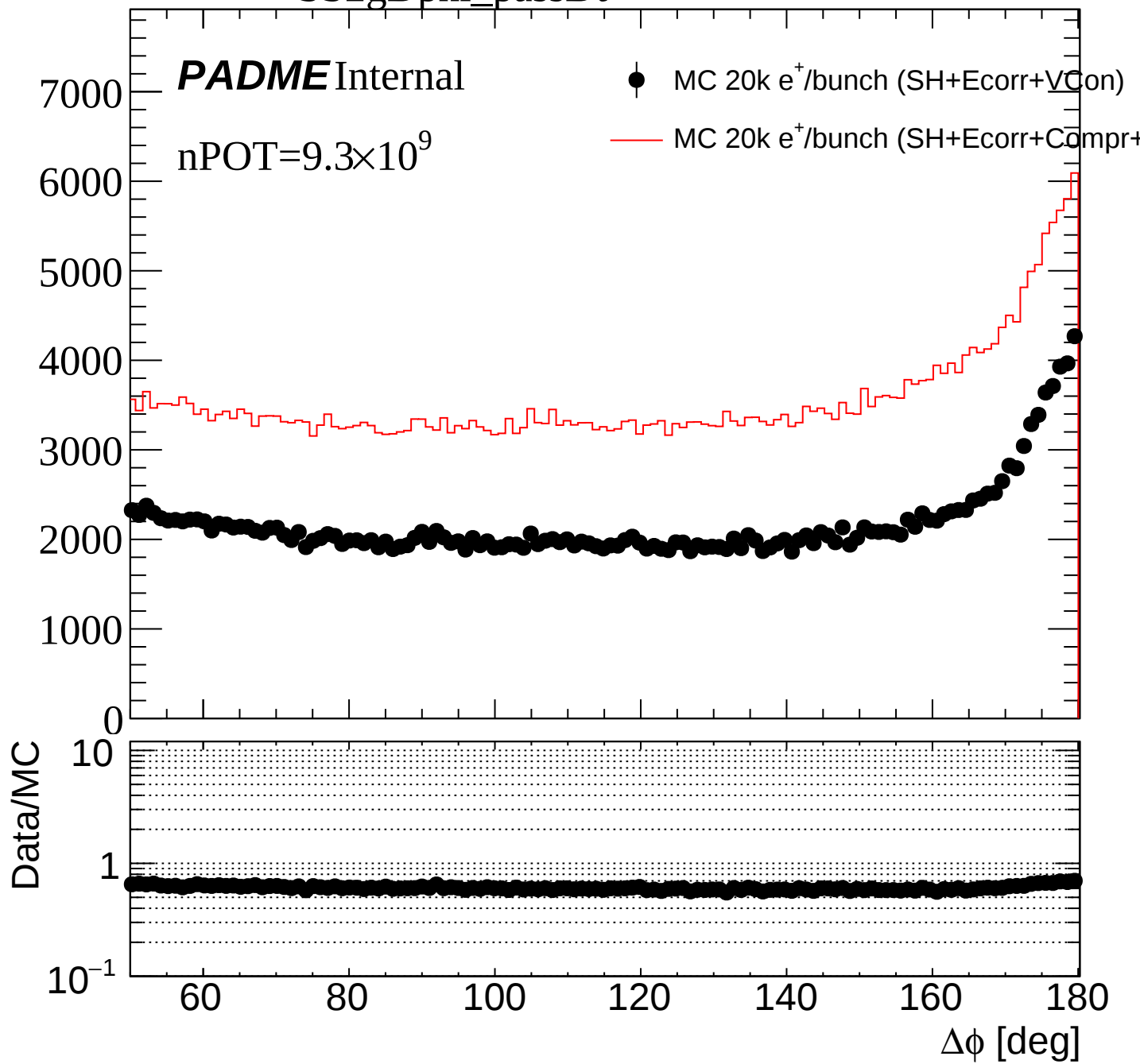
SS2gE_passDtDphi



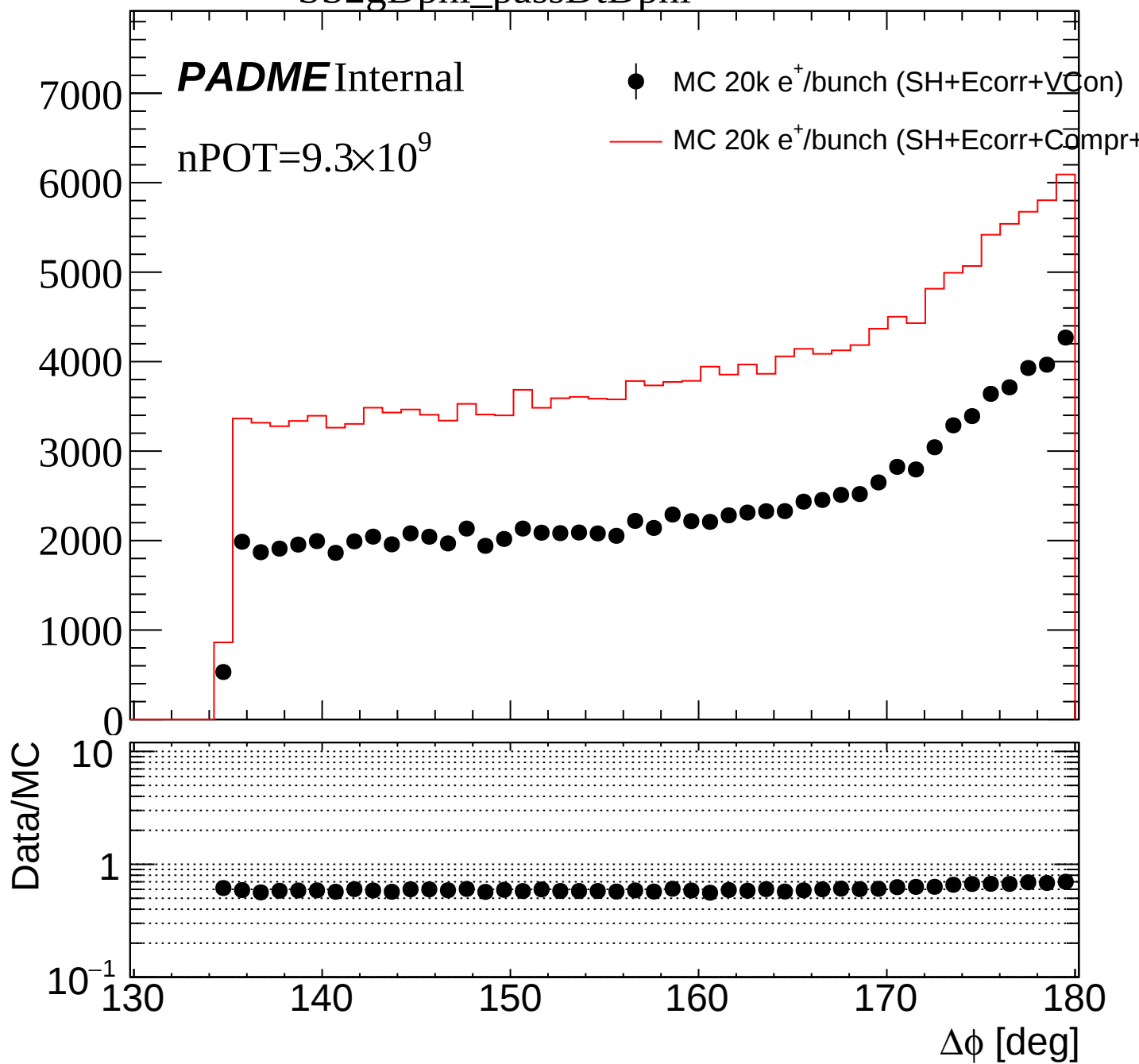
SS2gE_passDt



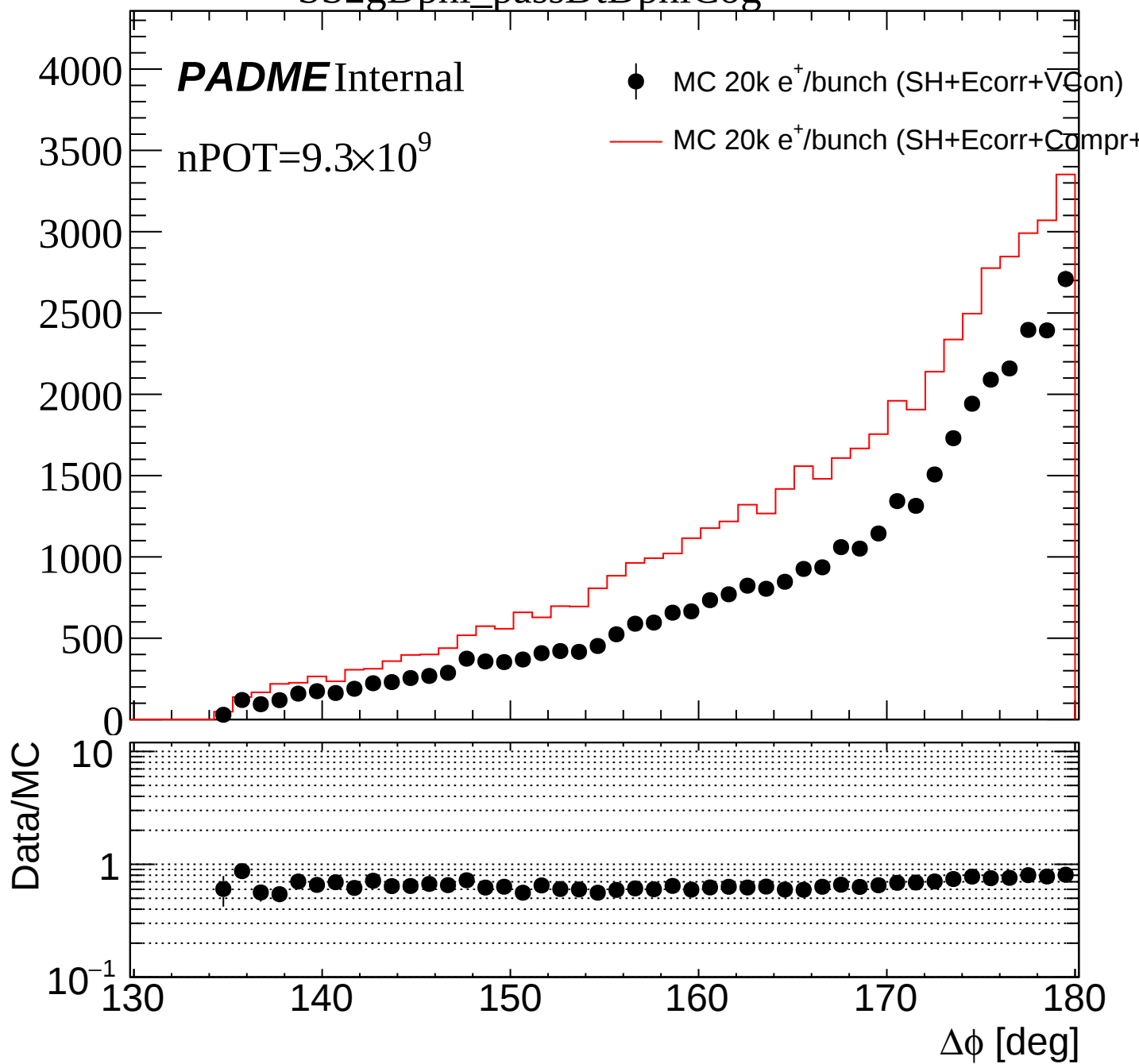
SS2gDphi_passDt



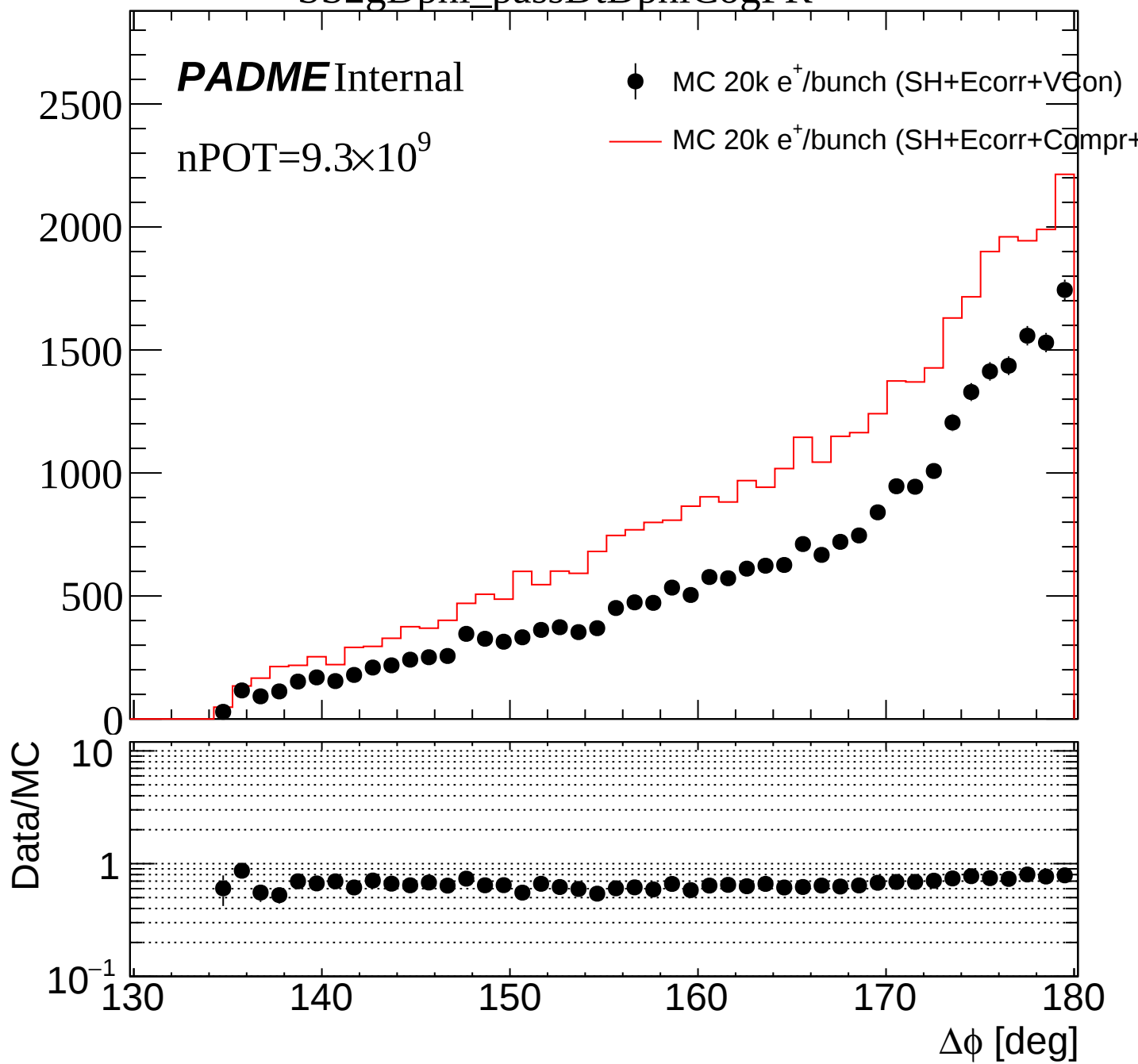
SS2gDphi_passDtDphi



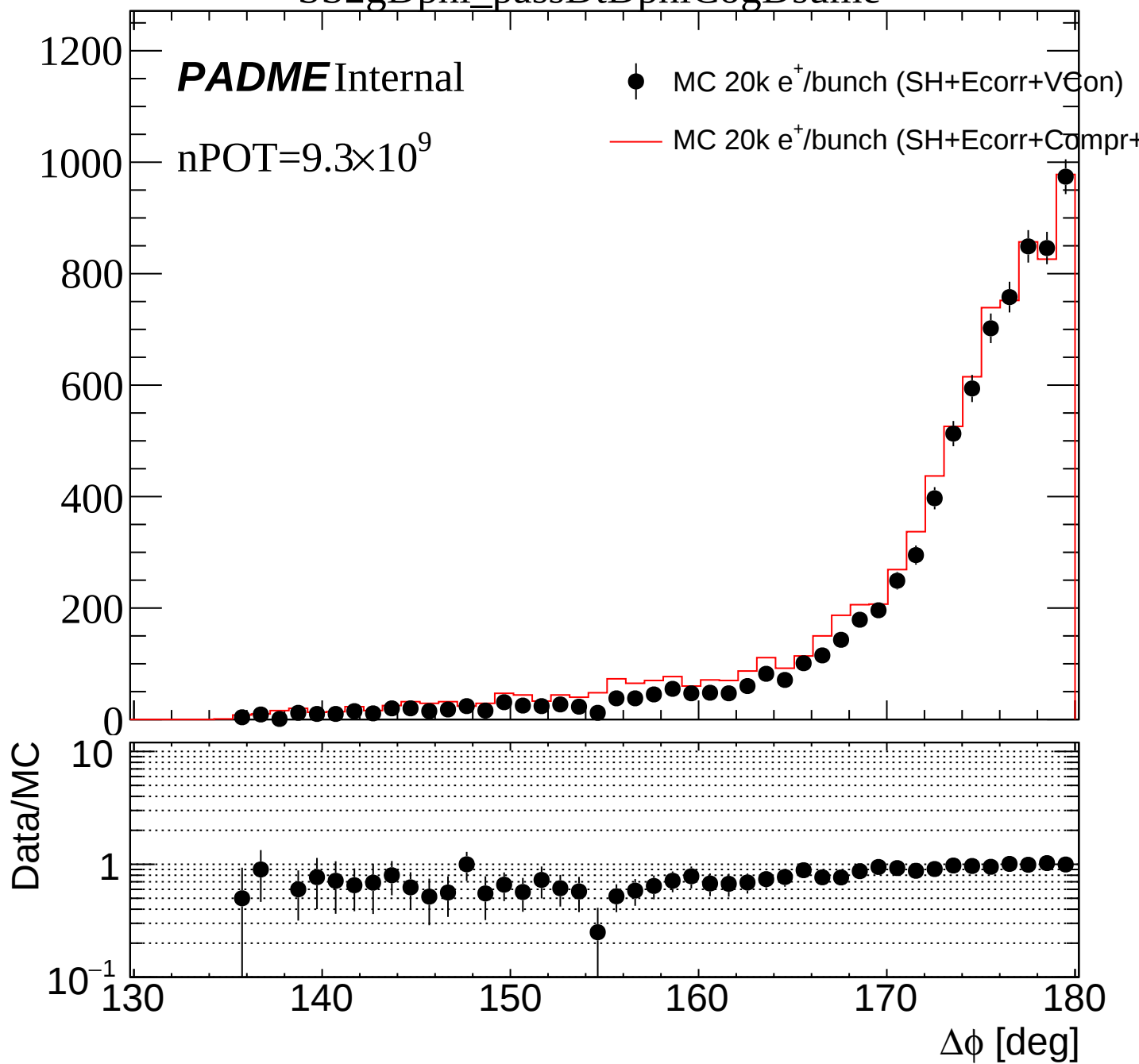
SS2gDphi_passDtDphiCog



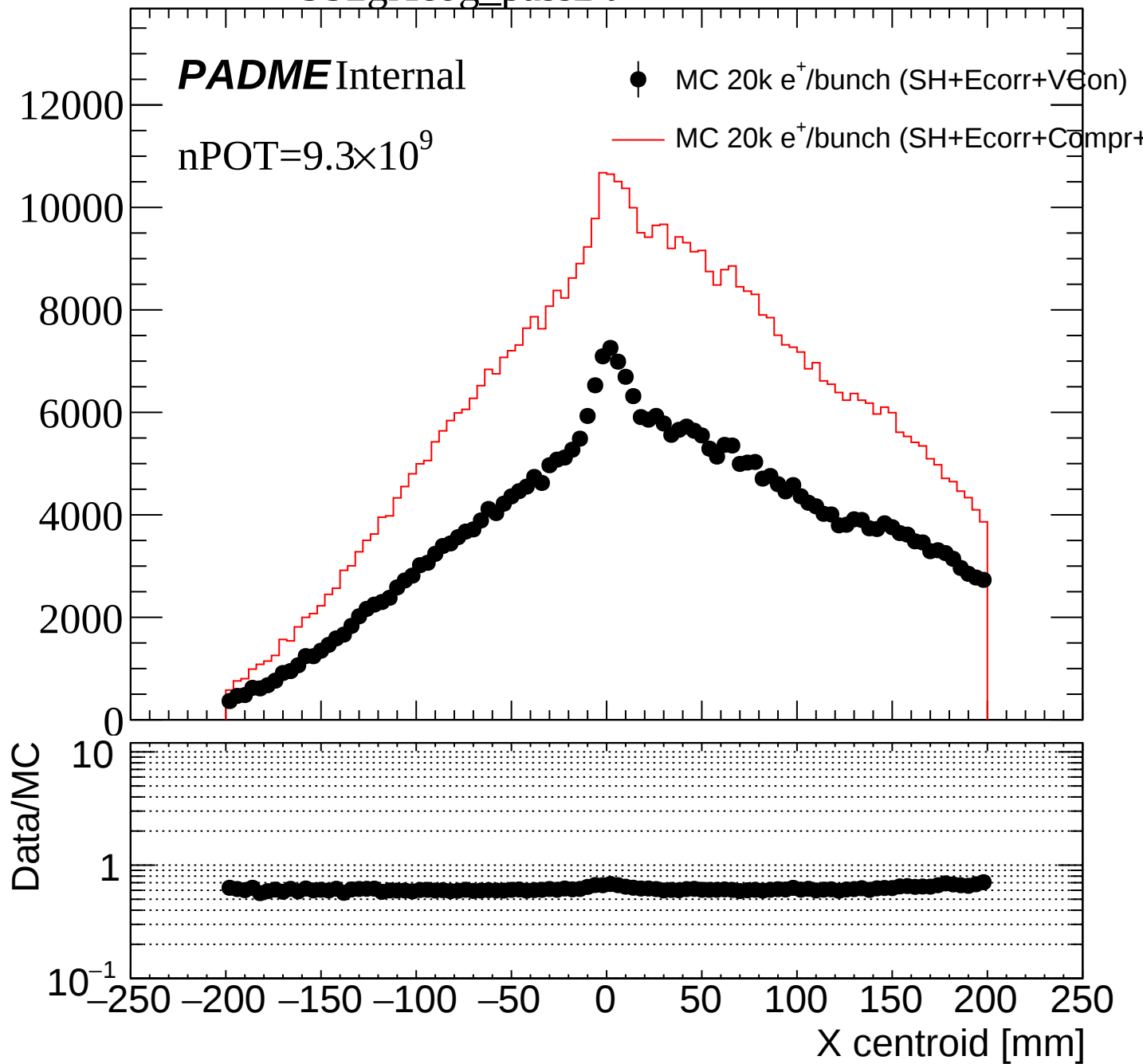
SS2gDphi_passDtDphiCogFR



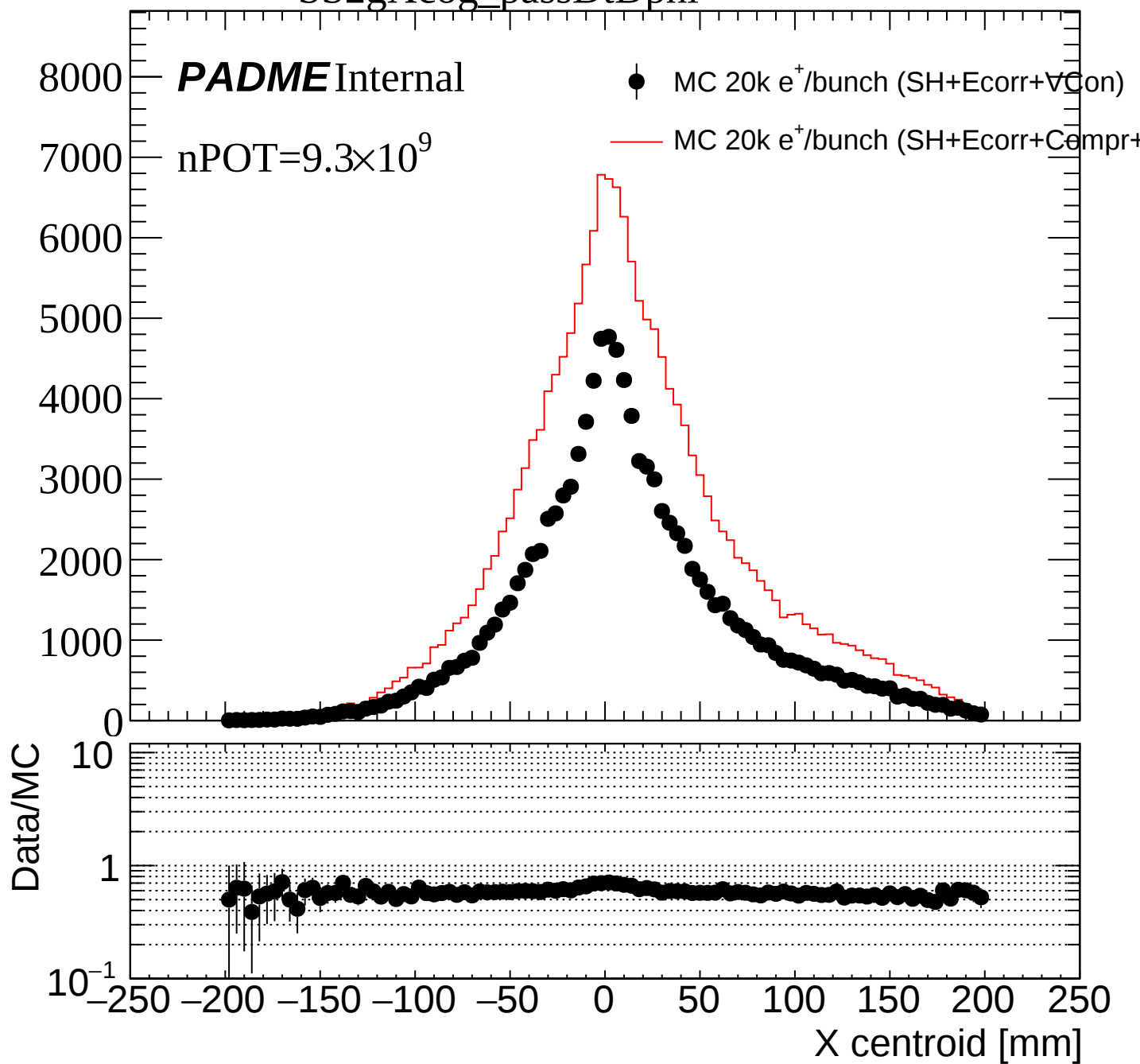
SS2gDphi_passDtDphiCogDsume



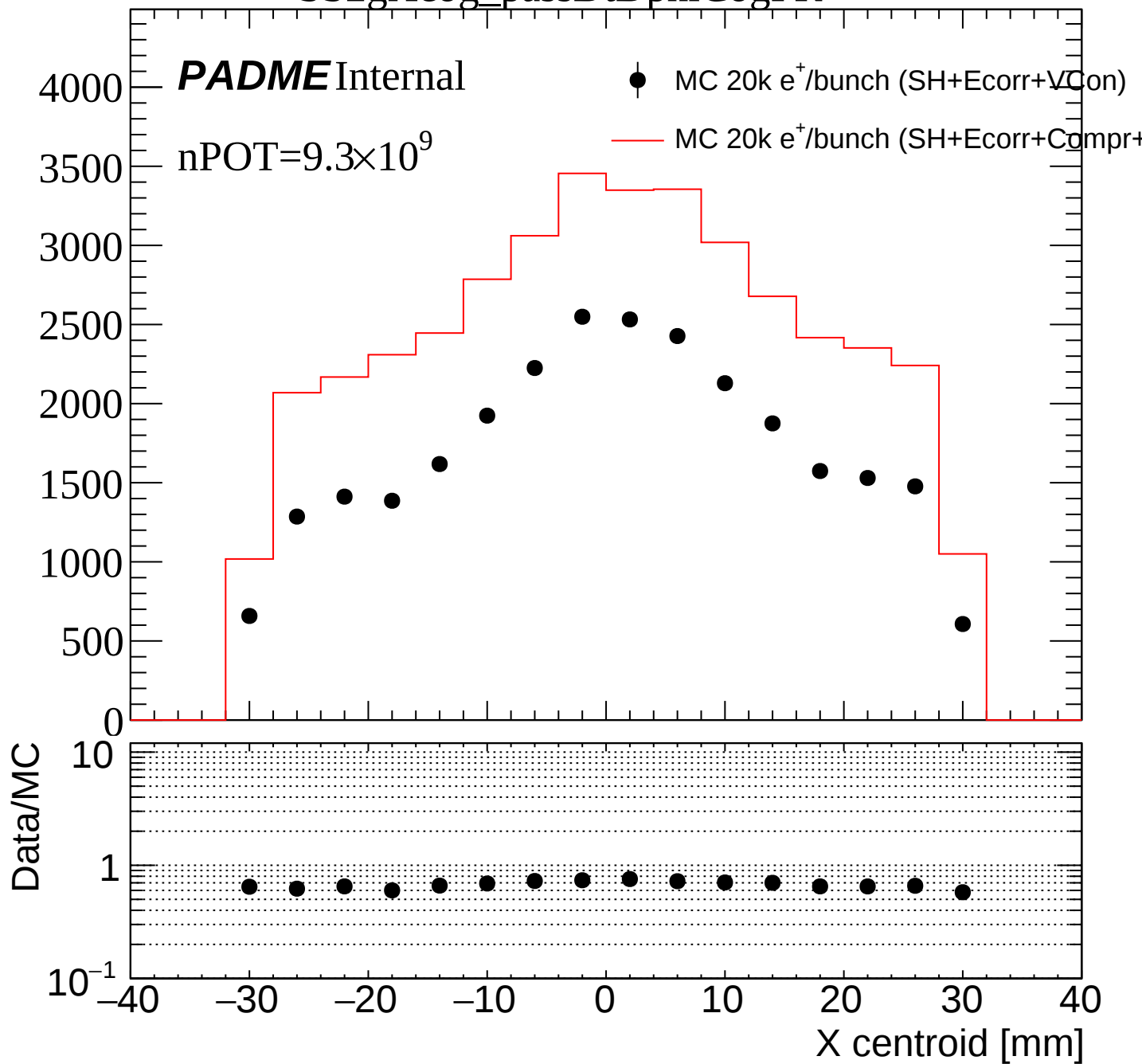
SS2gXcog_passDt



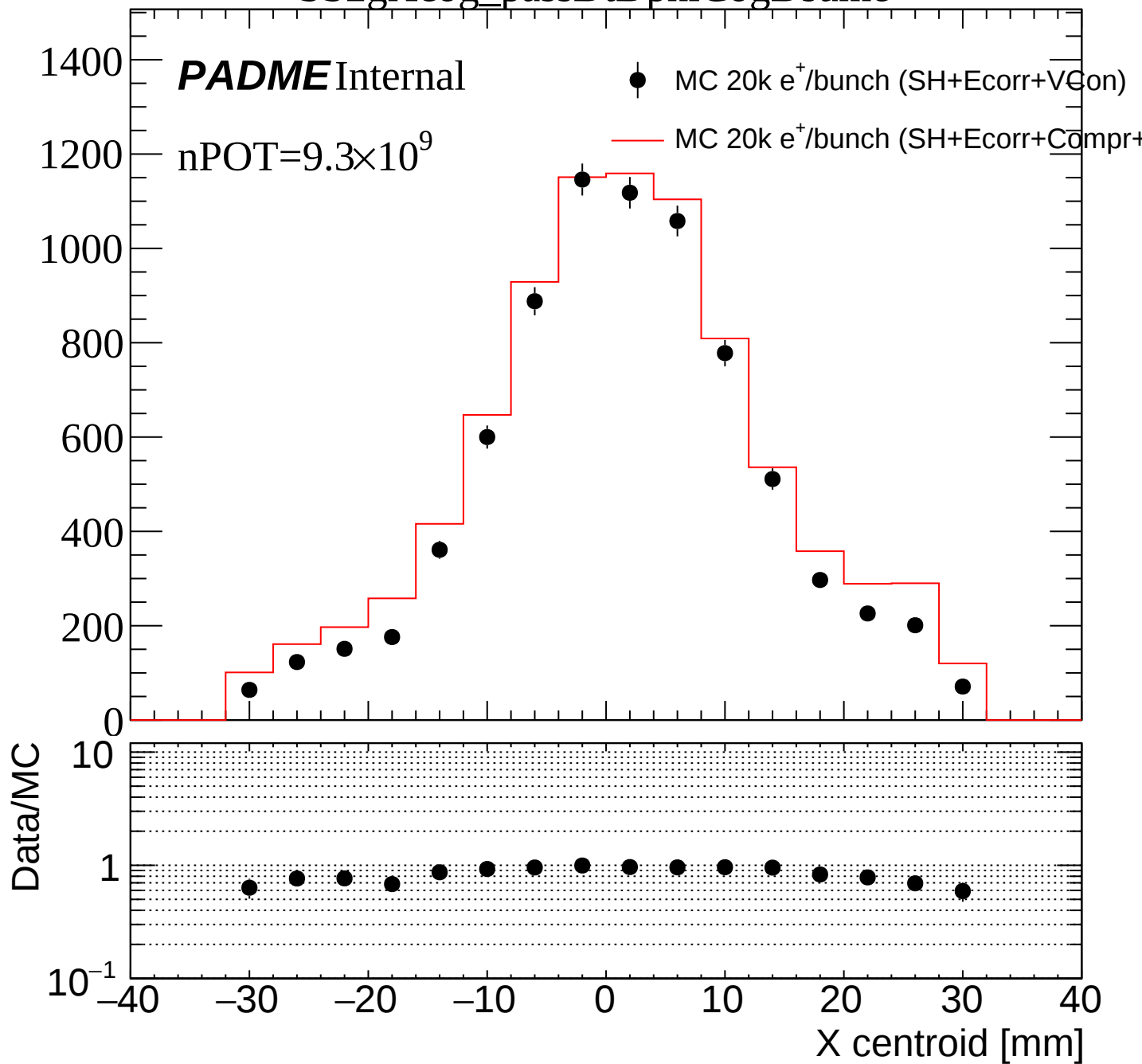
SS2gXcog_passDtDphi



SS2gXcog_passDtDphiCogFR



SS2gXcog_passDtDphiCogDsume



SS2gYcog_passDt

25000

PADME Internal

nPOT=9.3×10⁹

● MC 20k e⁺/bunch (SH+Ecorr+VCon)

— MC 20k e⁺/bunch (SH+Ecorr+Compr+)

20000

15000

10000

5000

0

Data/MC

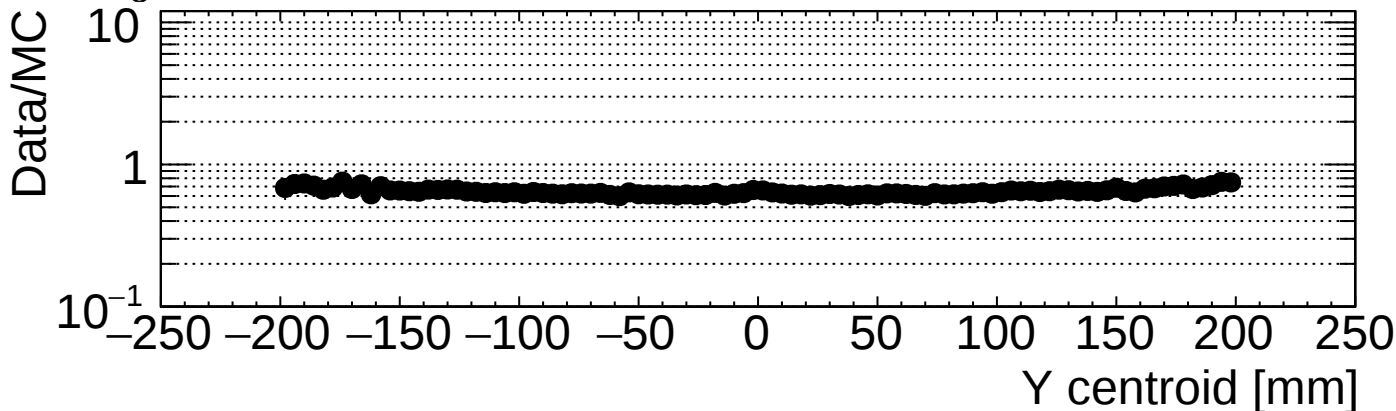
10

1

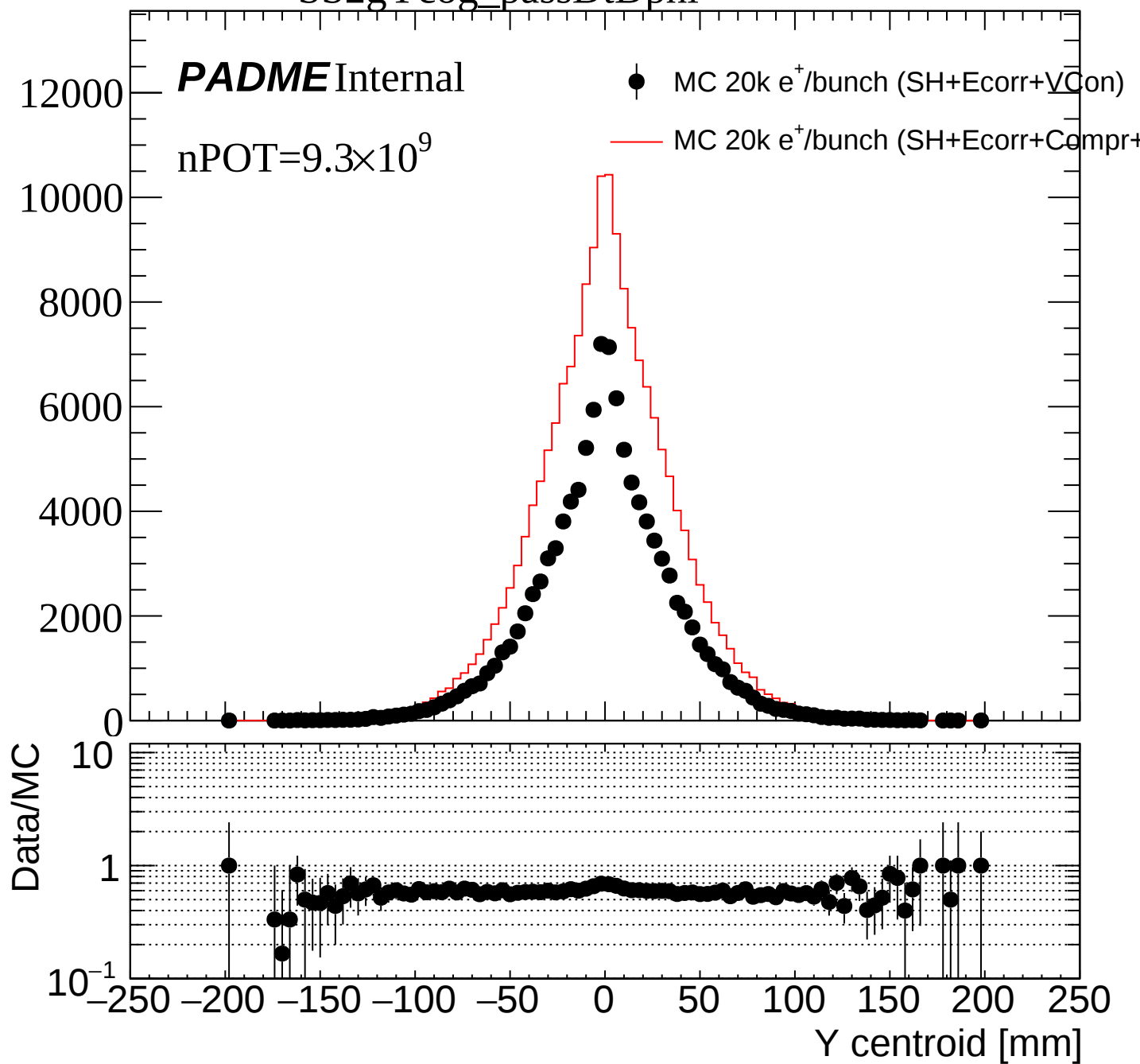
10⁻¹

-250 -200 -150 -100 -50 0 50 100 150 200 250

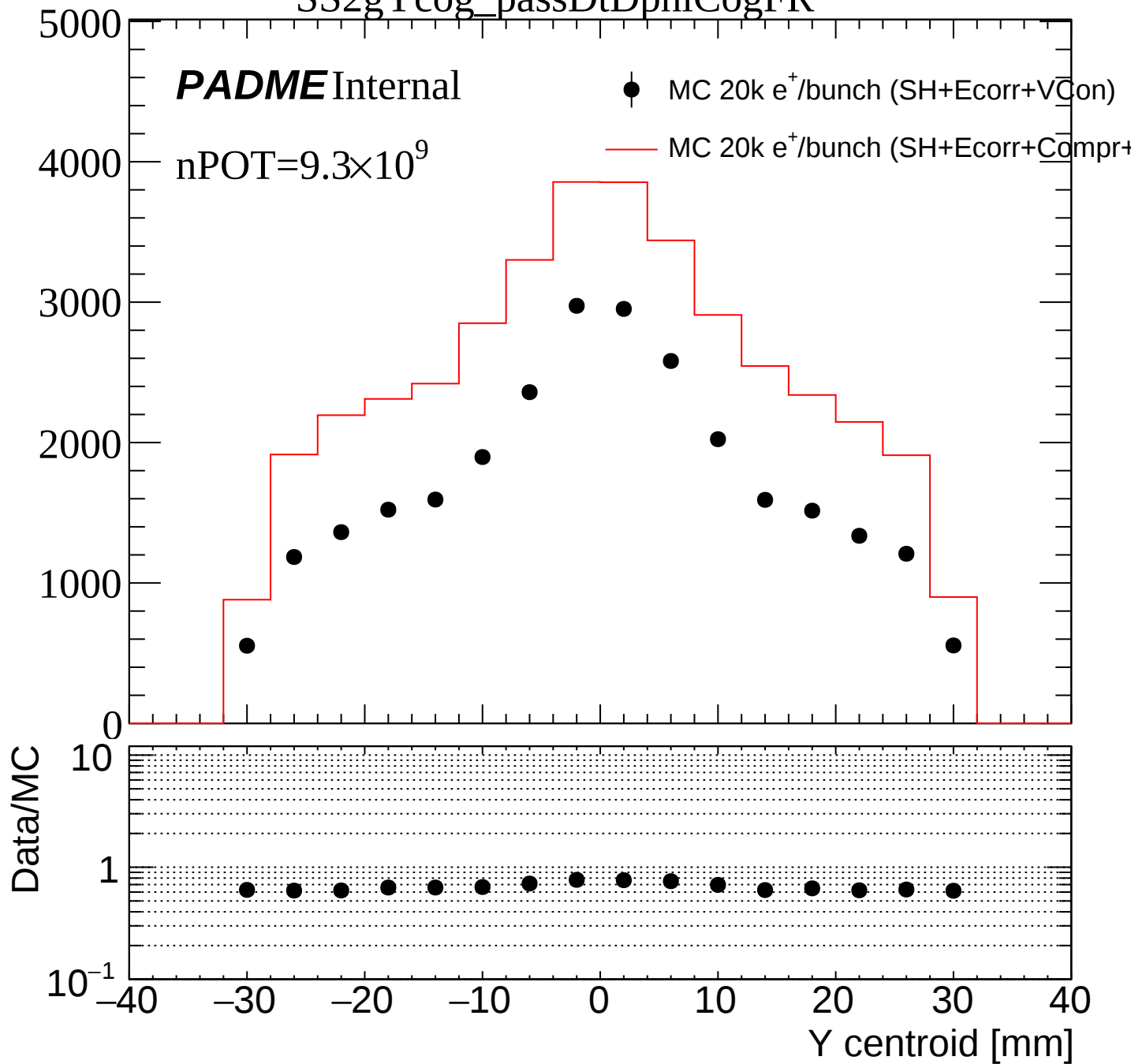
Y centroid [mm]



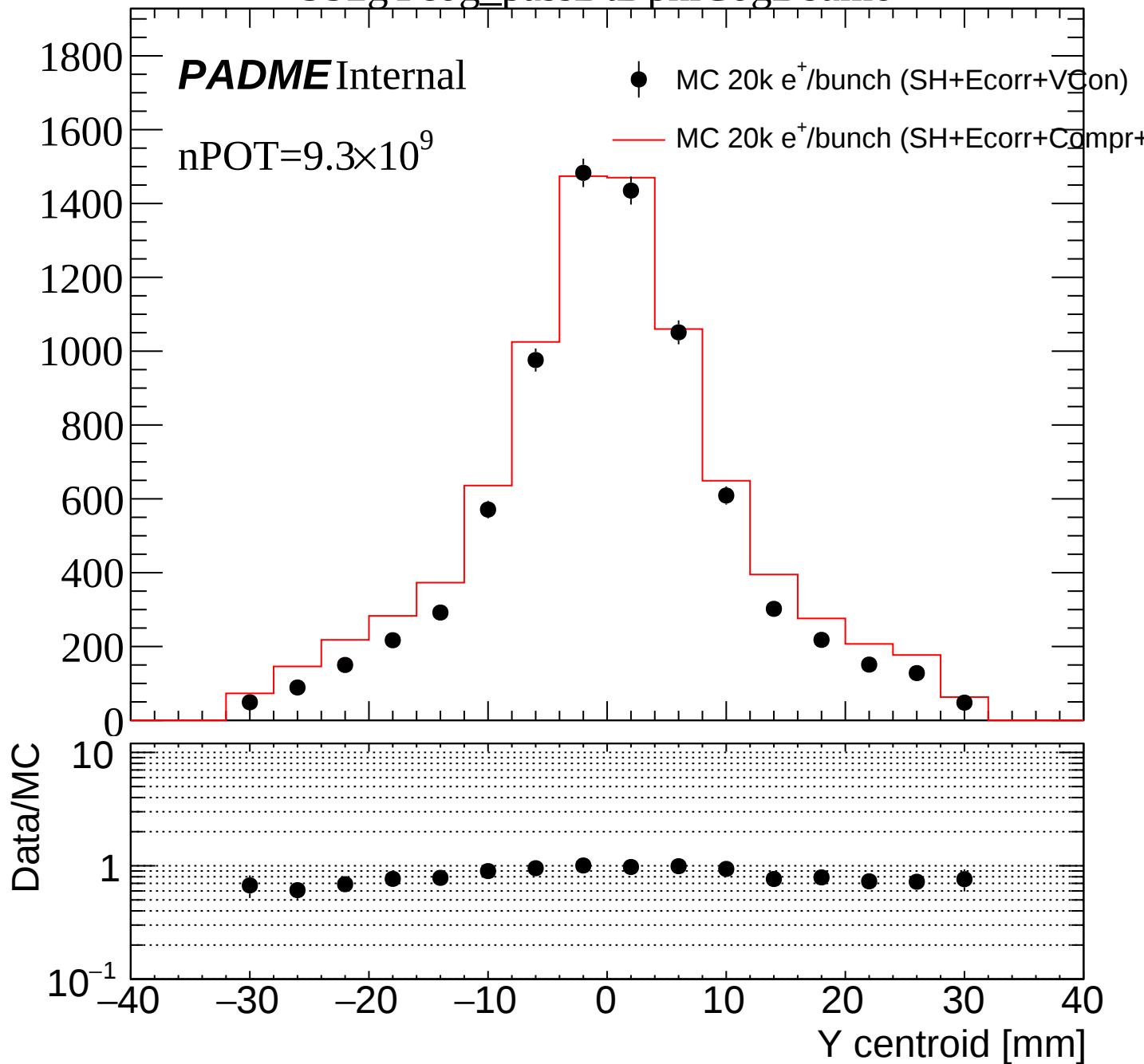
SS2gYcog_passDtDphi



SS2gYcog_passDtDphiCogFR



SS2gYcog_passDtDphiCogDsume



SS2gX_passDt

PADME Internal

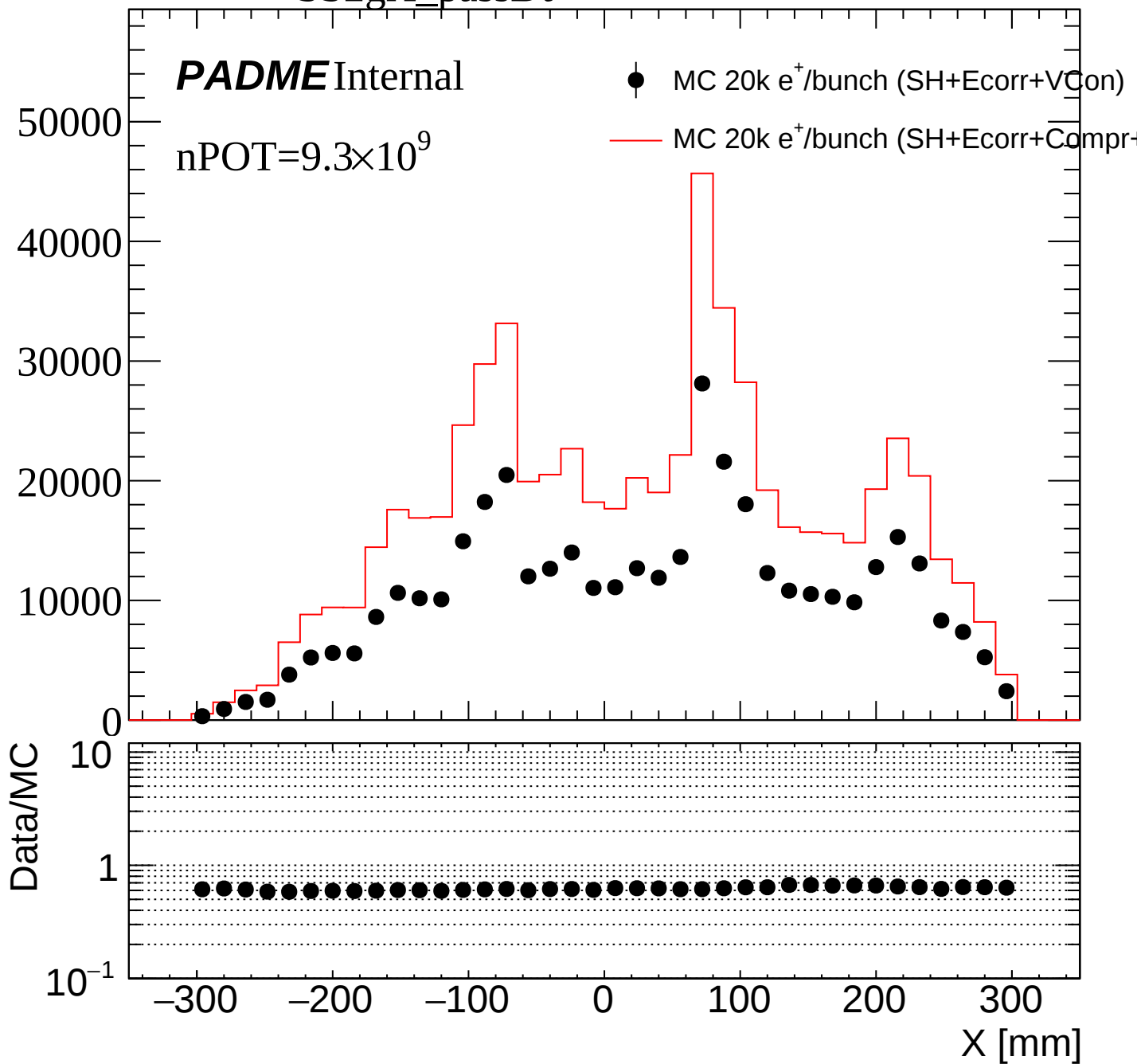
$n\text{POT}=9.3\times 10^9$

● MC 20k e⁺/bunch (SH+Ecorr+VCon)

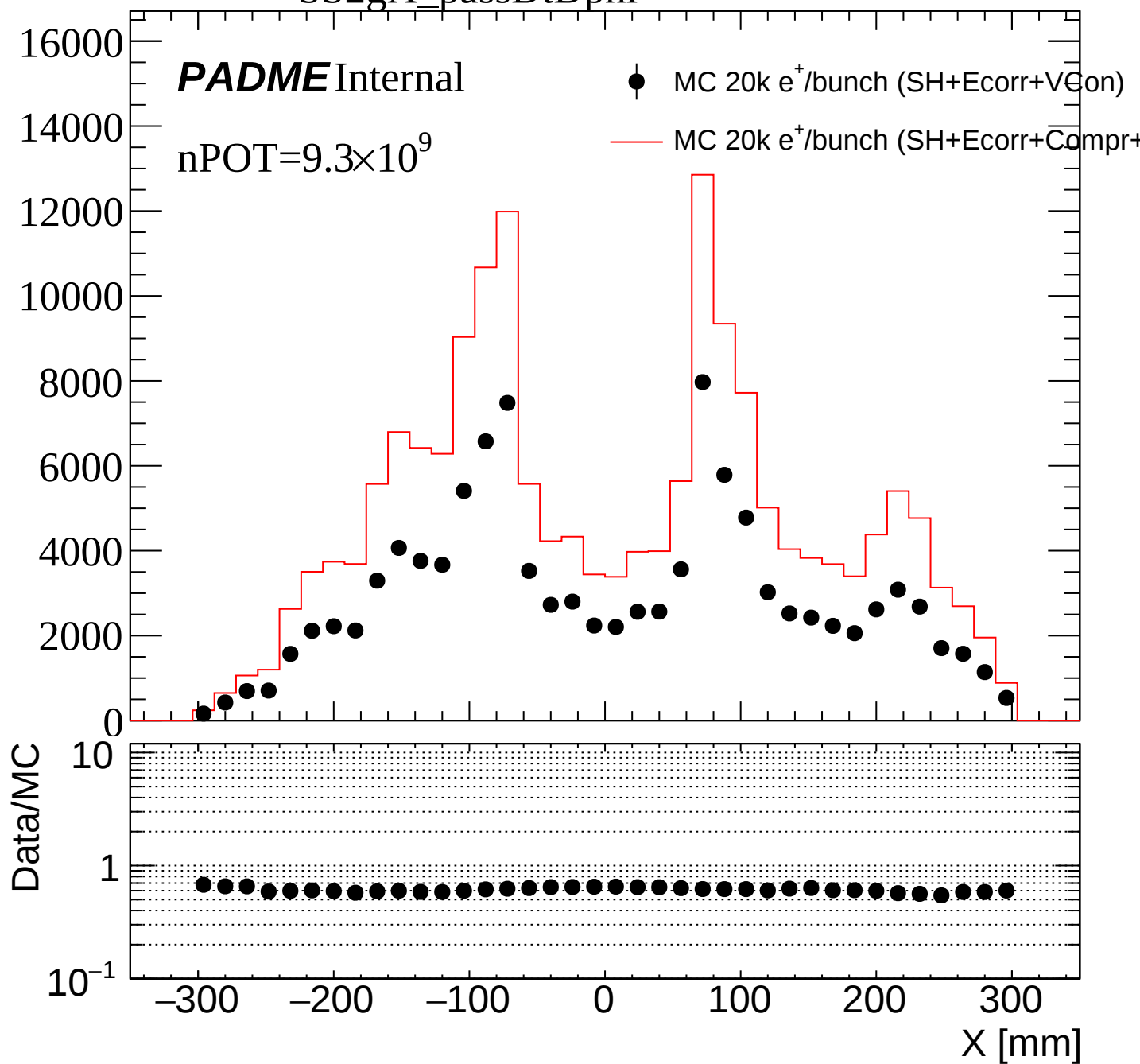
— MC 20k e⁺/bunch (SH+Ecorr+Compr+)

Data/MC

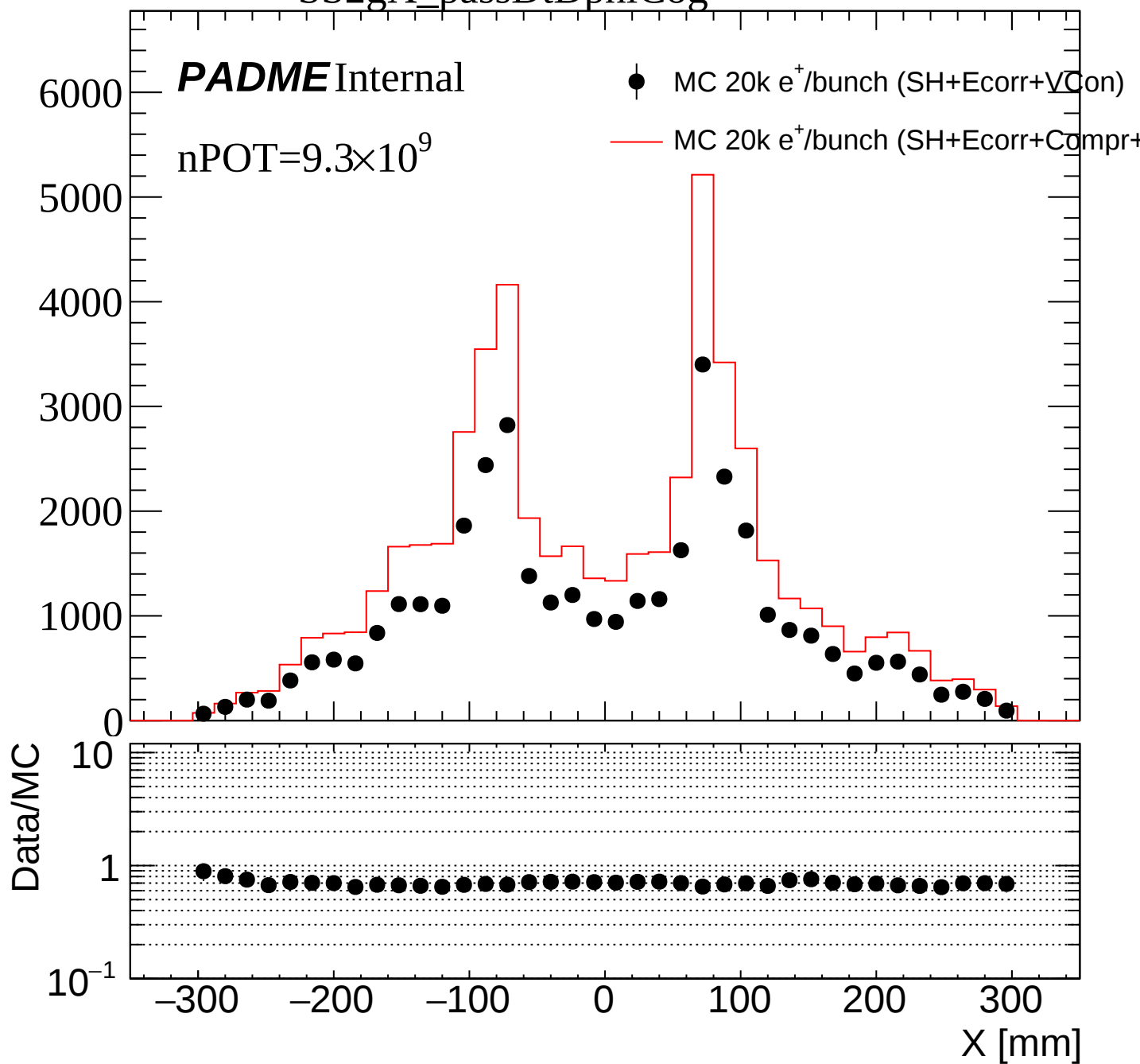
X [mm]



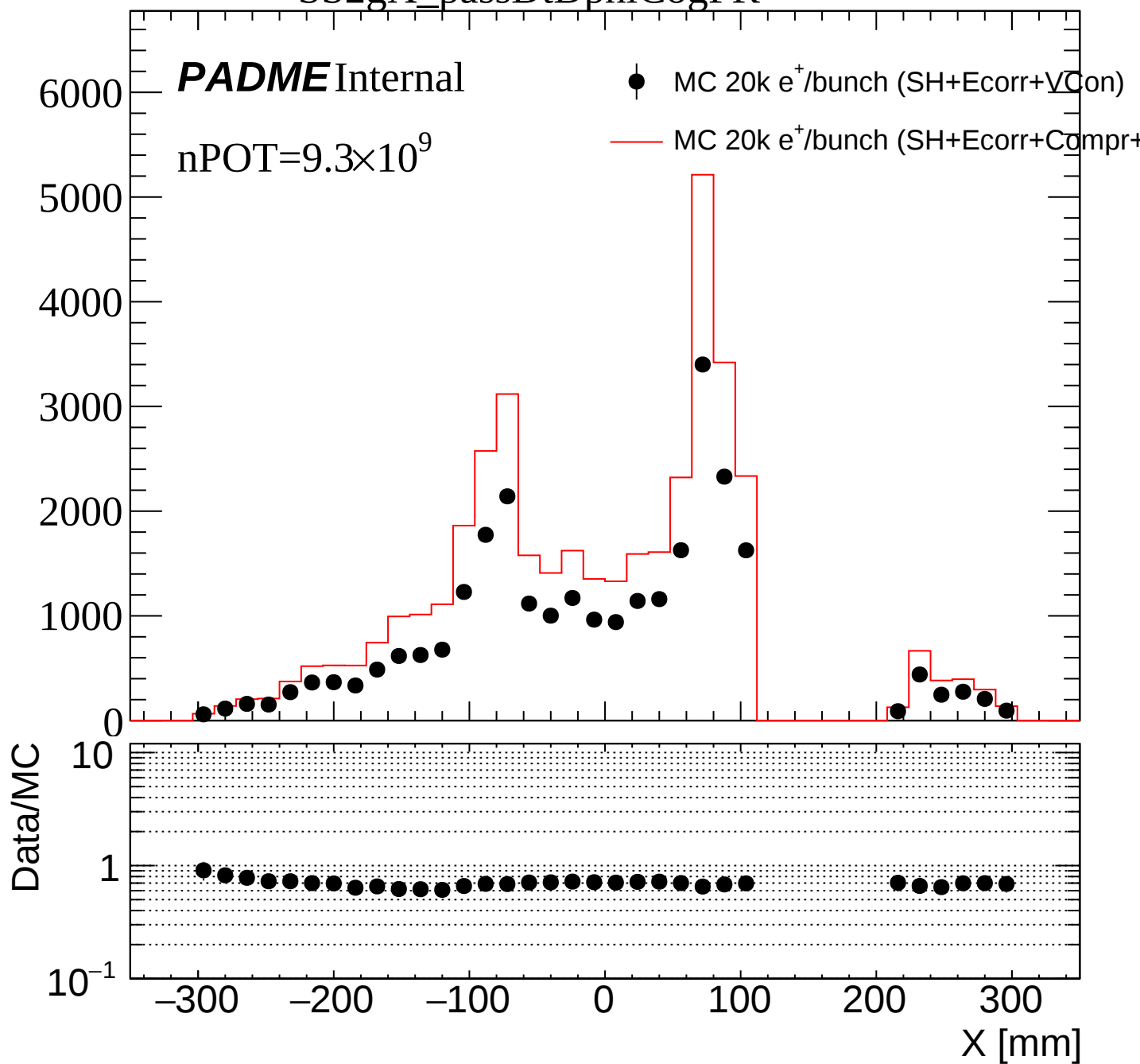
SS2gX_passDtDphi



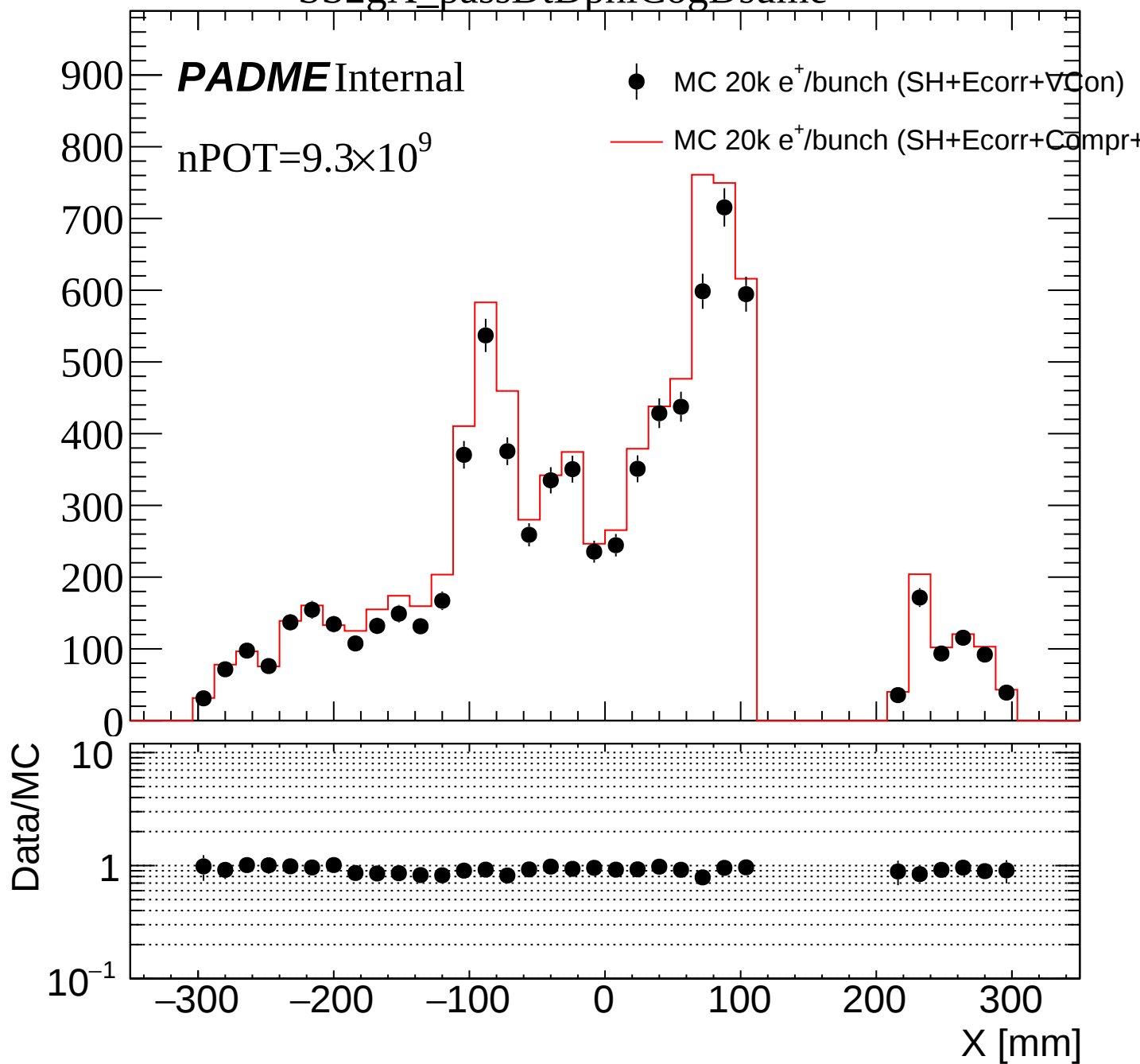
SS2gX_passDtDphiCog



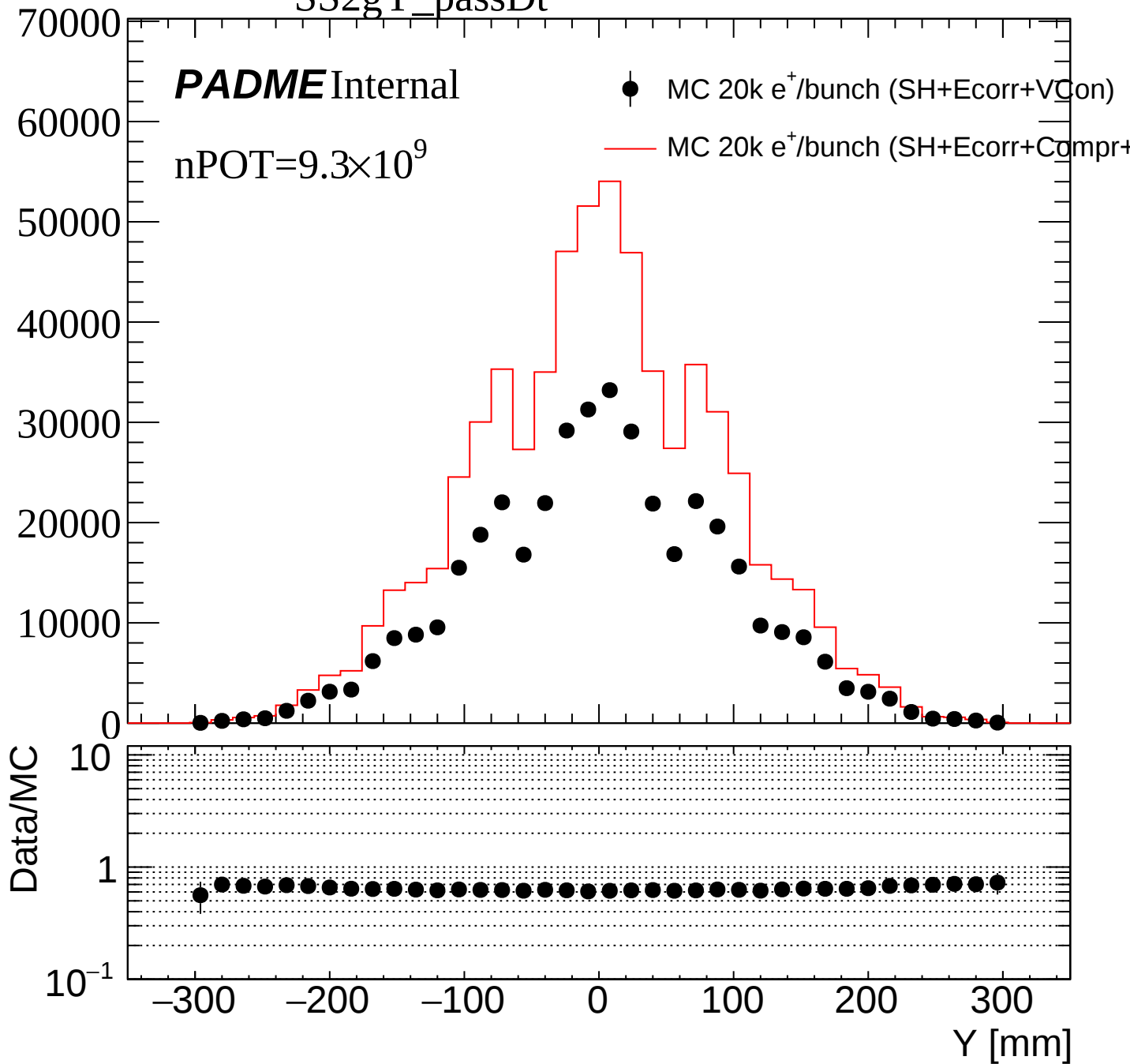
SS2gX_passDtDphiCogFR



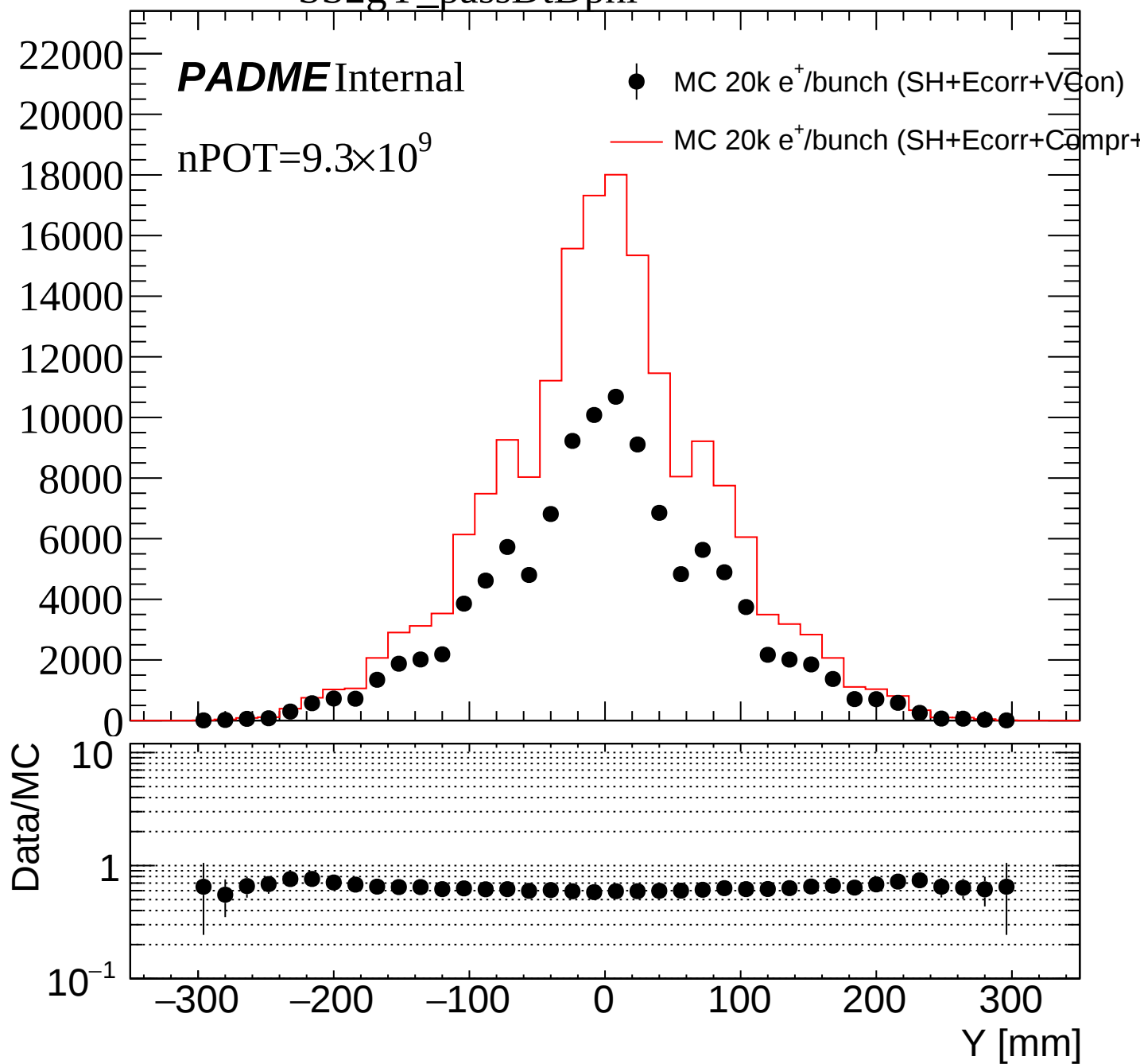
SS2gX_passDtDphiCogDsume



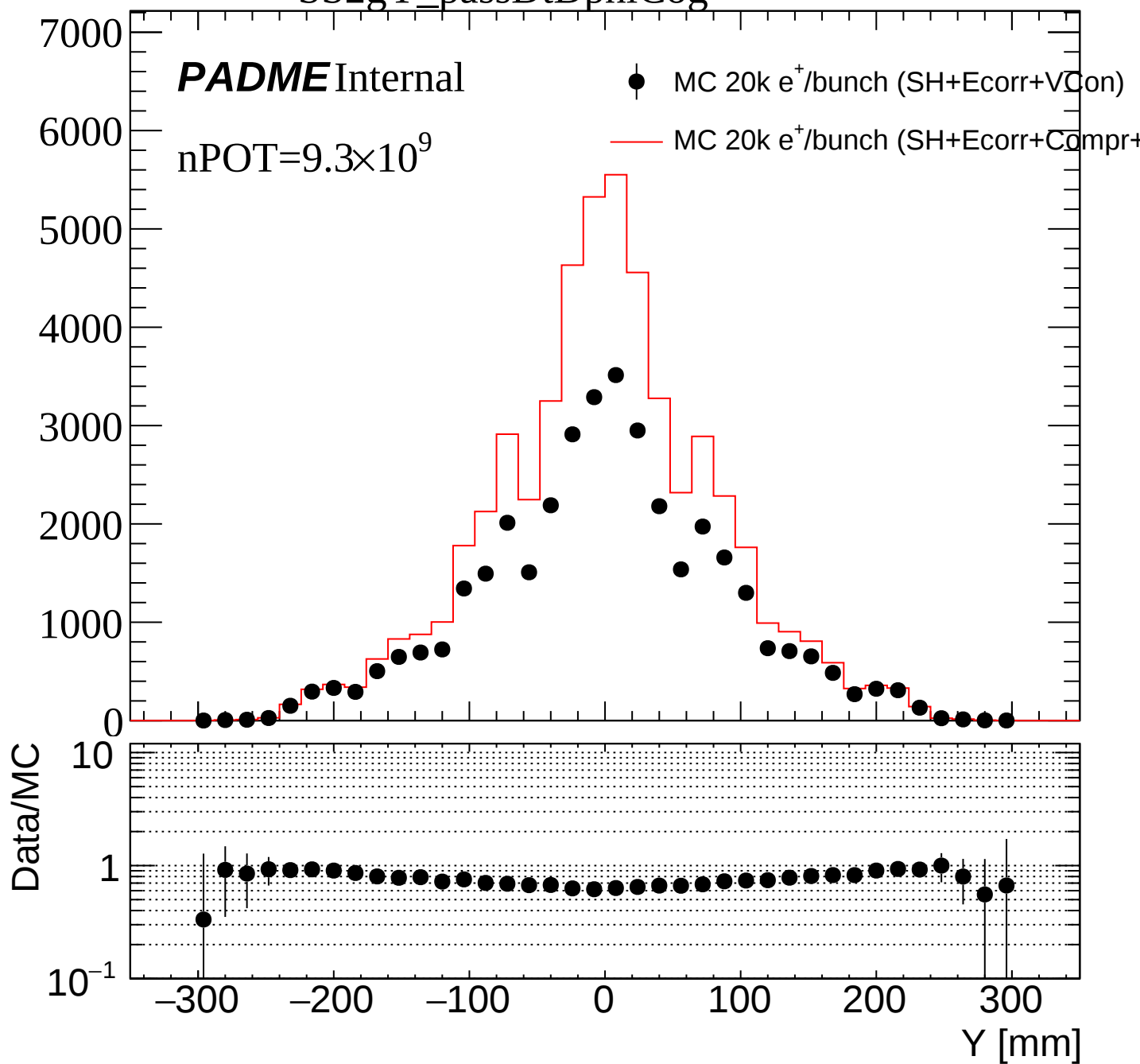
SS2gY_passDt



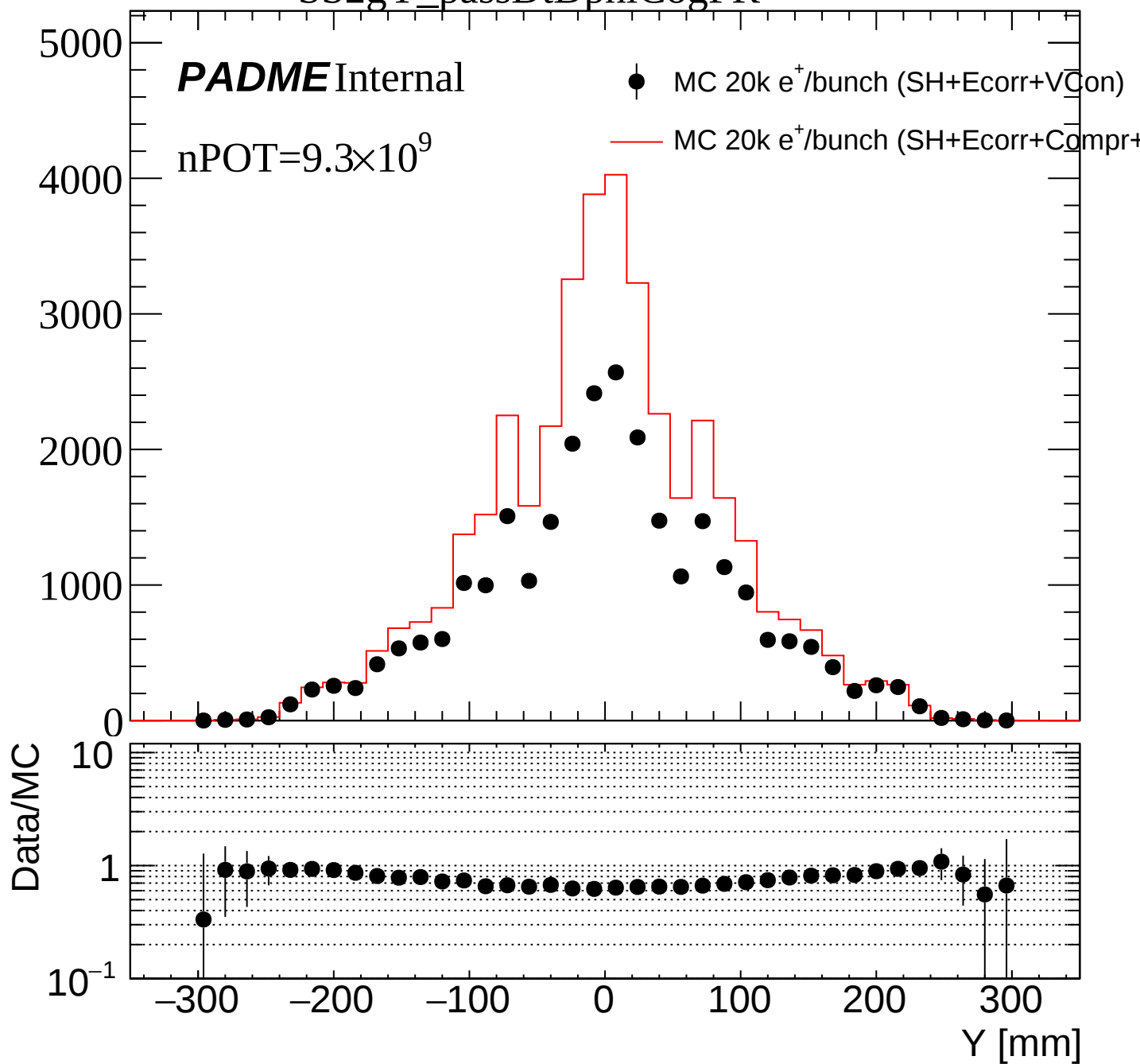
SS2gY_passDtDphi



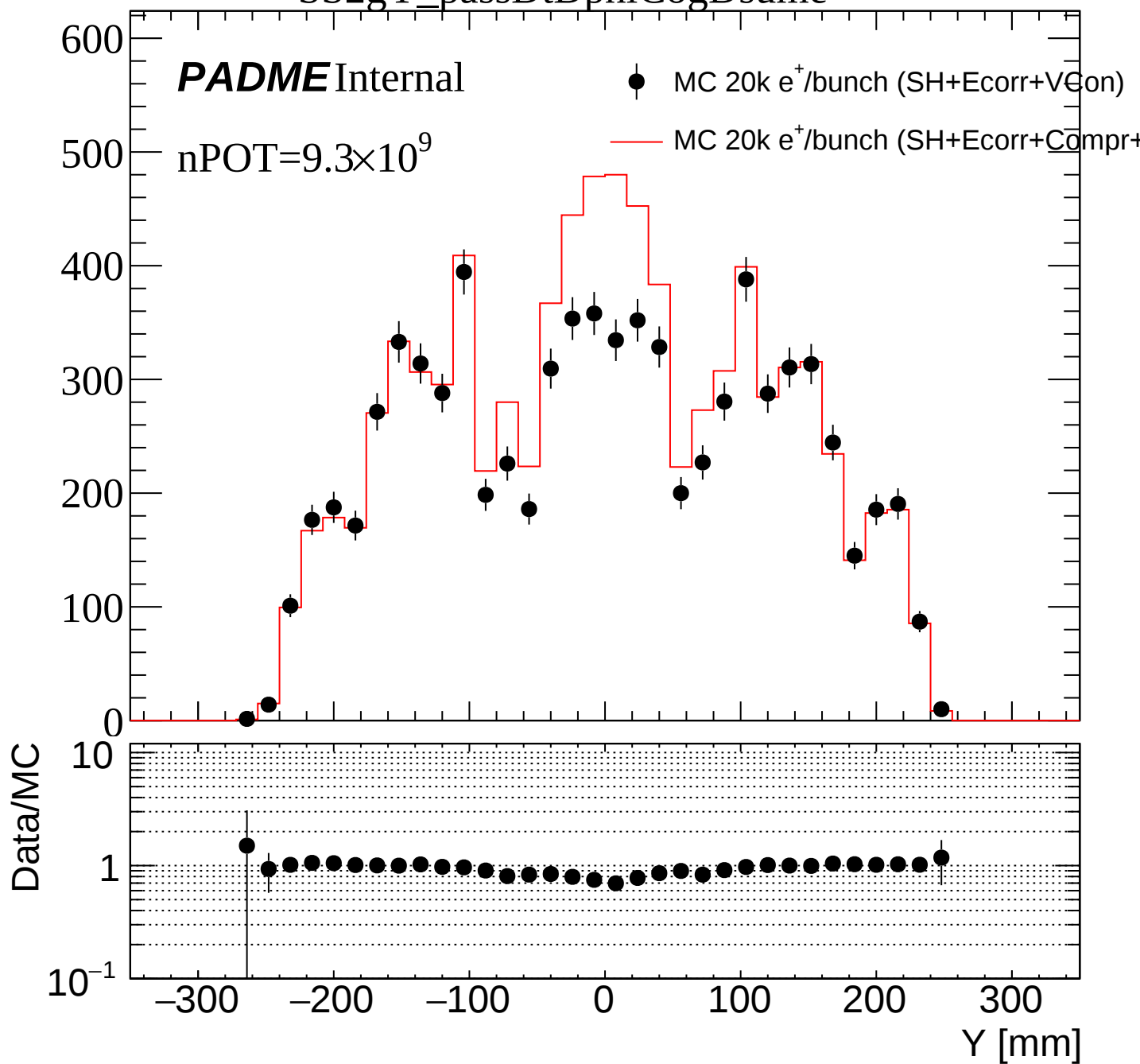
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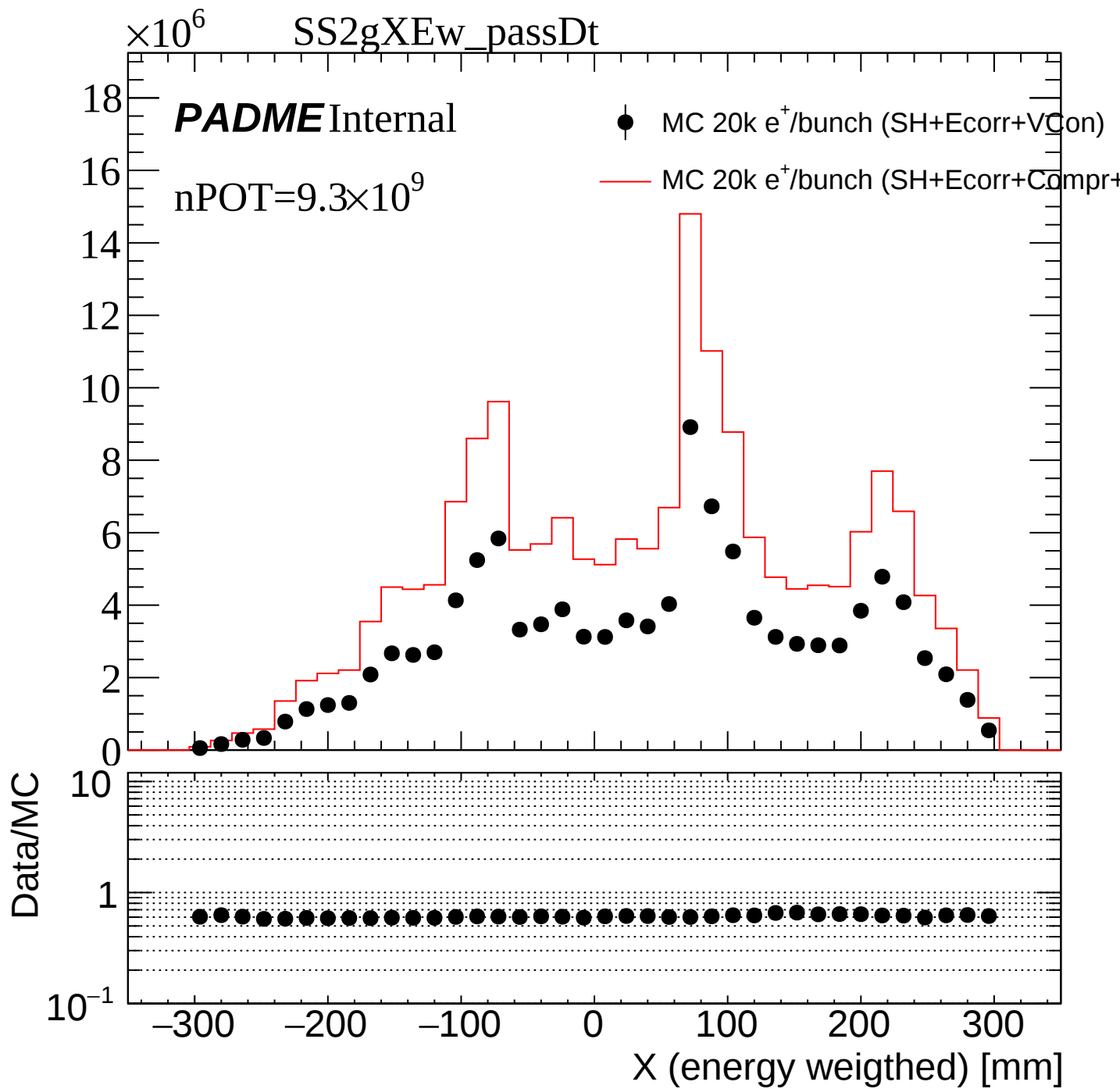


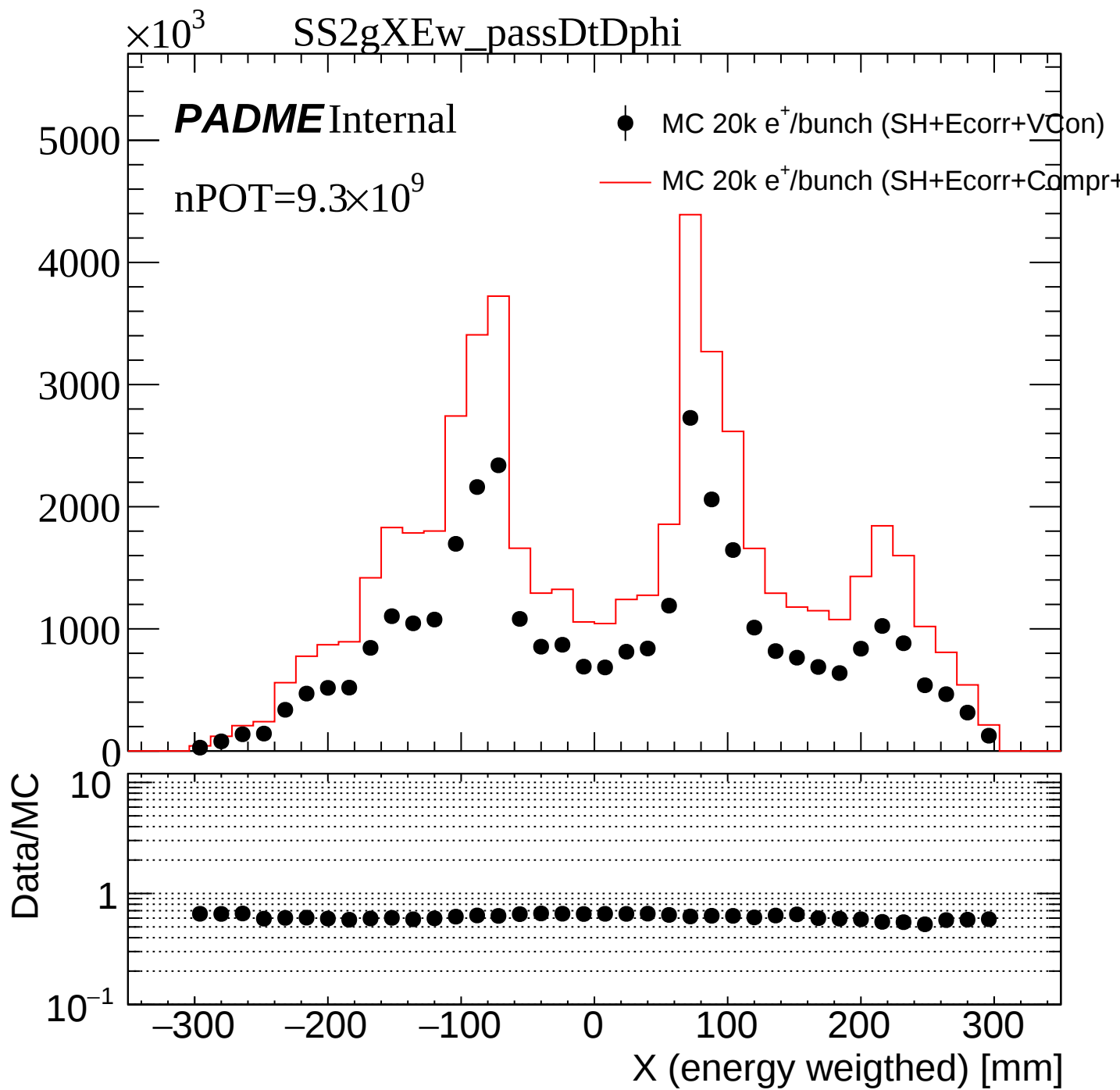
SS2gY_passDtDphiCogFR

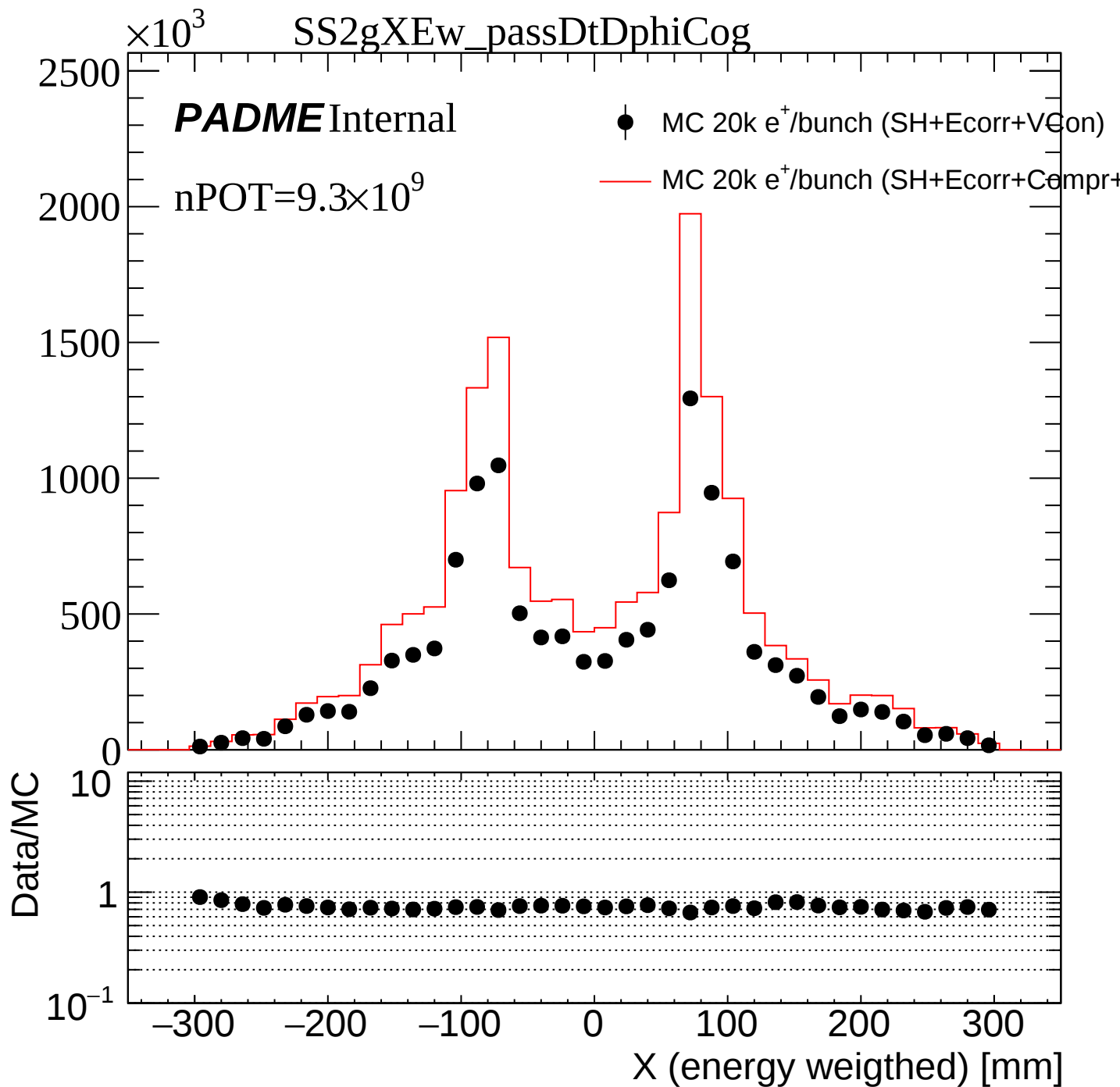


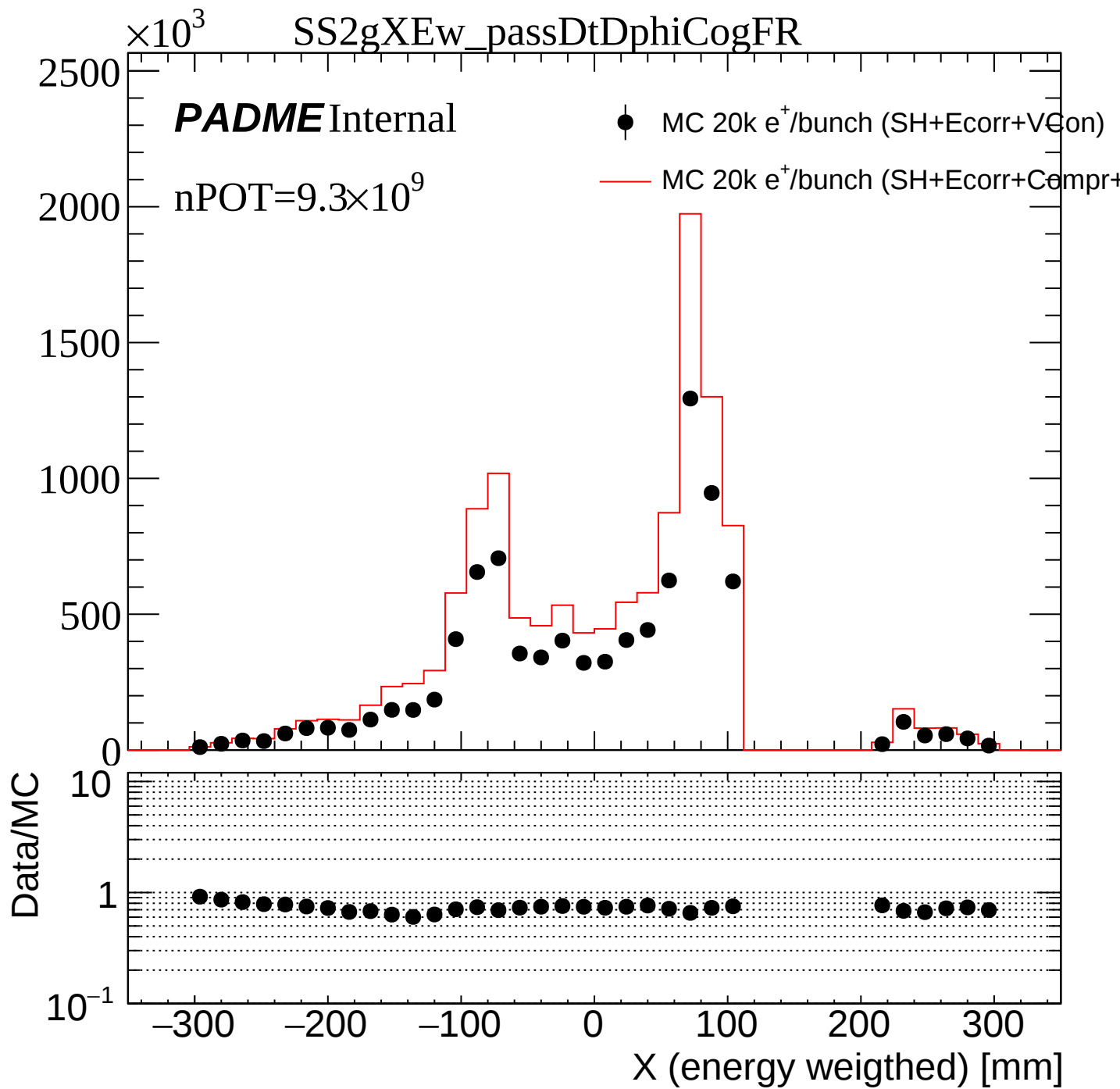
SS2gY_passDtDphiCogDsume











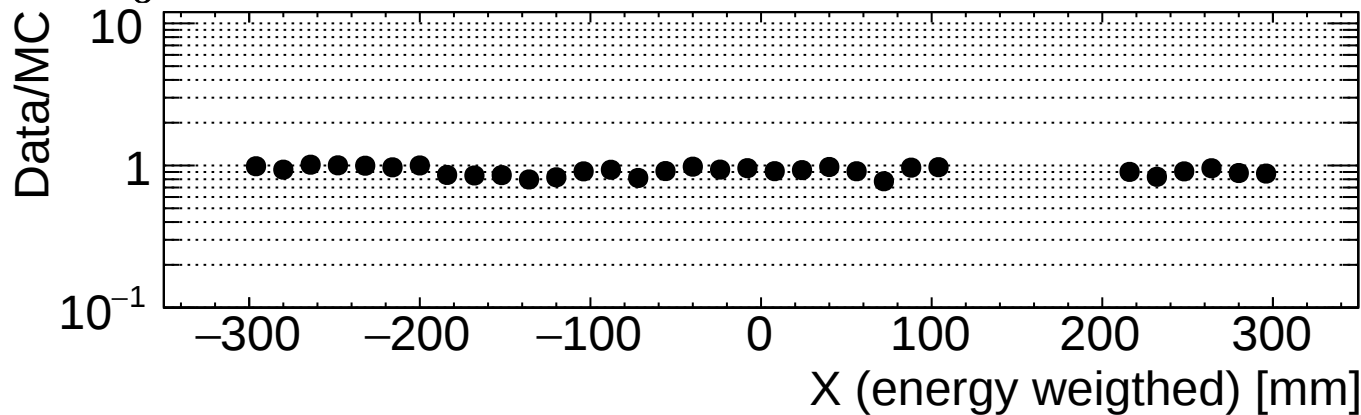
$\times 10^3$ SS2gXEw_passDtDphiCogDsume

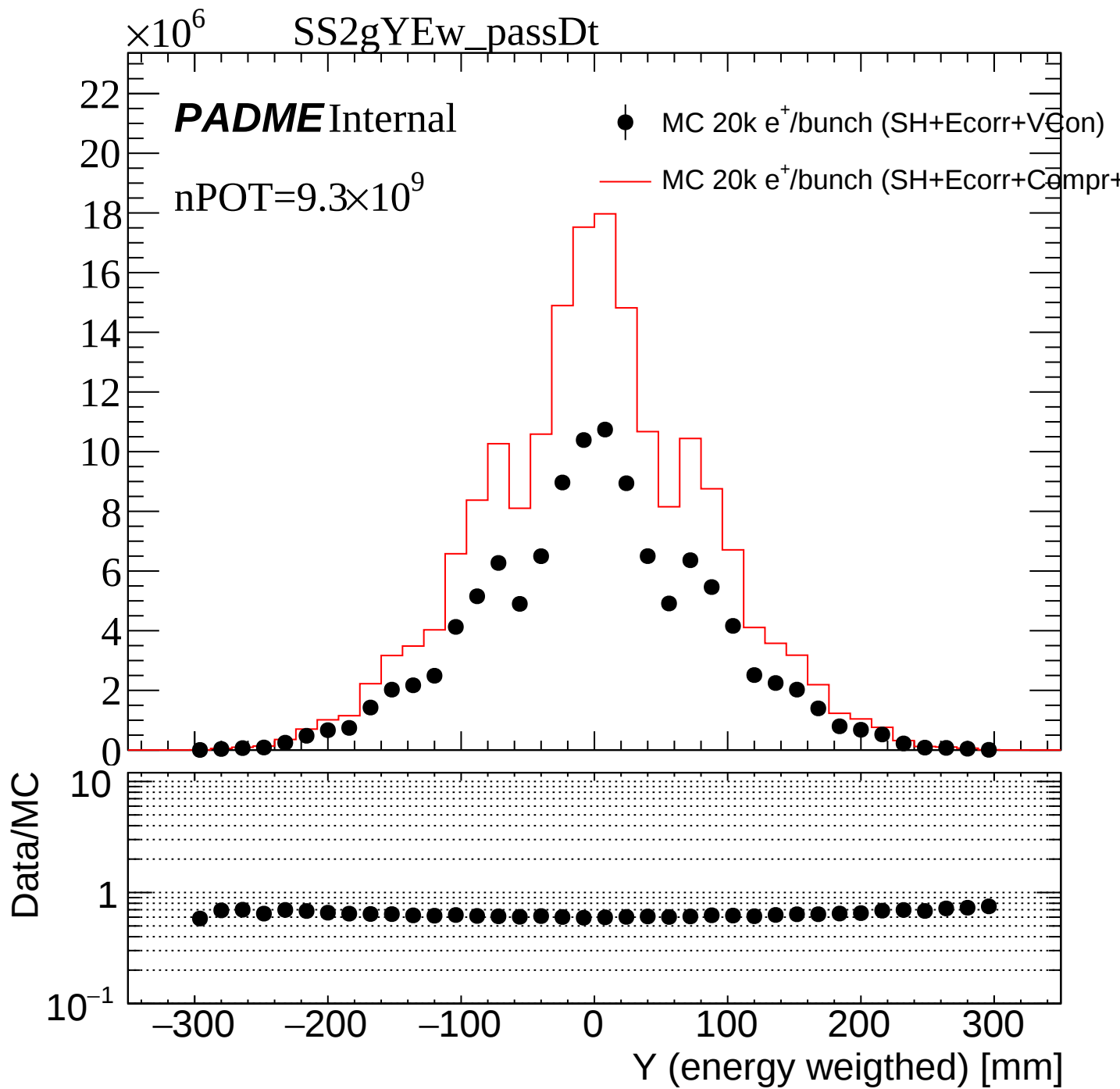
PADME Internal

nPOT= 9.3×10^9

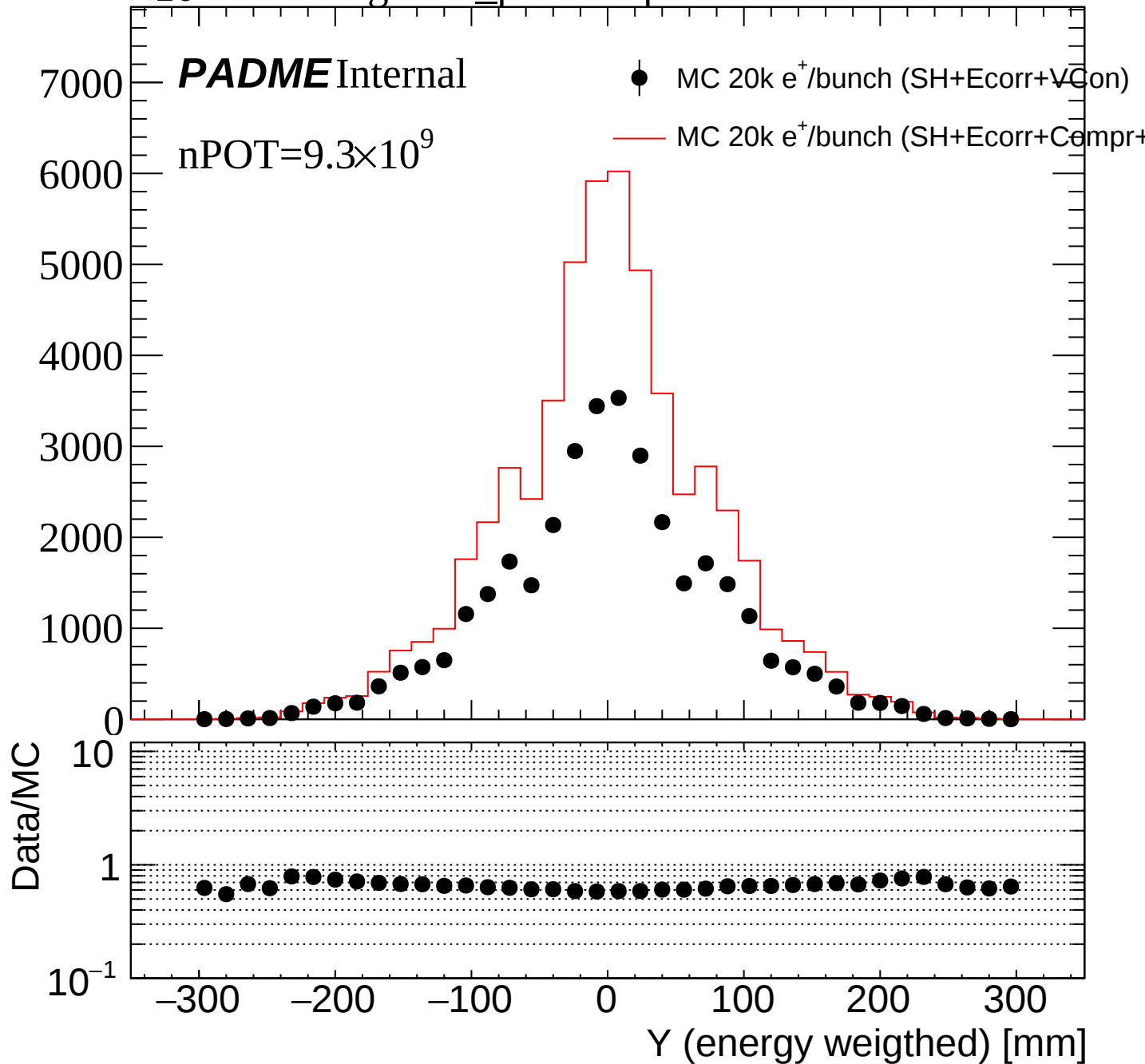
● MC 20k e⁺/bunch (SH+Ecorr+VCon)

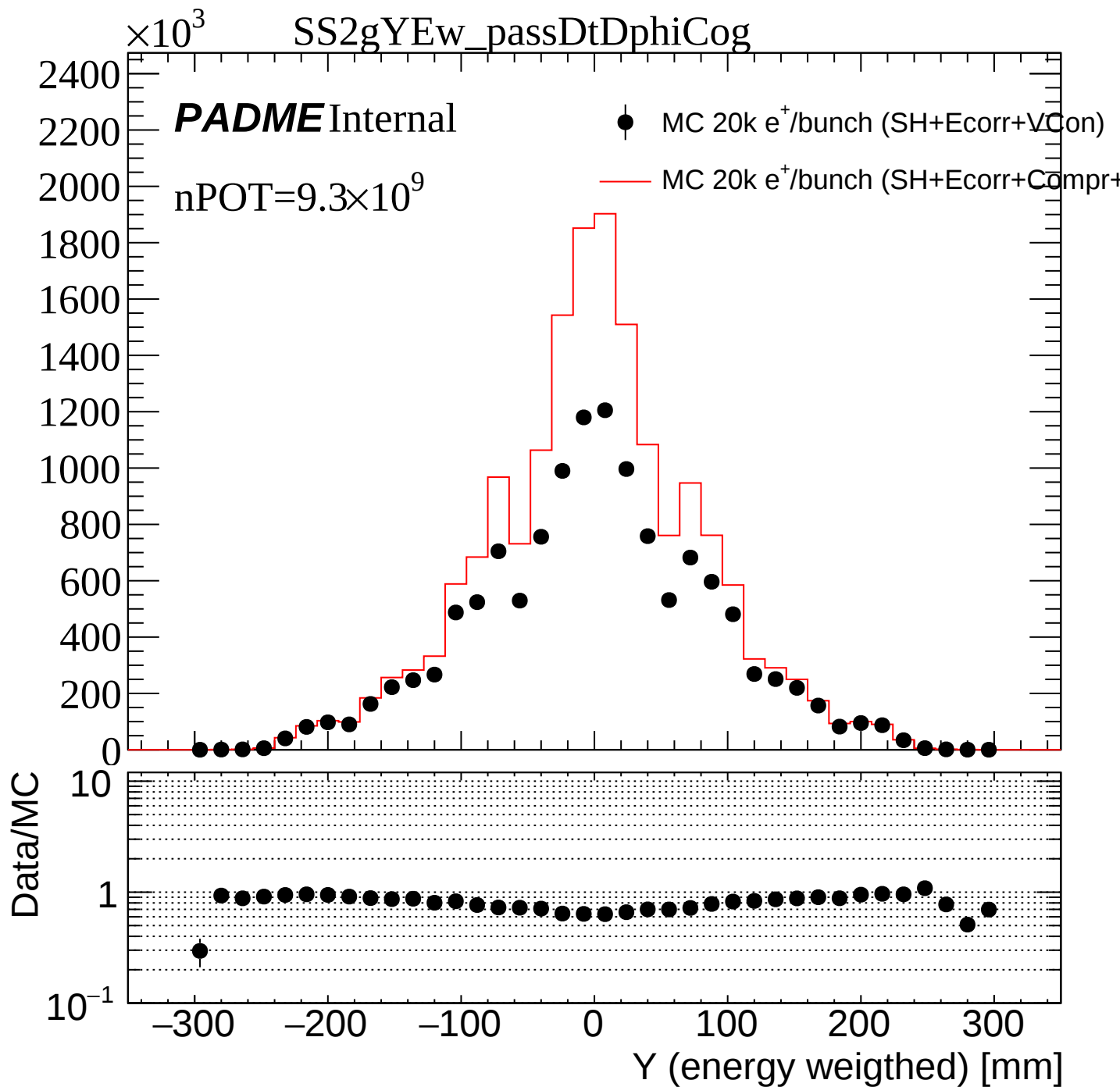
— MC 20k e⁺/bunch (SH+Ecorr+Compr+)

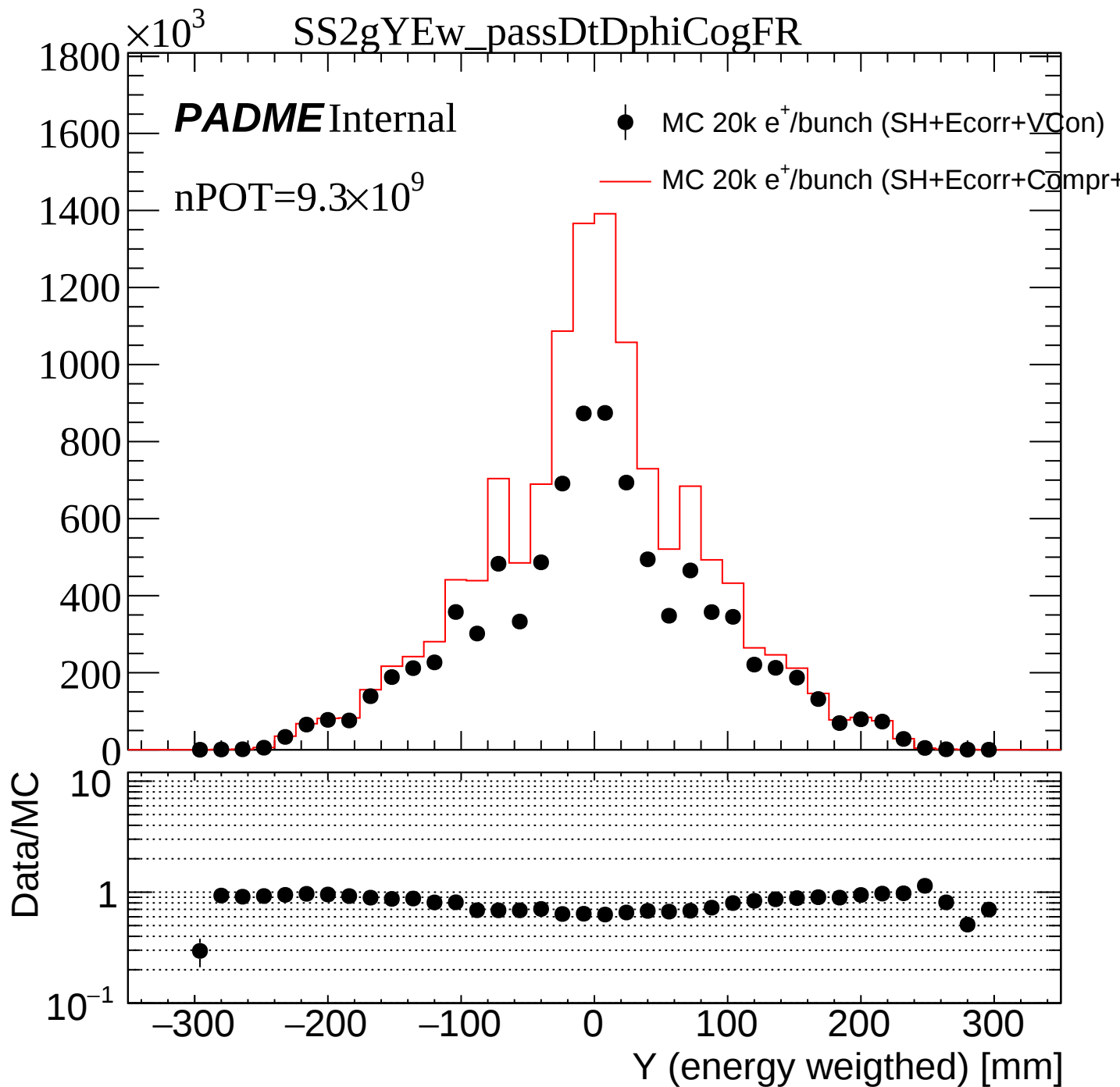




$\times 10^3$ SS2gYEW_passDtDphi







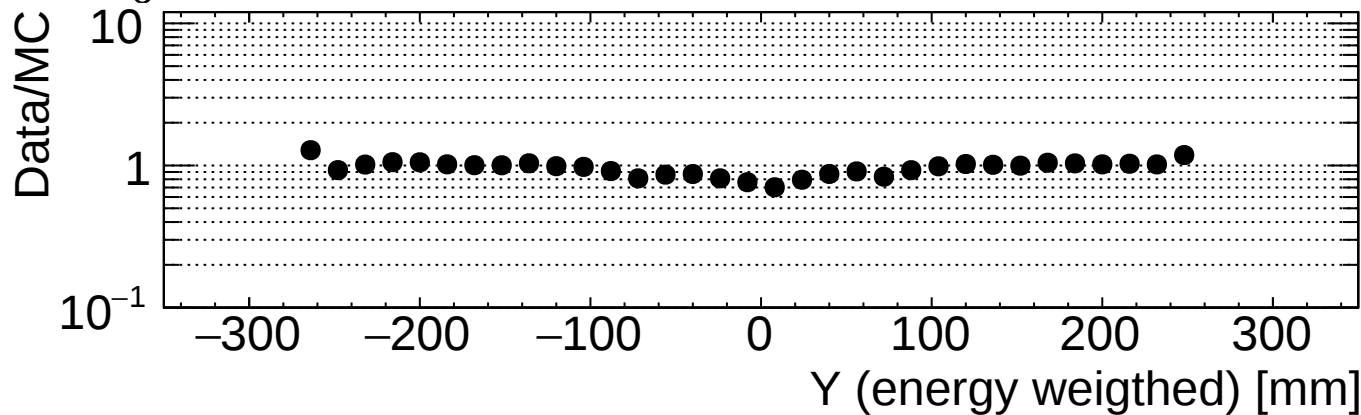
$\times 10^3$ SS2gYEw_passDtDphiCogDsume

PADME Internal

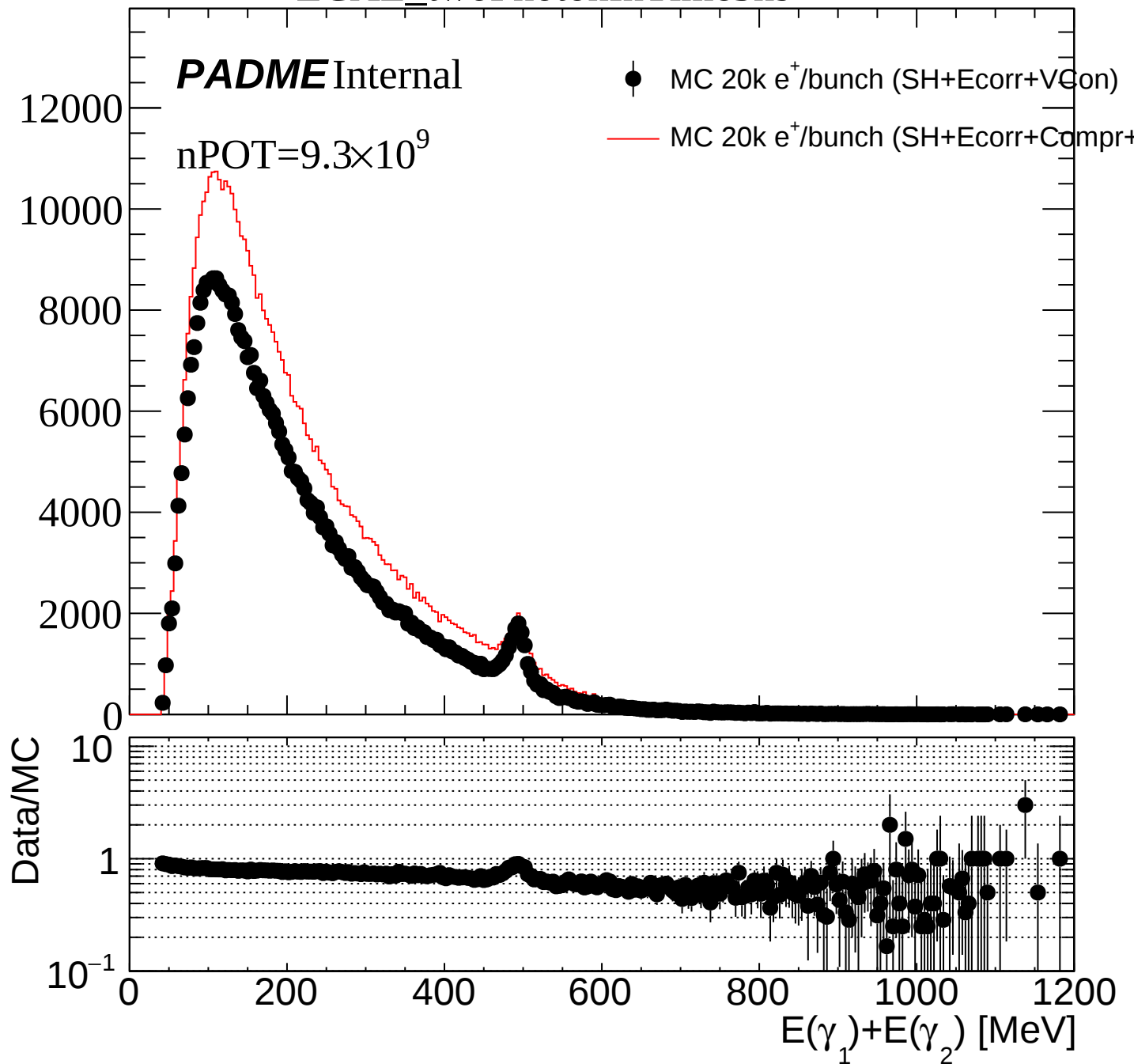
nPOT= 9.3×10^9

● MC 20k e⁺/bunch (SH+Ecorr+VCon)

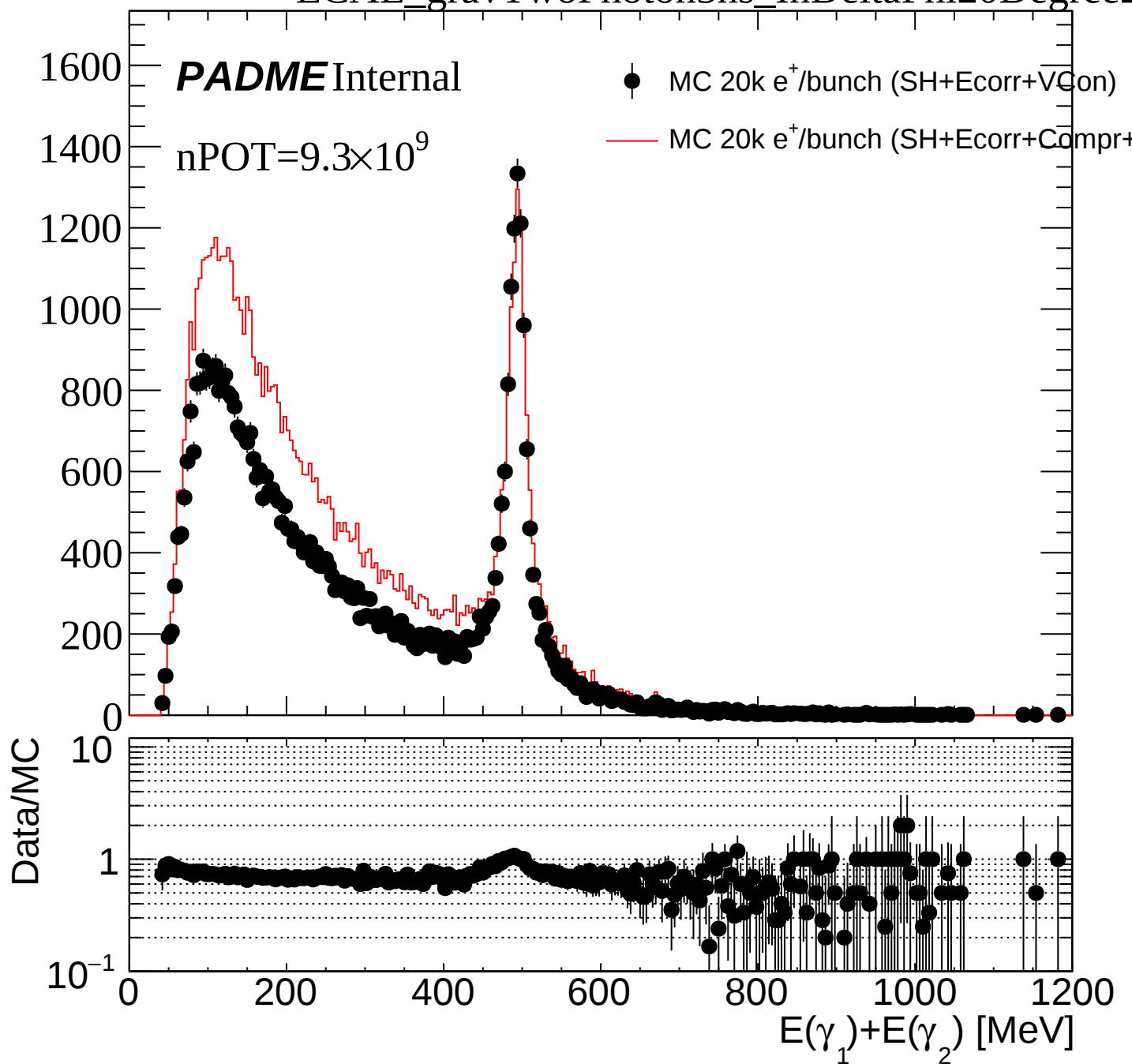
— MC 20k e⁺/bunch (SH+Ecorr+Compr+)



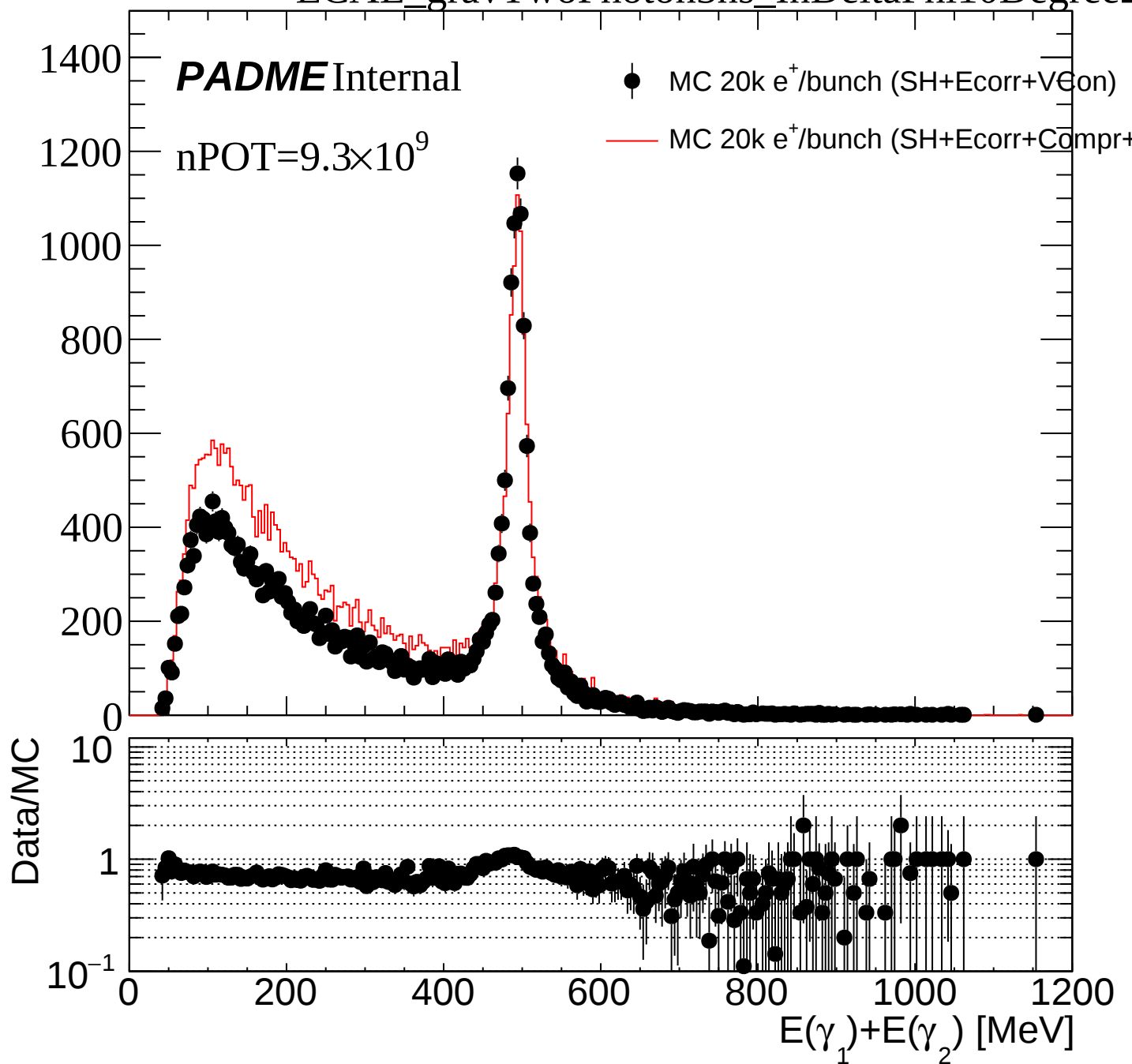
ECAL_twoPhotonInTime3ns

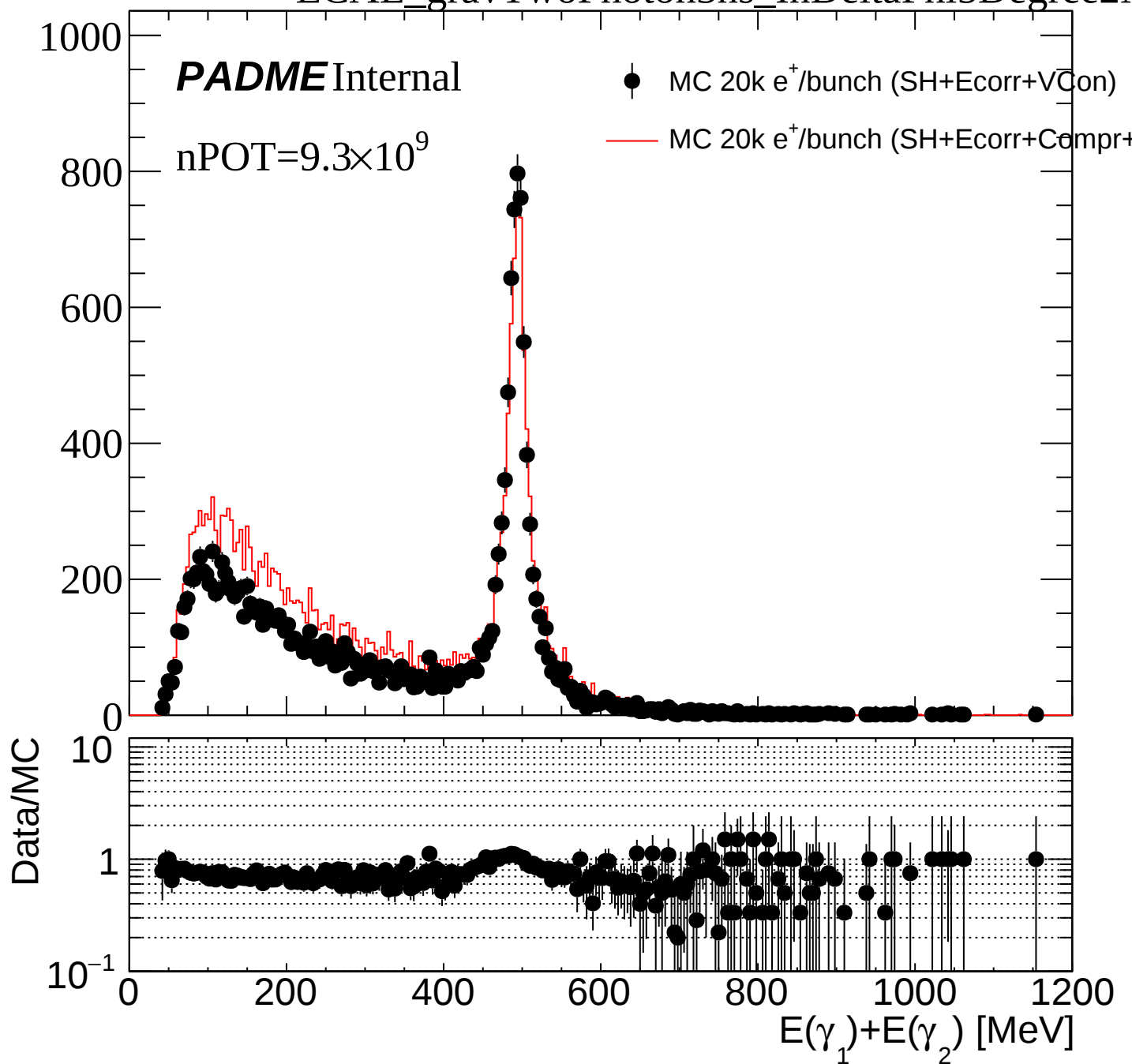


ECAL_gravTwoPhoton3ns_InDeltaPhi20Degree2

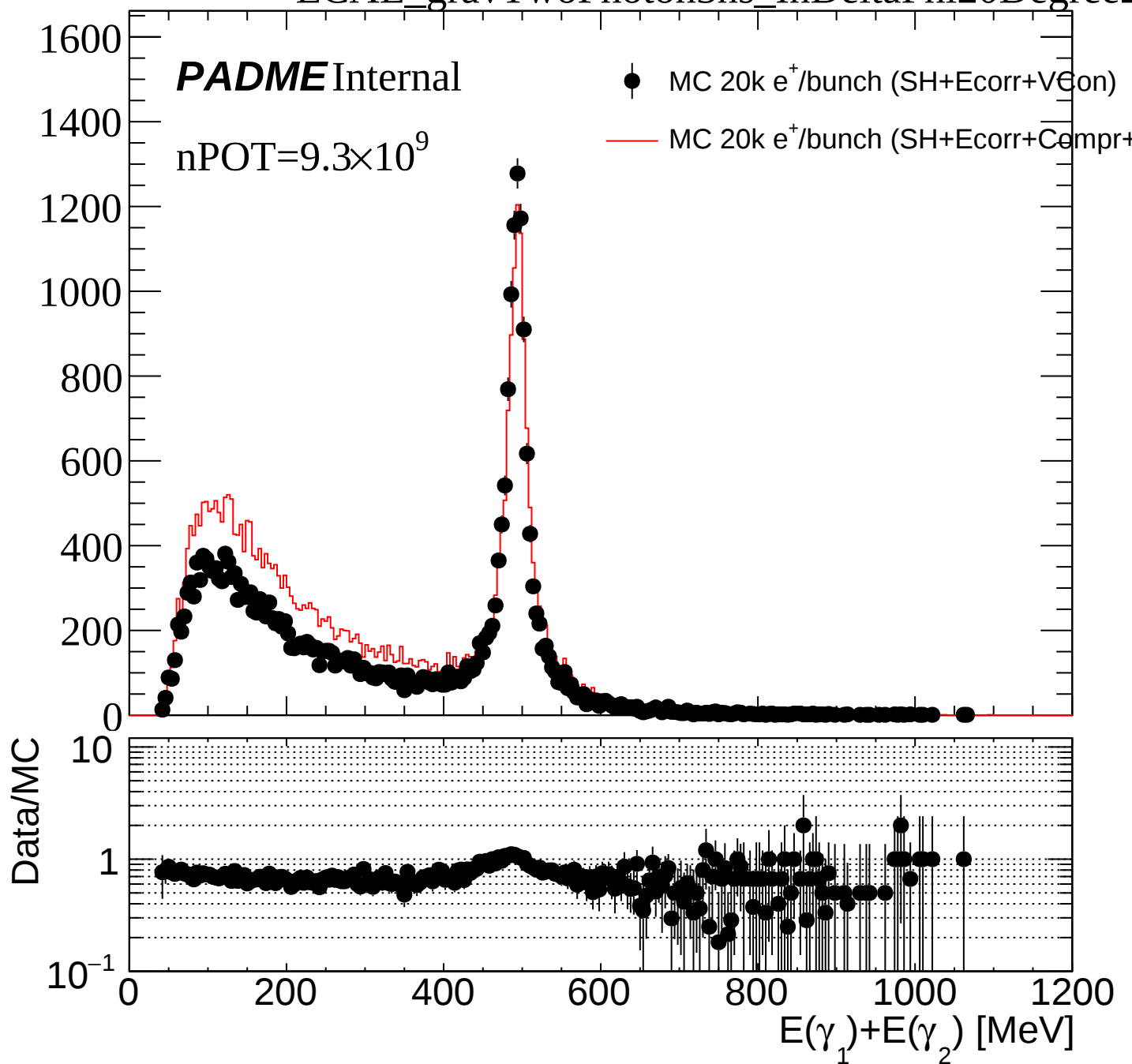


ECAL_gravTwoPhoton3ns_InDeltaPhi10Degree2

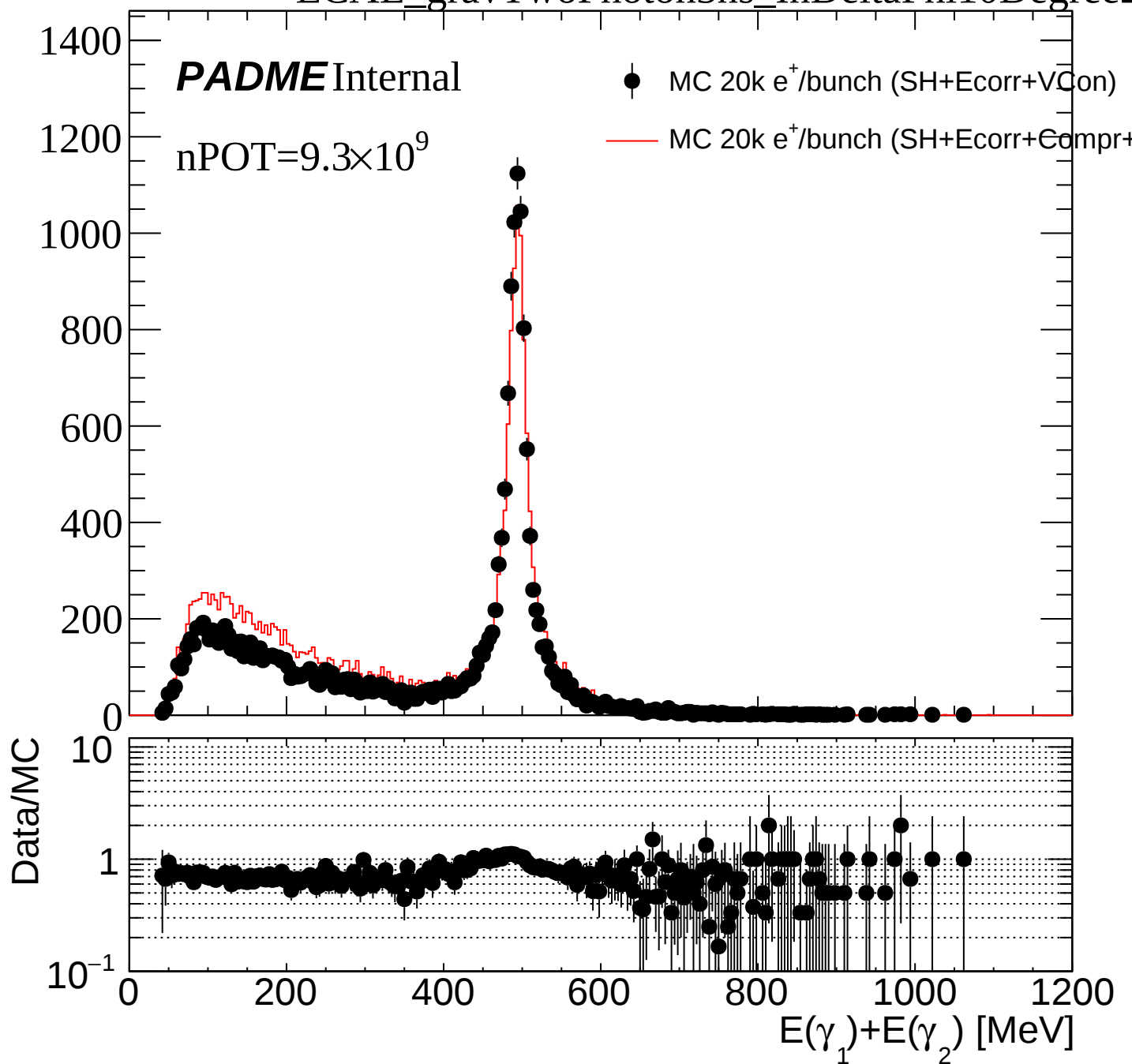


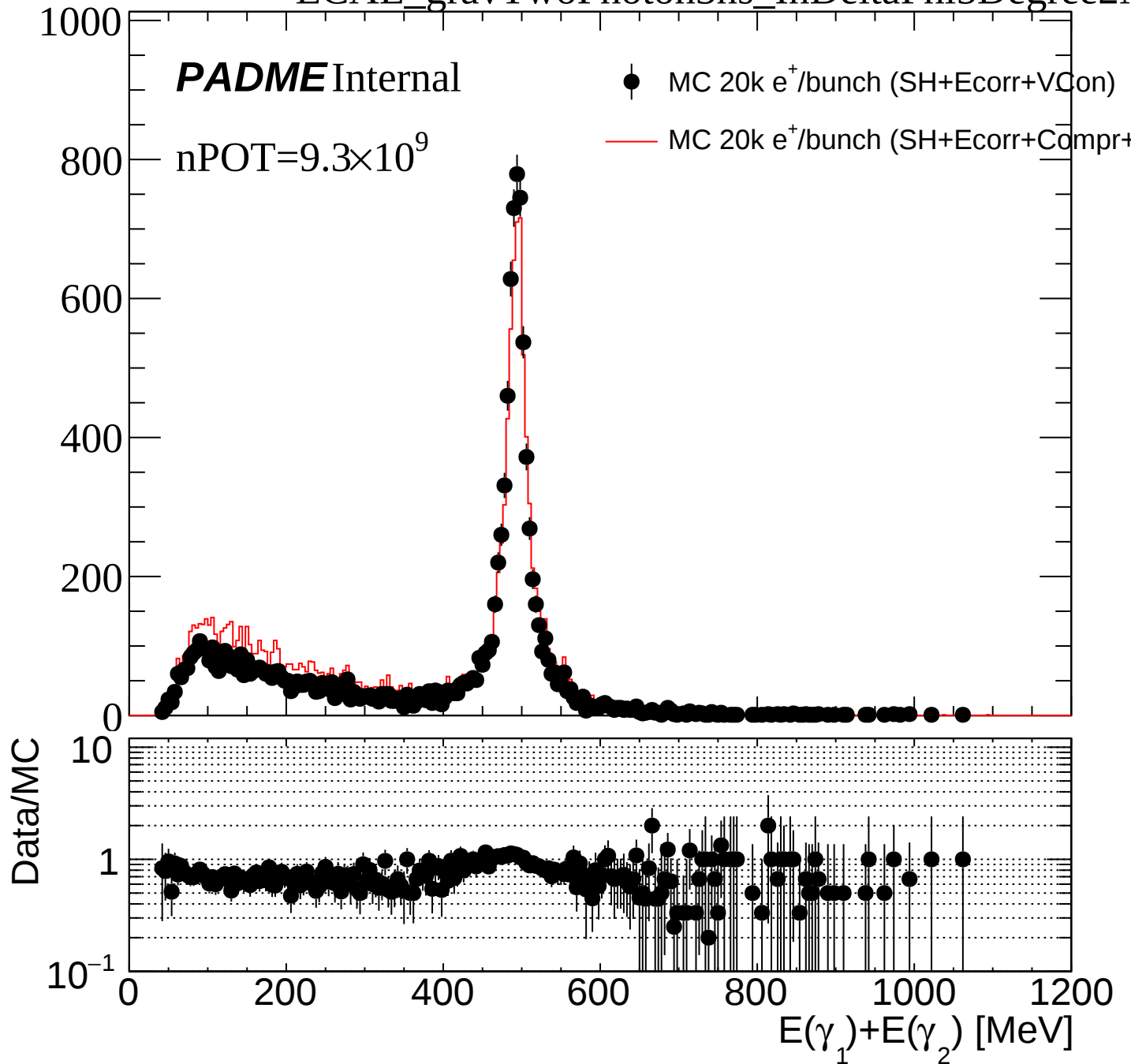


ECAL_gravTwoPhoton3ns_InDeltaPhi20Degree2

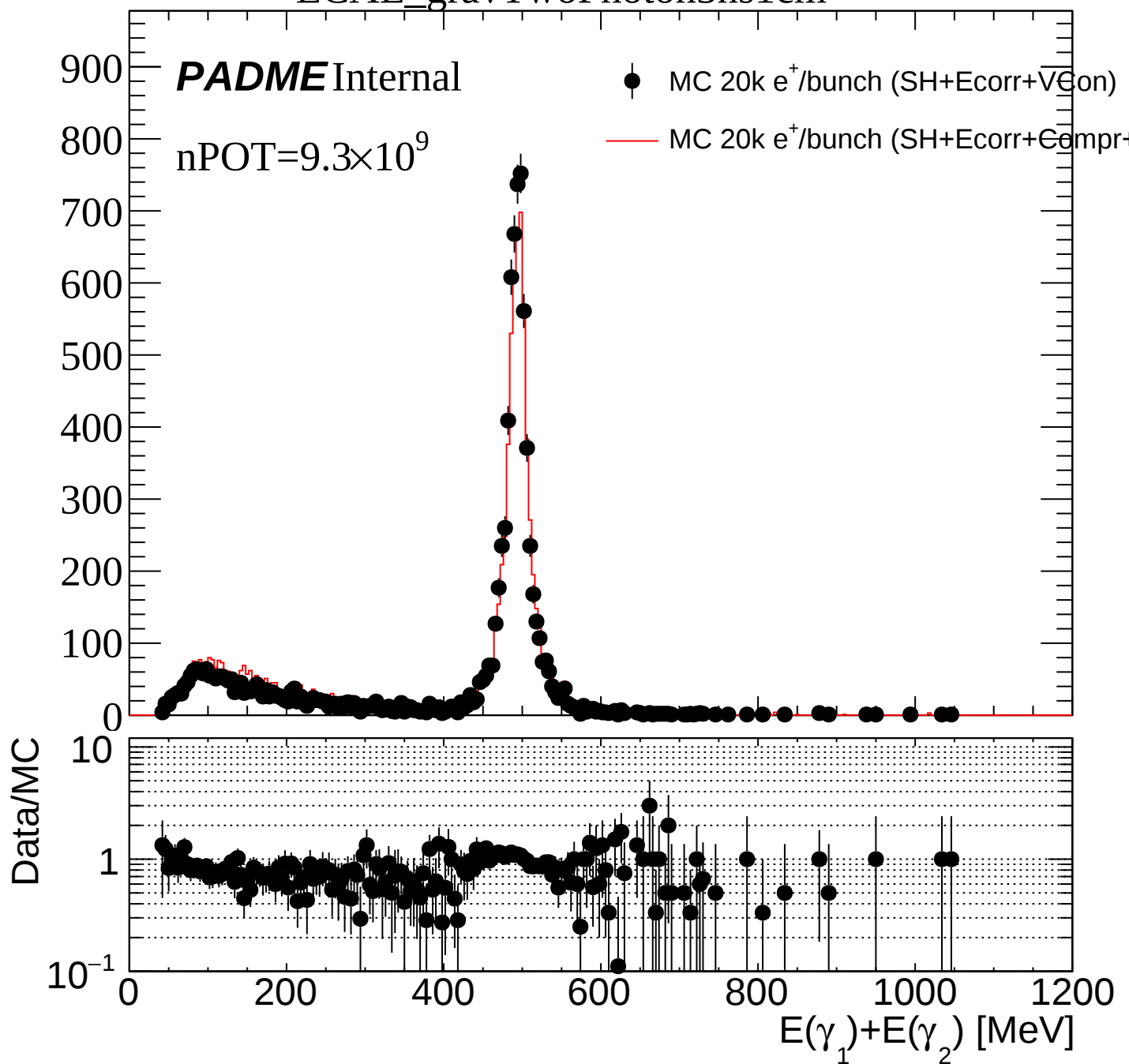


ECAL_gravTwoPhoton3ns_InDeltaPhi10Degree2

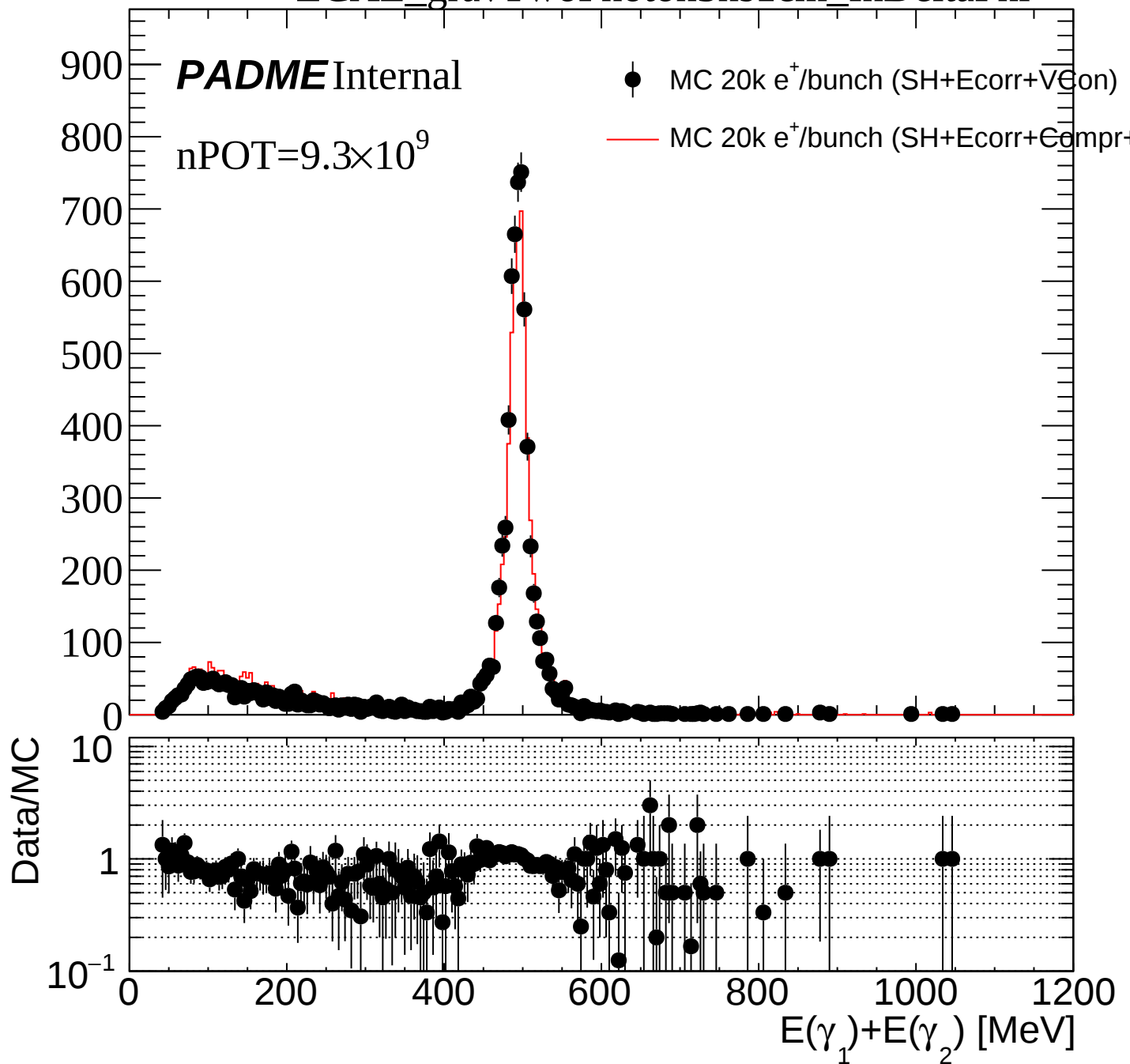




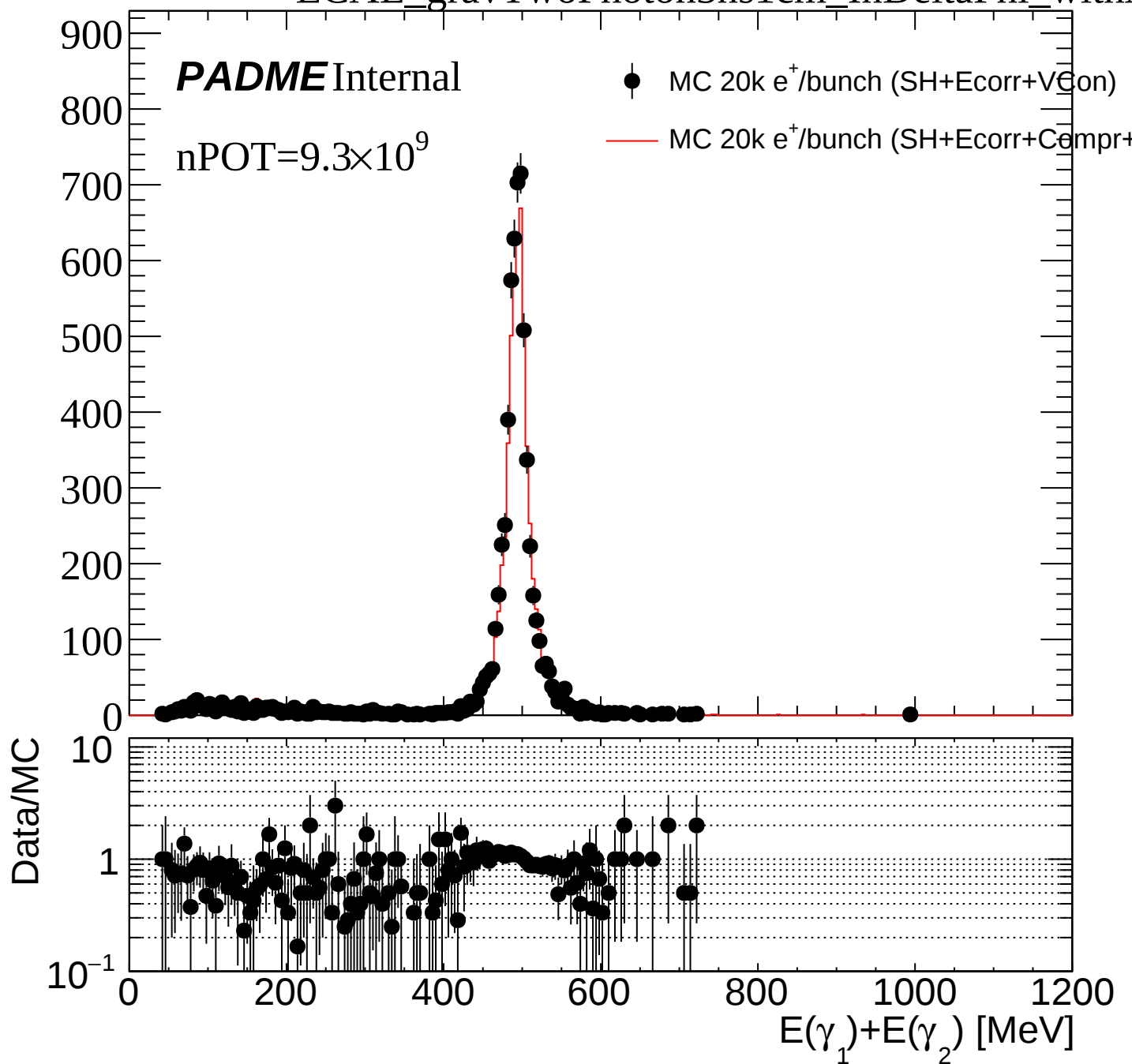
ECAL_gravTwoPhoton3ns1cm



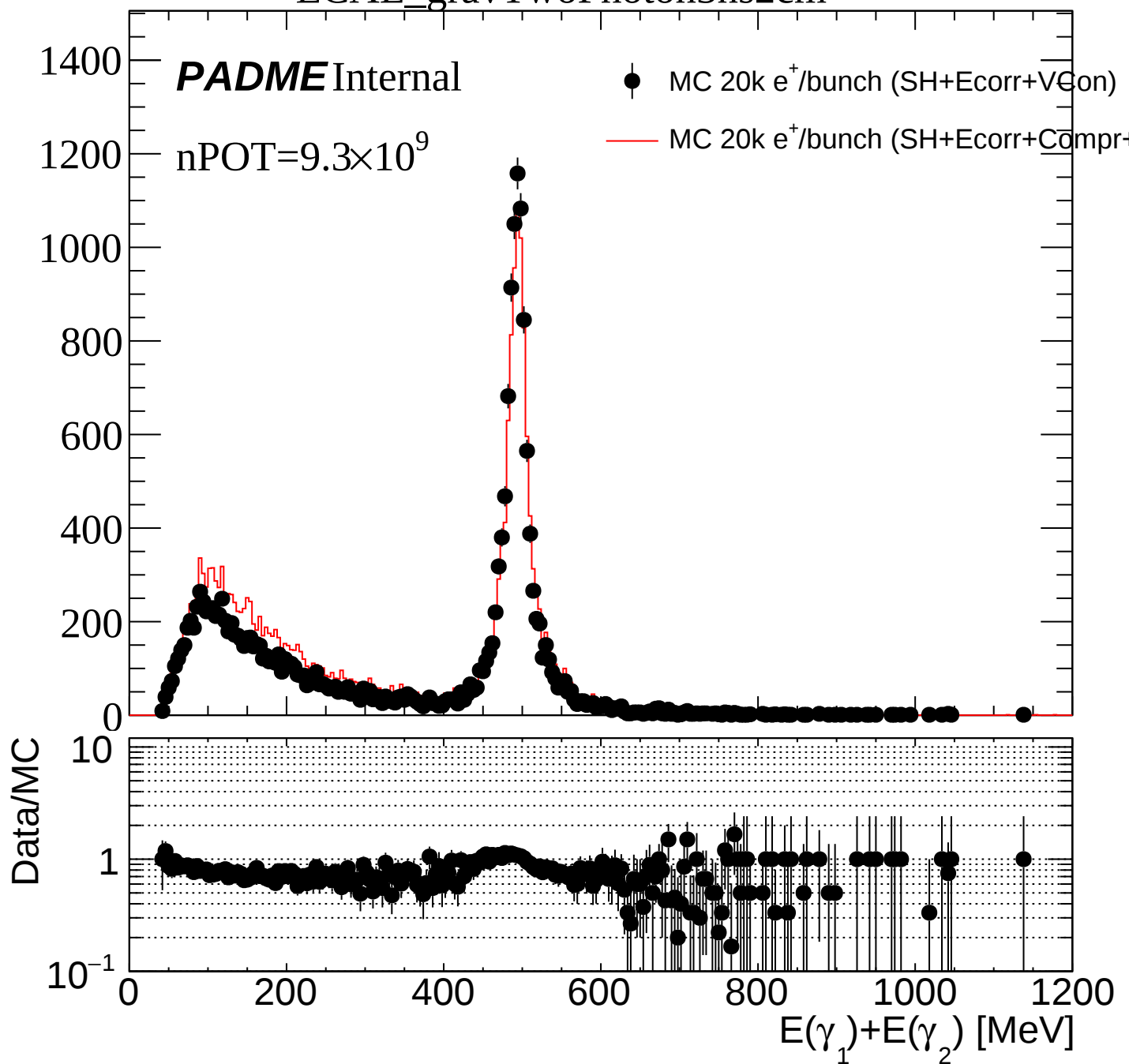
ECAL_gravTwoPhoton3ns1cm_InDeltaPhi



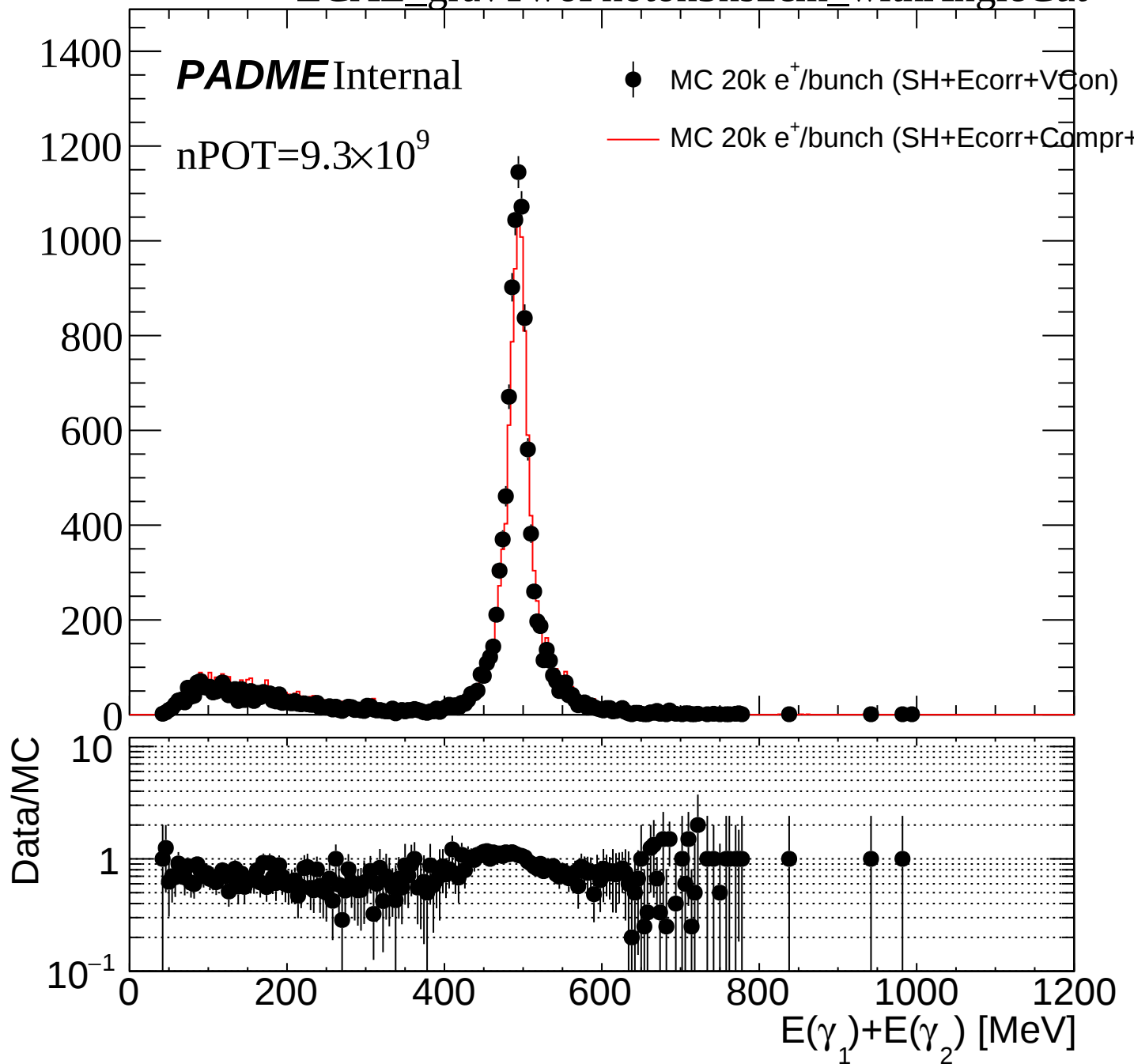
ECAL_gravTwoPhoton3ns1cm_InDeltaPhi_with



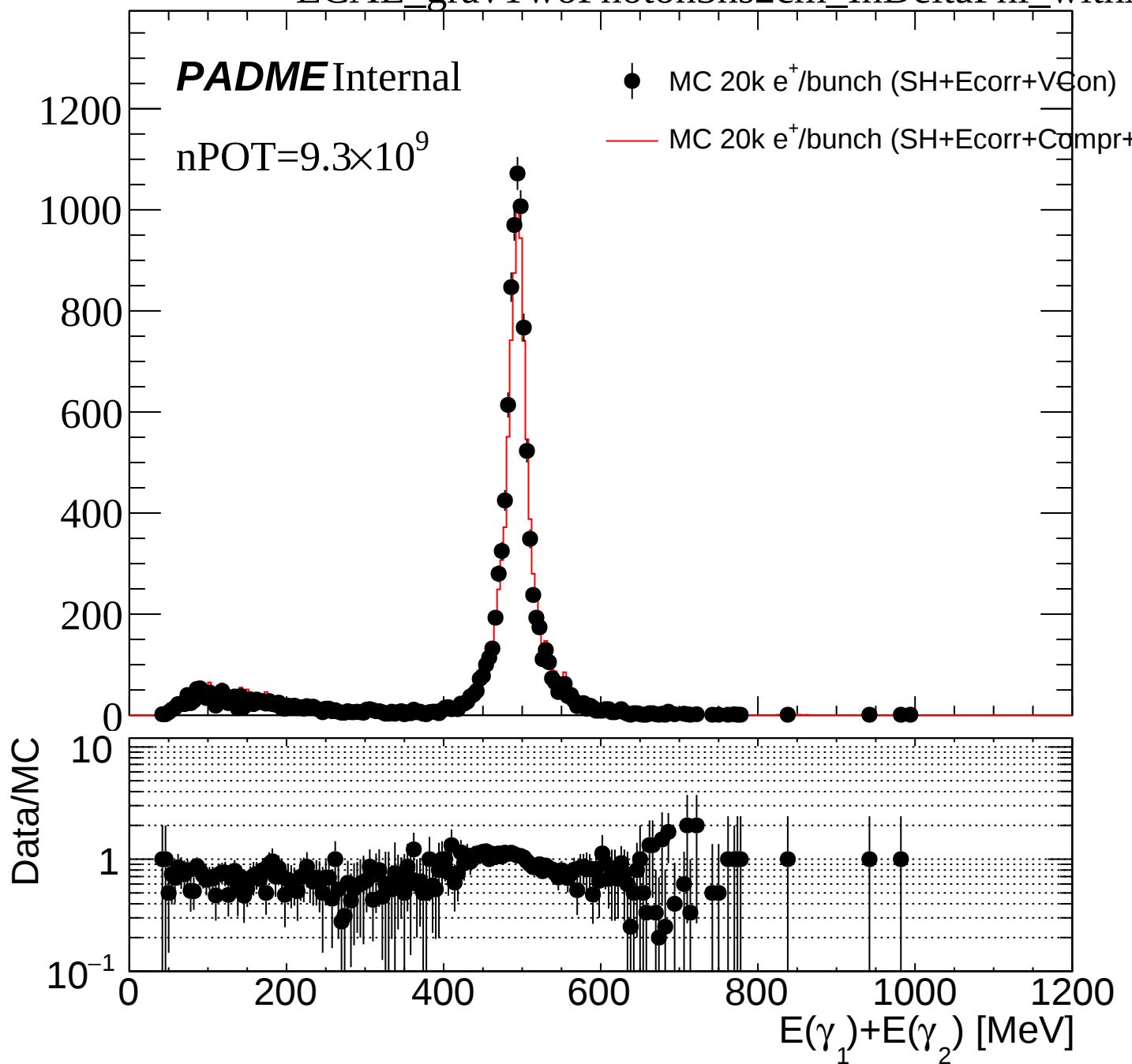
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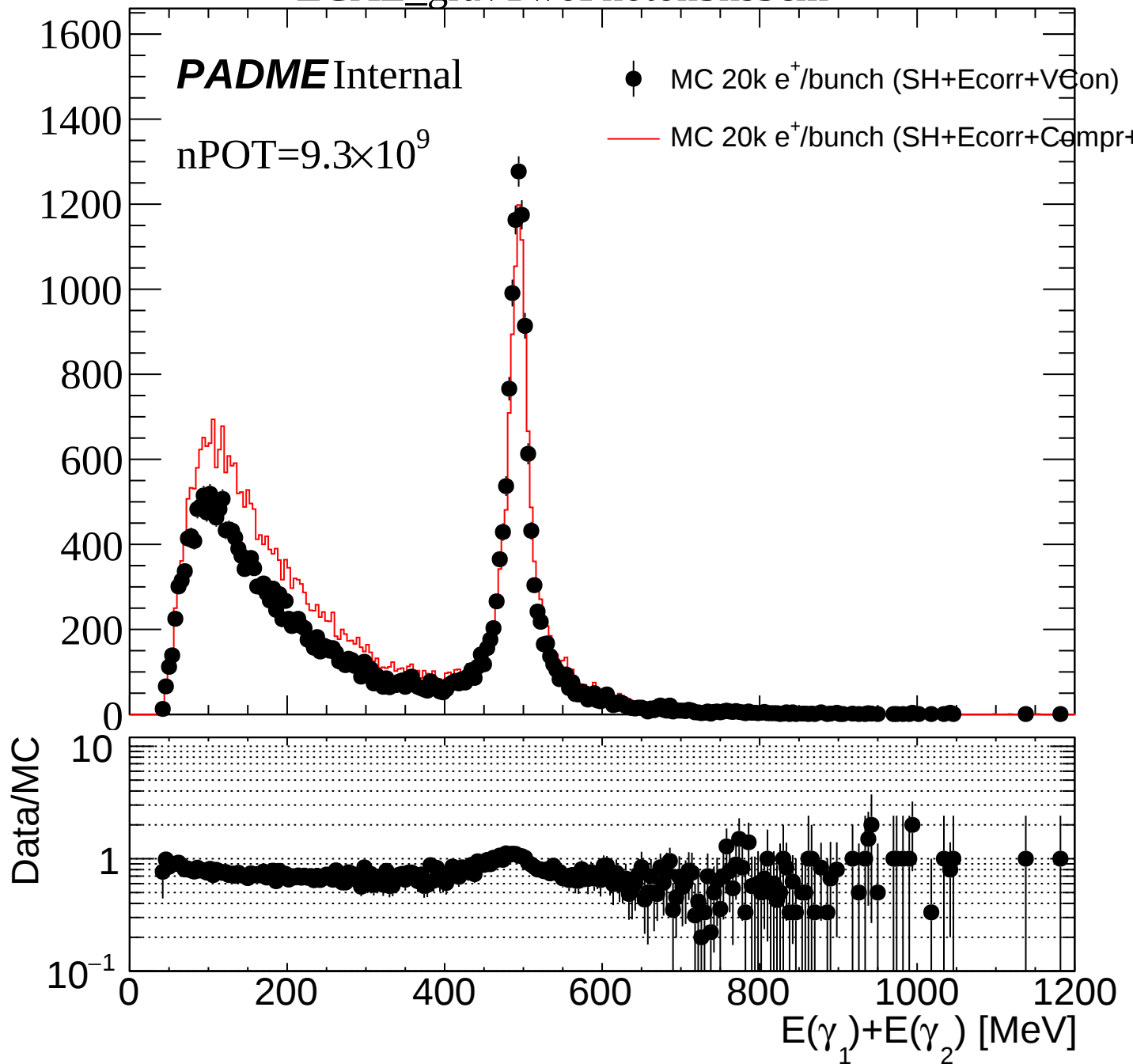
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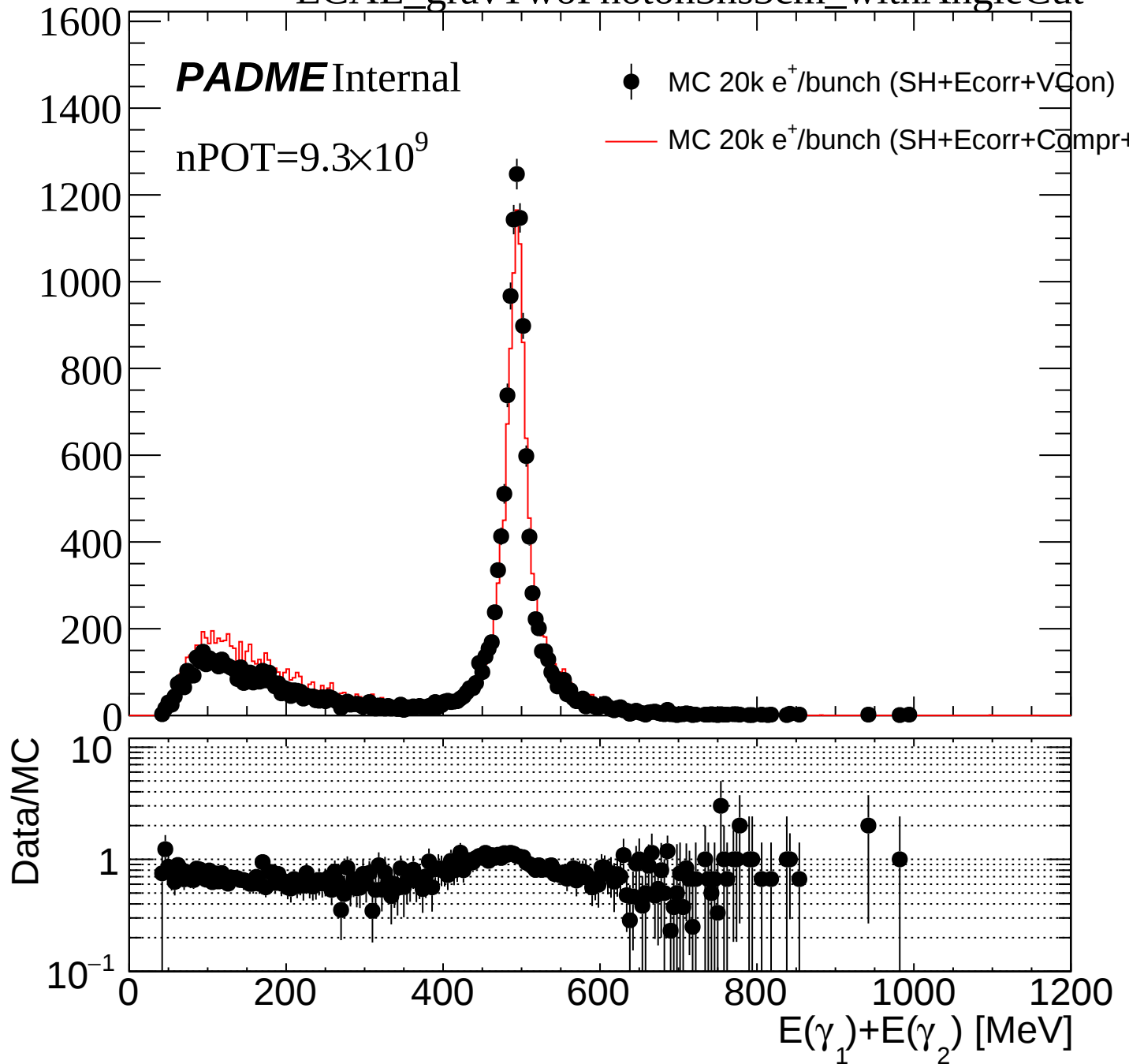
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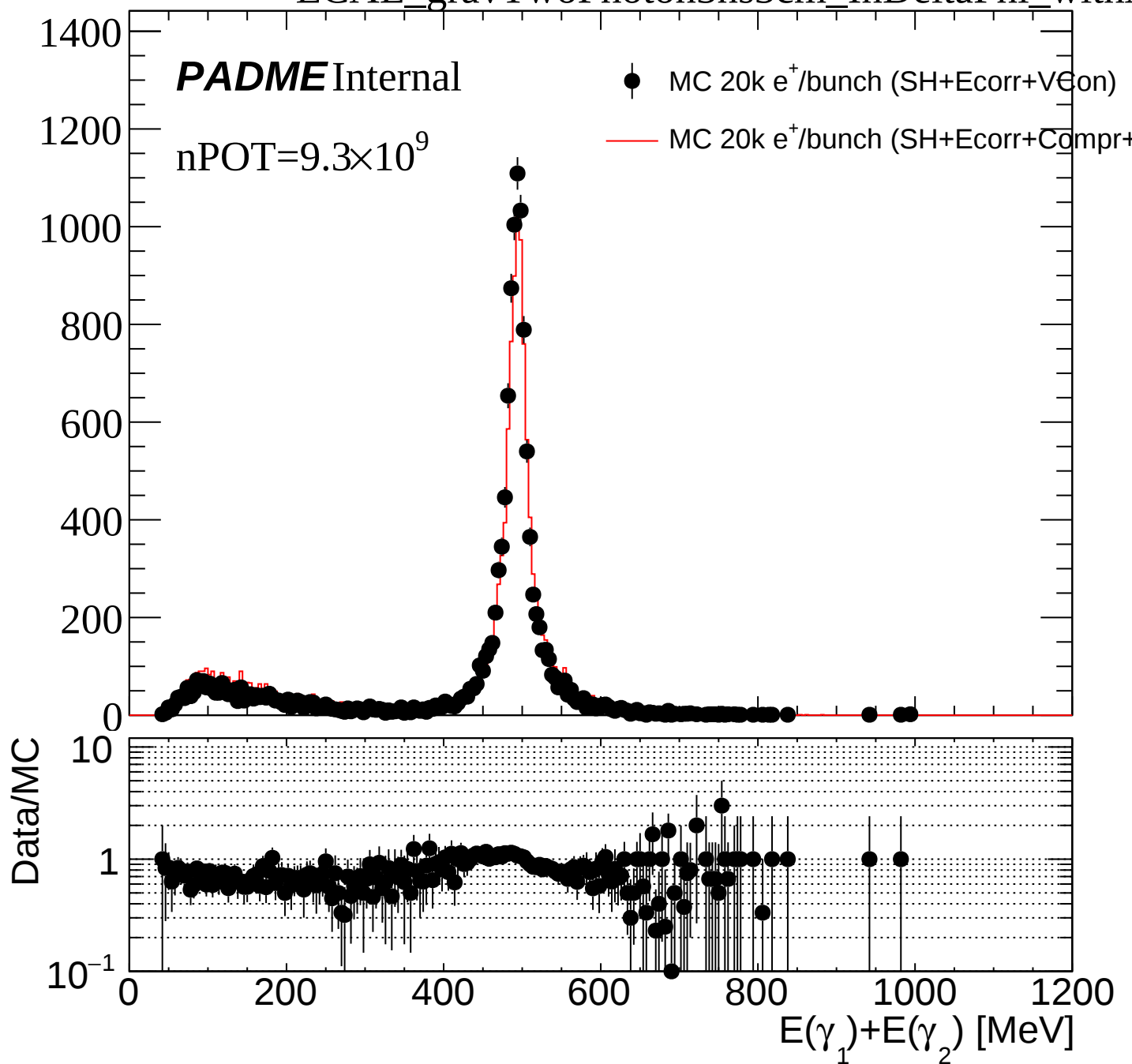
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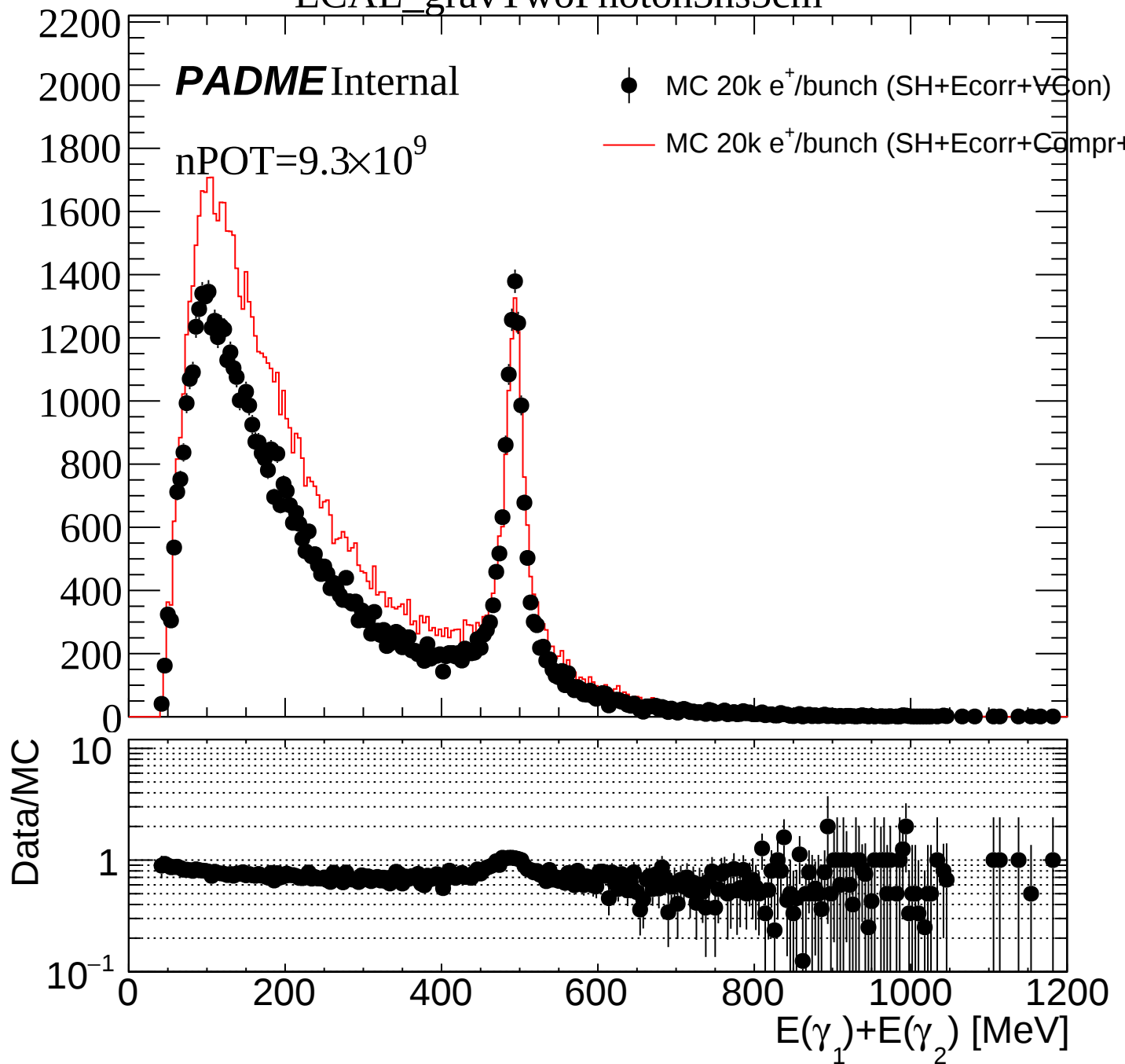
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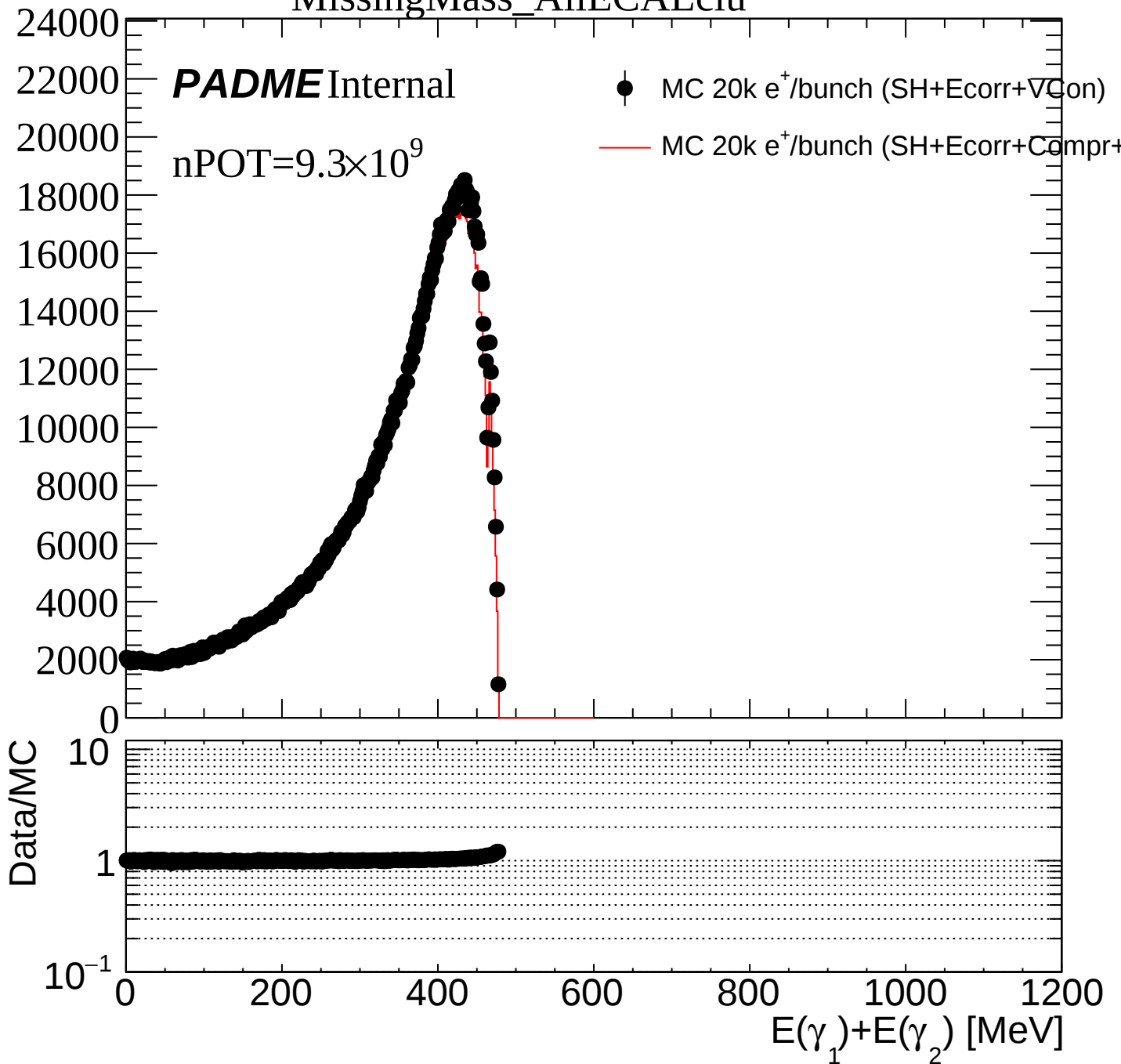
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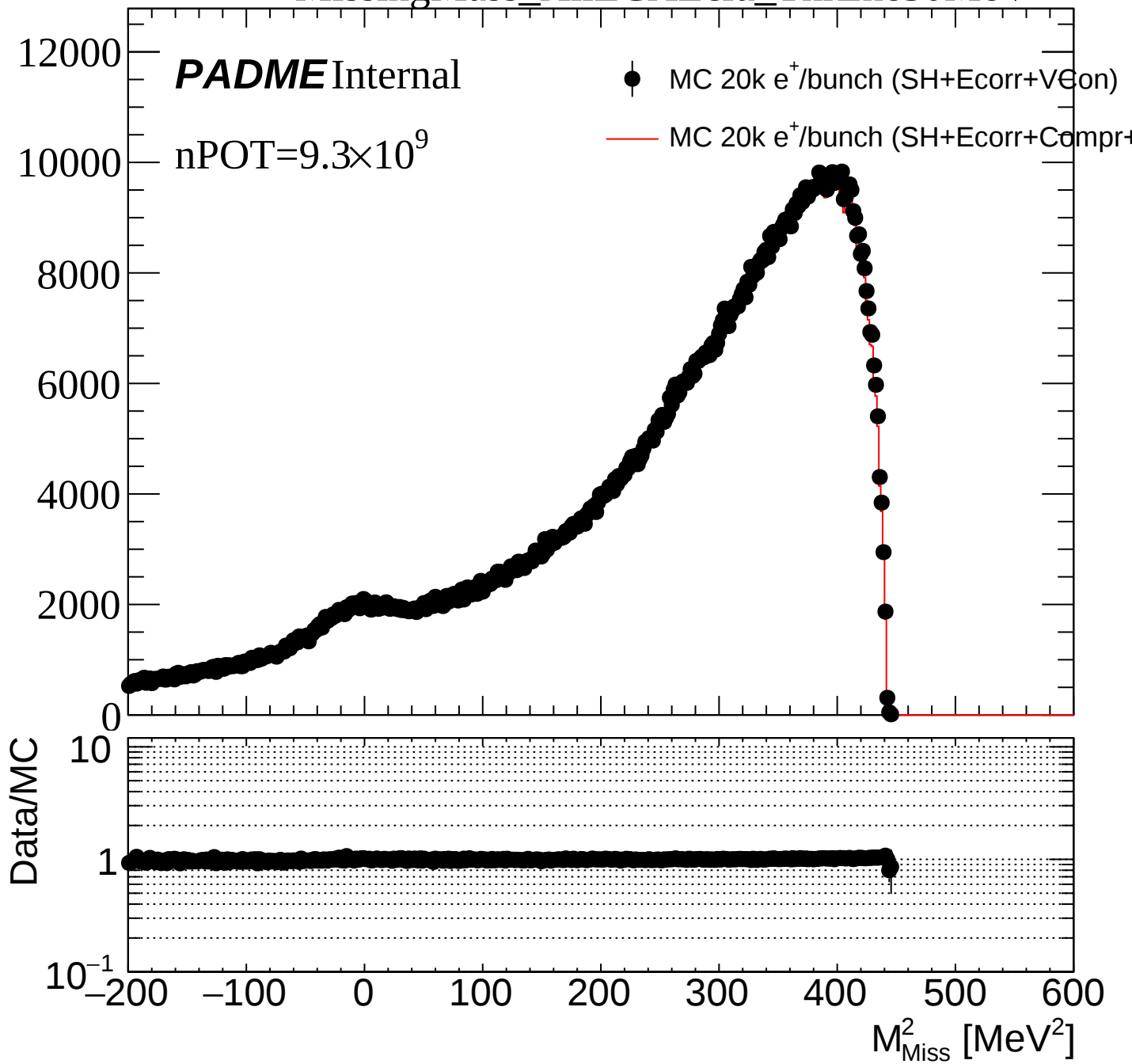
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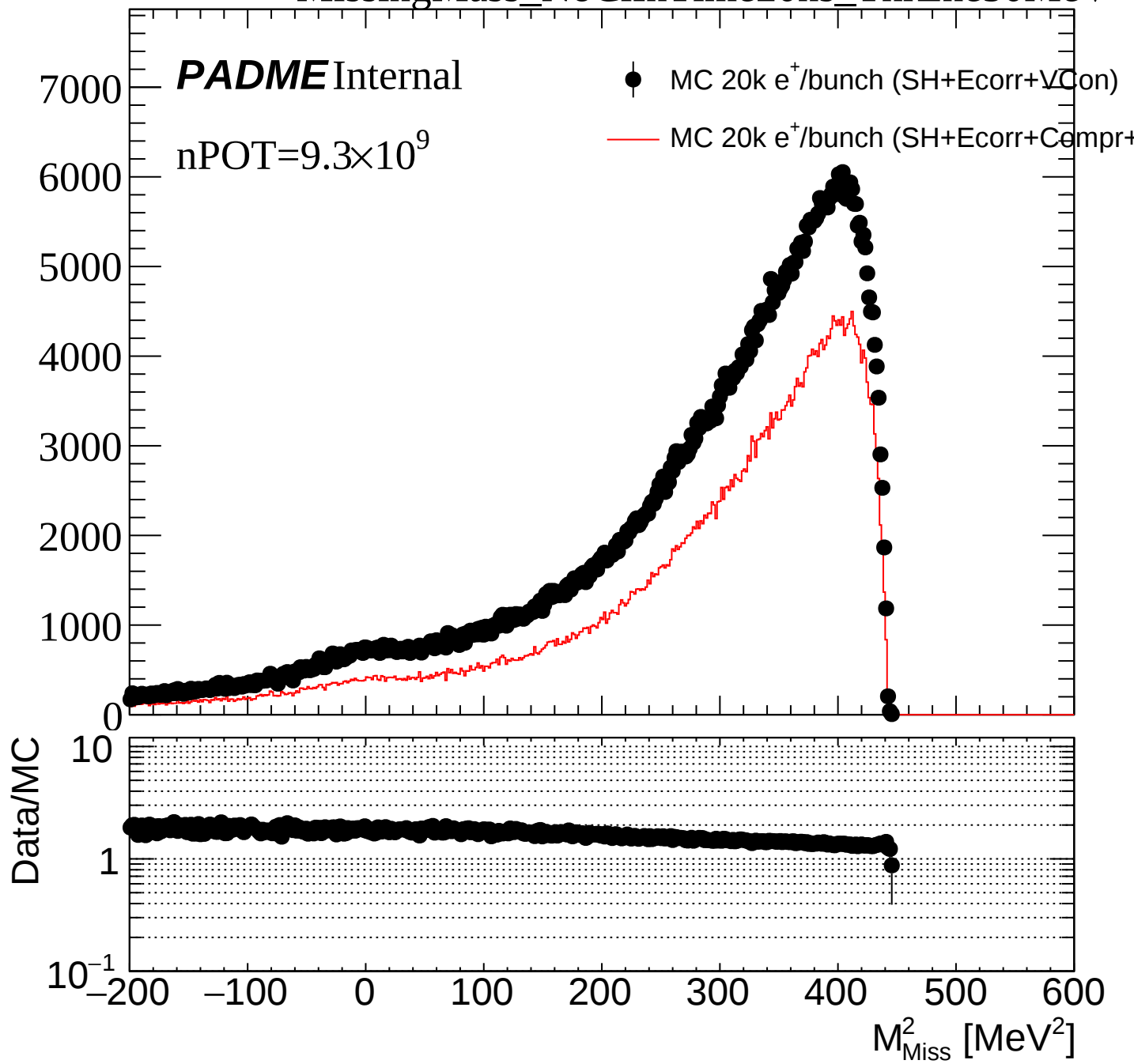
MissingMass_AllECALclu



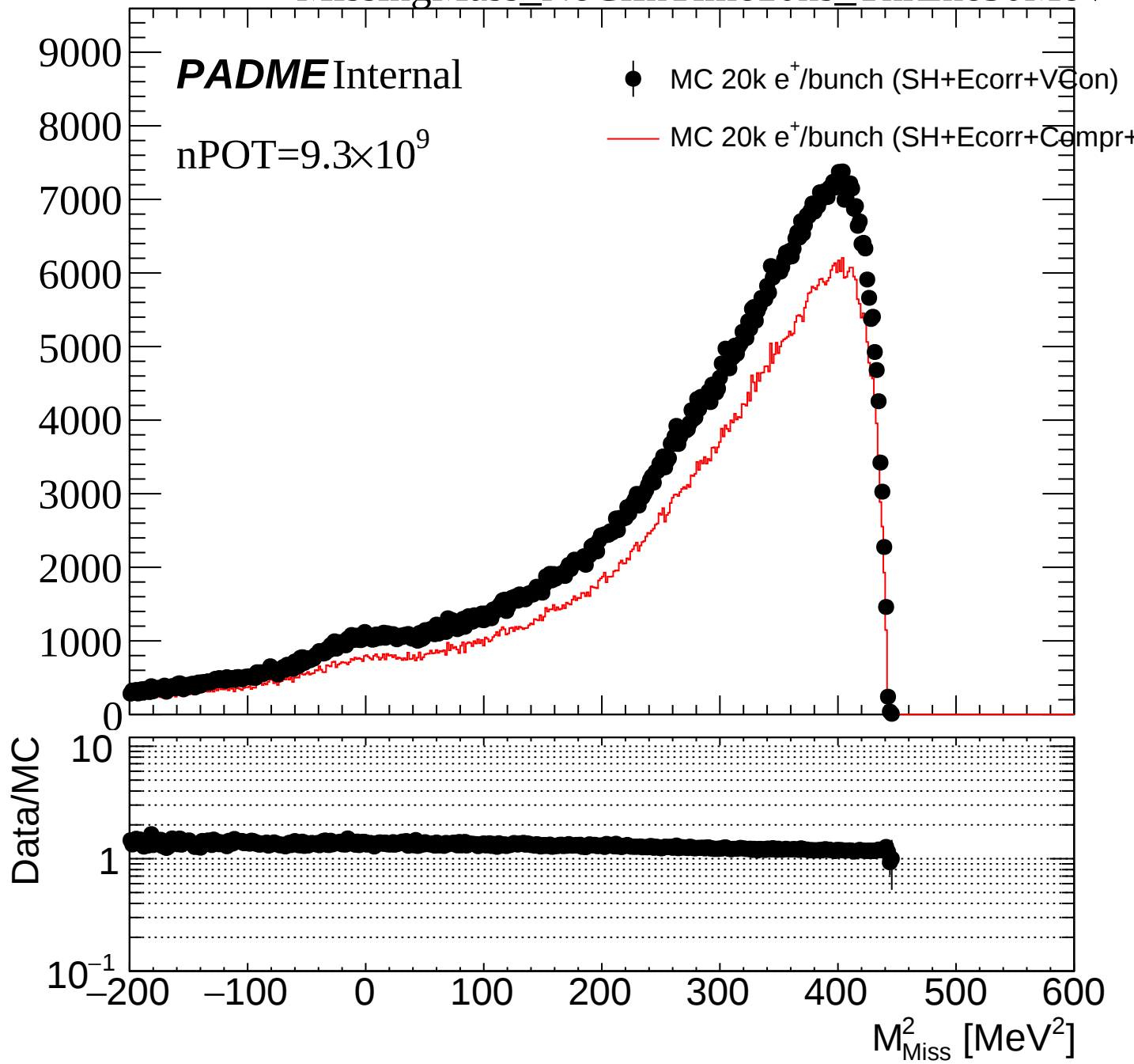
MissingMass_AllECALclu_ThrEne50MeV



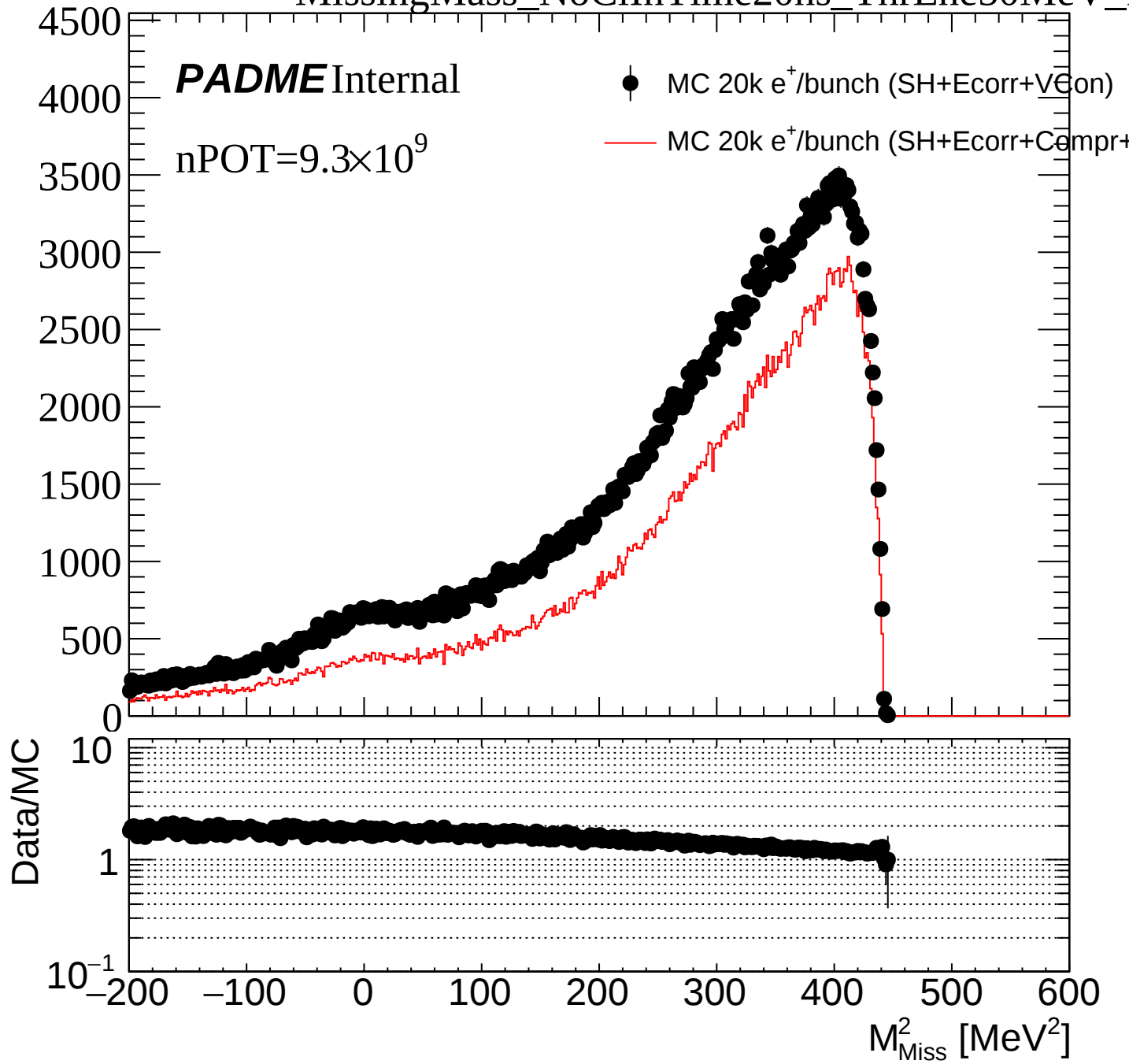
MissingMass_NoClInTime20ns_ThrEne50MeV

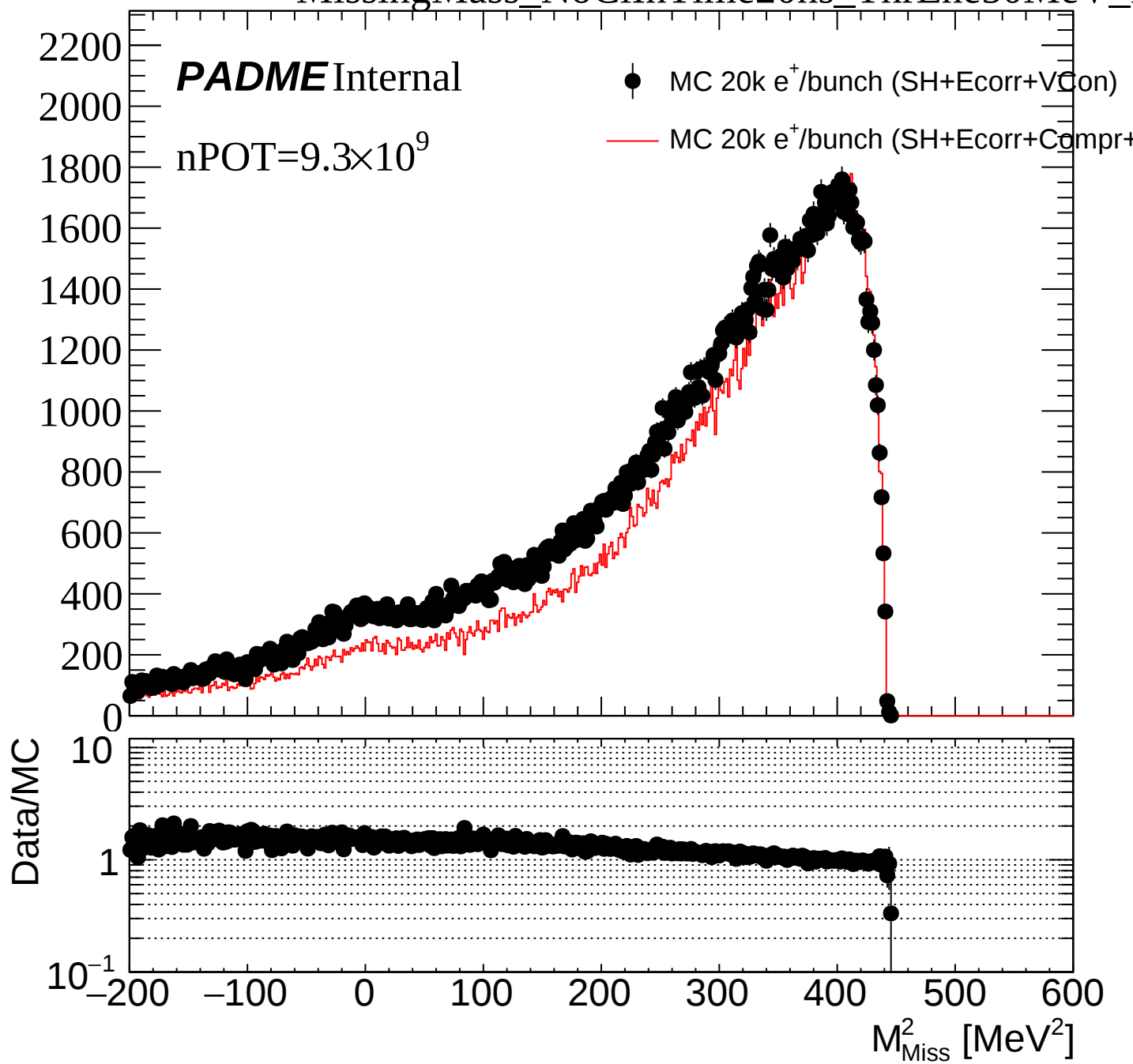


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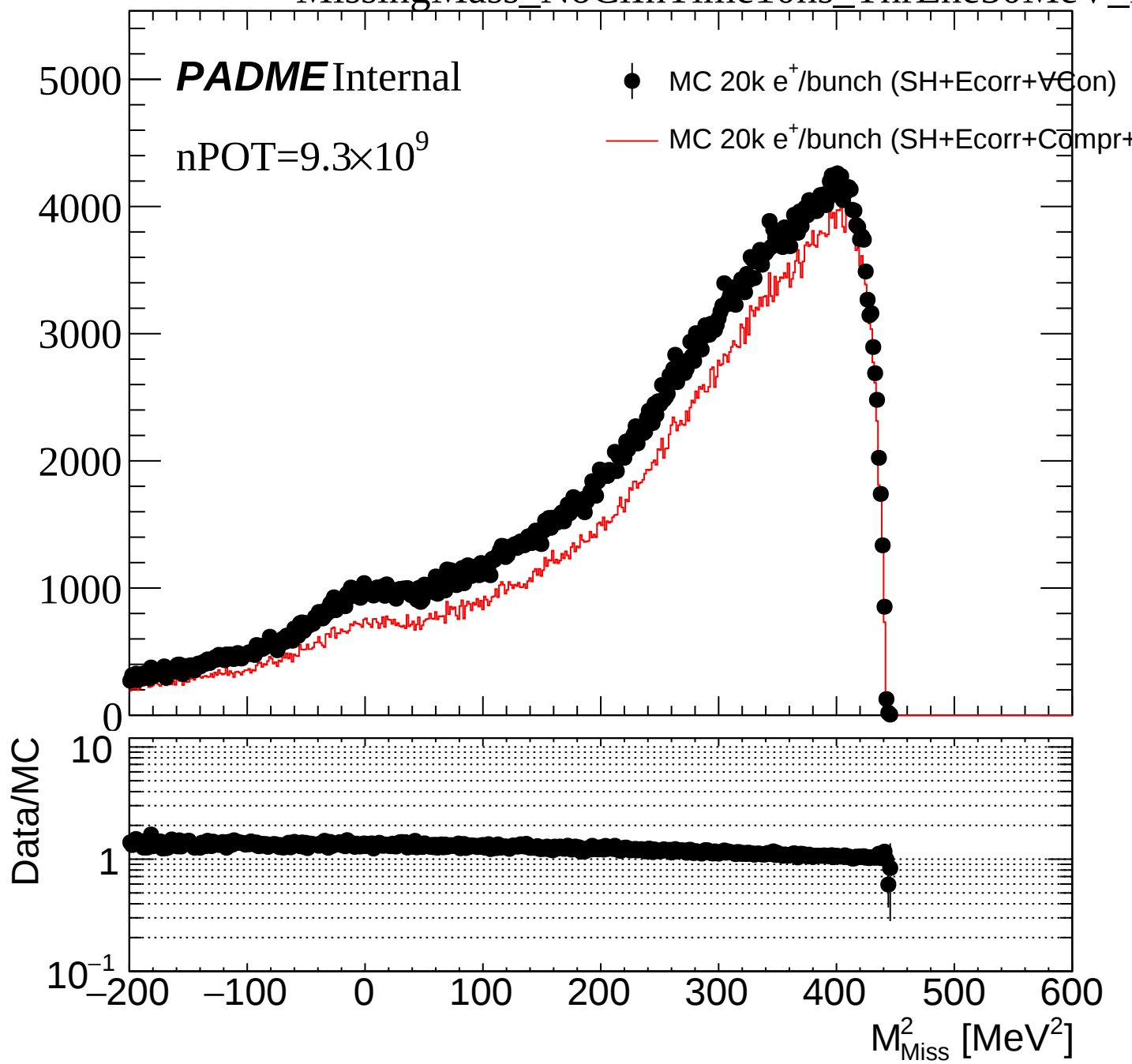


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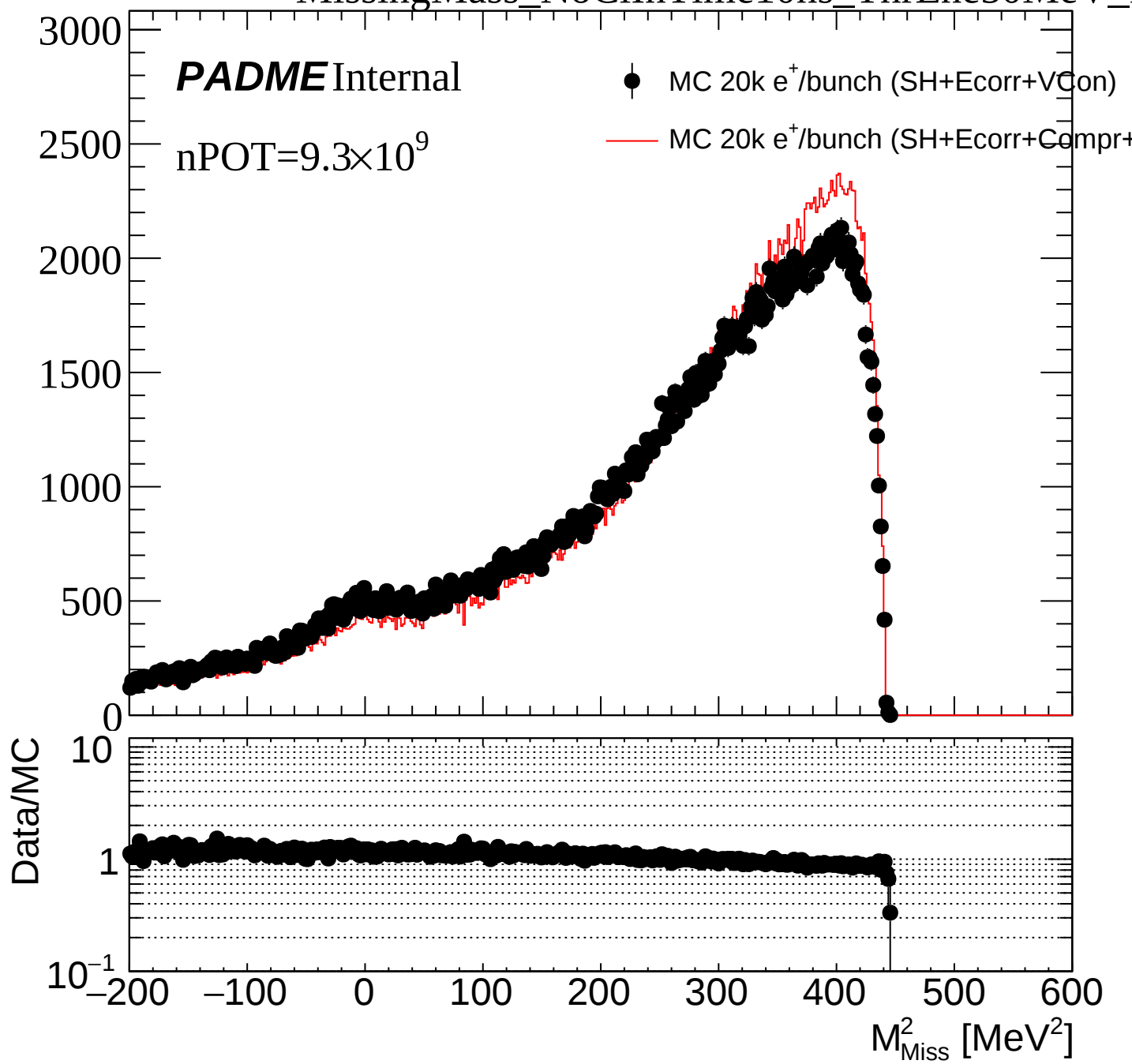




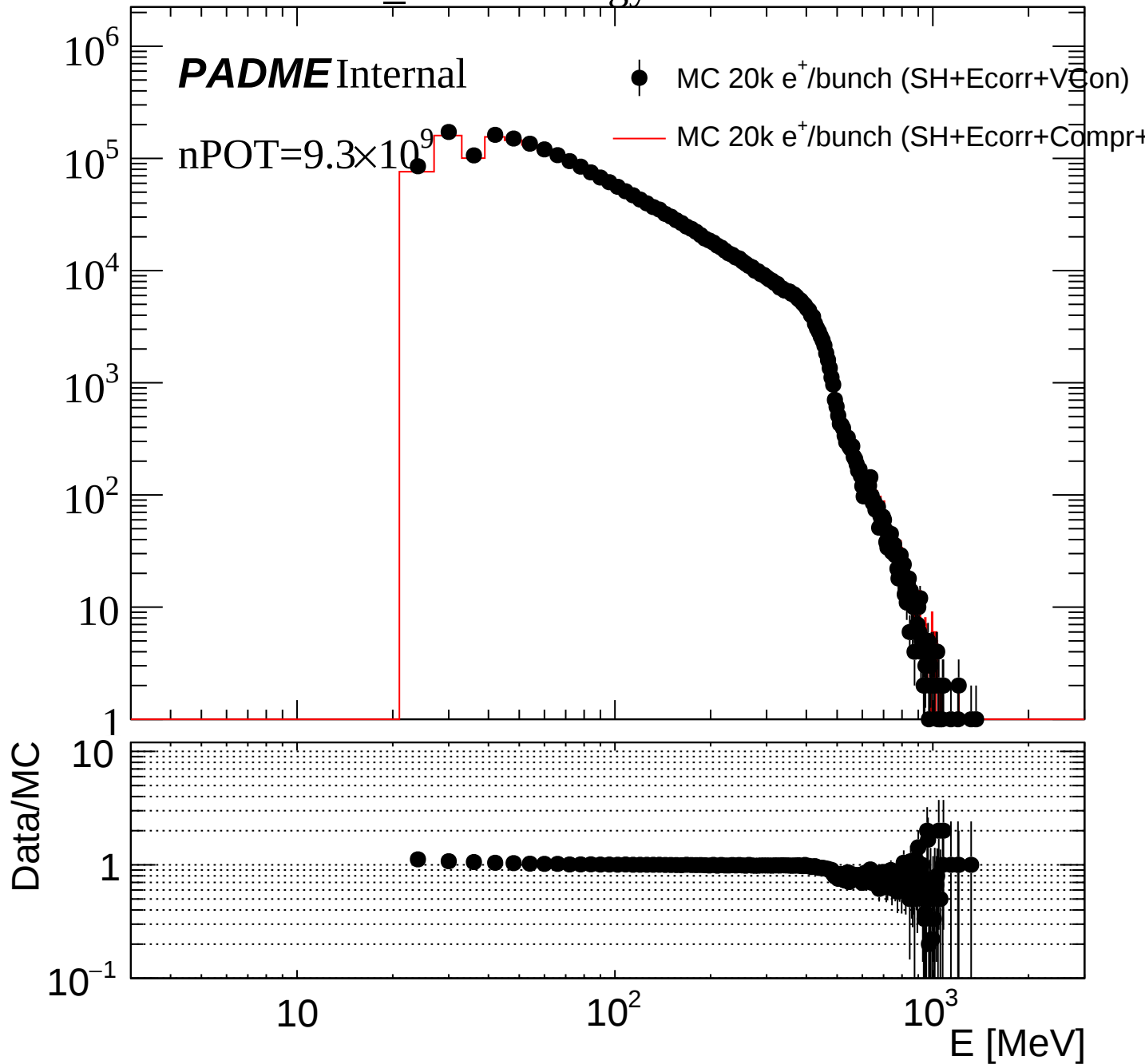
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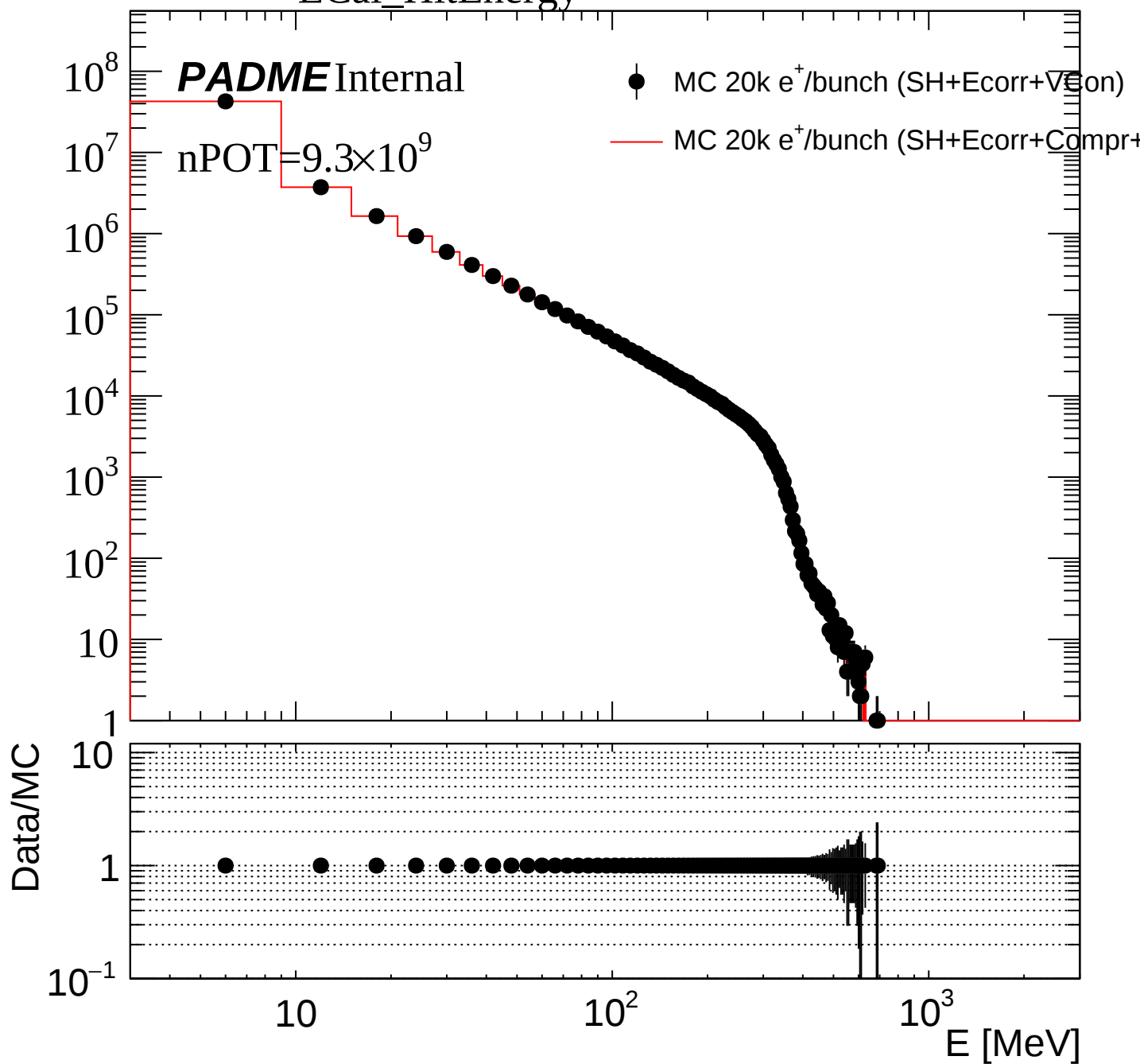
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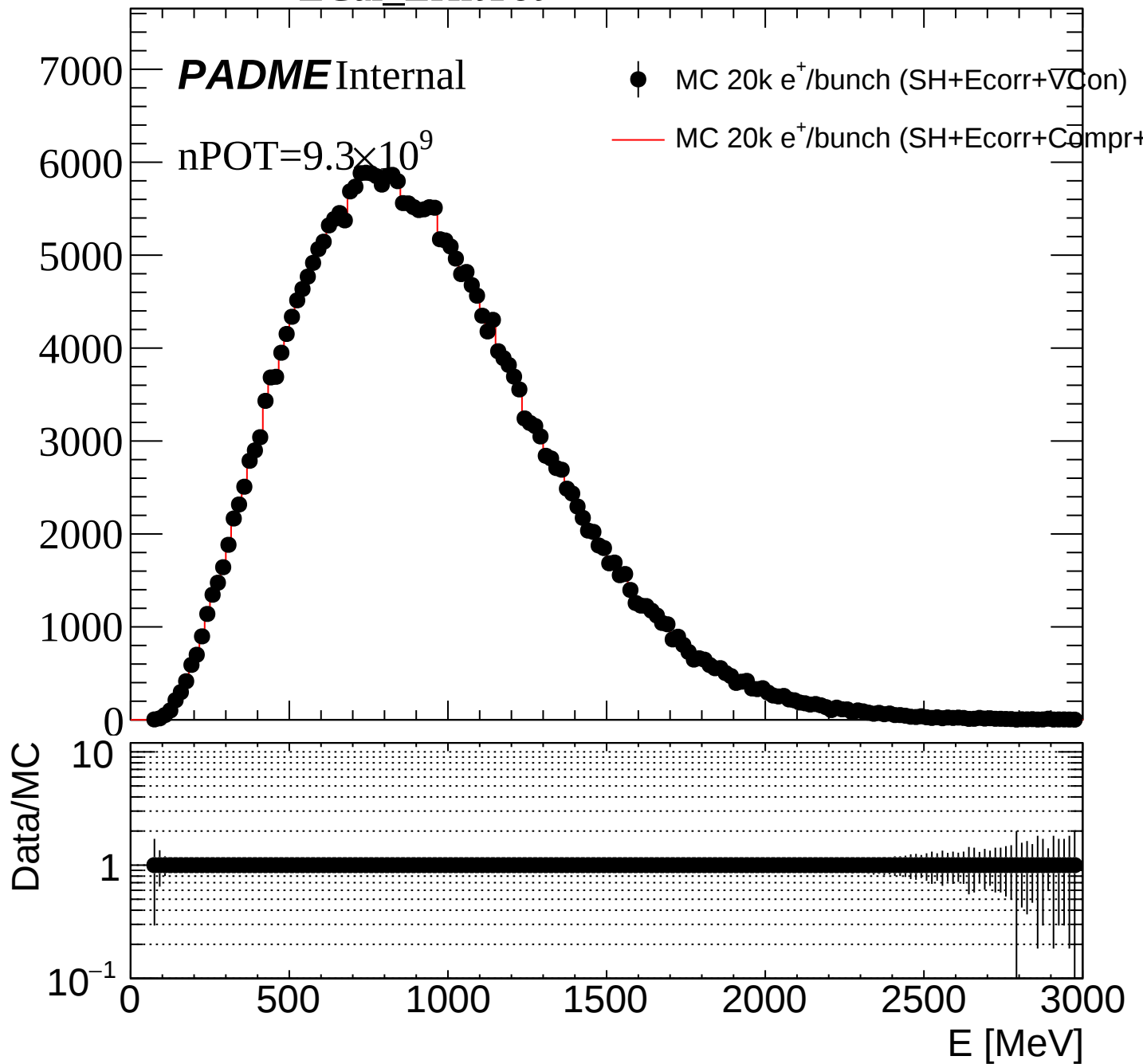
ECal_ClusterEnergy



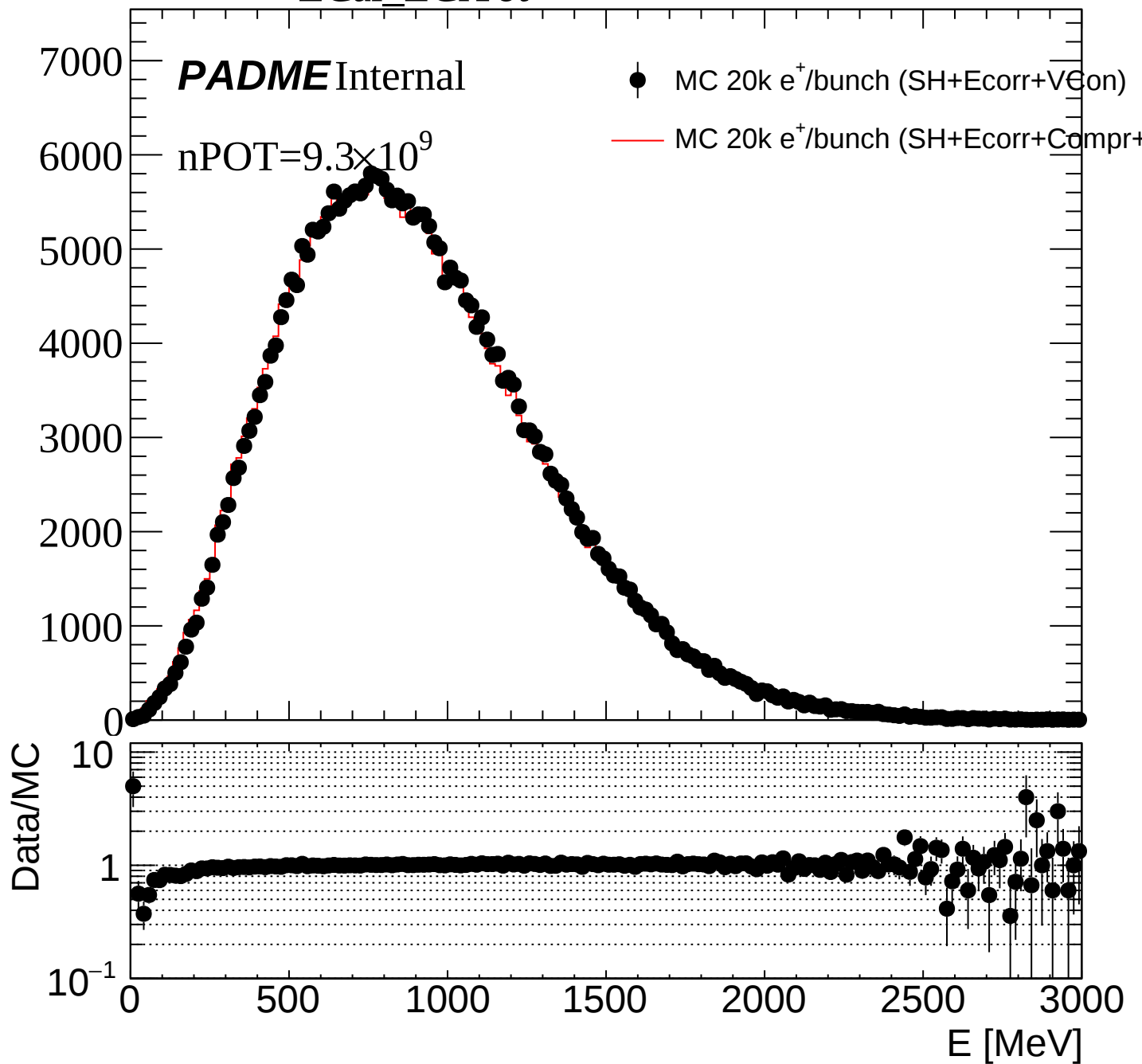
ECal_HitEnergy

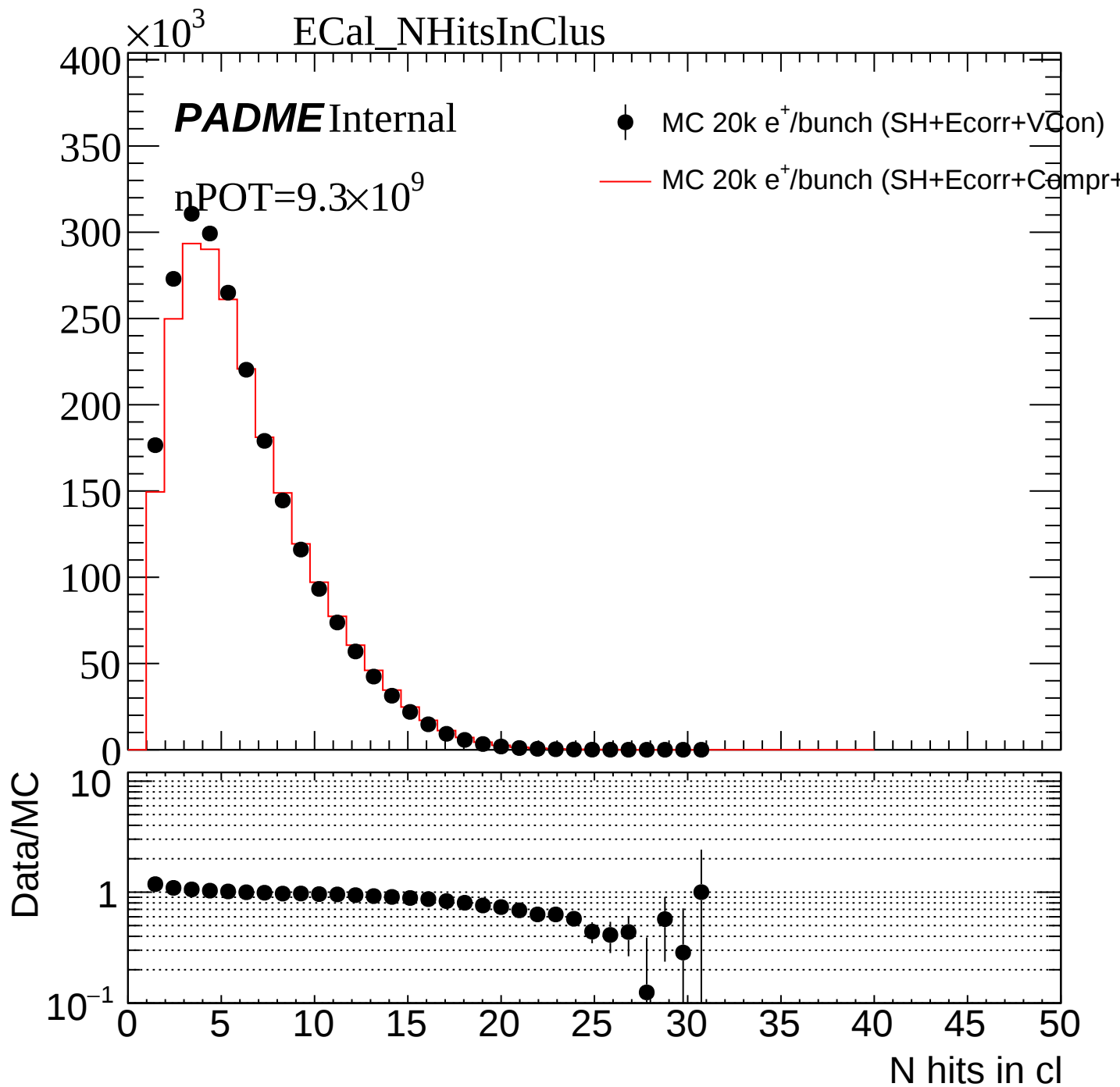


ECal_EHitTot

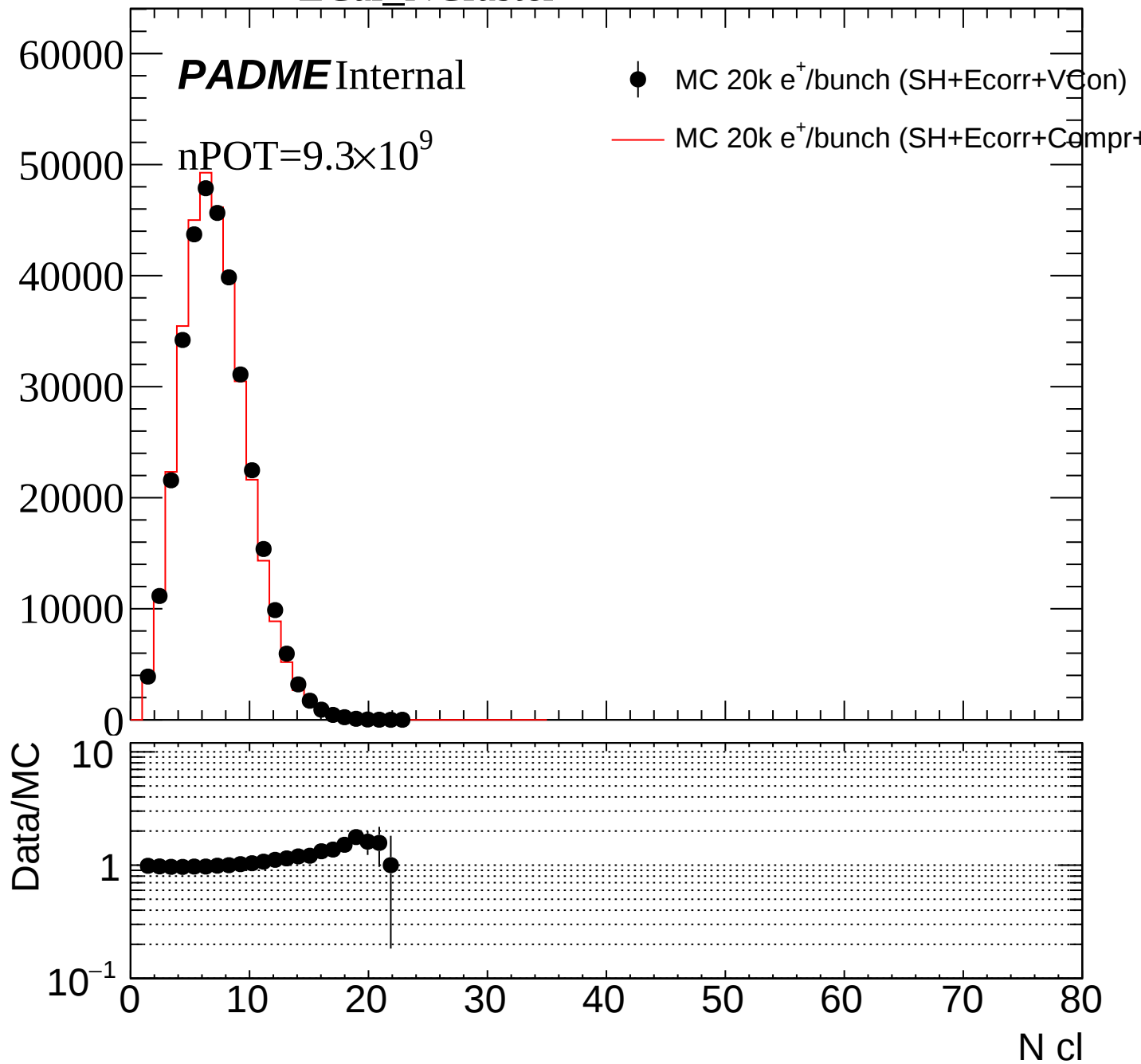


ECal_EClTot





ECal_NCluster



ECal_NCluster

