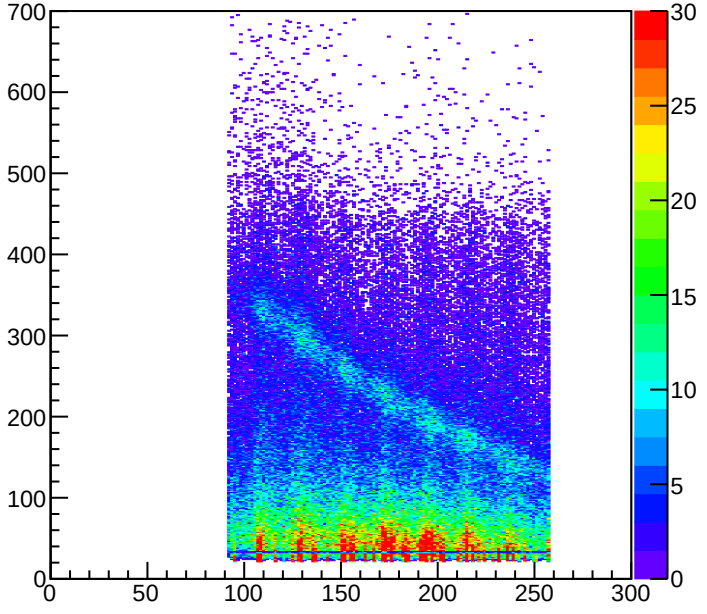
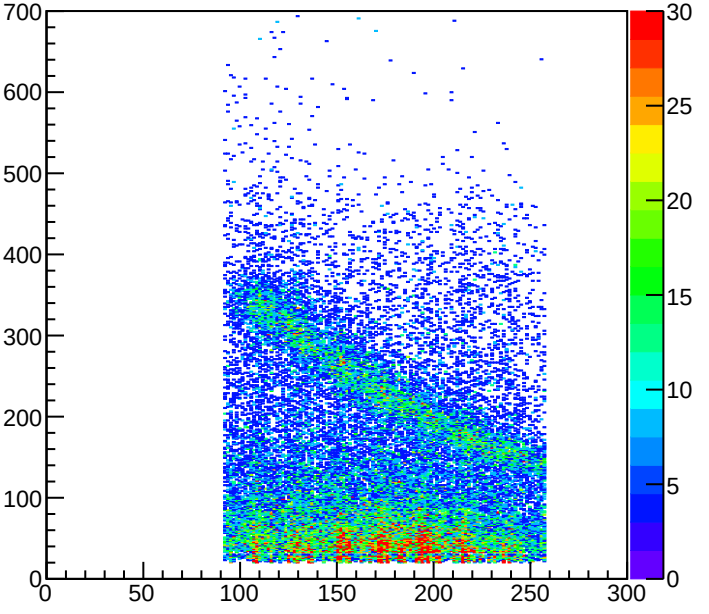
ECAL_RggVsEgg_10ns20DegreeDeltaTheta




ECAL_RggVsEgg_10ns20DegreeDeltaTheta

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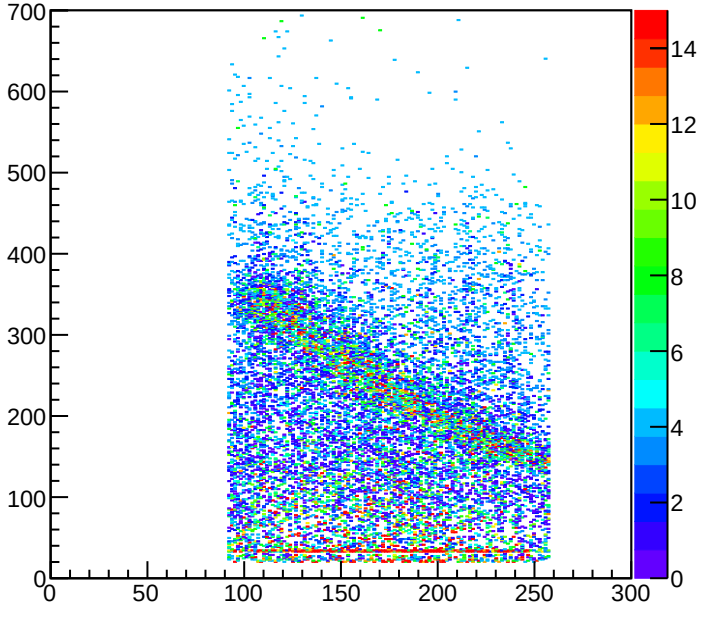


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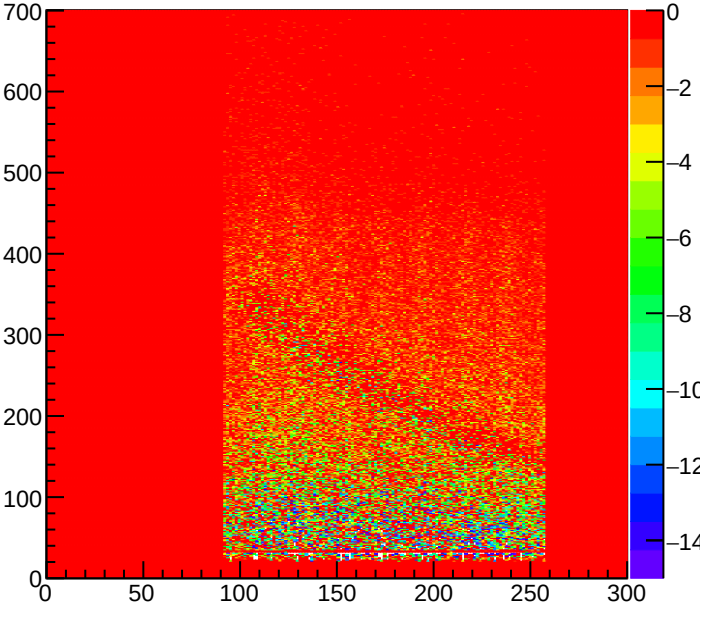
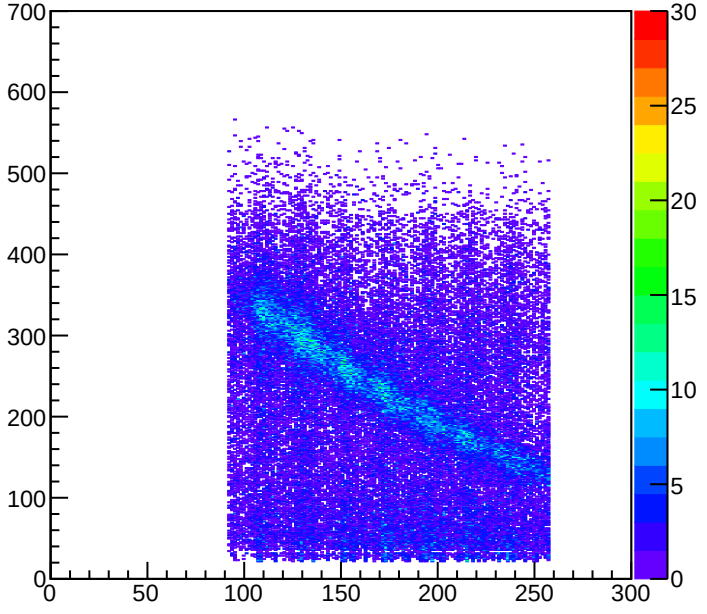
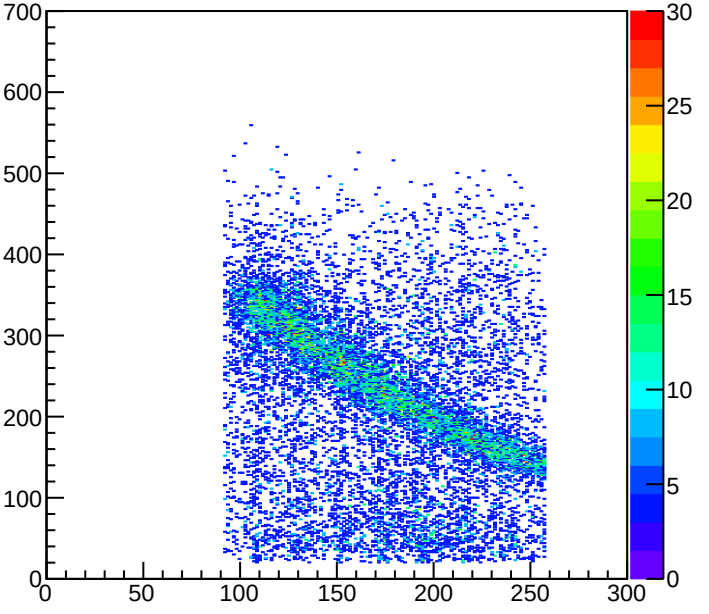


ECAL_RggVsEgg_10ns20DegreeDeltaThetaUnderPeak




ECAL_RggVsEgg_10ns20DegreeDeltaThetaUnderPeak

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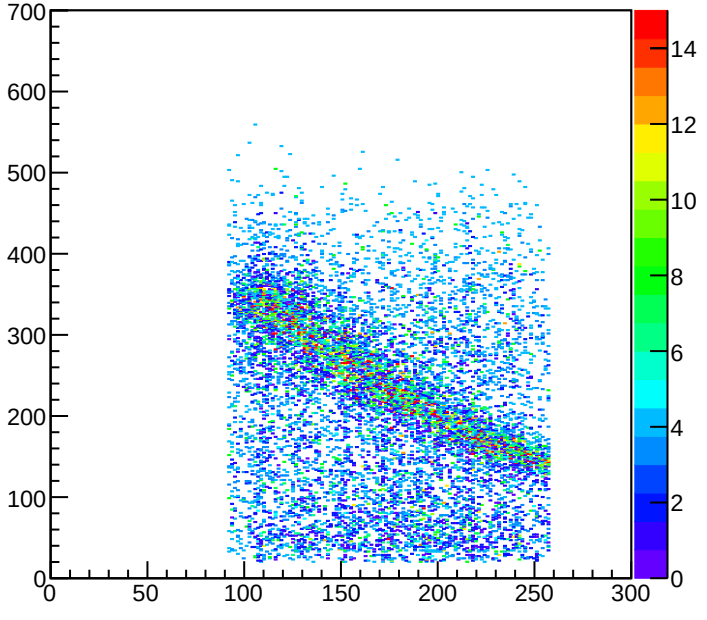


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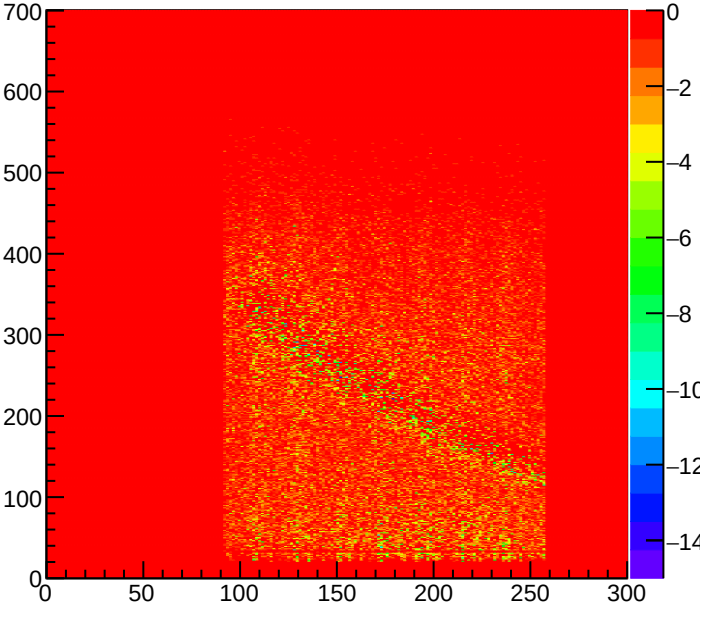
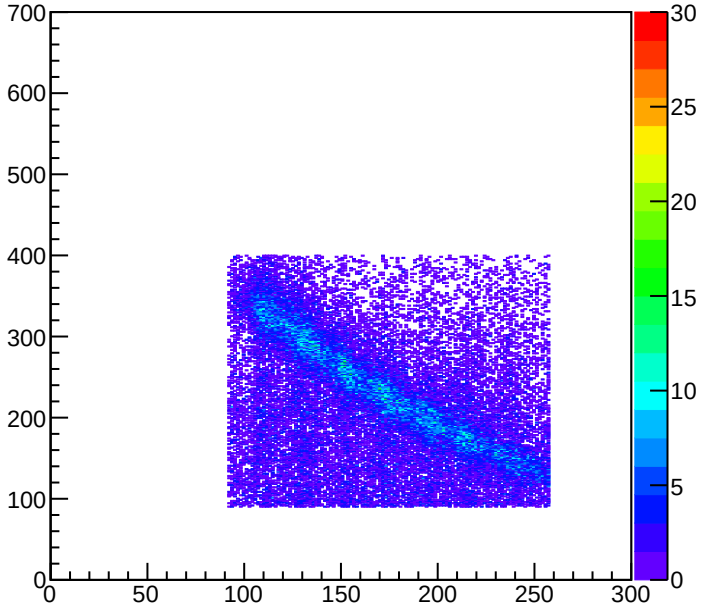
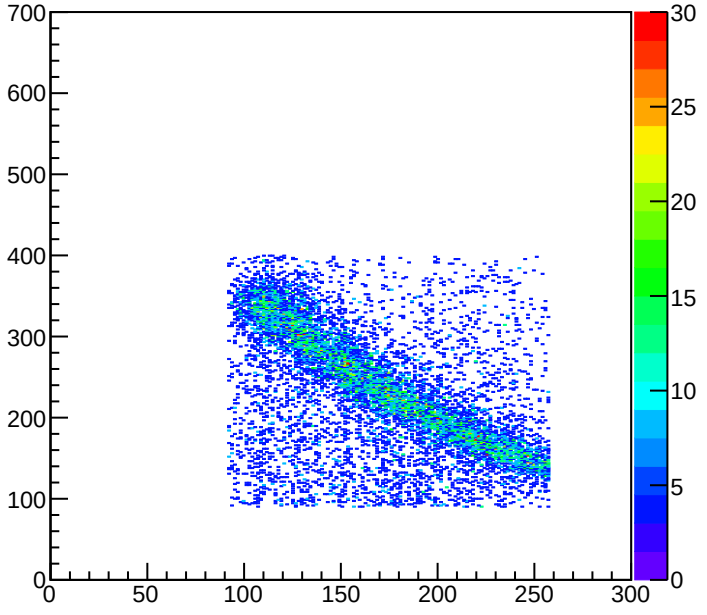


ECAL_RggVsEgg_10ns20DegreeDeltaThetaUnderPeakEThr90




ECAL_RggVsEgg_10ns20DegreeDeltaThetaUnderPeakEThr90

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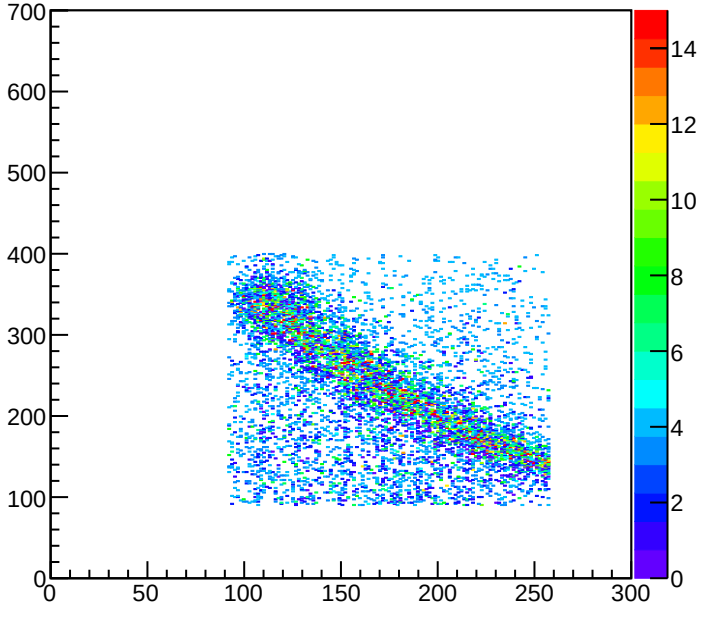


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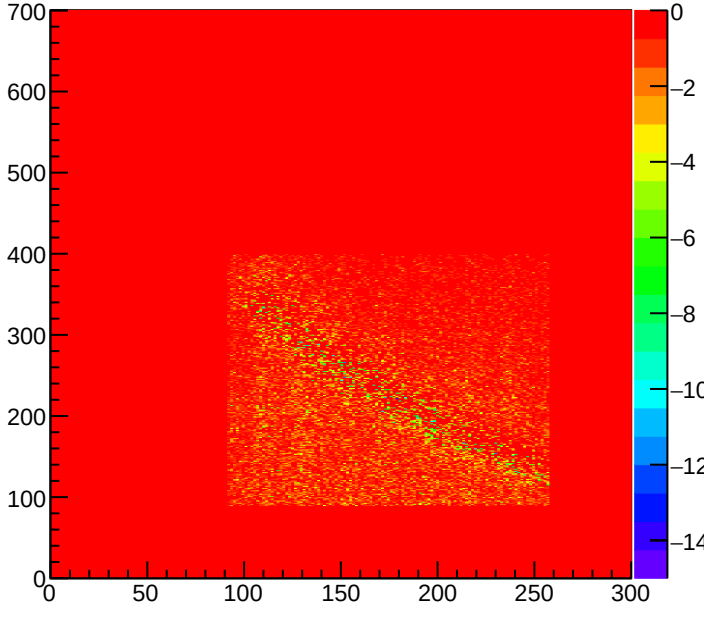
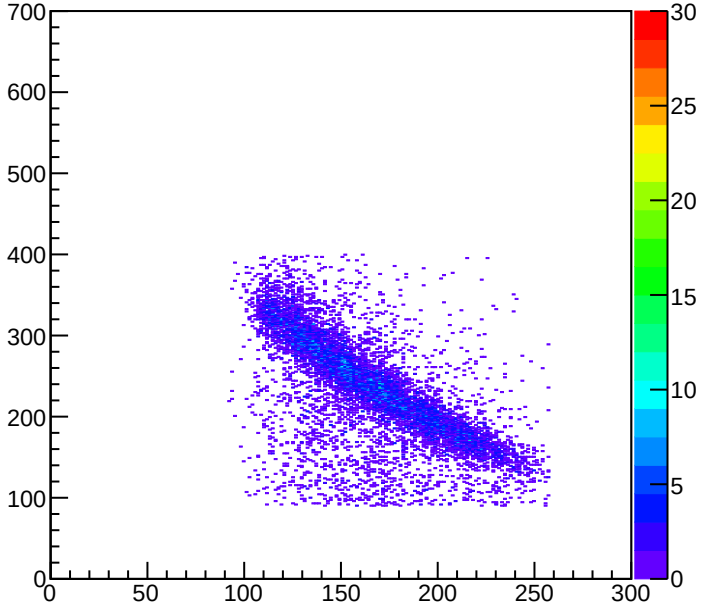
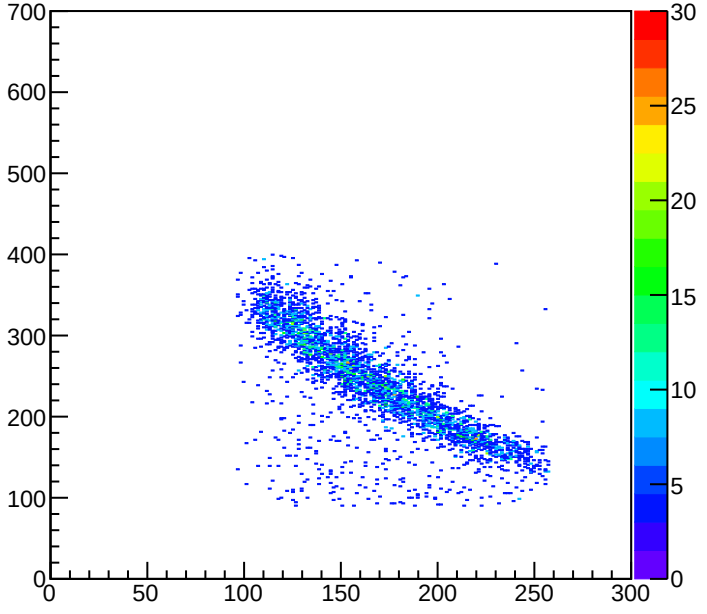


ECAL_RggVsEgg_10ns20DegreeDeltaThetaUnderPeakEThr90_FRY




ECAL_RggVsEgg_10ns20DegreeDeltaThetaUnderPeakEThr90_FRY

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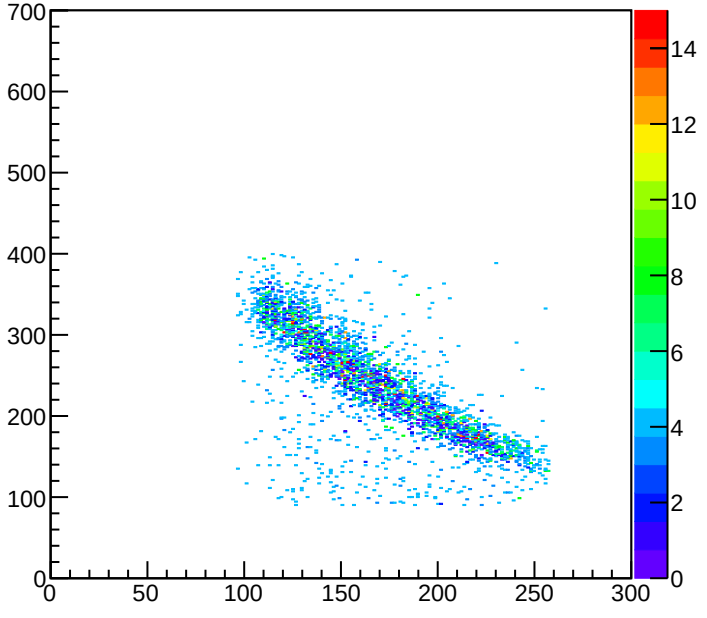


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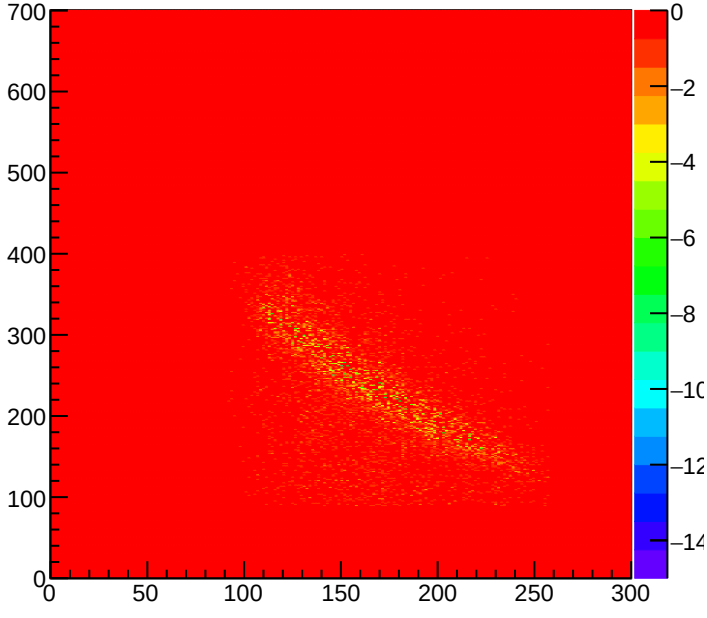
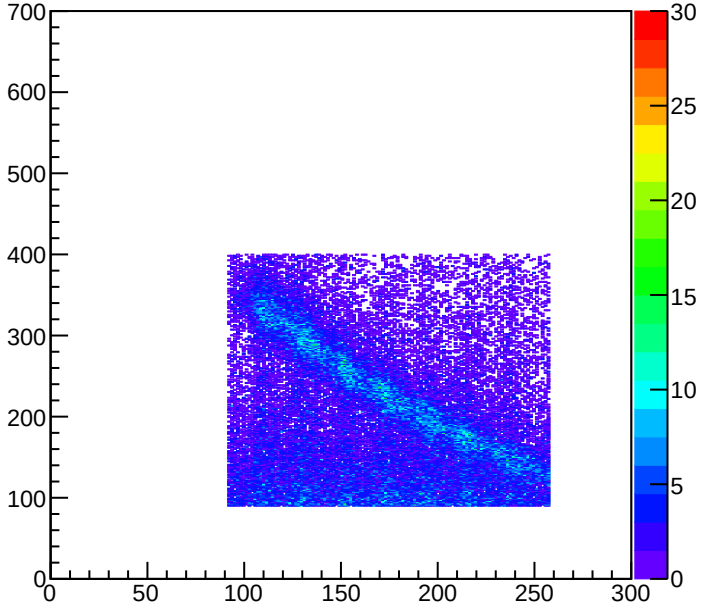
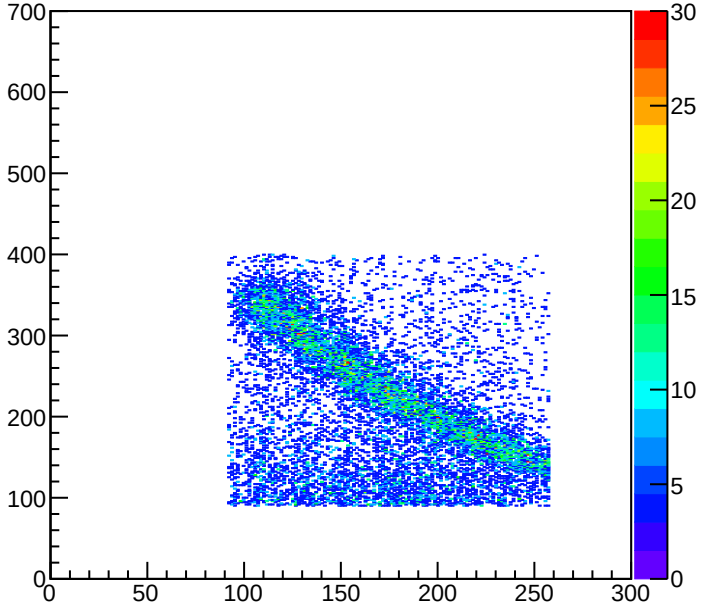


ECAL_RggVsEgg_10ns20DegreeDeltaThetaEThr90




ECAL_RggVsEgg_10ns20DegreeDeltaThetaEThr90

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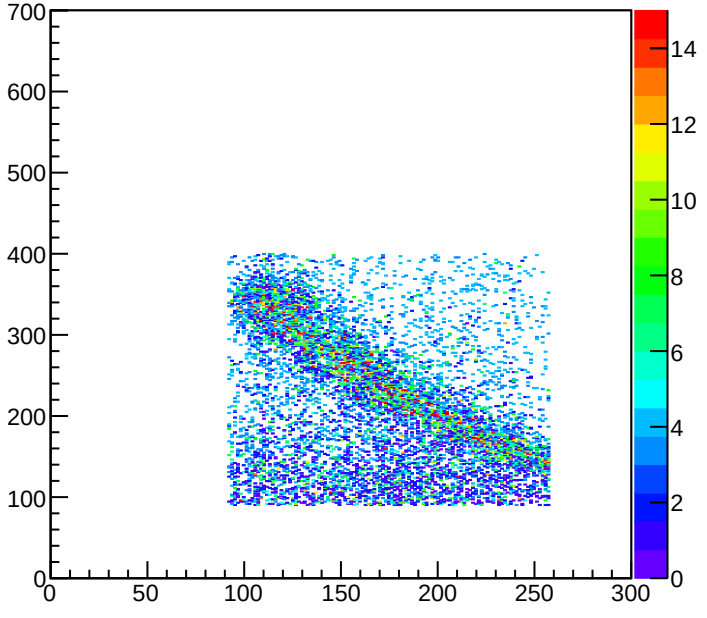


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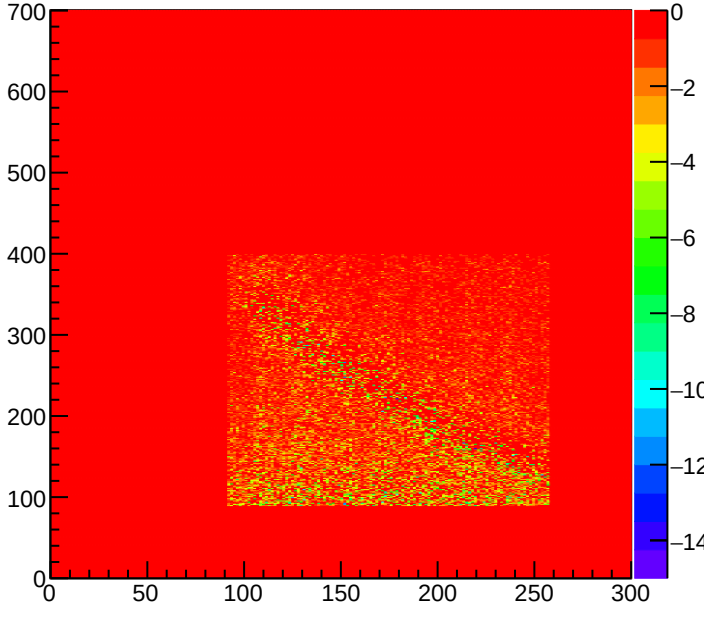
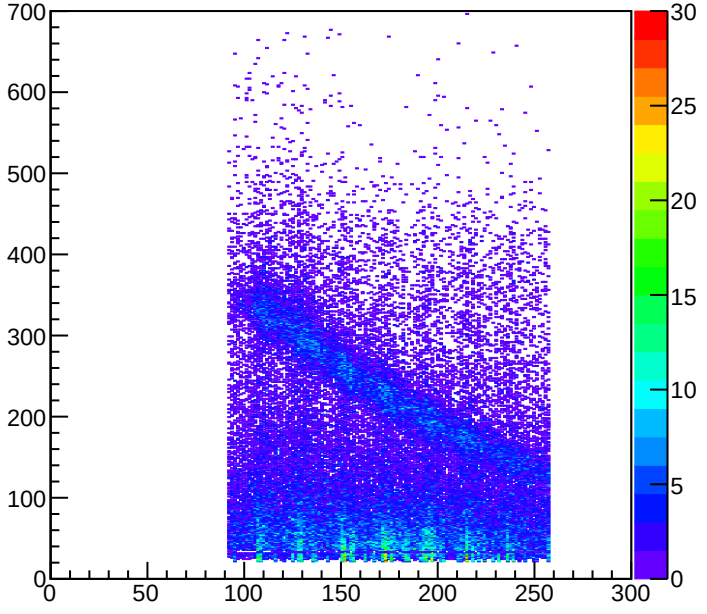
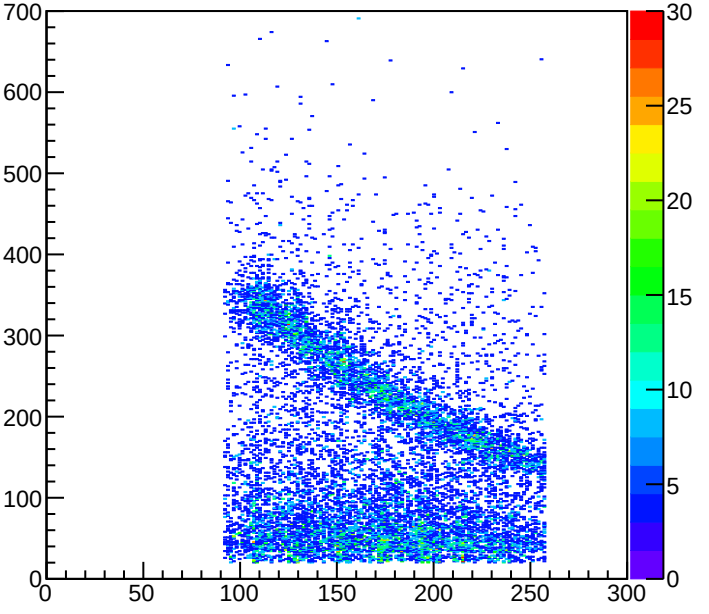


ECAL_RggVsEgg_10ns5DegreeDeltaTheta




ECAL_RggVsEgg_10ns5DegreeDeltaTheta

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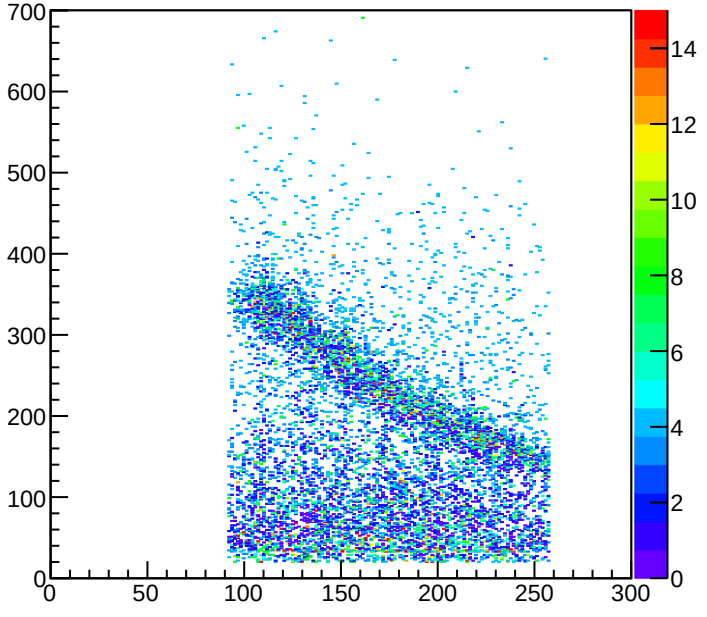


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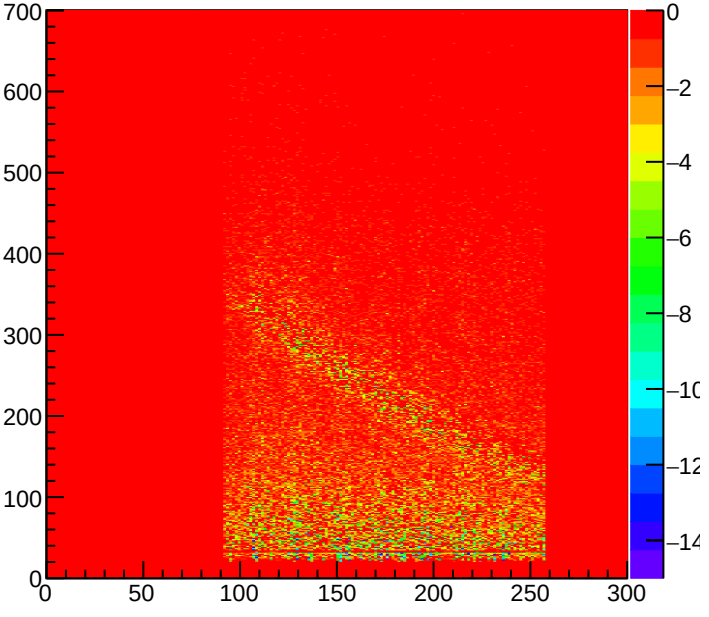
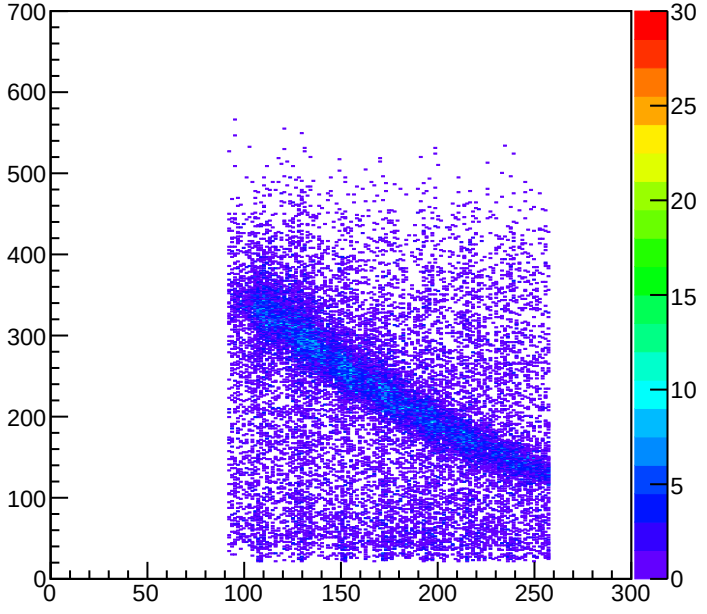
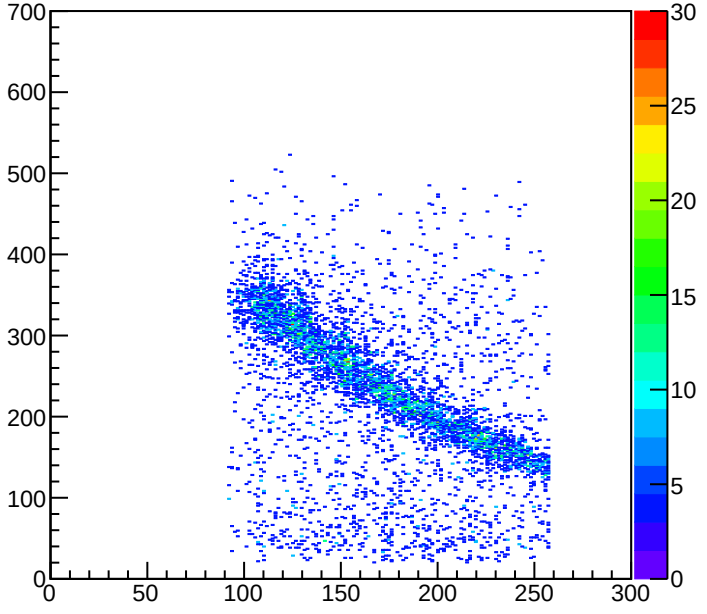


ECAL_RggVsEgg_10ns5DegreeDeltaThetaUnderPeak




ECAL_RggVsEgg_10ns5DegreeDeltaThetaUnderPeak

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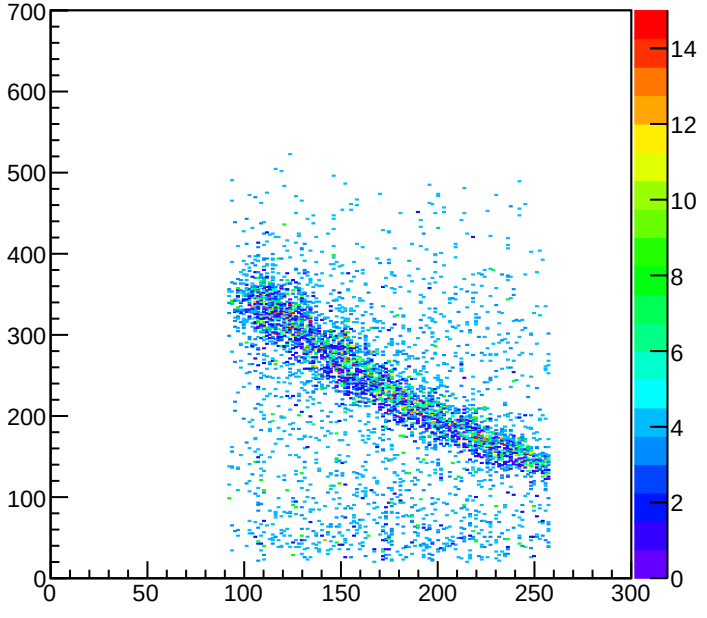


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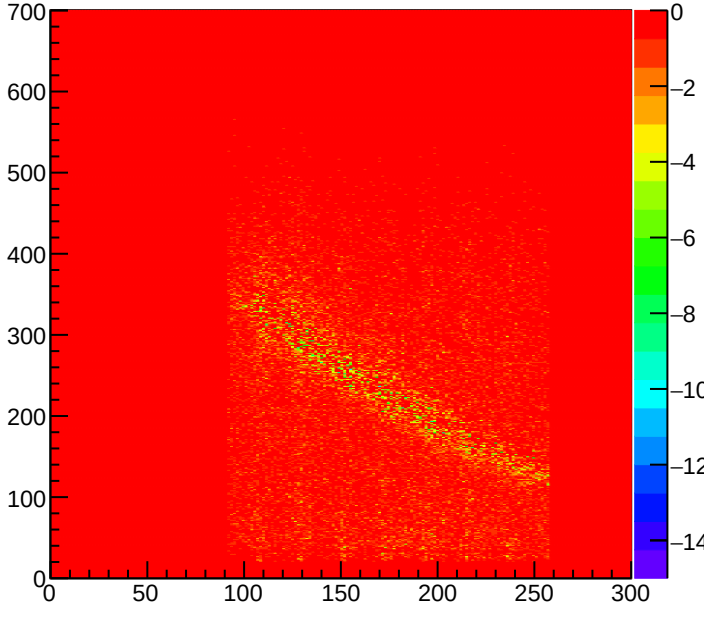

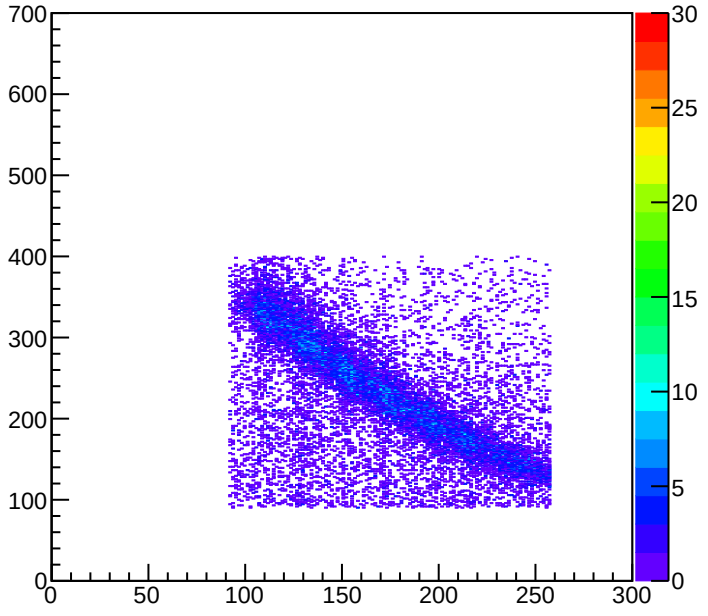
ECAL_RggVsEgg_10ns5DegreeDeltaThetaUnderPeakEThr90
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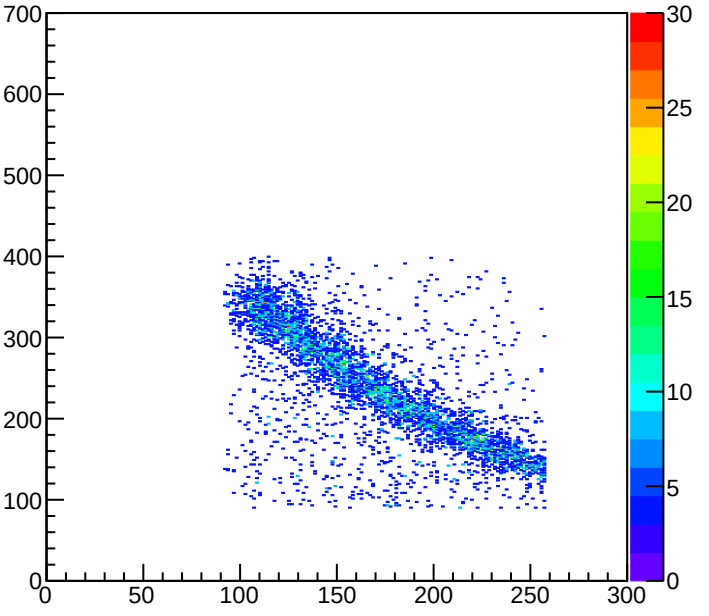
ECAL_RggVsEgg_10ns5DegreeDeltaThetaUnderPeakEThr90
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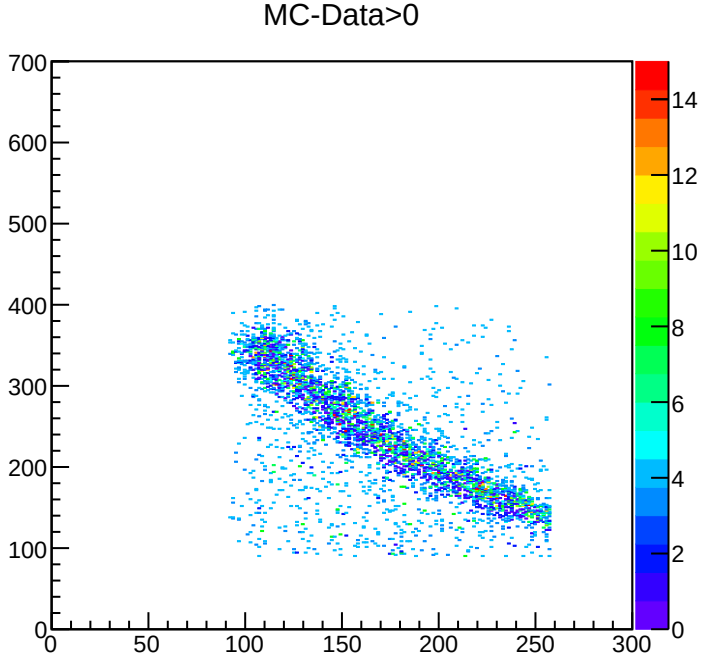
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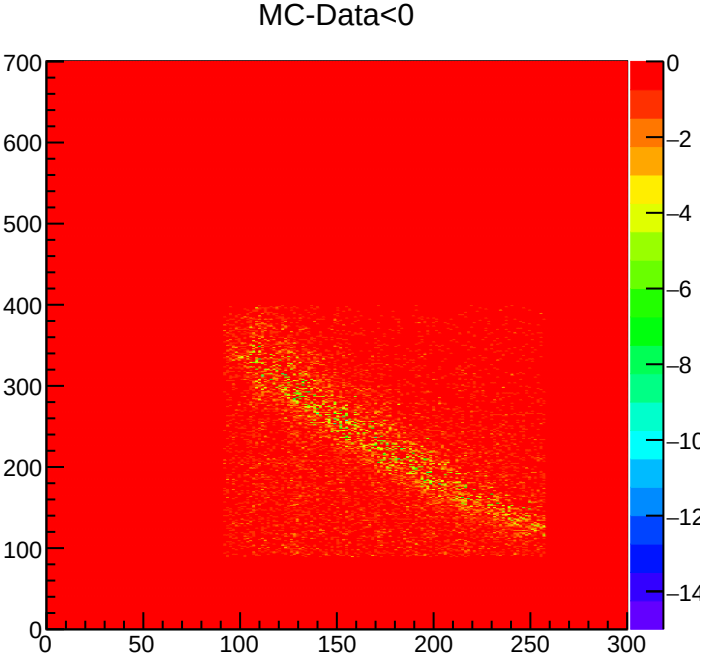
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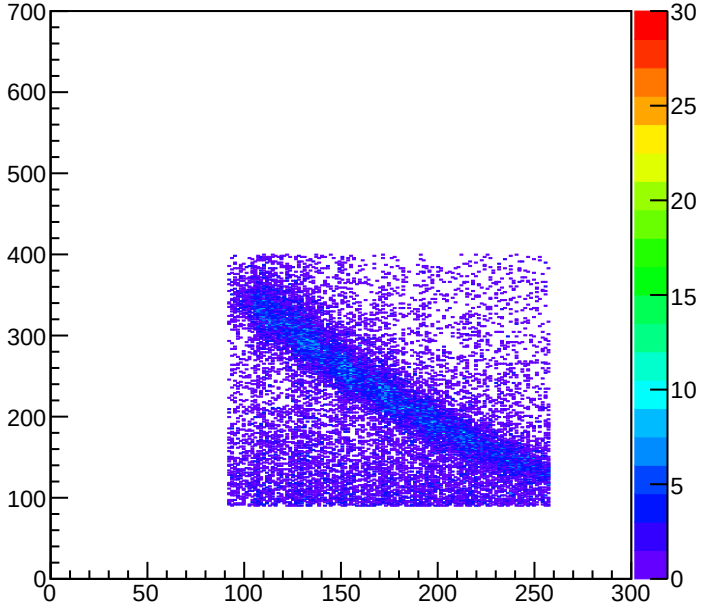
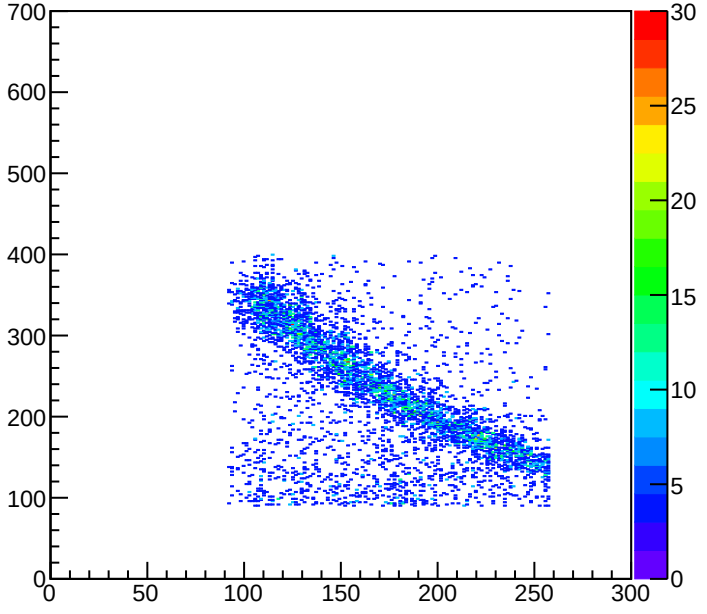
ECAL_RggVsEgg_10ns5DegreeDeltaThetaEThr90




ECAL_RggVsEgg_10ns5DegreeDeltaThetaEThr90

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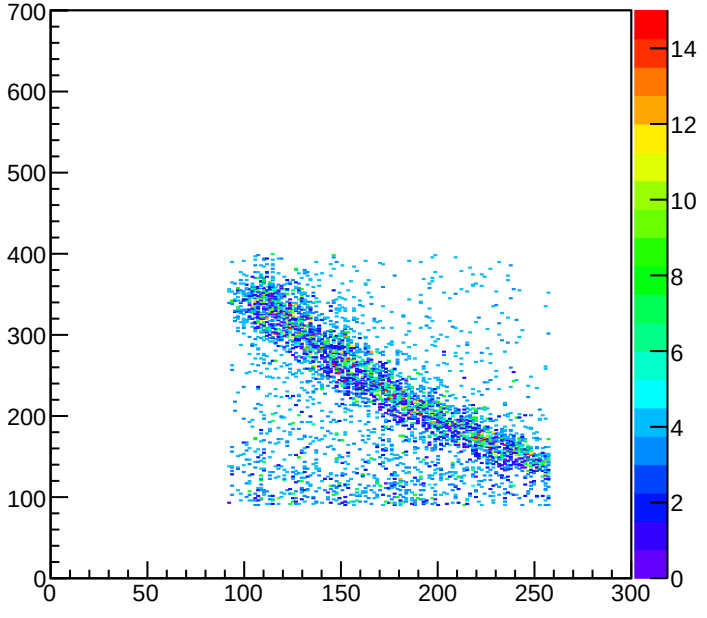


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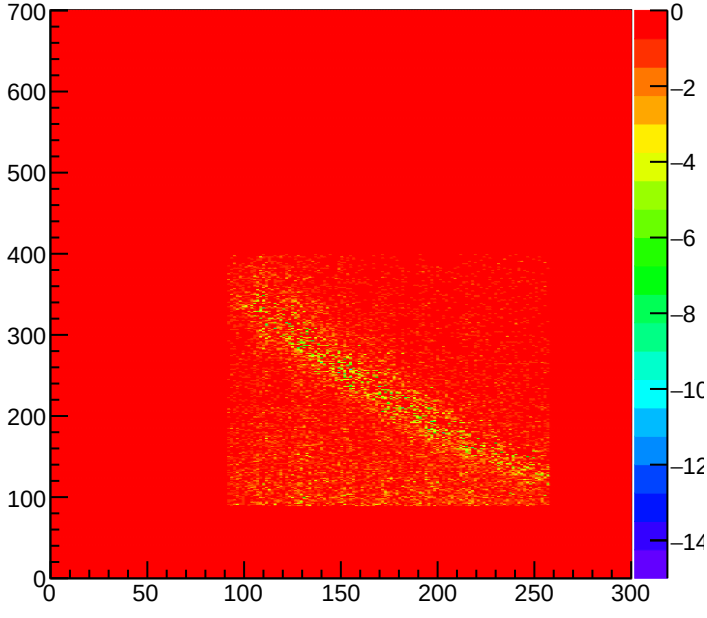

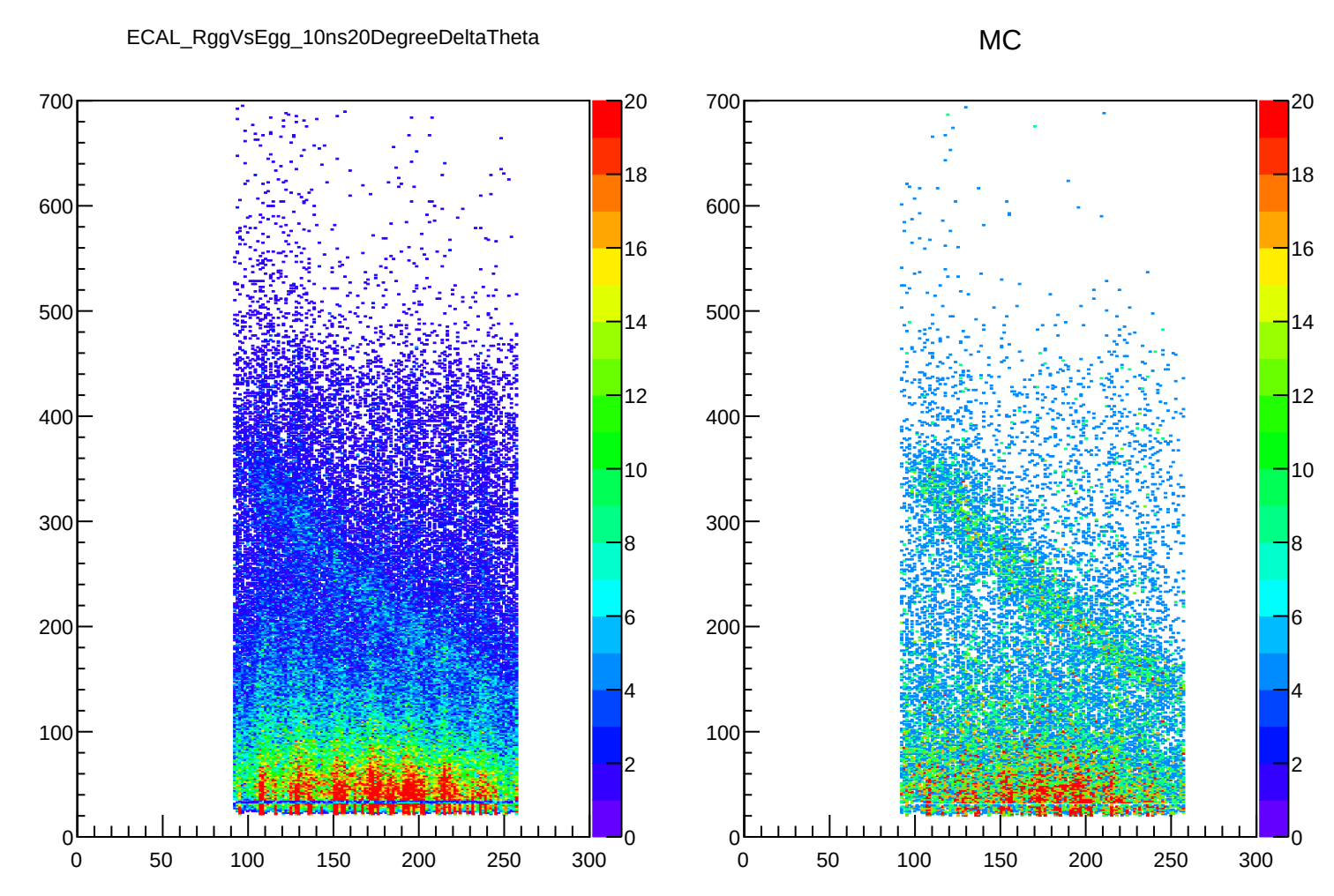
ECAL_RggVsEgg_10ns20DegreeDeltaTheta
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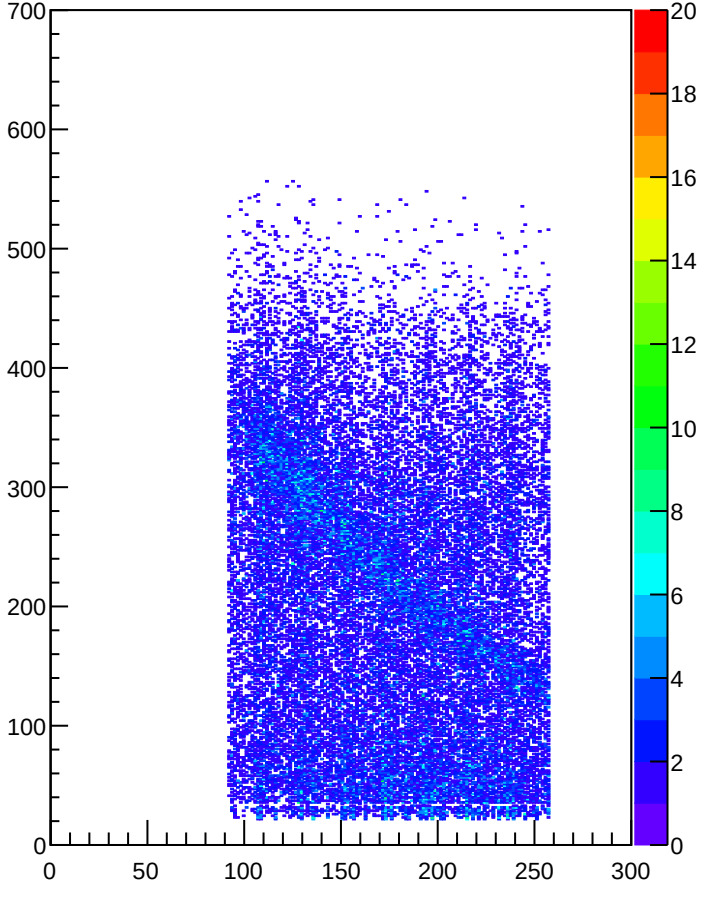
ECAL_RggVsEgg_10ns20DegreeDeltaThetaUnderPeak

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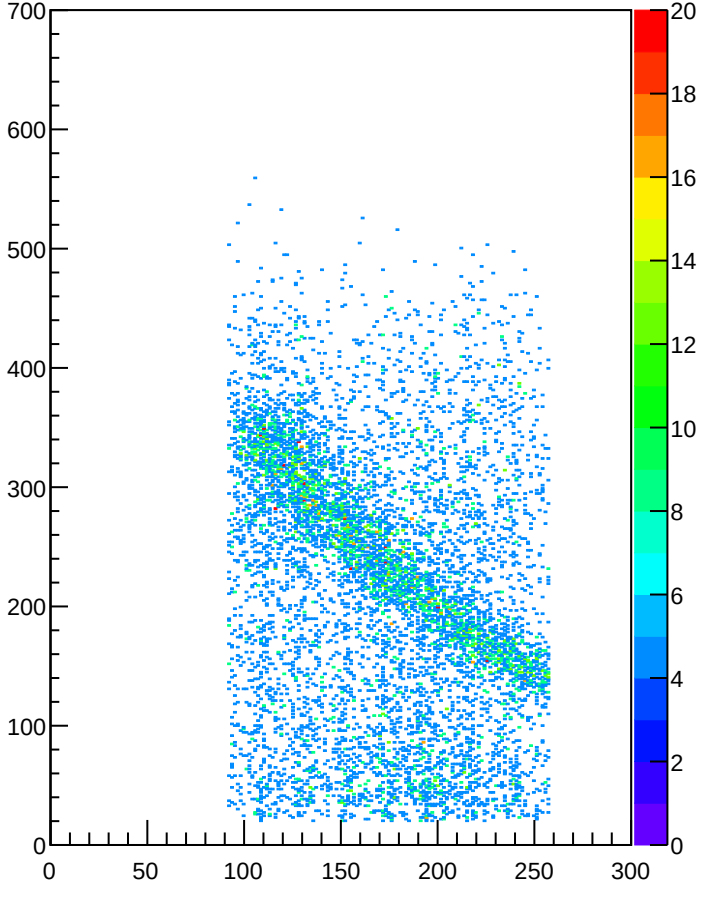
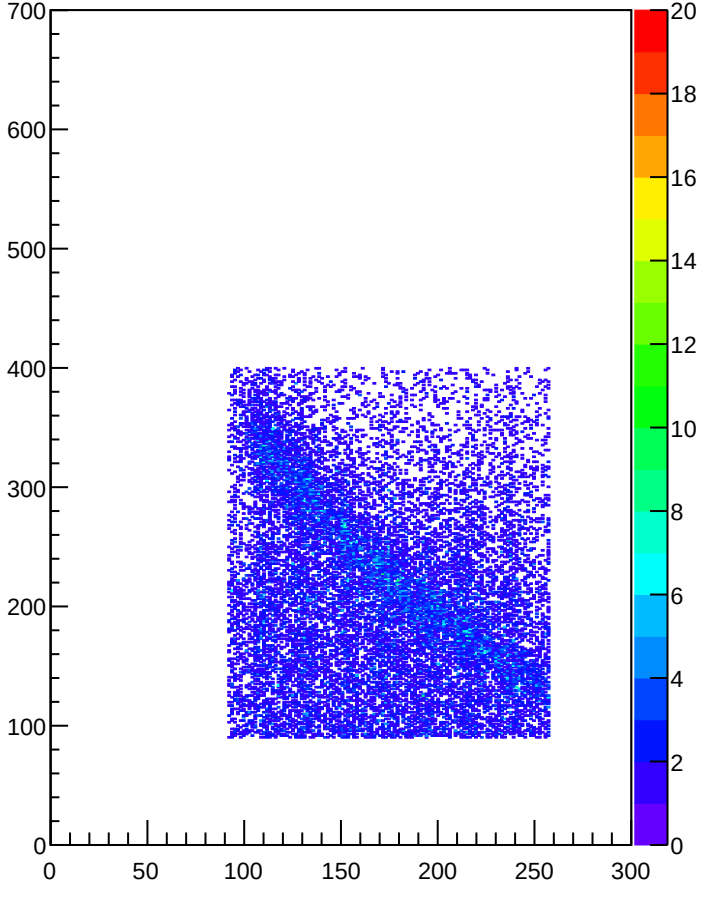


ECAL_RggVsEgg_10ns20DegreeDeltaThetaUnderPeakEThr90

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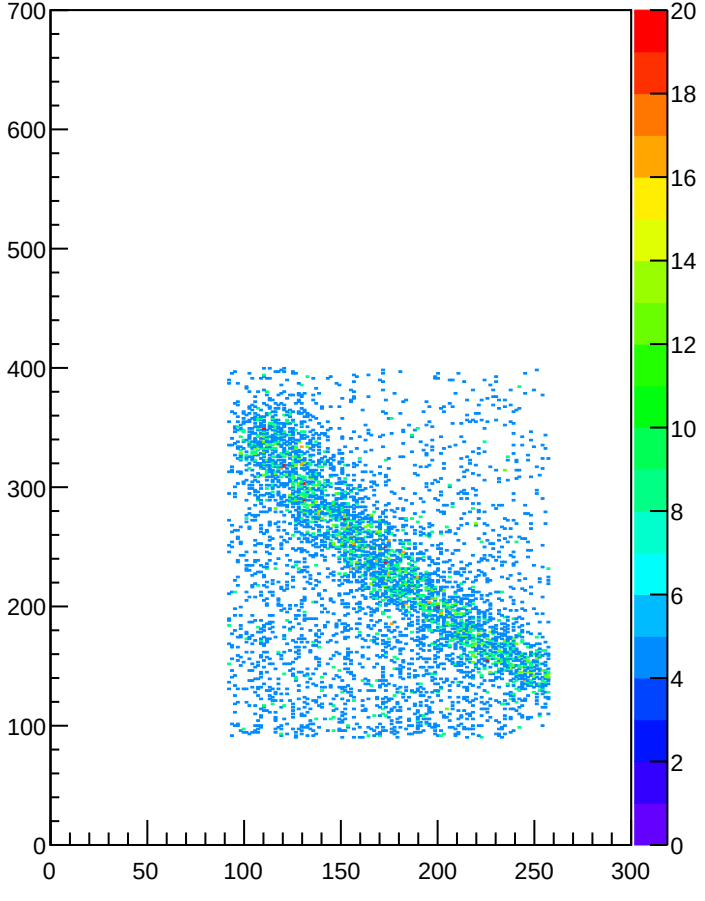
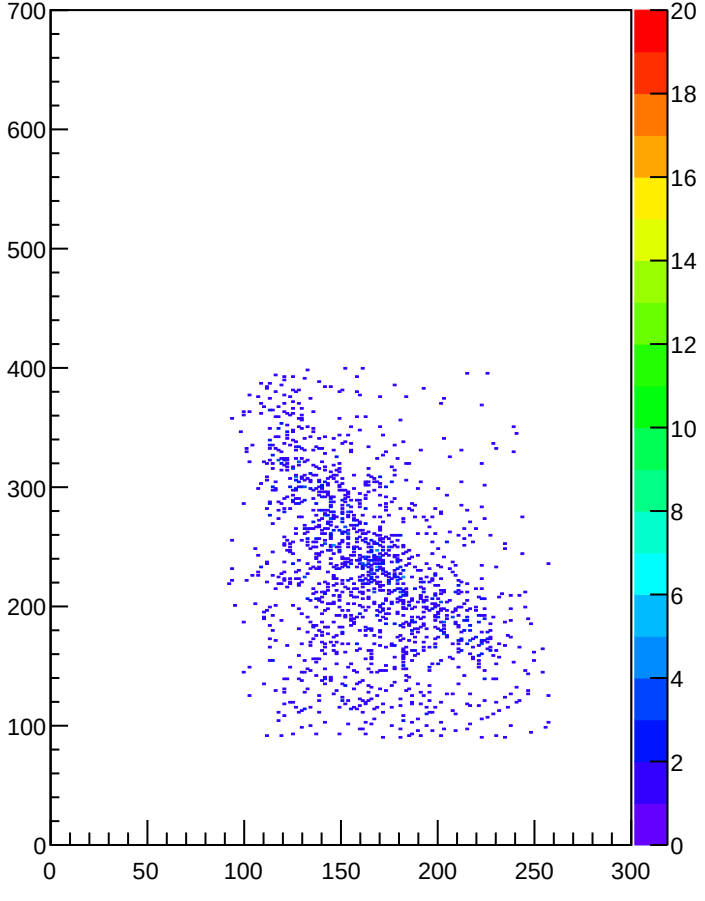


ECAL_RggVsEgg_10ns20DegreeDeltaThetaUnderPeakEThr90_FRY

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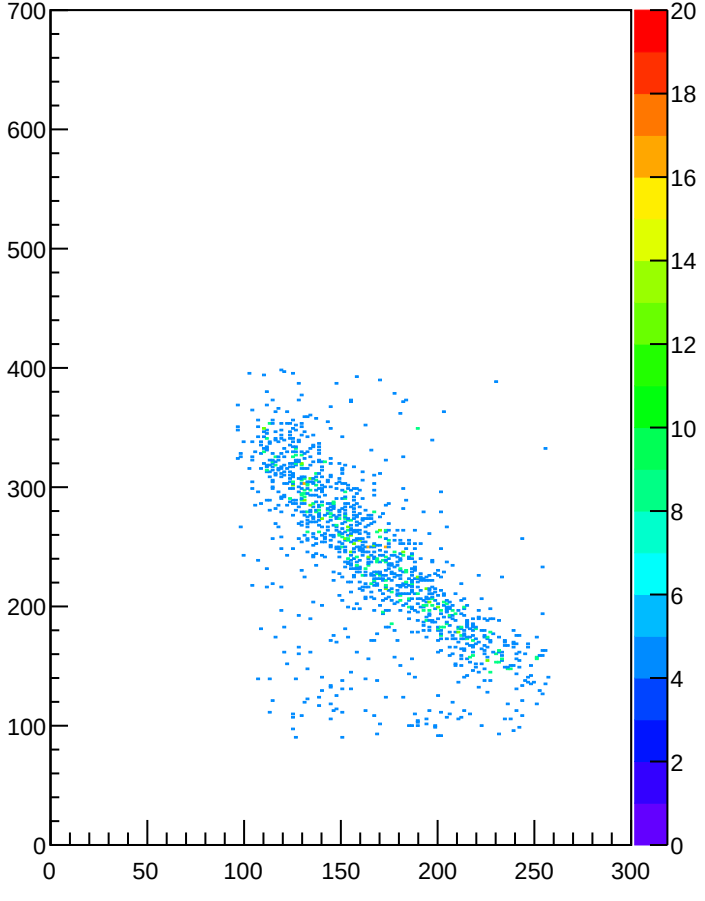
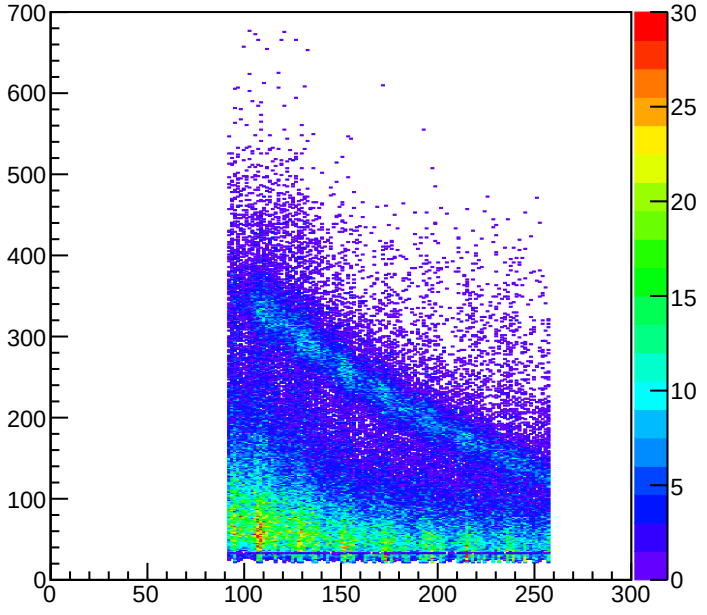
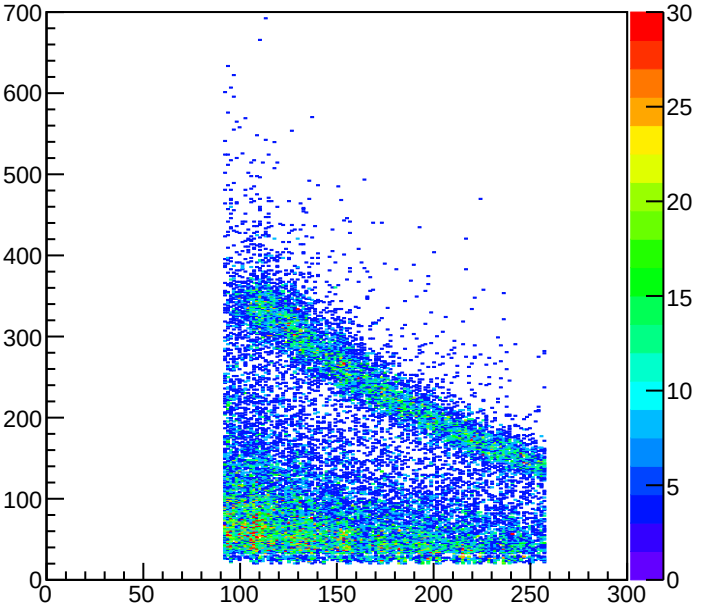


ECAL_RggVsEgg_10ns3CoG




ECAL_RggVsEgg_10ns3CoG

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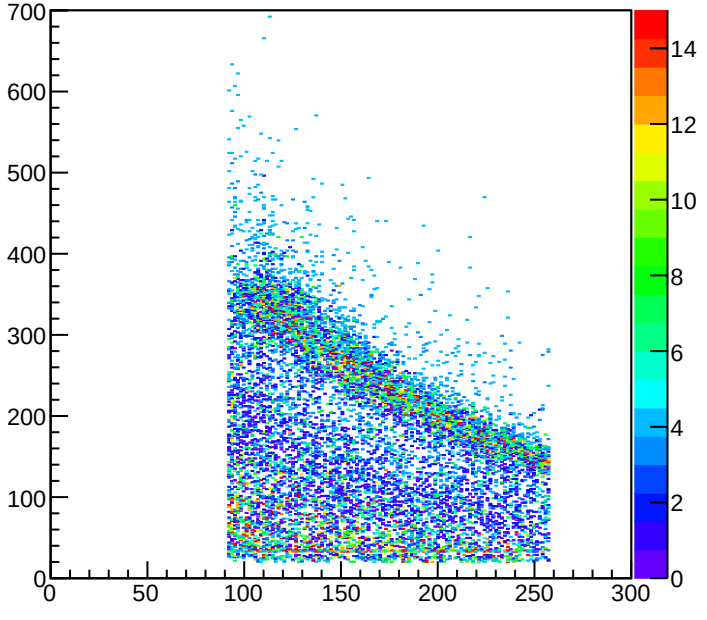


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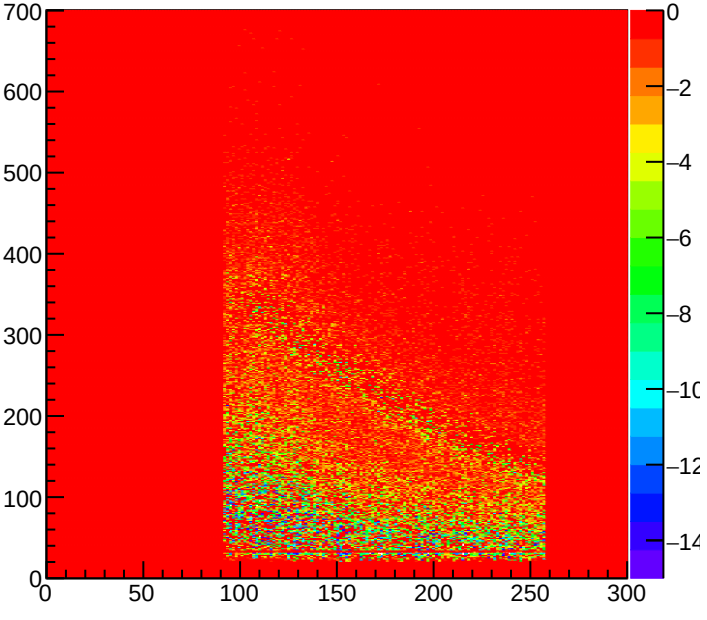

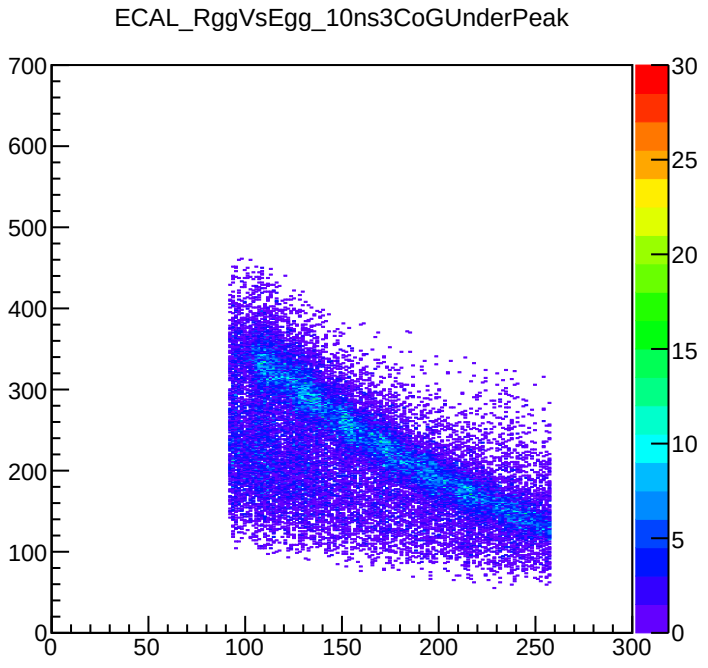
ECAL_RggVsEgg_10ns3CoGUnderPeak
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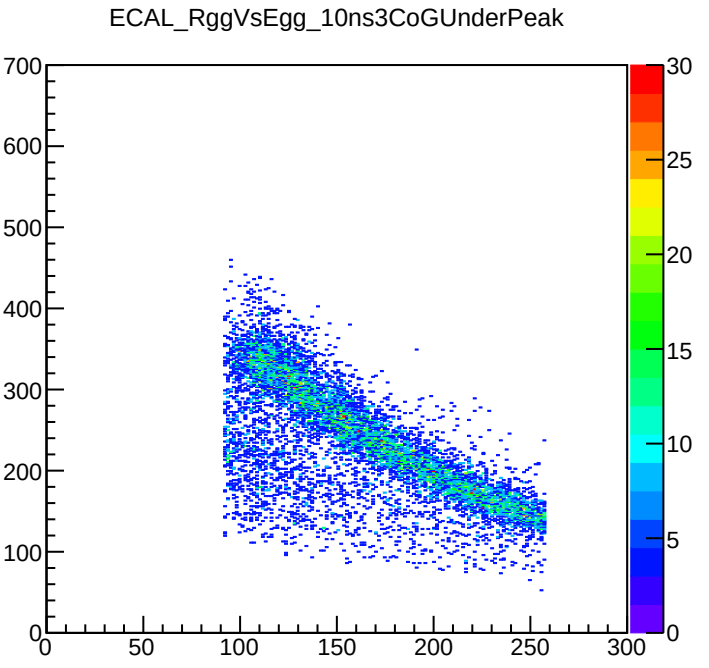
ECAL_RggVsEgg_10ns3CoGUnderPeak
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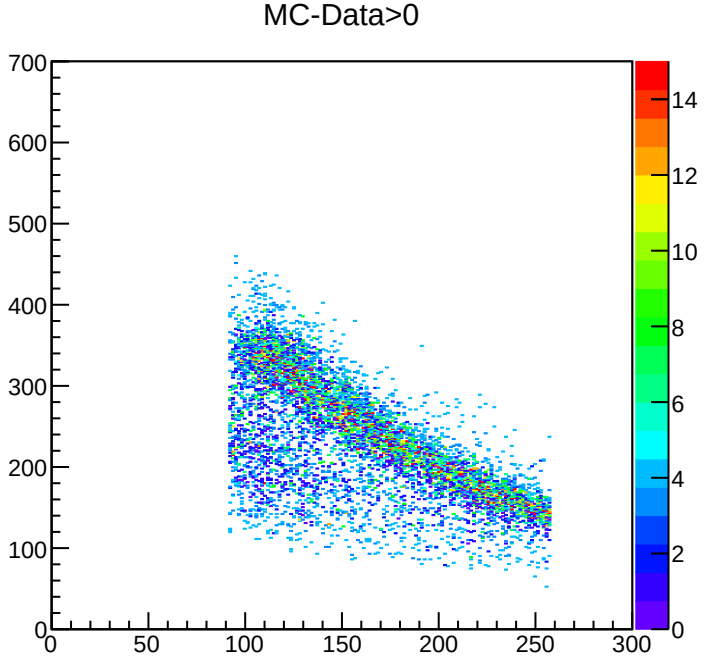
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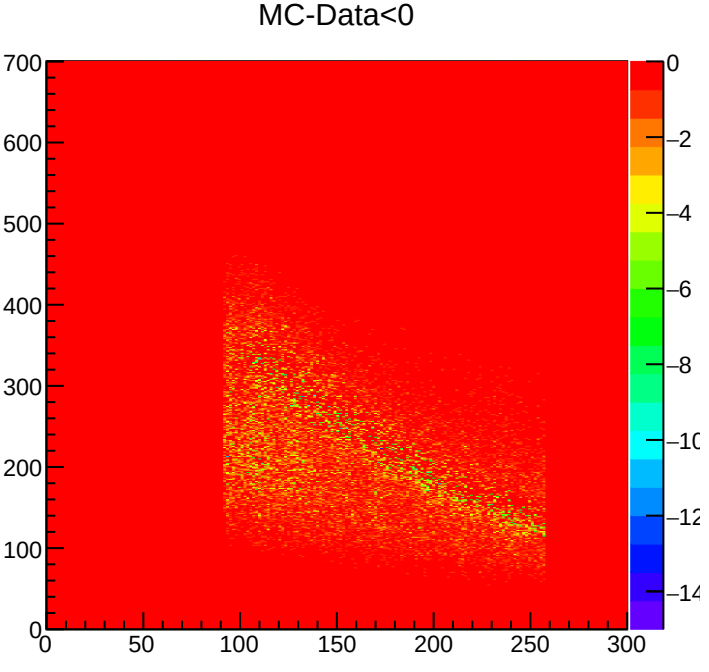
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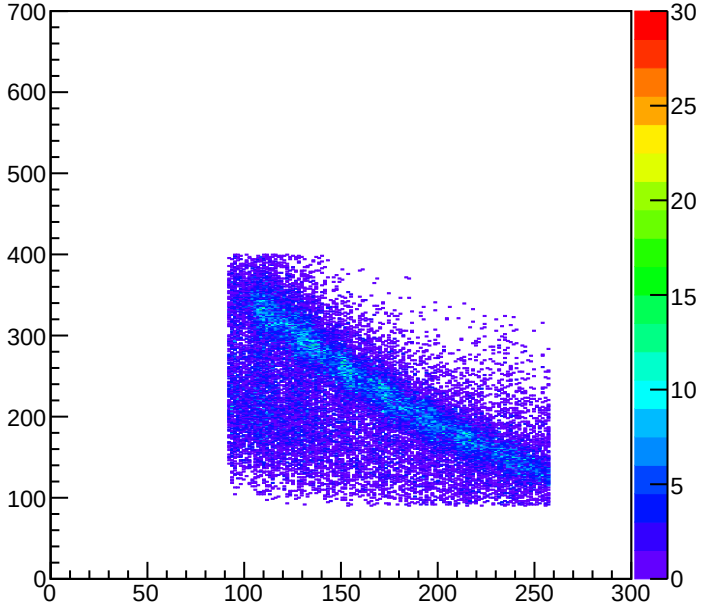
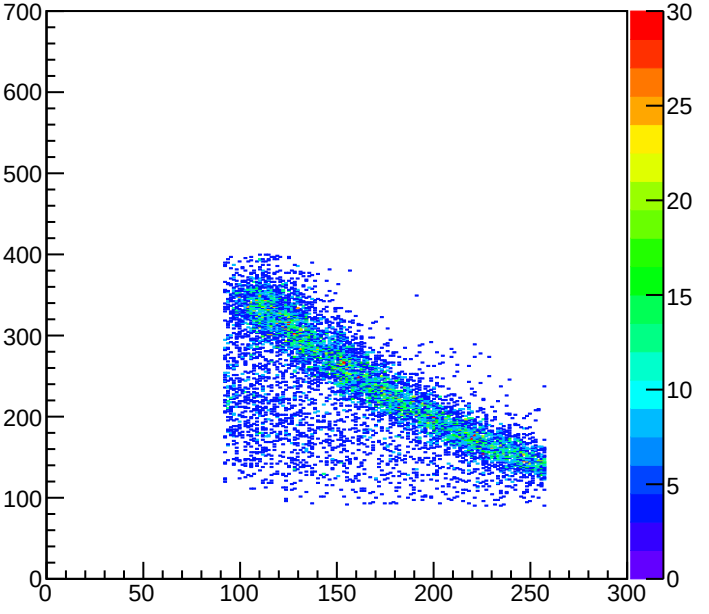
ECAL_RggVsEgg_10ns3CoGUnderPeakEThr90




ECAL_RggVsEgg_10ns3CoGUnderPeakEThr90

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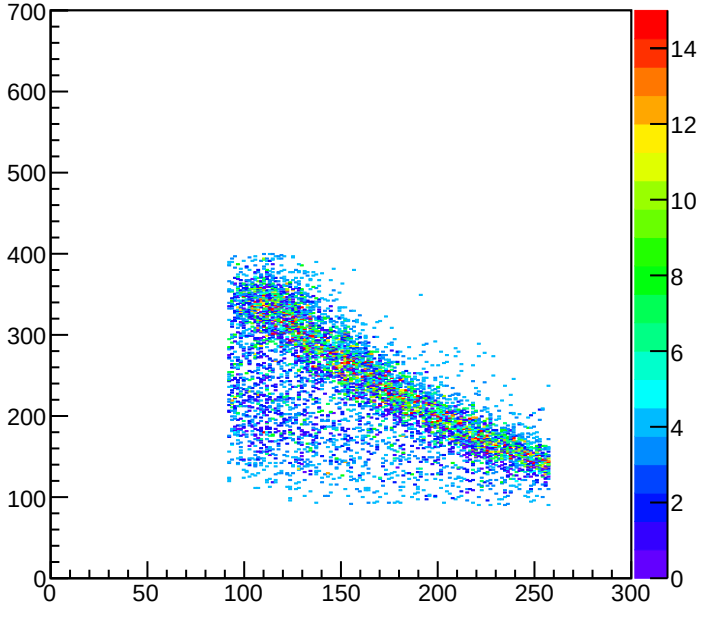


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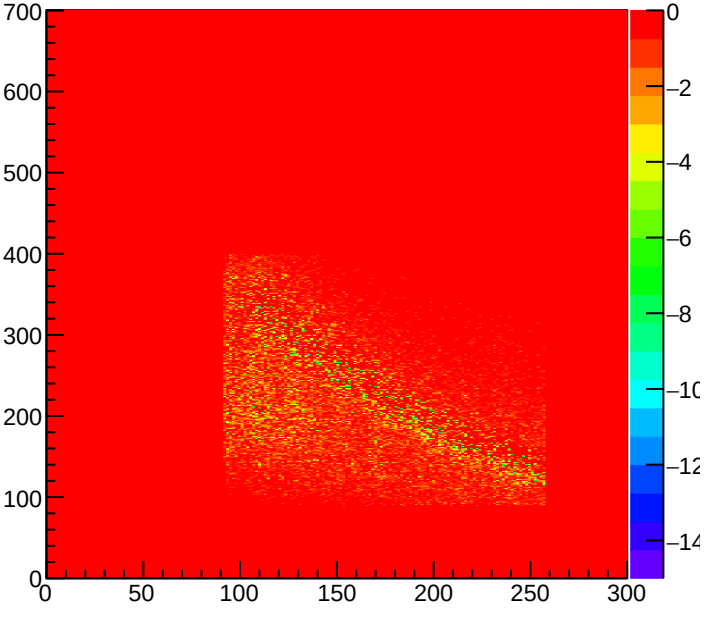

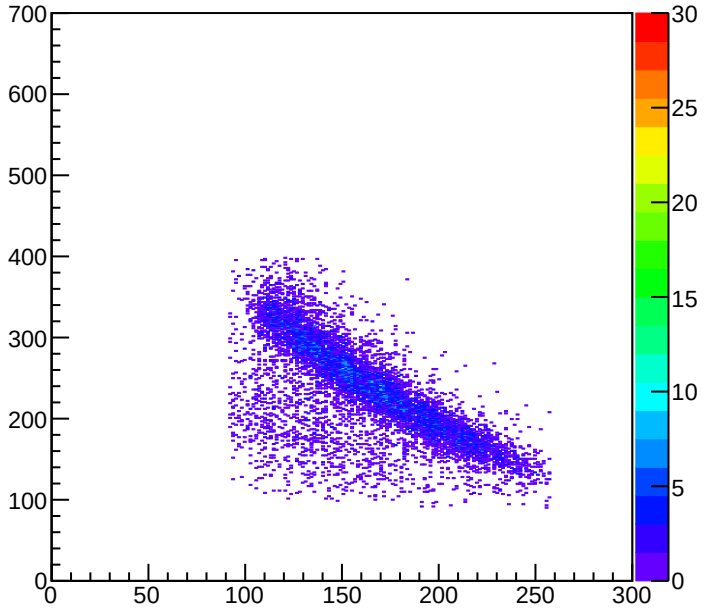
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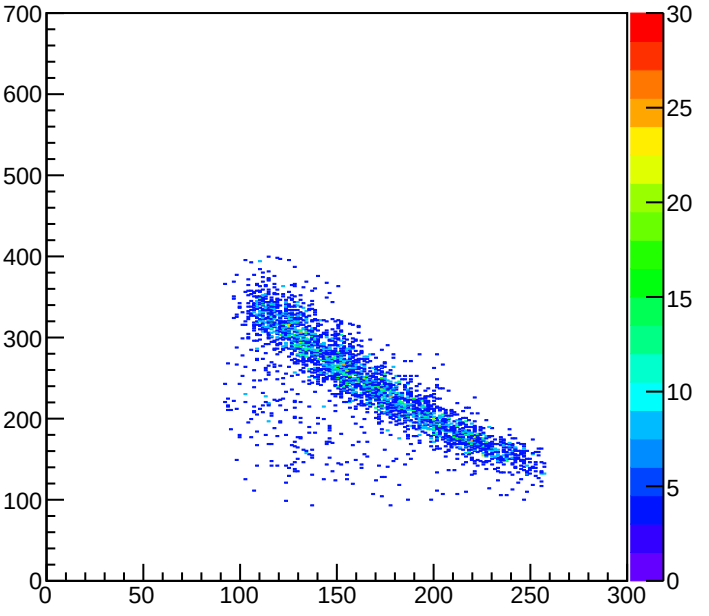
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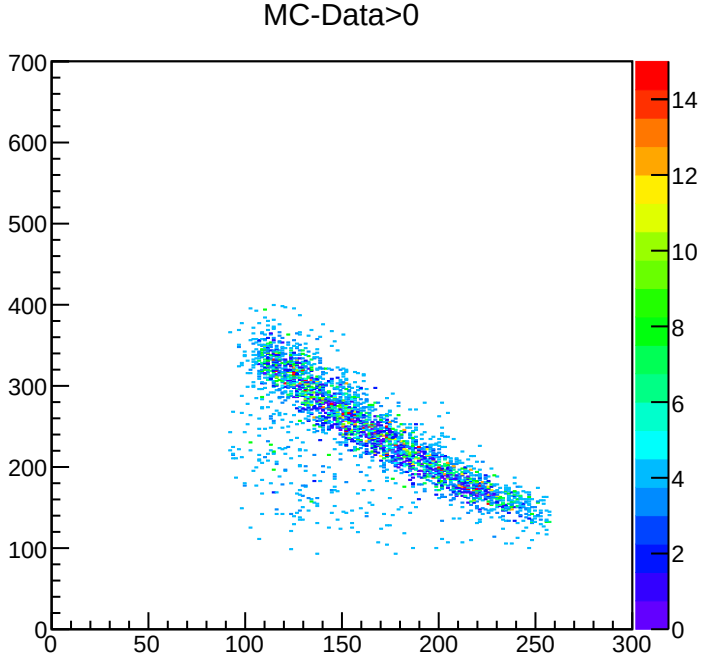
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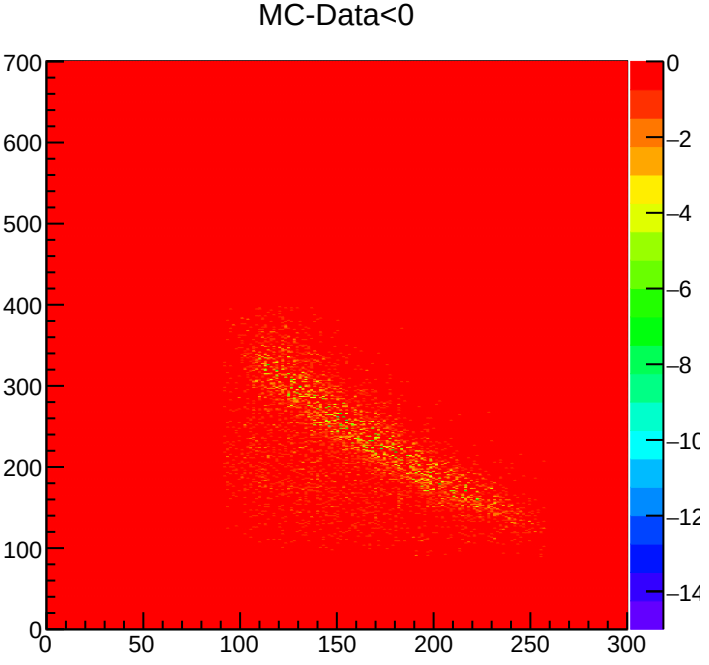
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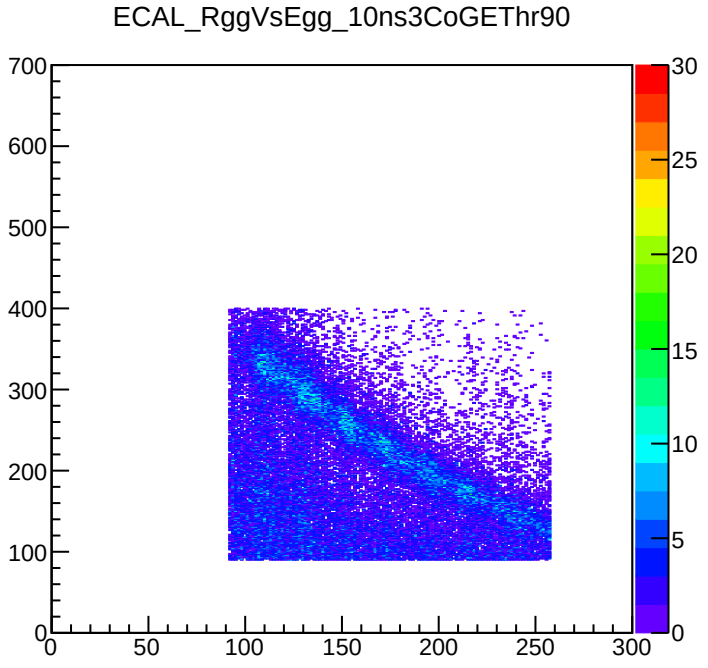
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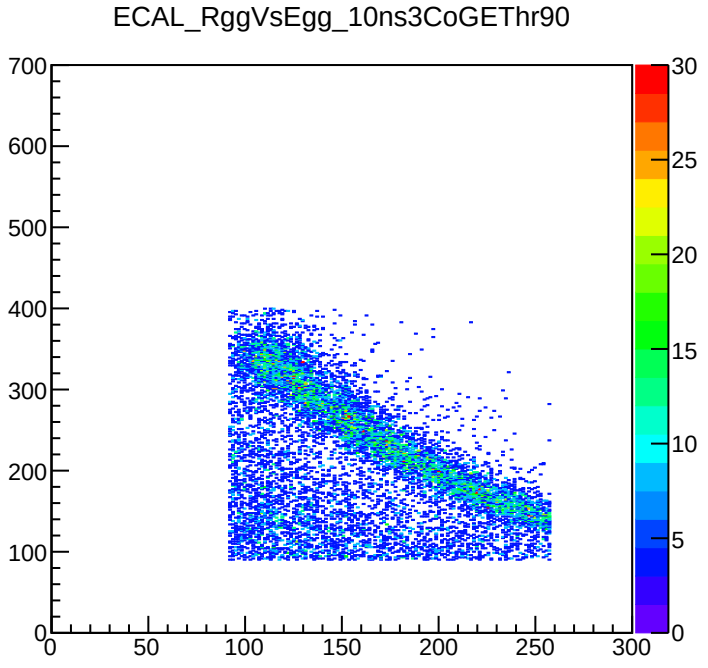
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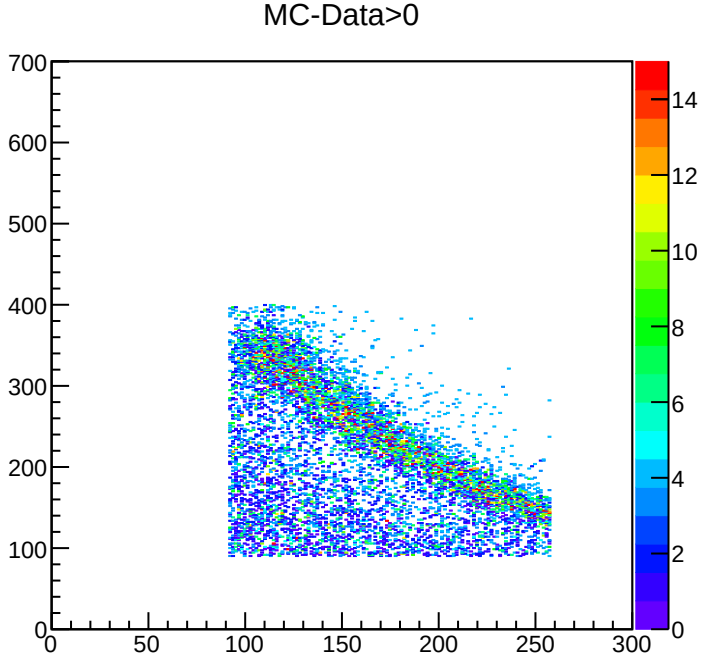
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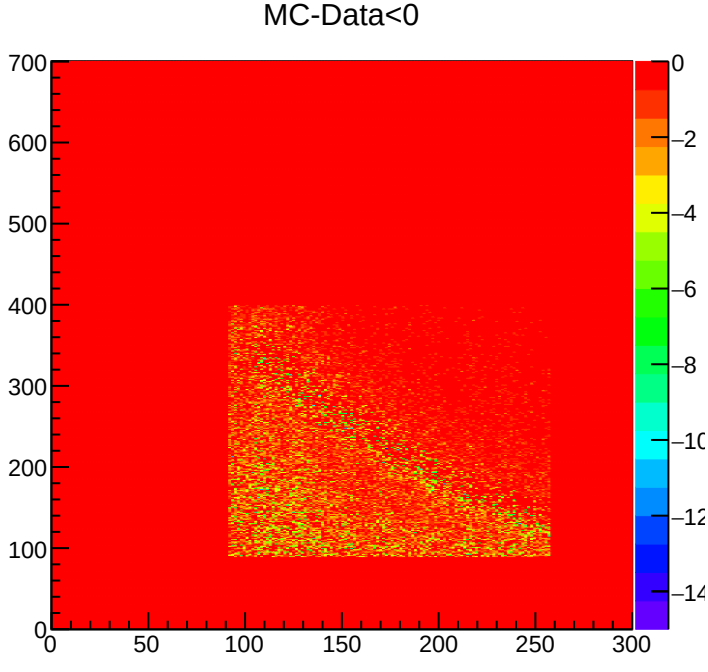
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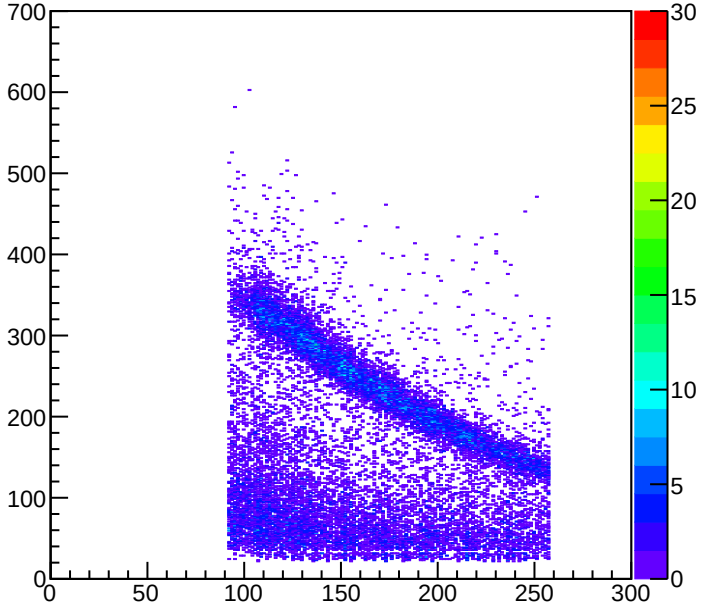


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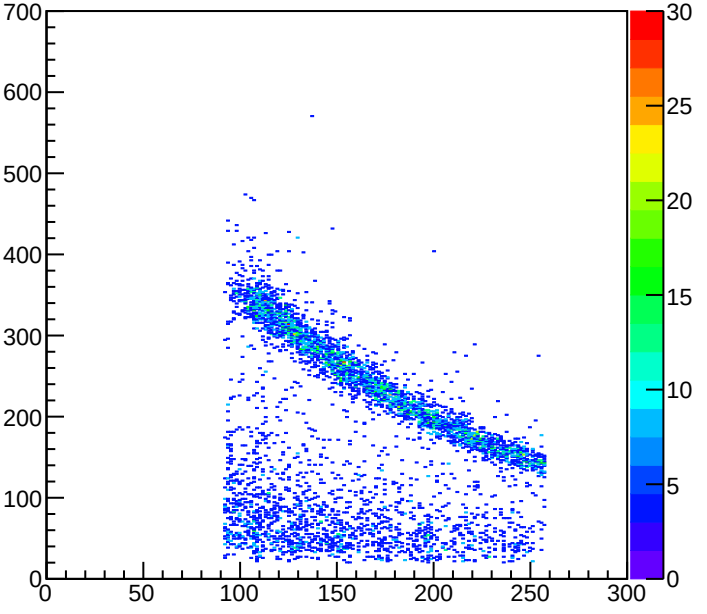


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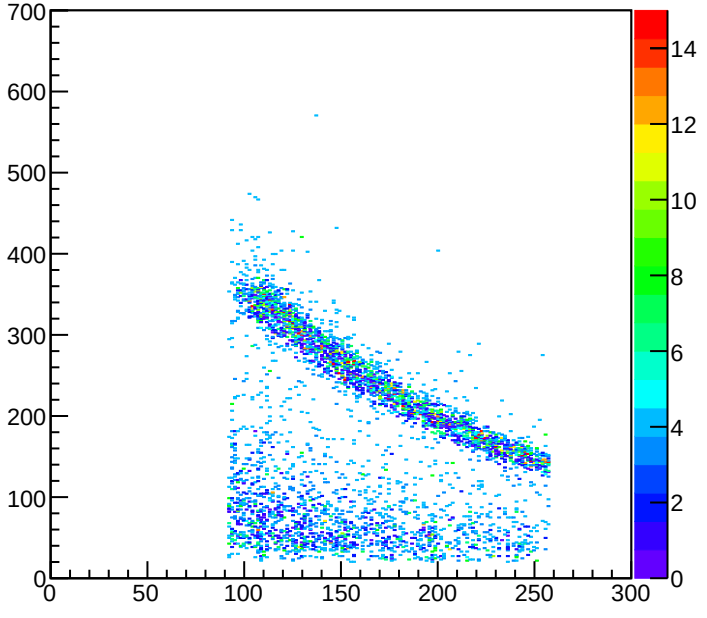


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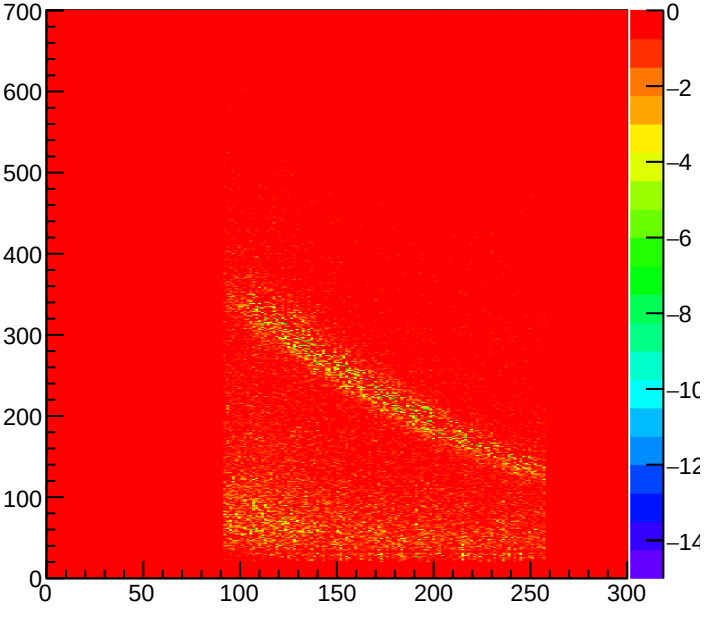

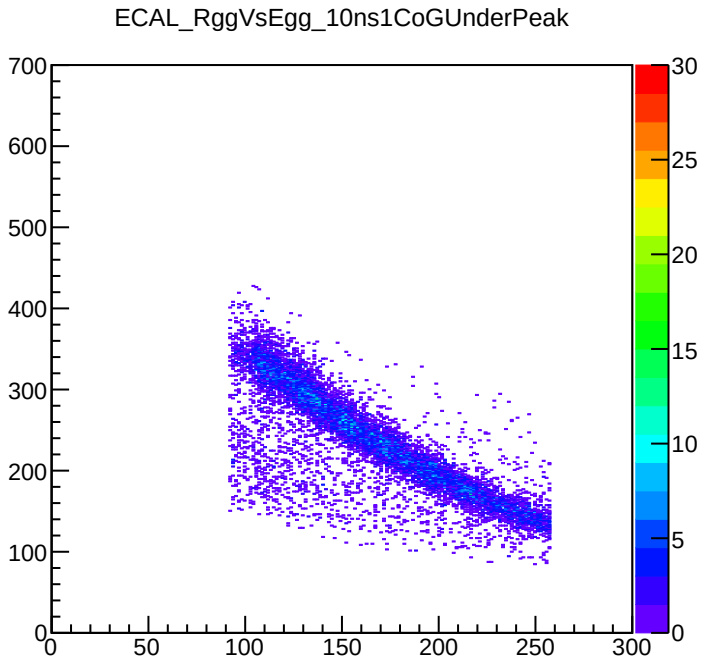
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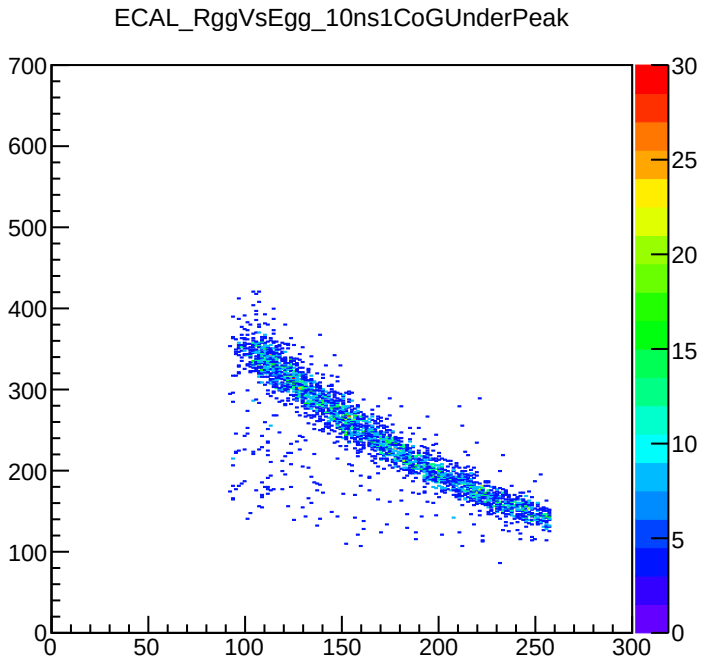
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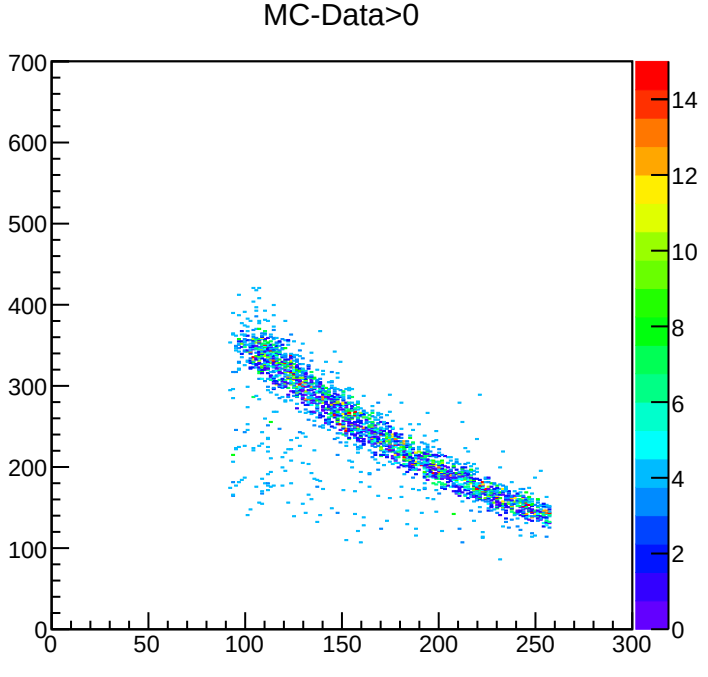
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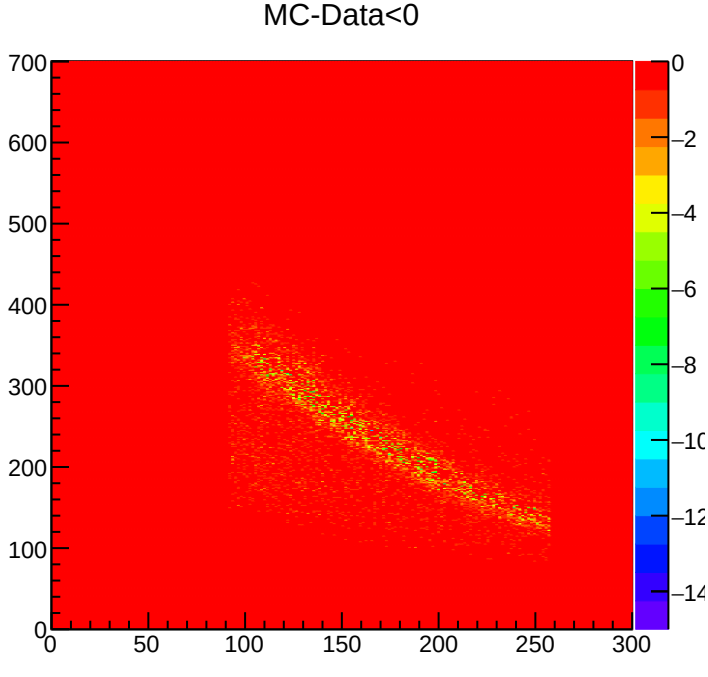
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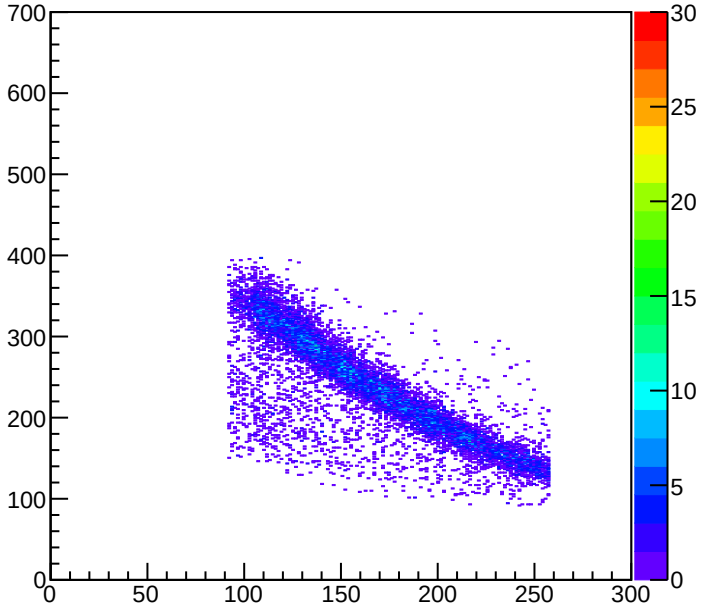


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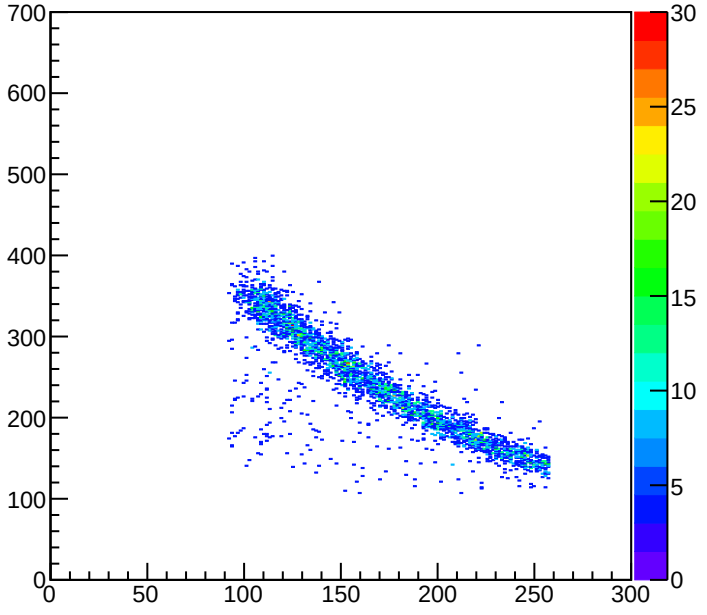


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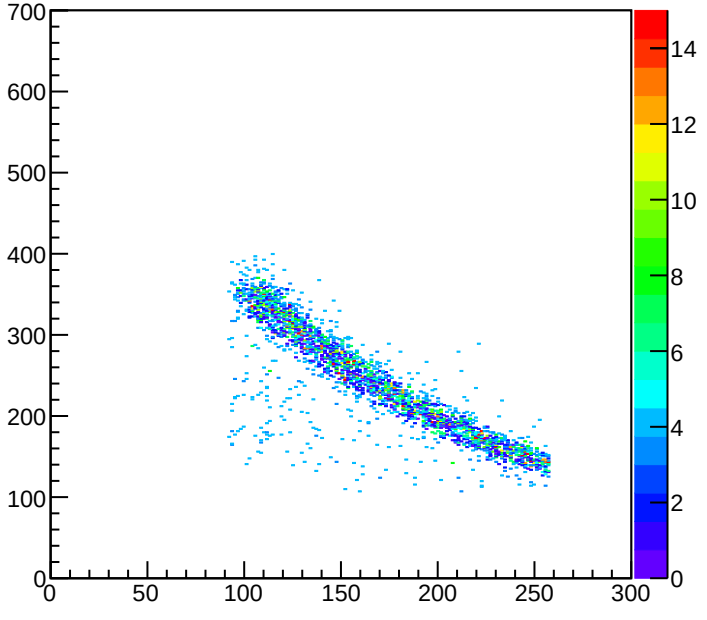


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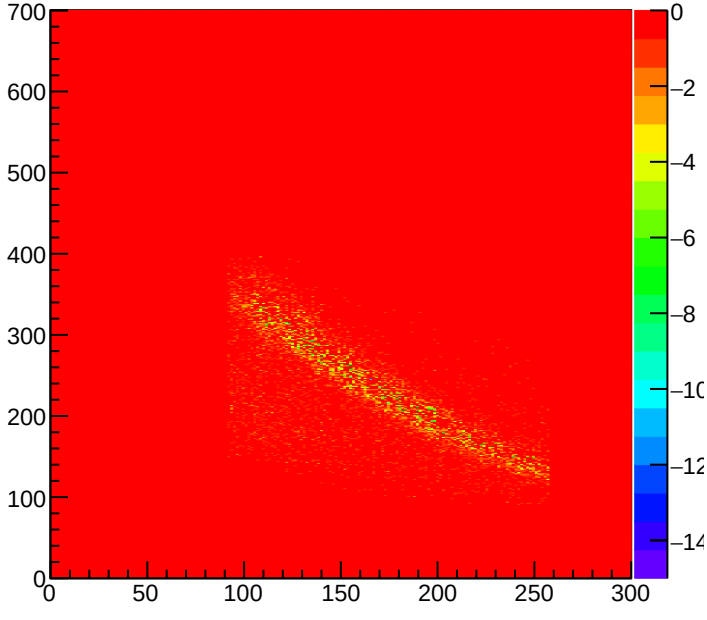

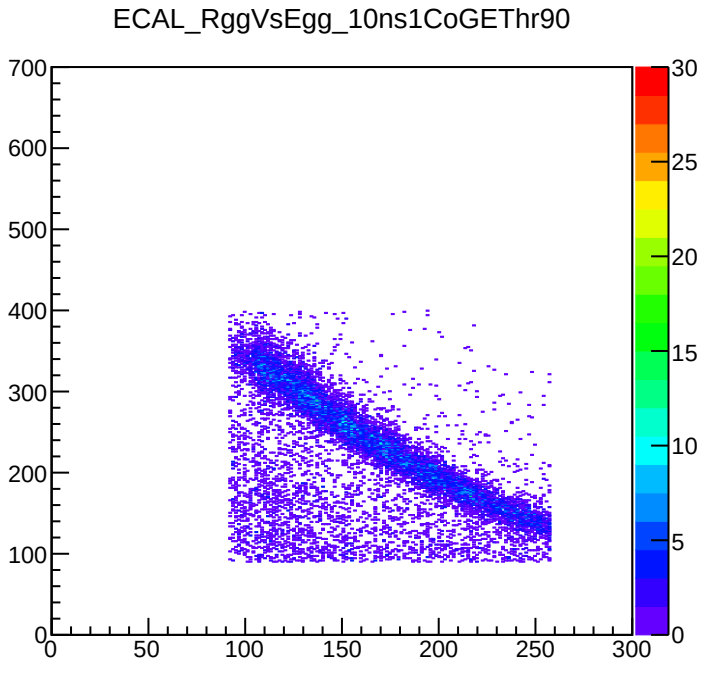
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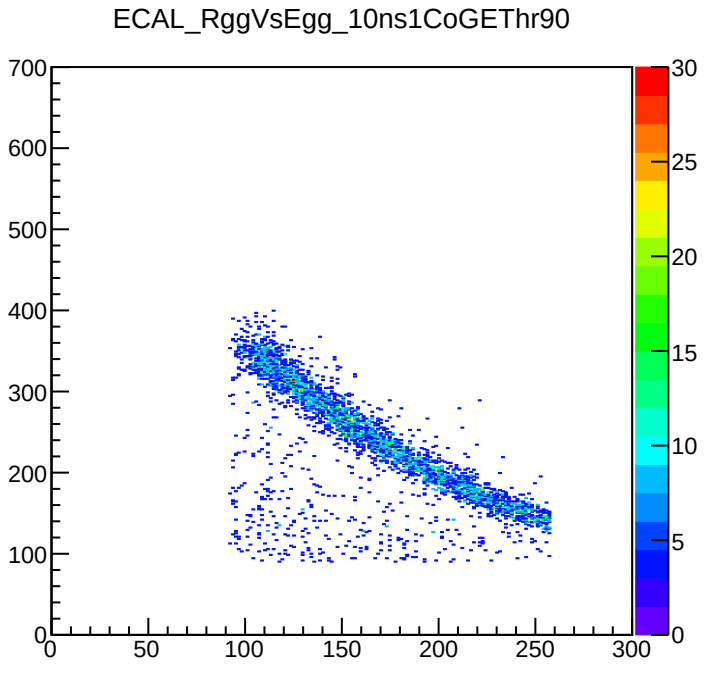
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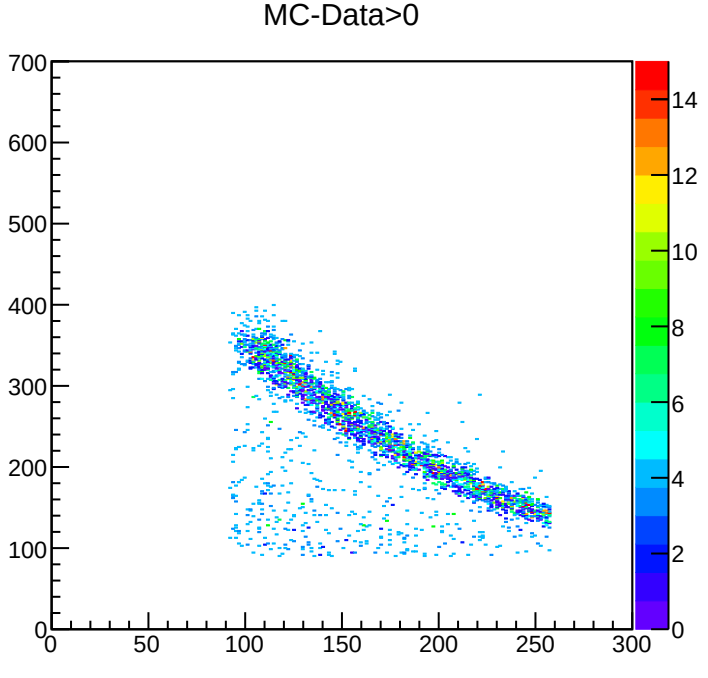
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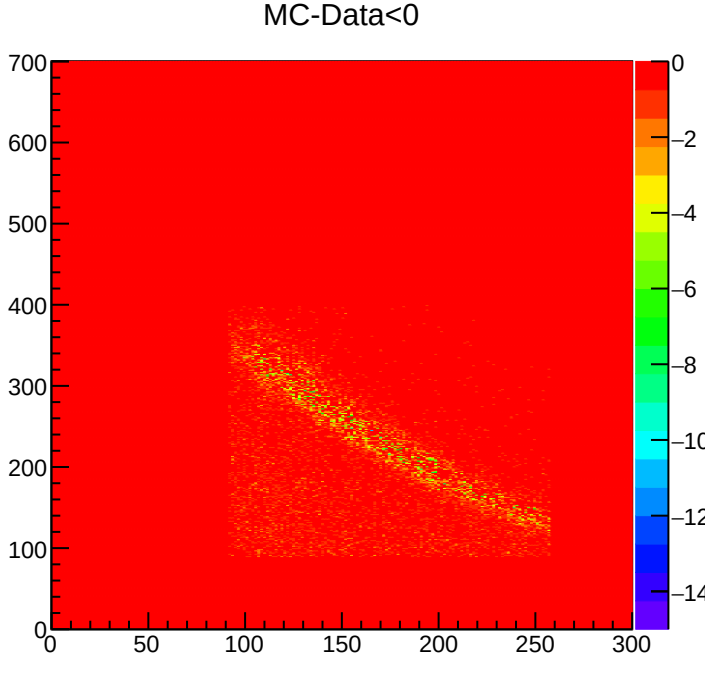
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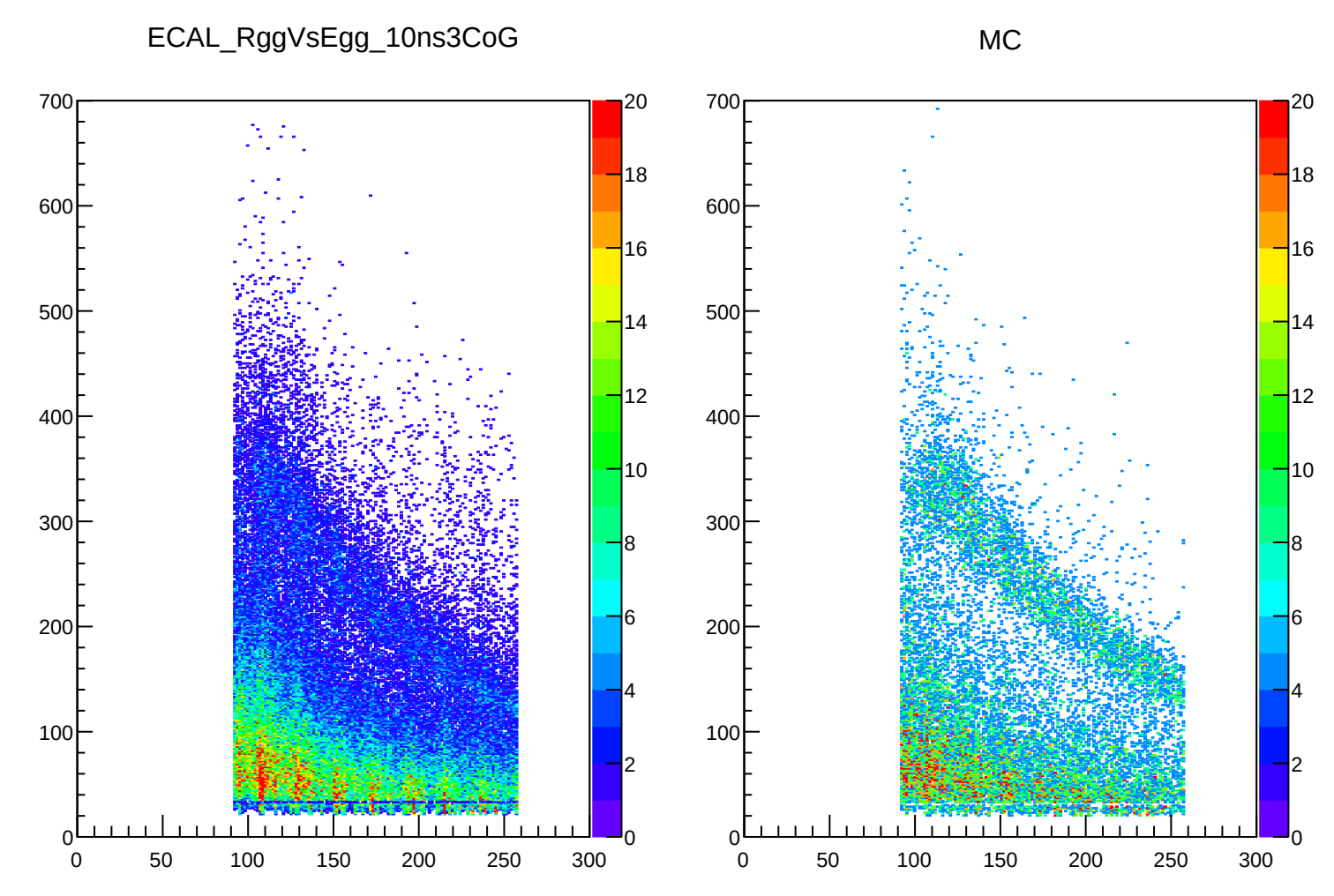
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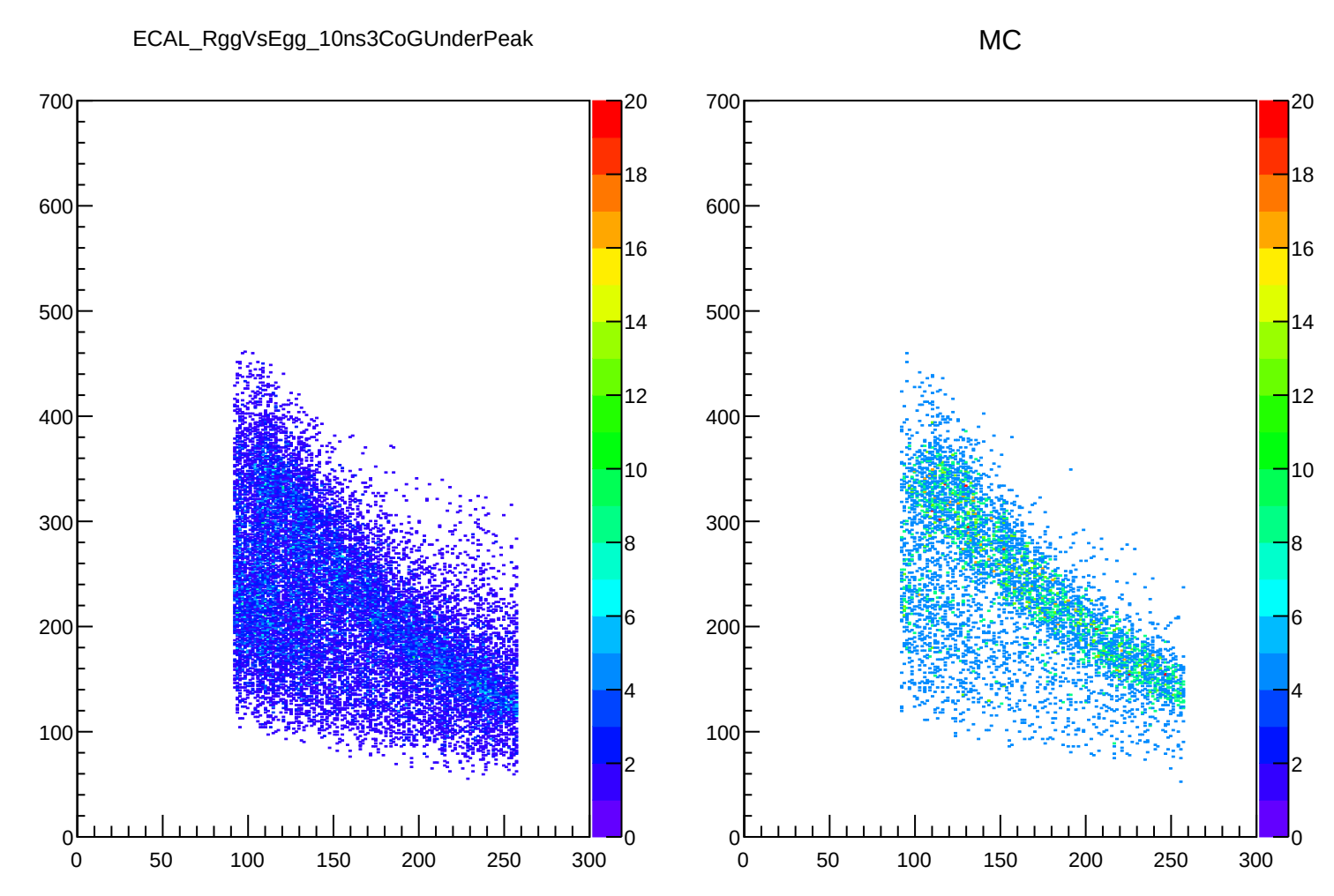
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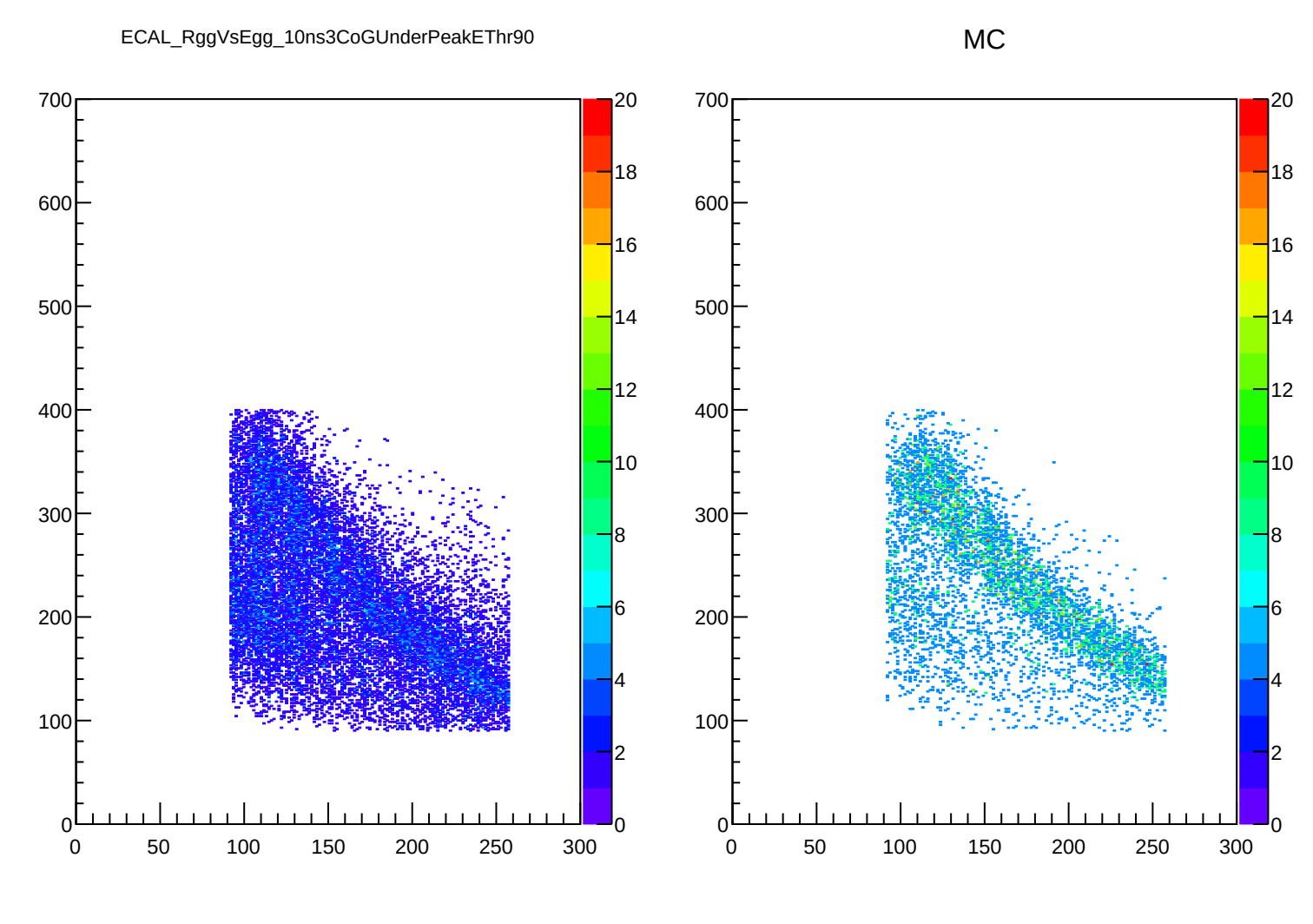
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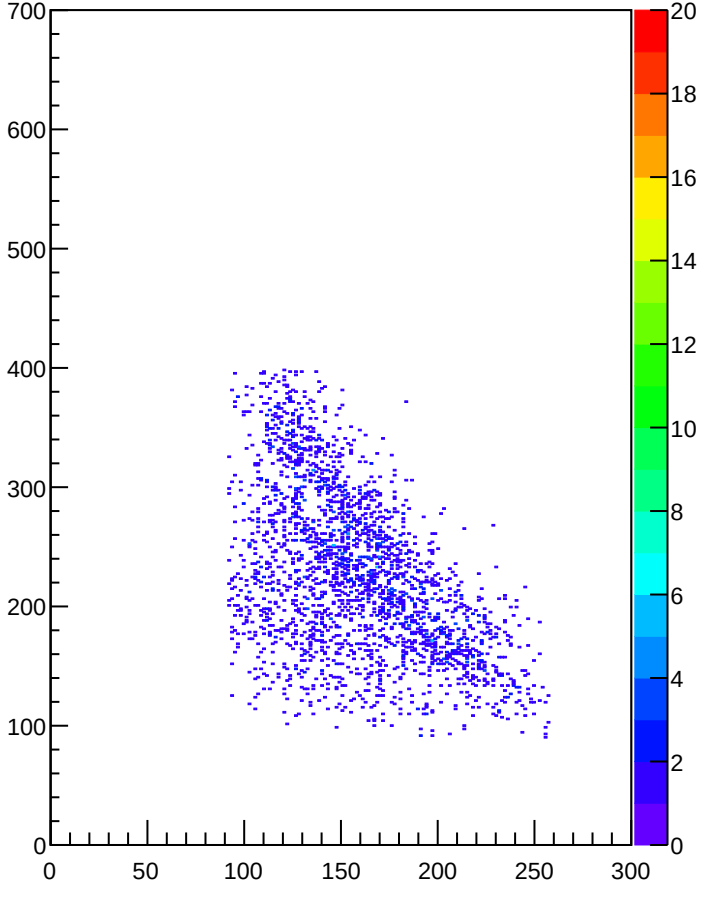


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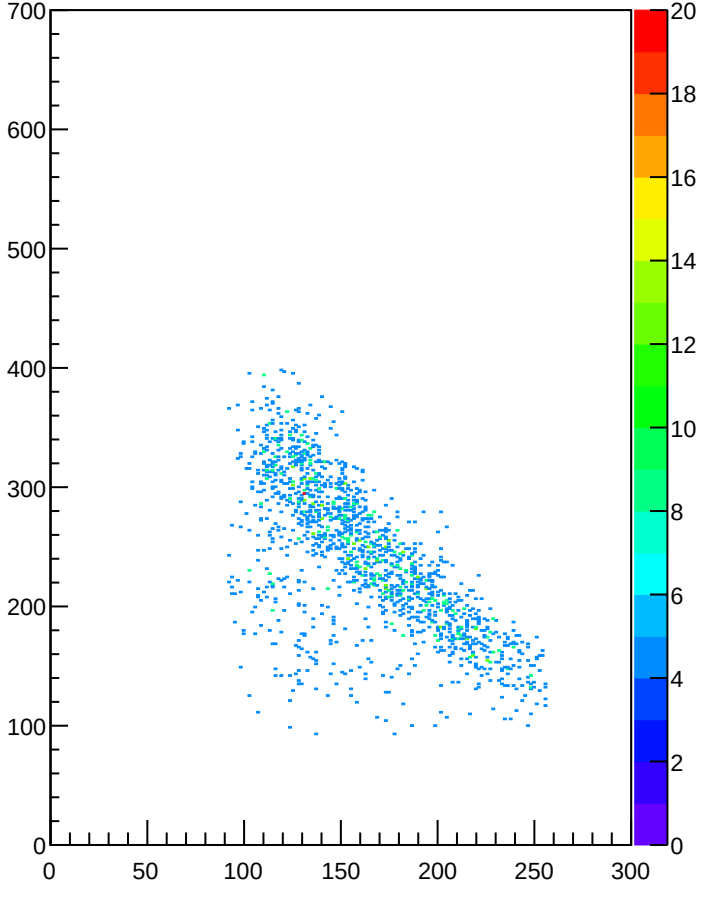

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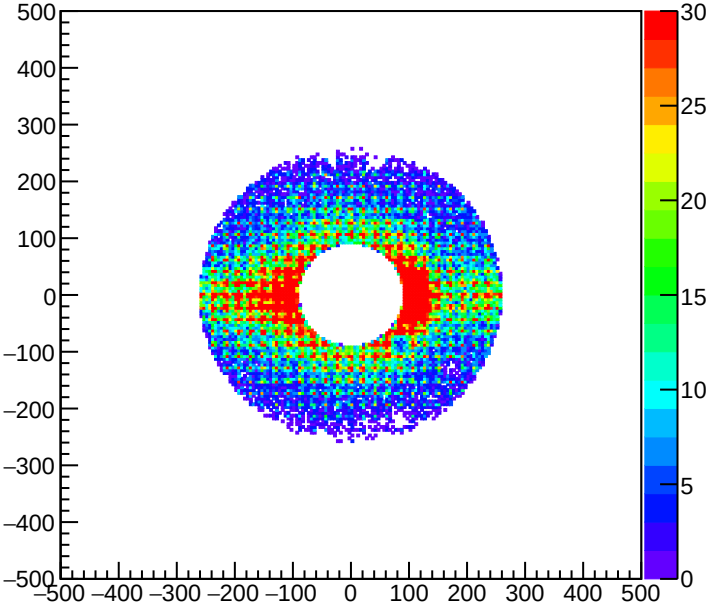


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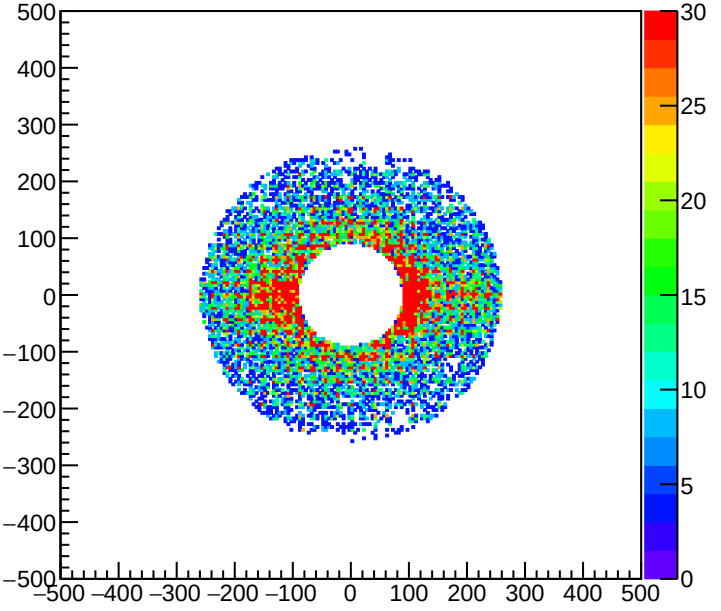


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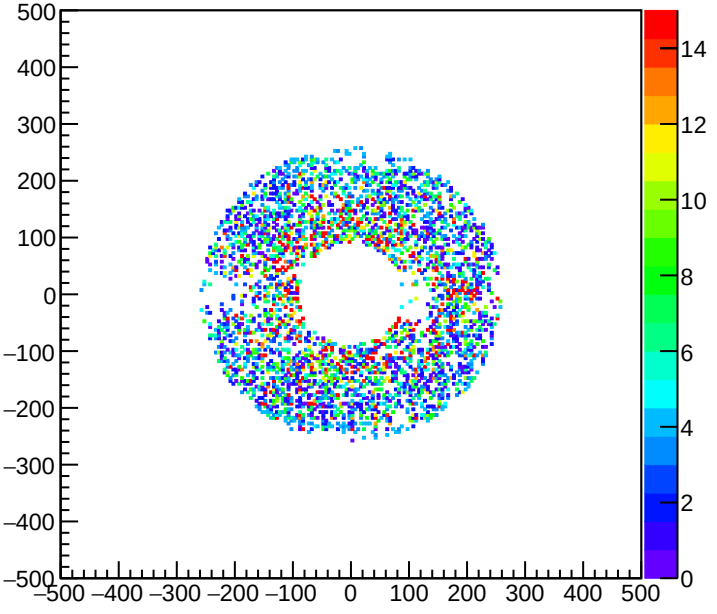


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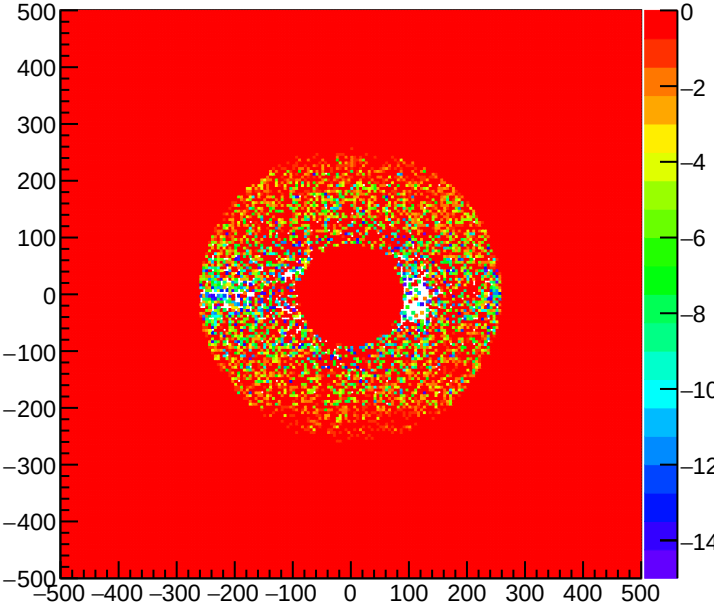

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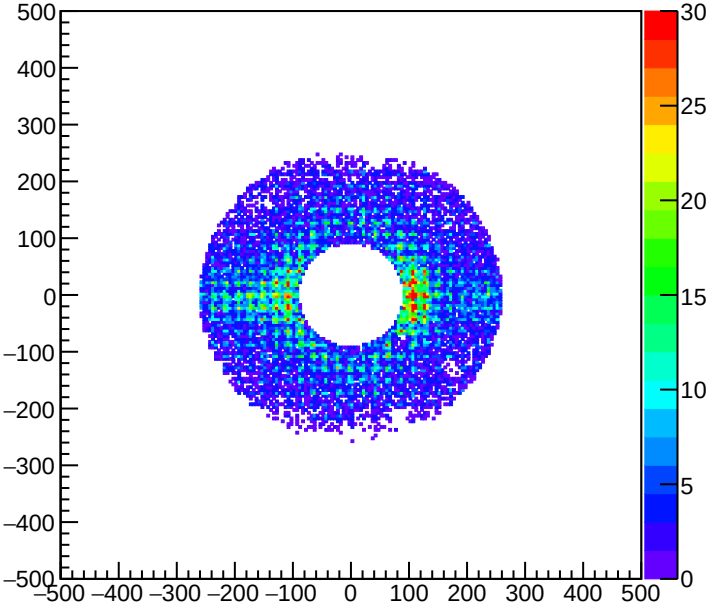


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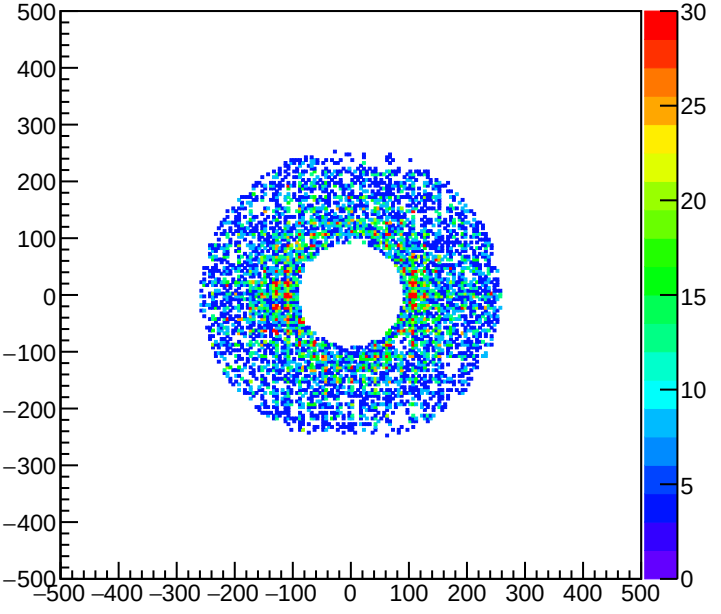


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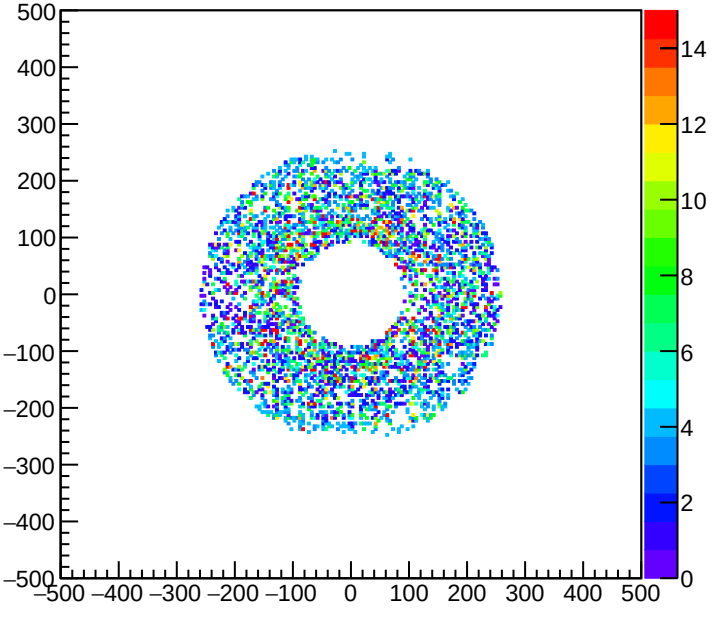


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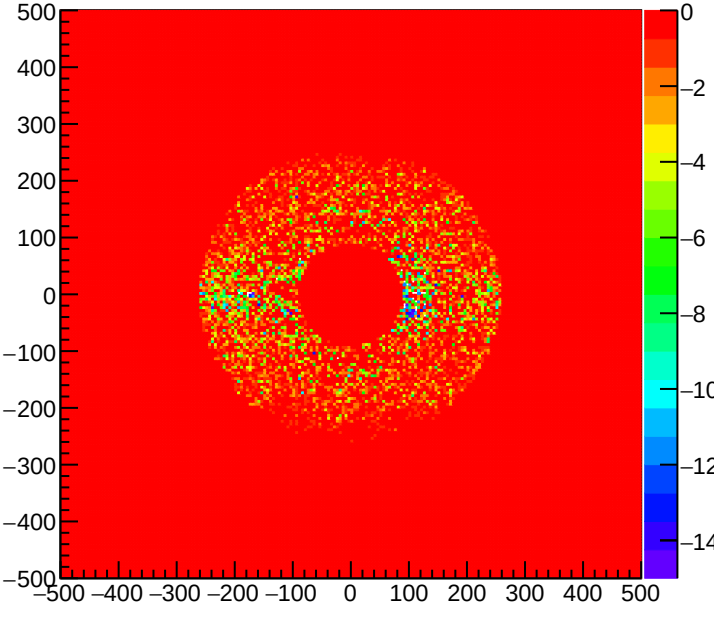

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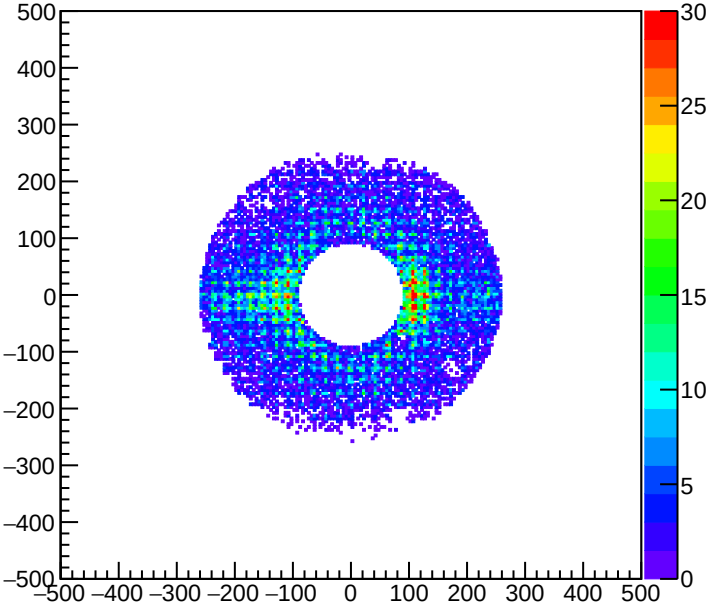


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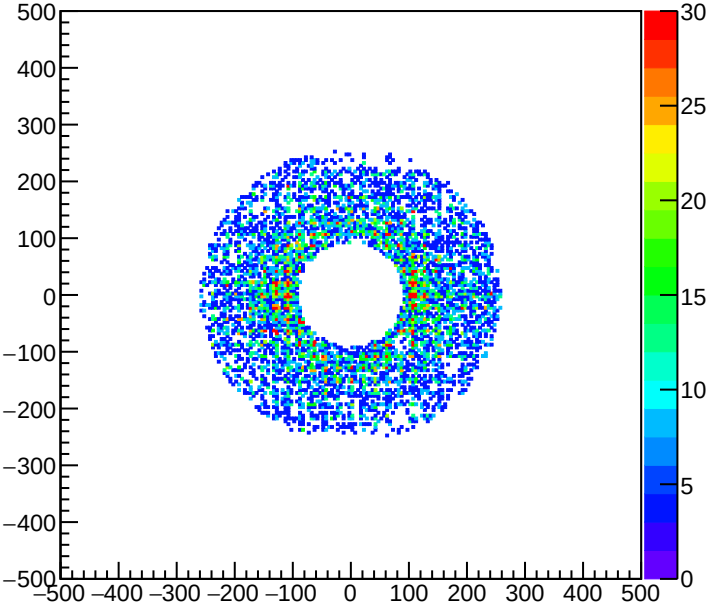


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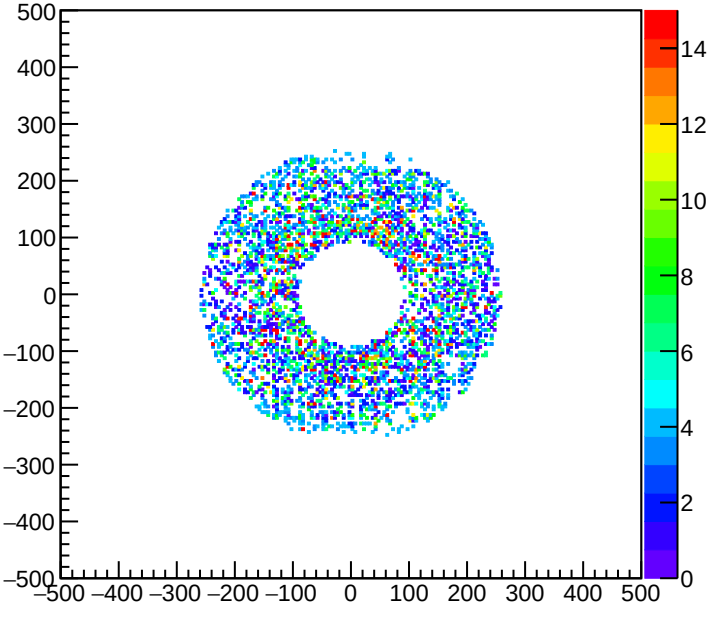


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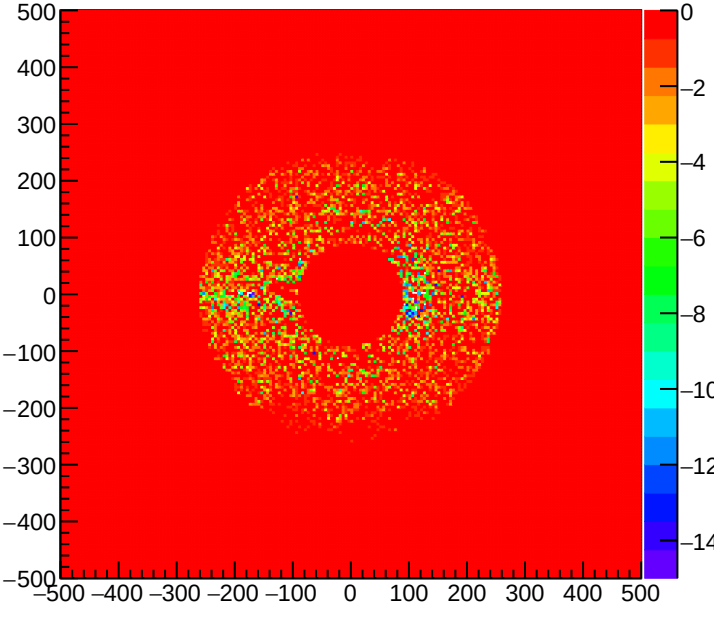

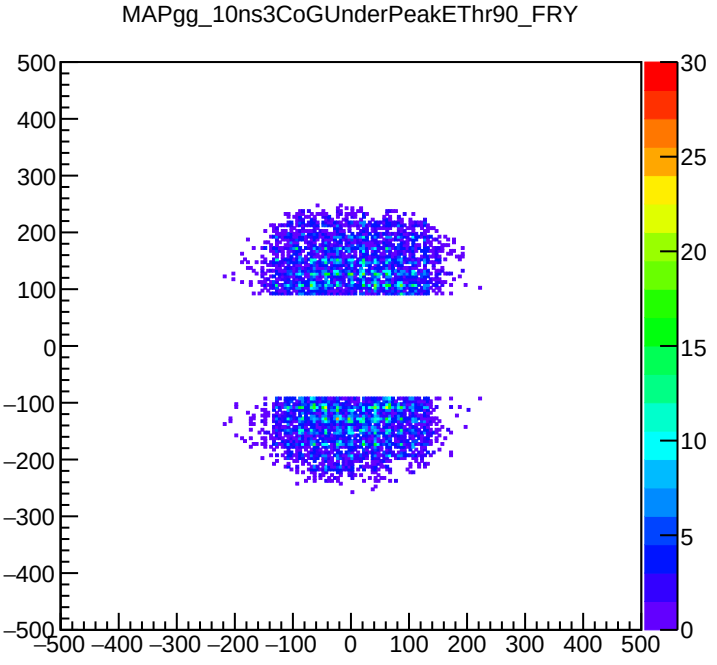
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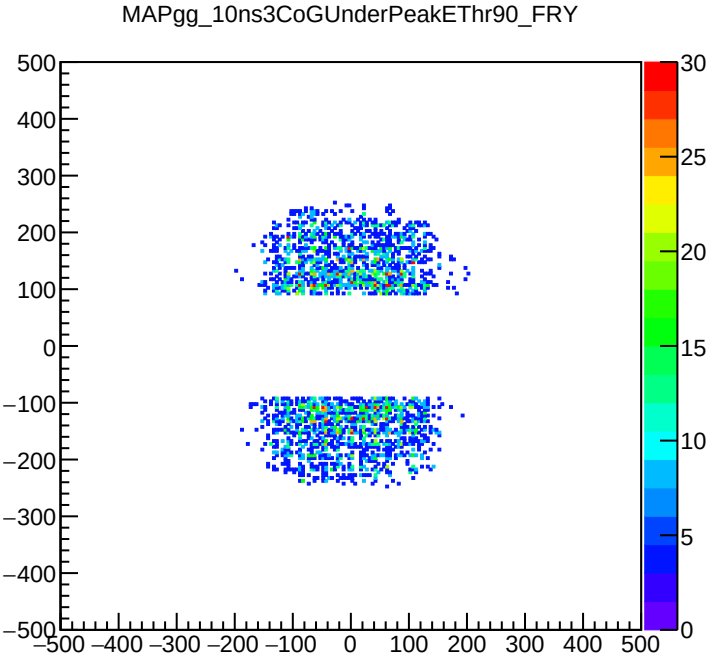
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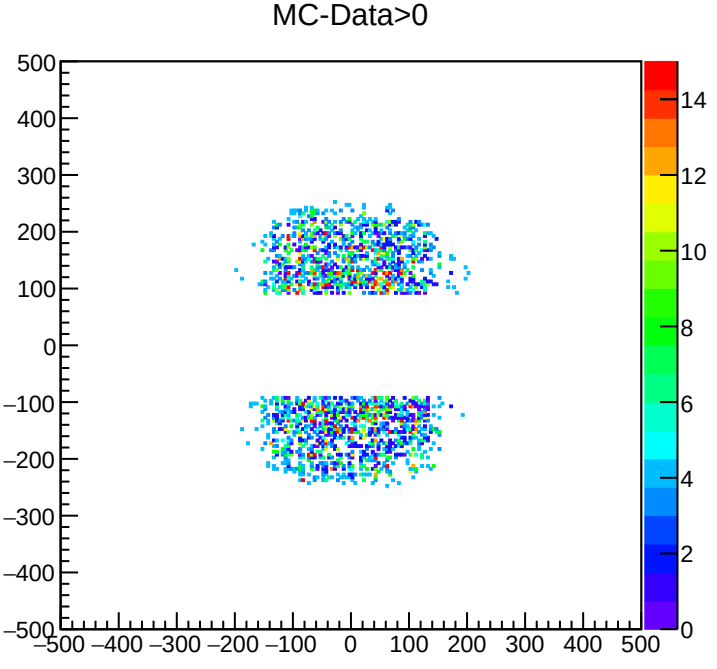
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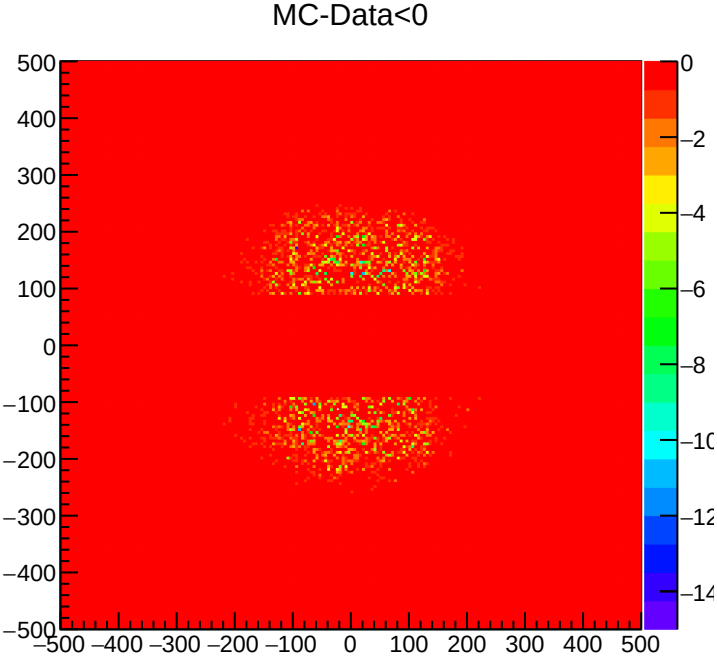
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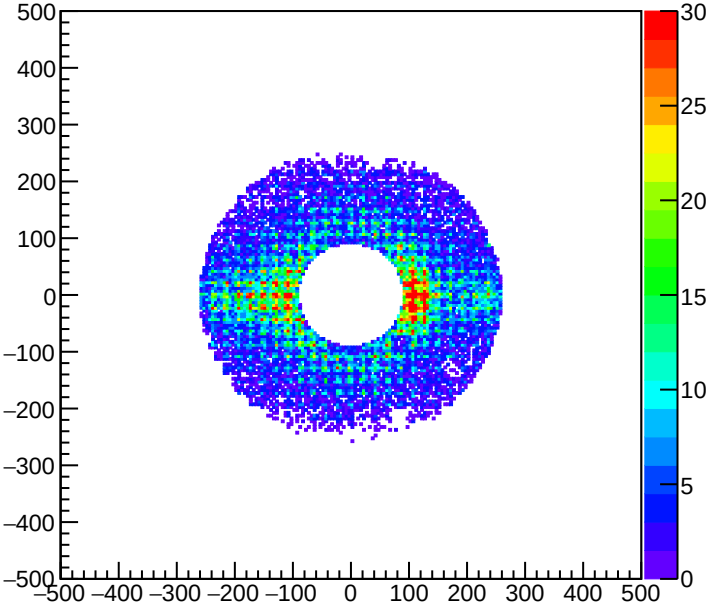


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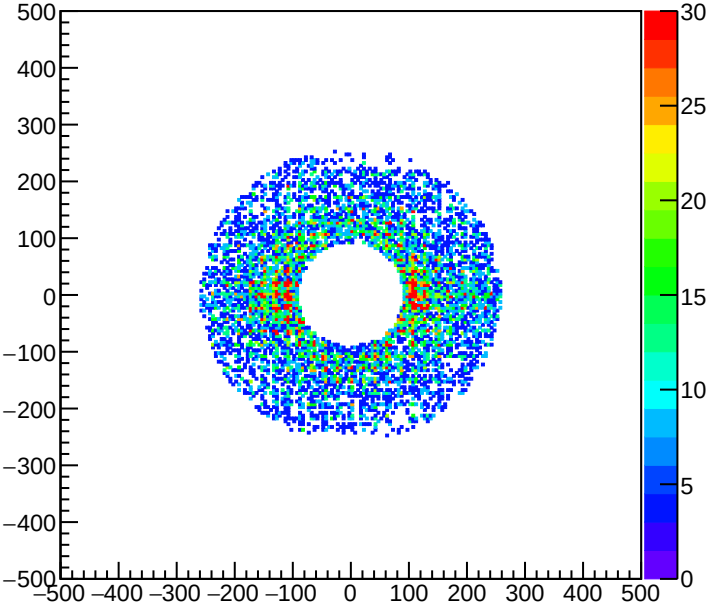


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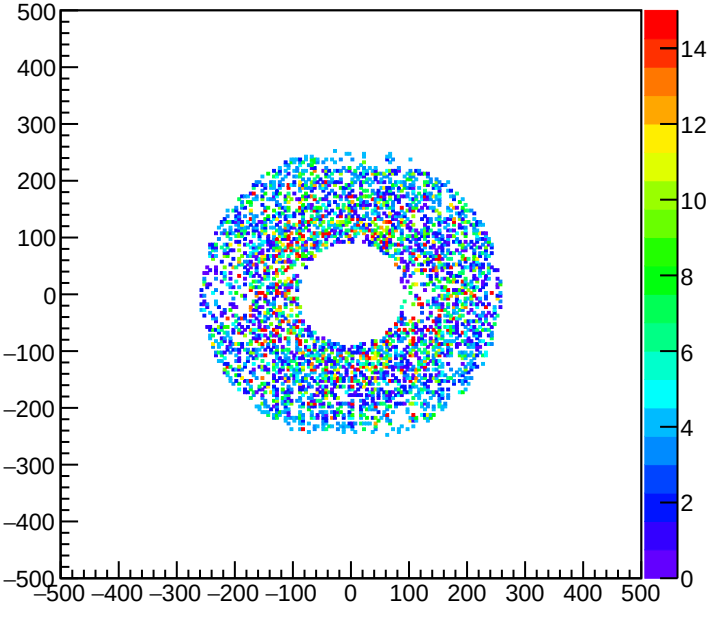


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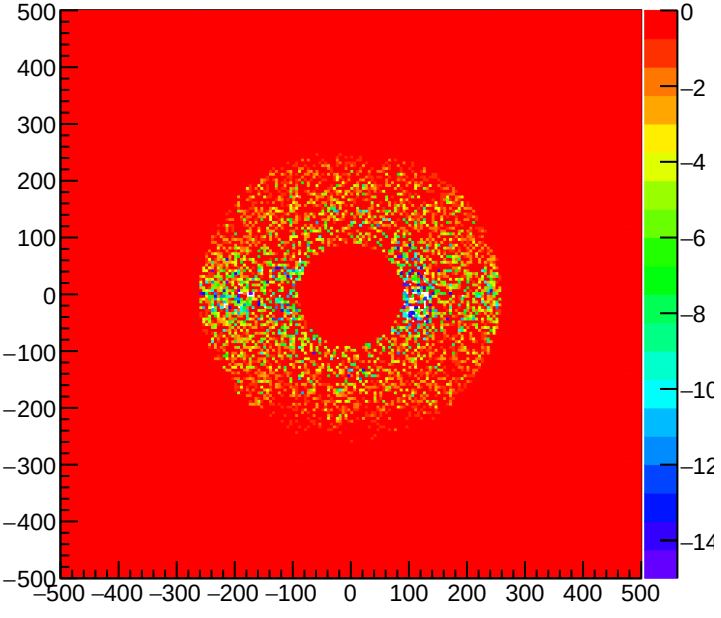

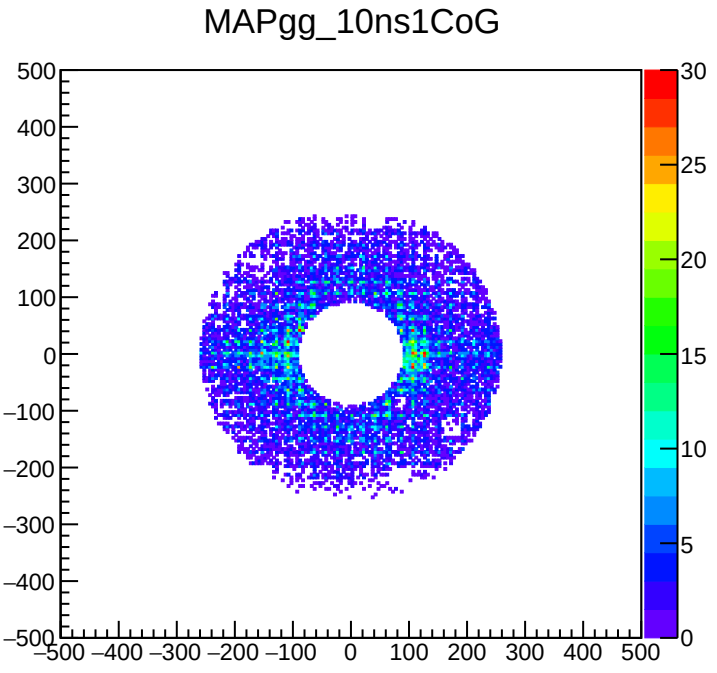
MAPgg_10ns1CoG
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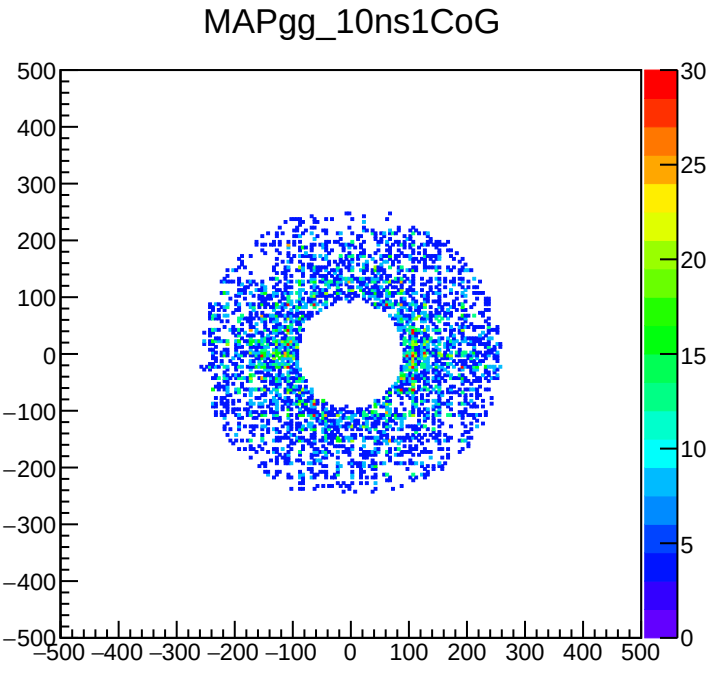
MAPgg_10ns1CoG
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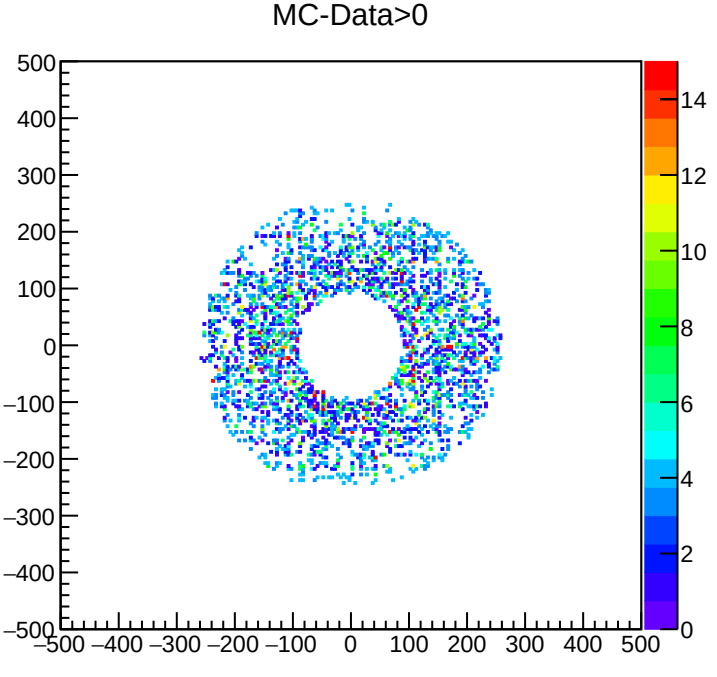
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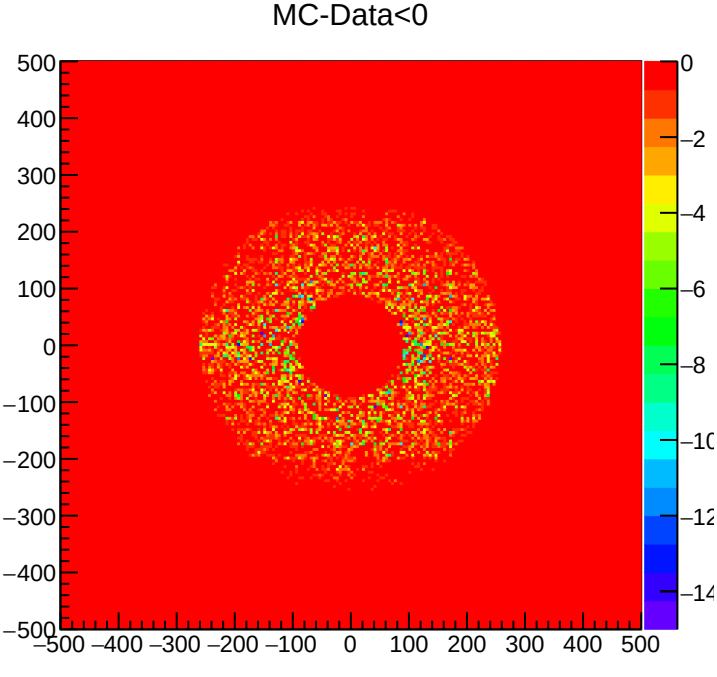
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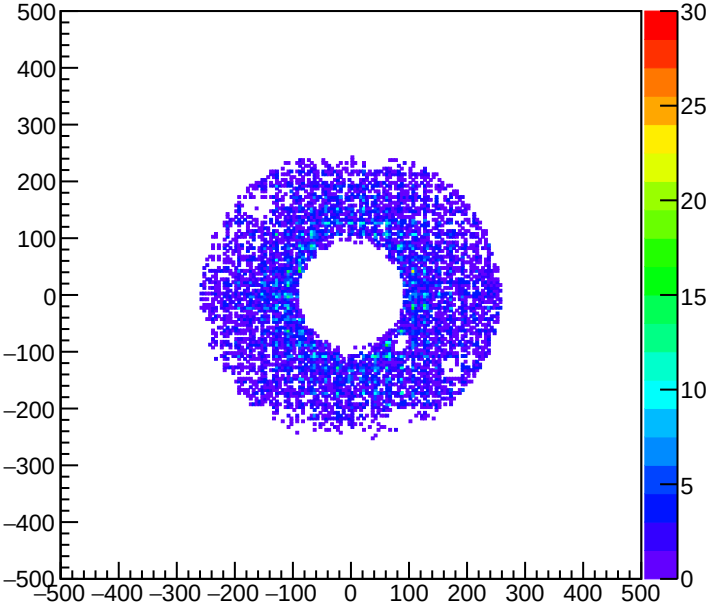
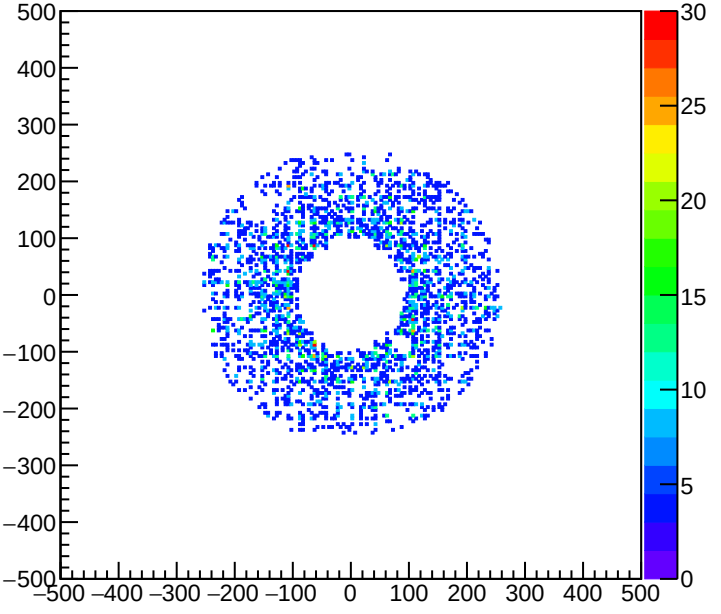
−14

MAPgg_10ns1CoGUnderPeak




MAPgg_10ns1CoGUnderPeak

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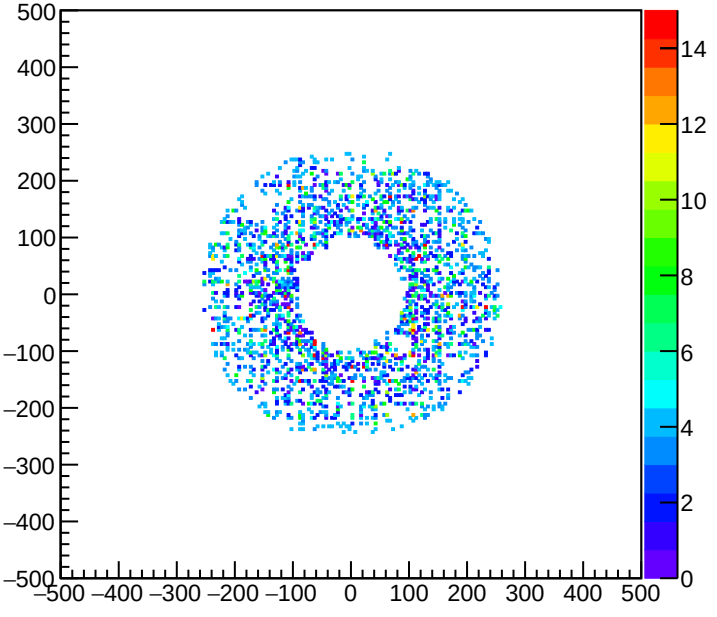


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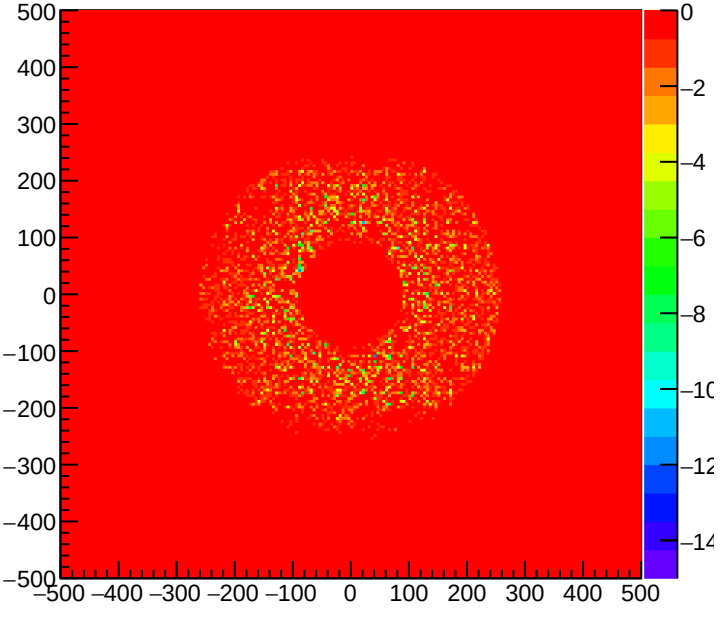
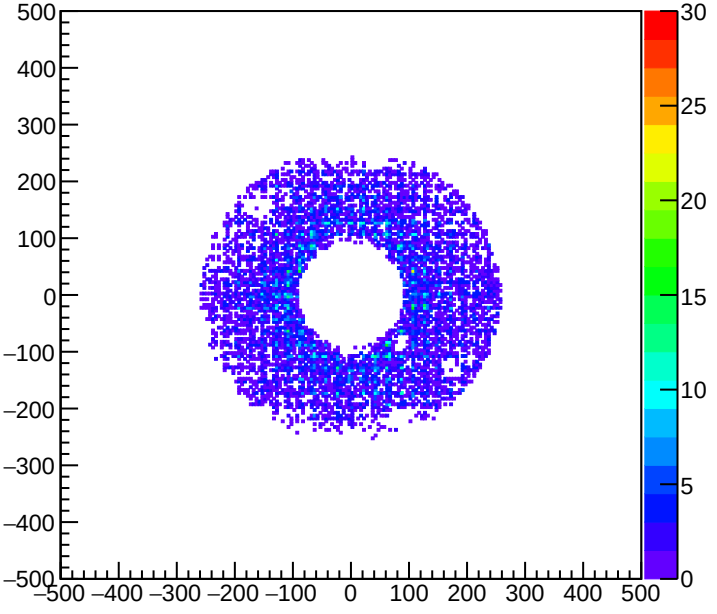
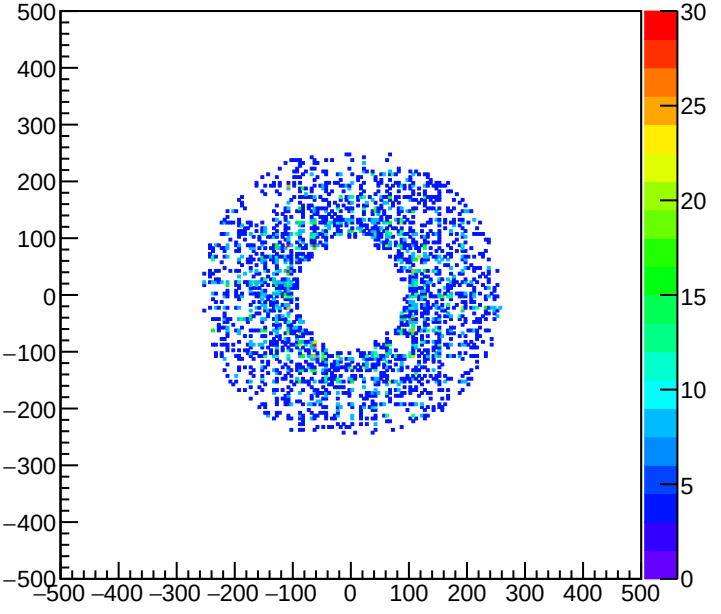


MAPgg_10ns1CoGUnderPeakEThr90




MAPgg_10ns1CoGUnderPeakEThr90

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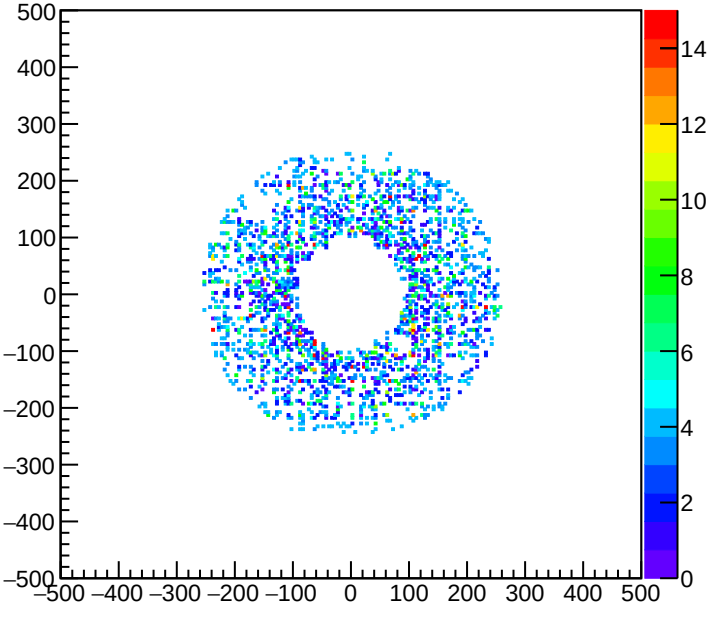


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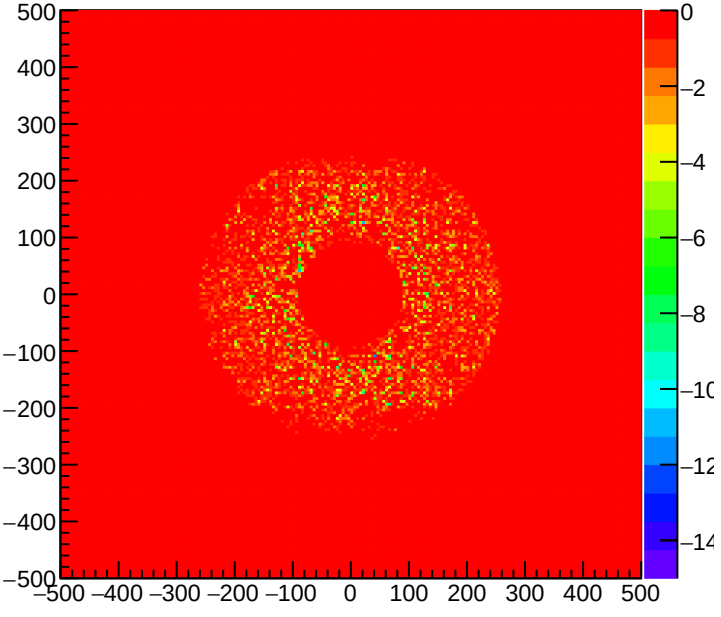

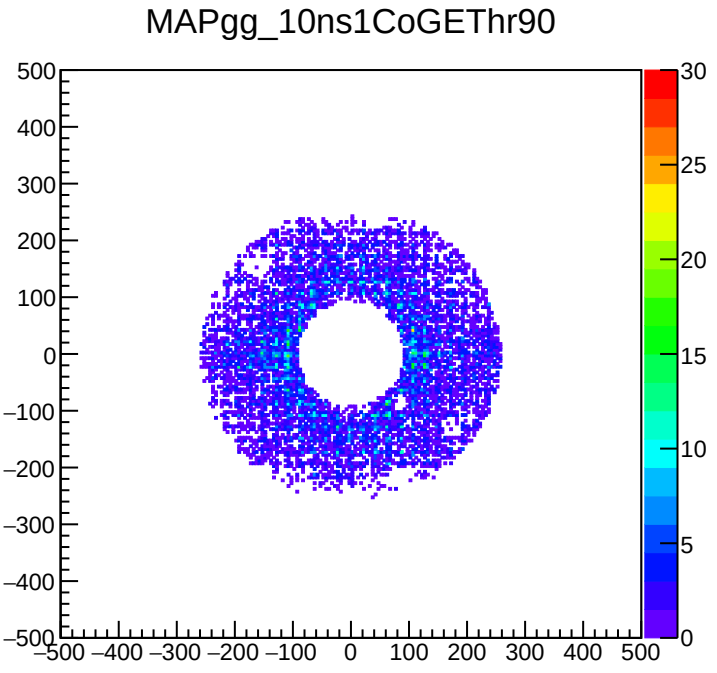
MAPgg_10ns1CoGEThr90
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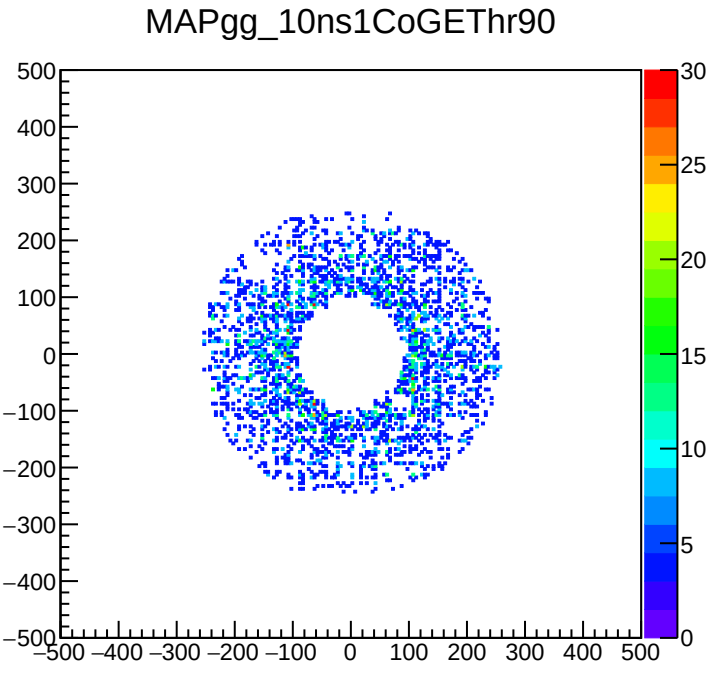
MAPgg_10ns1CoGEThr90
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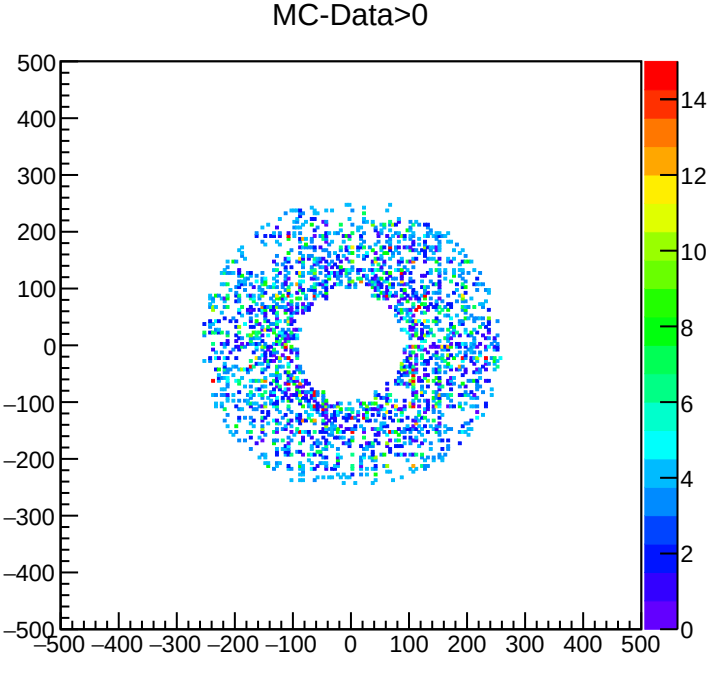
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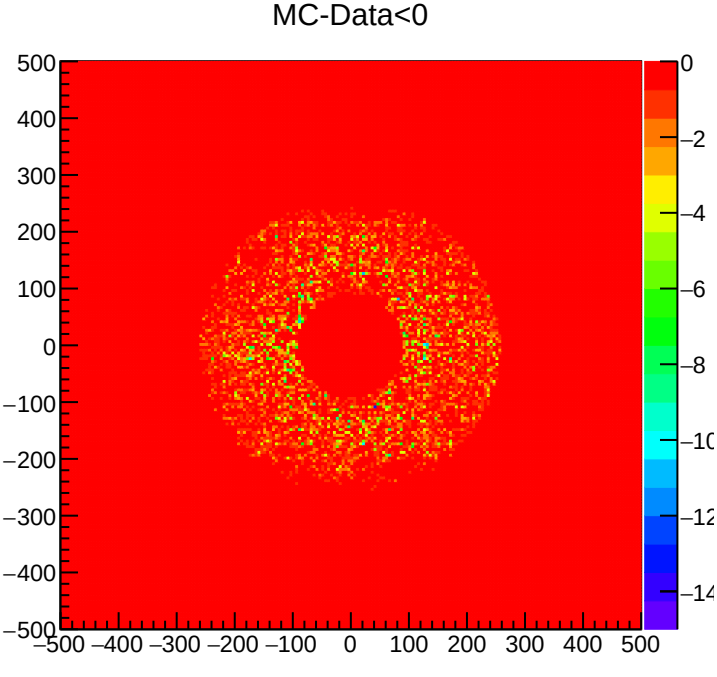
MC-Data<0
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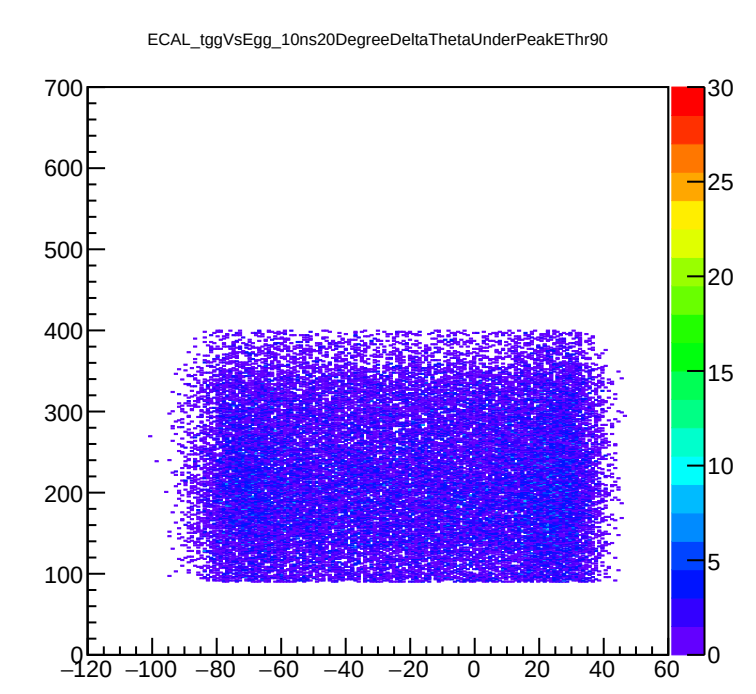
ECAL_tggVsEgg_10ns20DegreeDeltaThetaUnderPeakEThr90
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300
200
100
0
−120 −100 −80 −60 −40 −20 0 20 40 60
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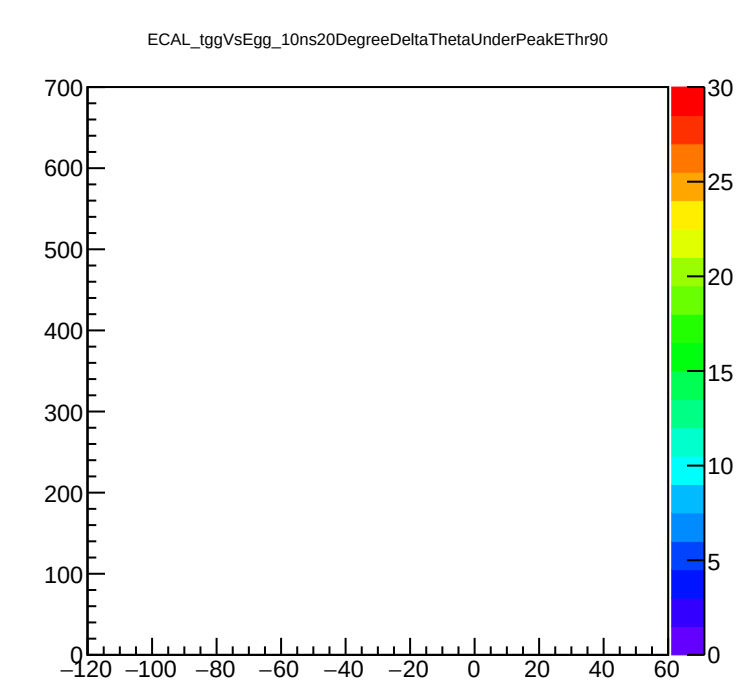
ECAL_tggVsEgg_10ns20DegreeDeltaThetaUnderPeakEThr90
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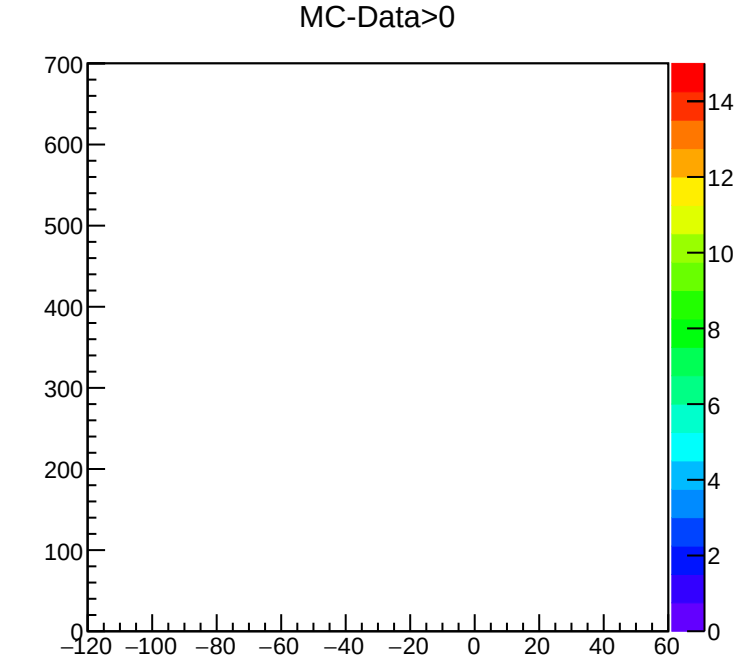
MC-Data>0
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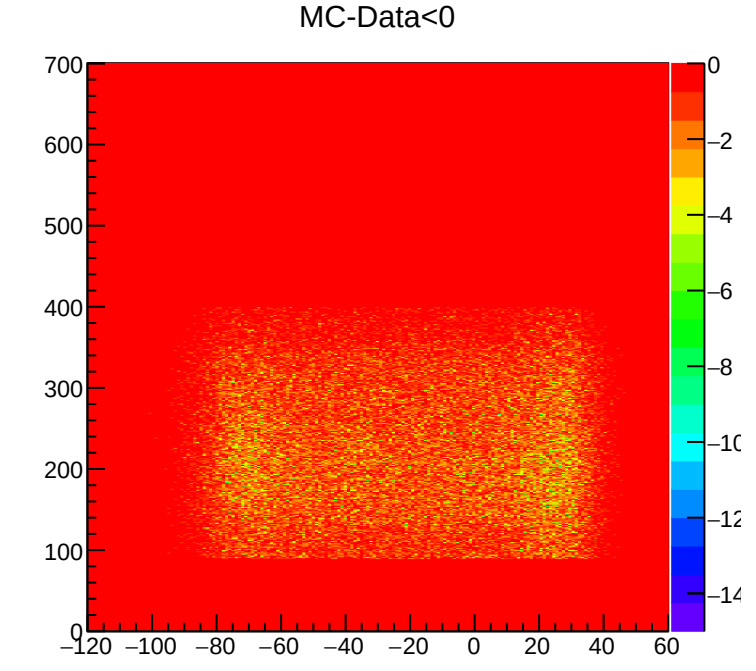
MC-Data<0
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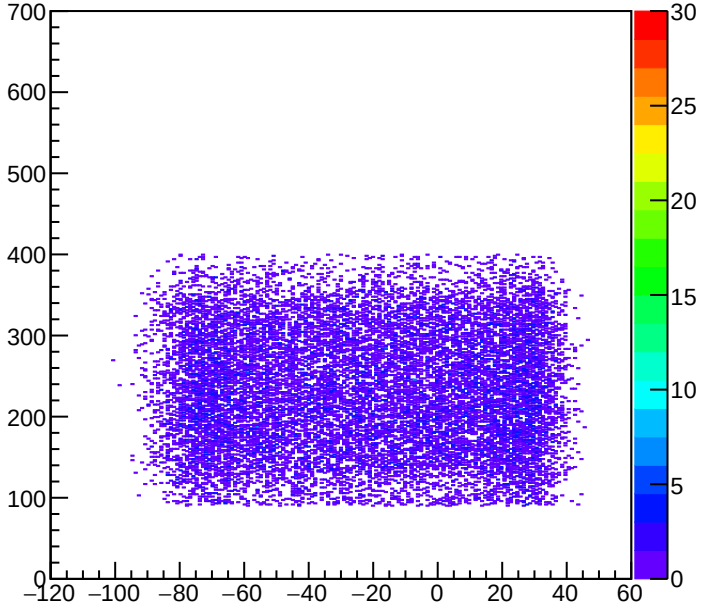
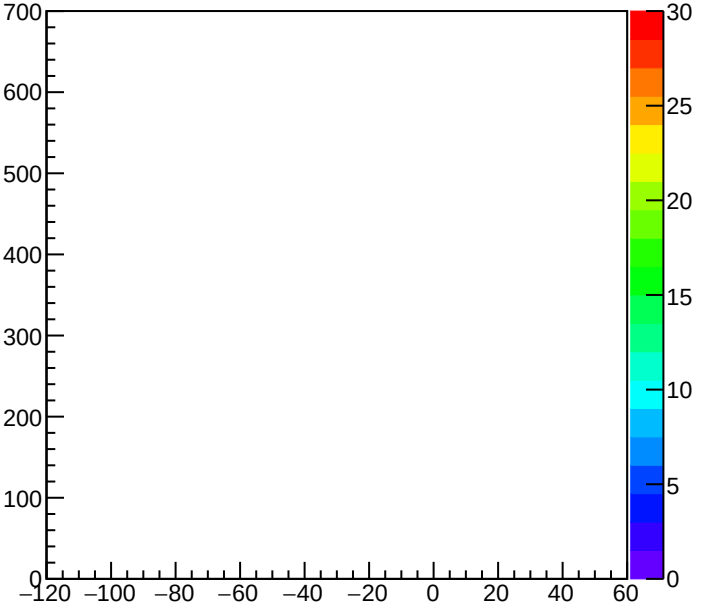
−14

ECAL_tggVsEgg_10ns5DegreeDeltaThetaUnderPeakEThr90




ECAL_tggVsEgg_10ns5DegreeDeltaThetaUnderPeakEThr90

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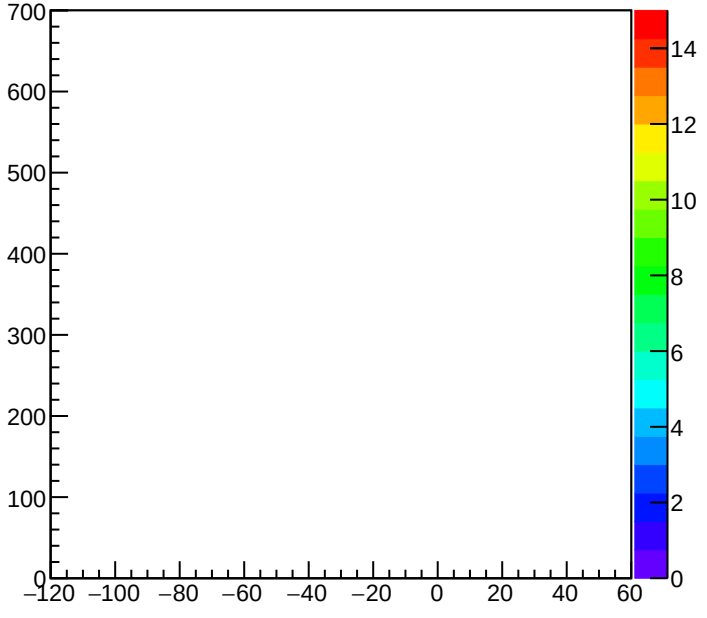


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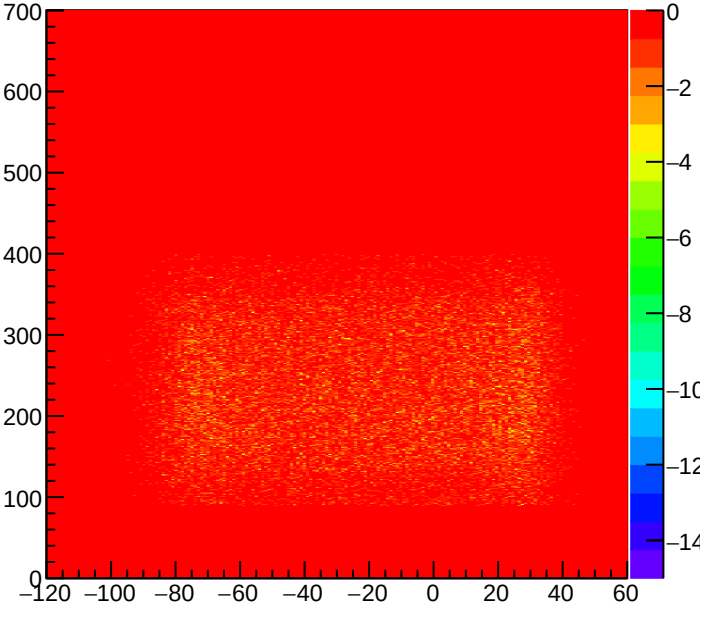

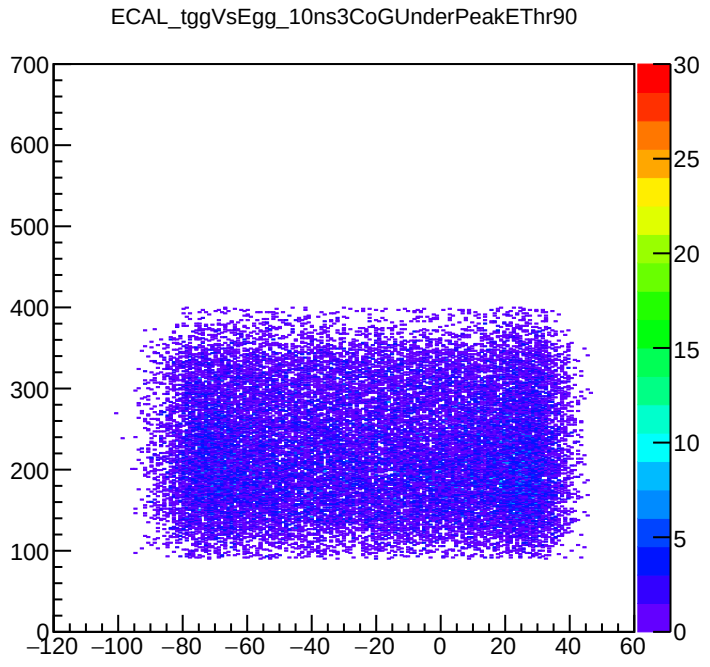
ECAL_tggVsEgg_10ns3CoGUnderPeakEThr90
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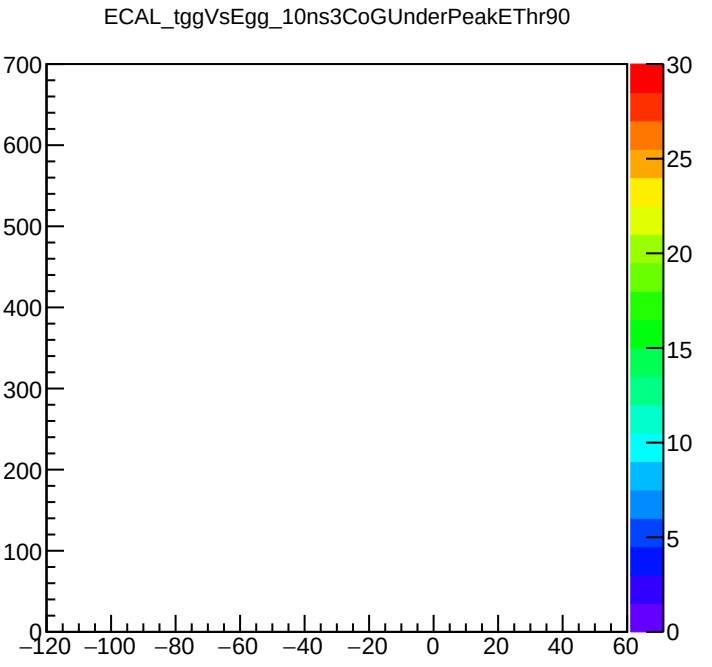
ECAL_tggVsEgg_10ns3CoGUnderPeakEThr90
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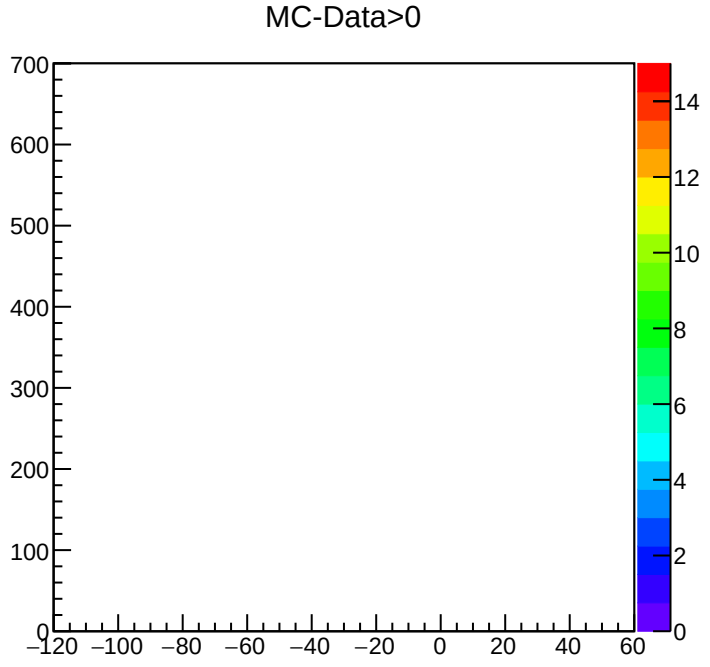
MC-Data>0
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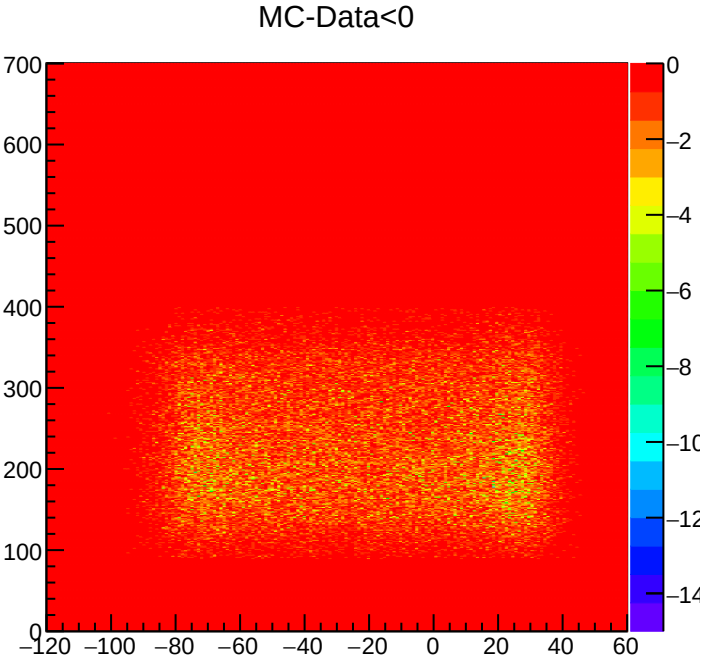
MC-Data<0
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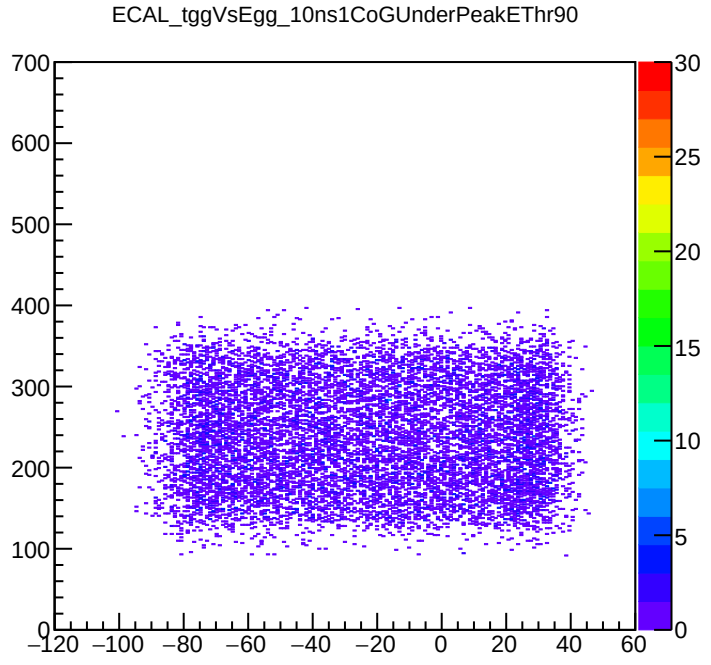
ECAL_tggVsEgg_10ns1CoGUnderPeakEThr90
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100
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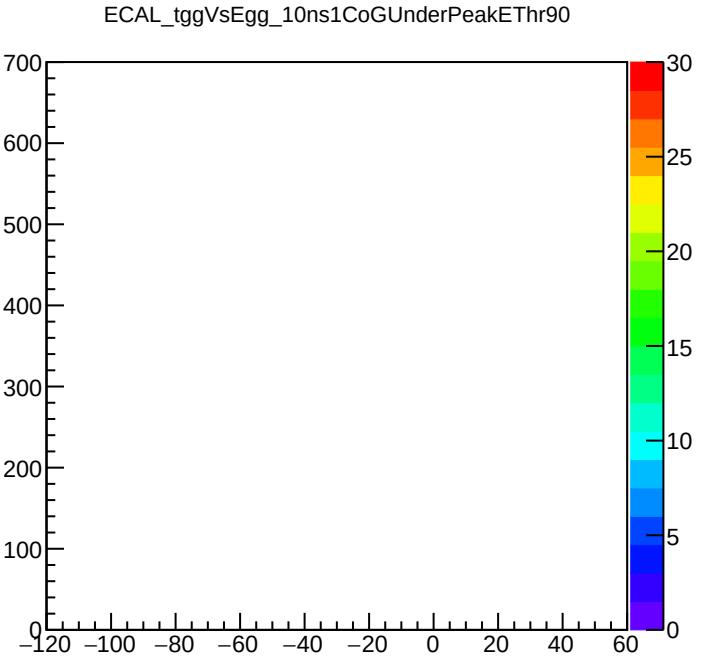
ECAL_tggVsEgg_10ns1CoGUnderPeakEThr90
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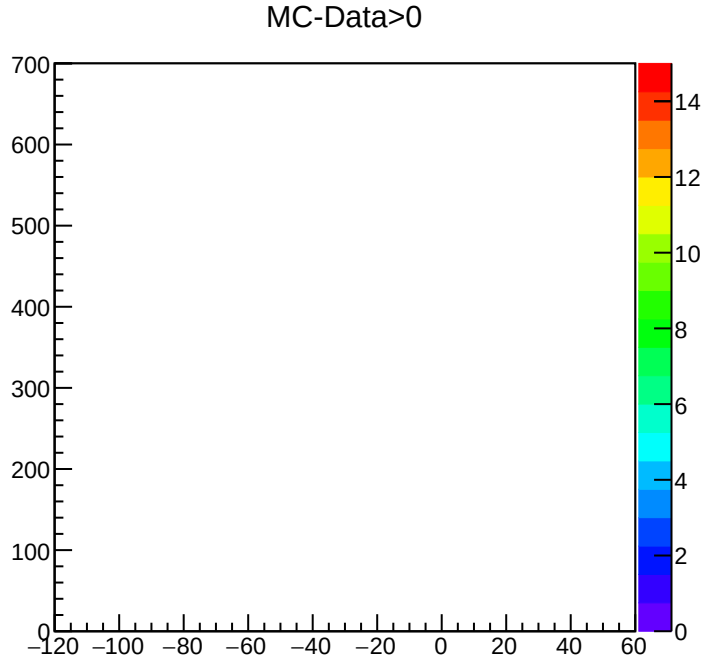
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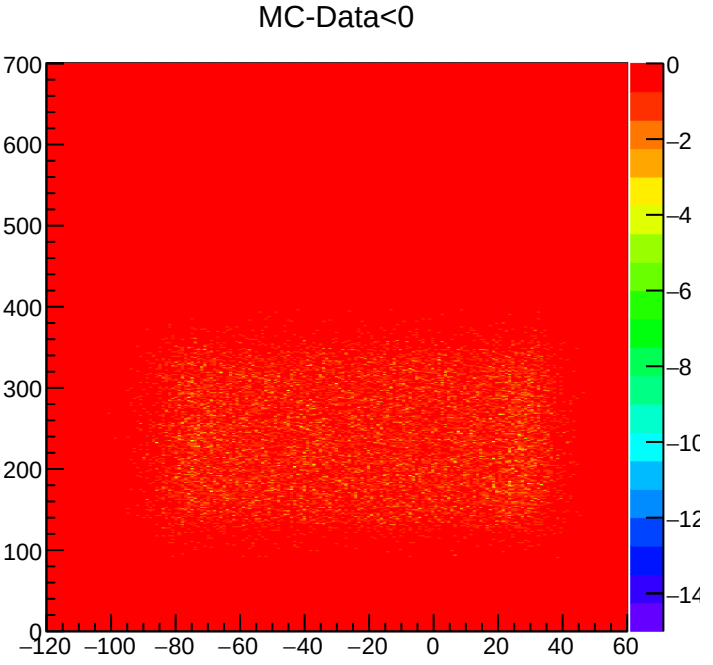
MC-Data<0
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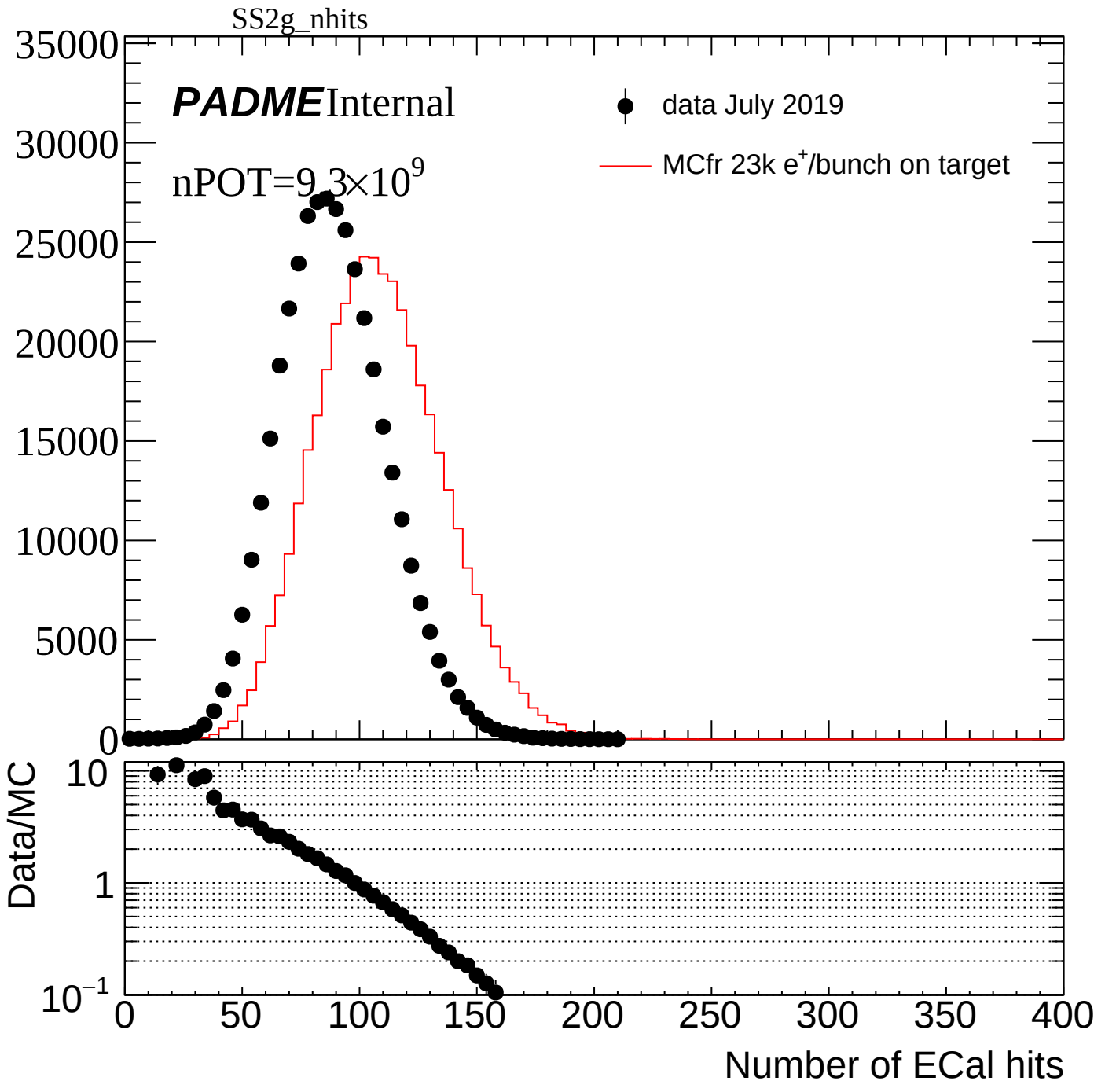
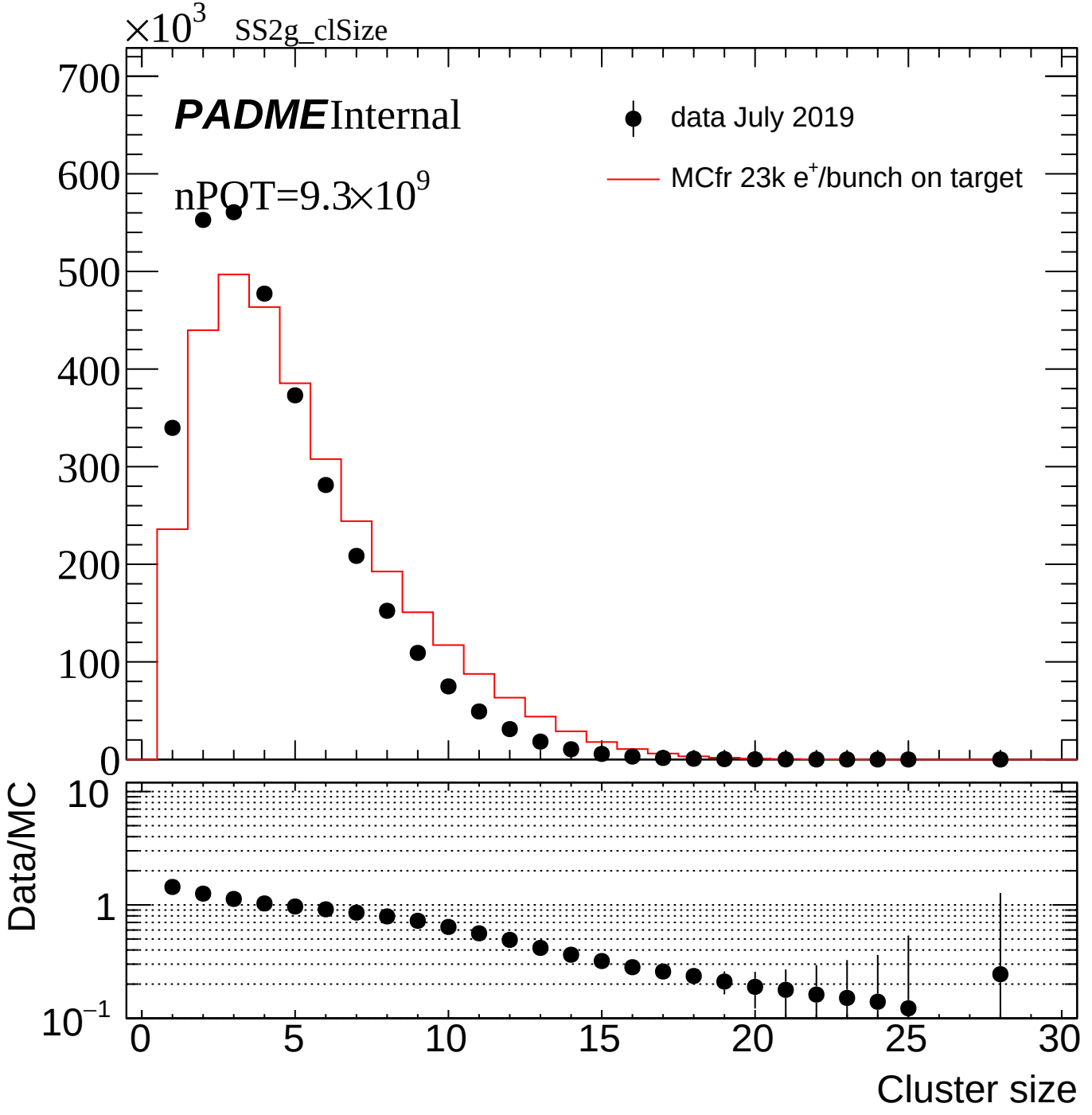
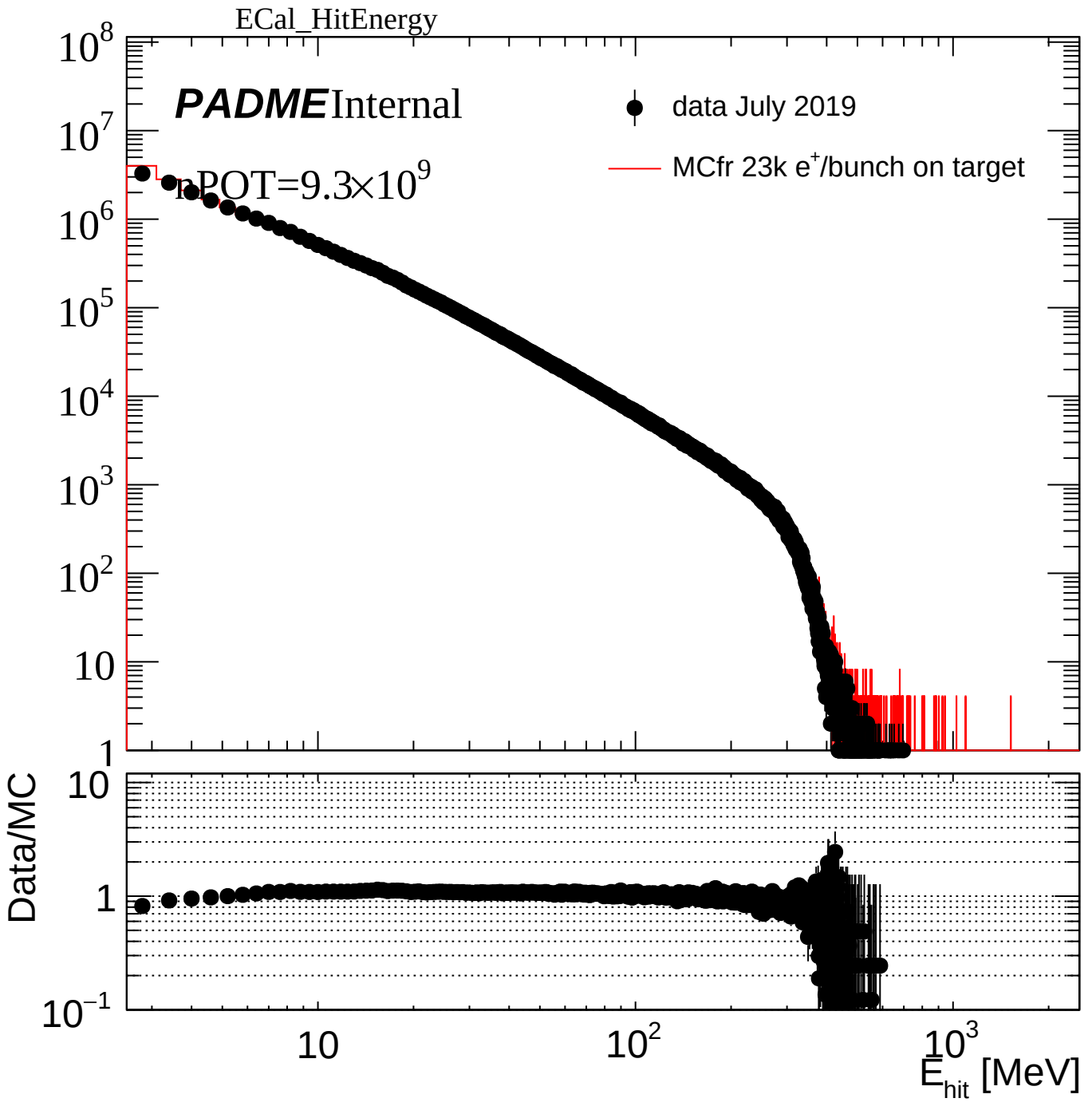
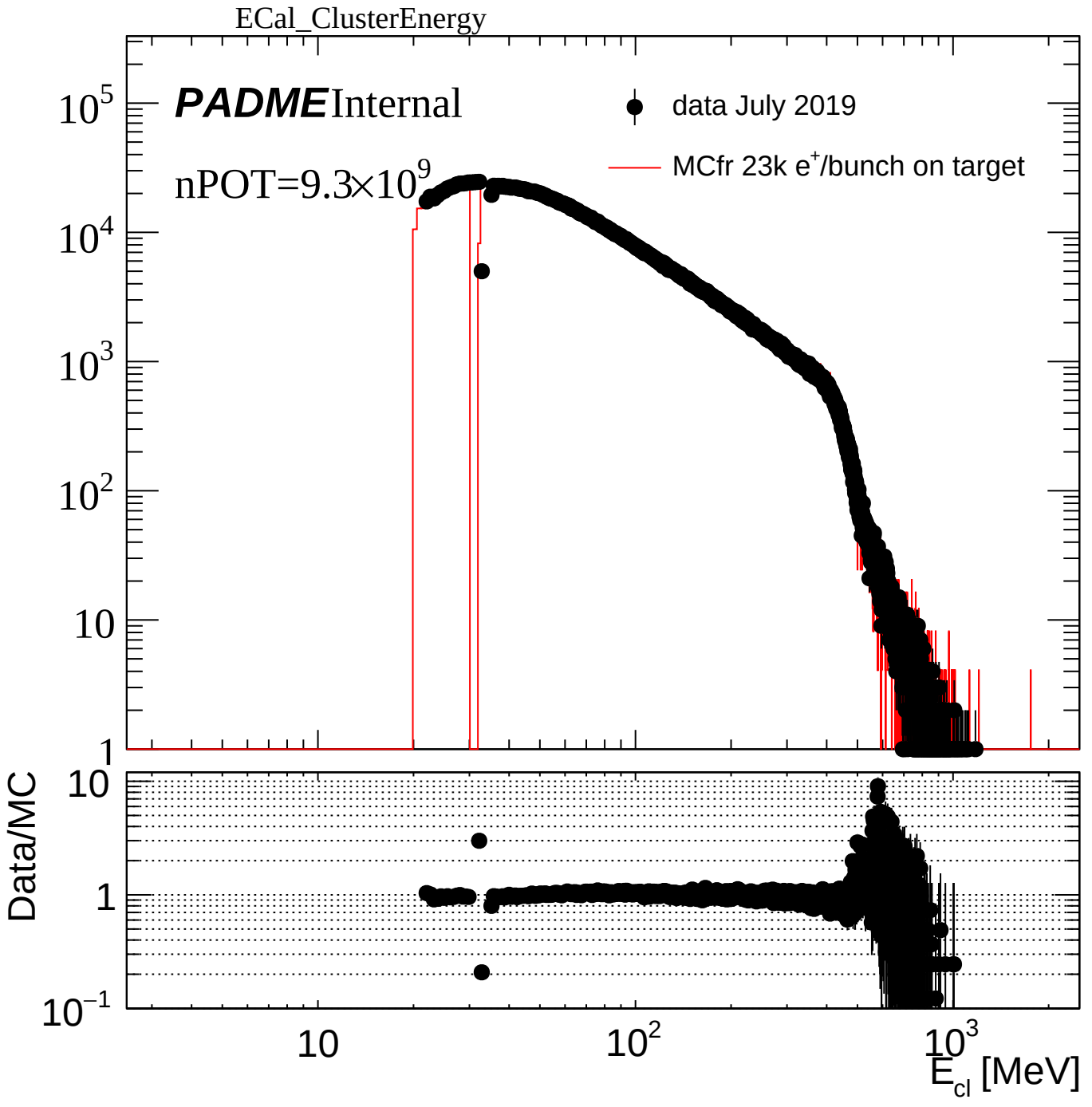
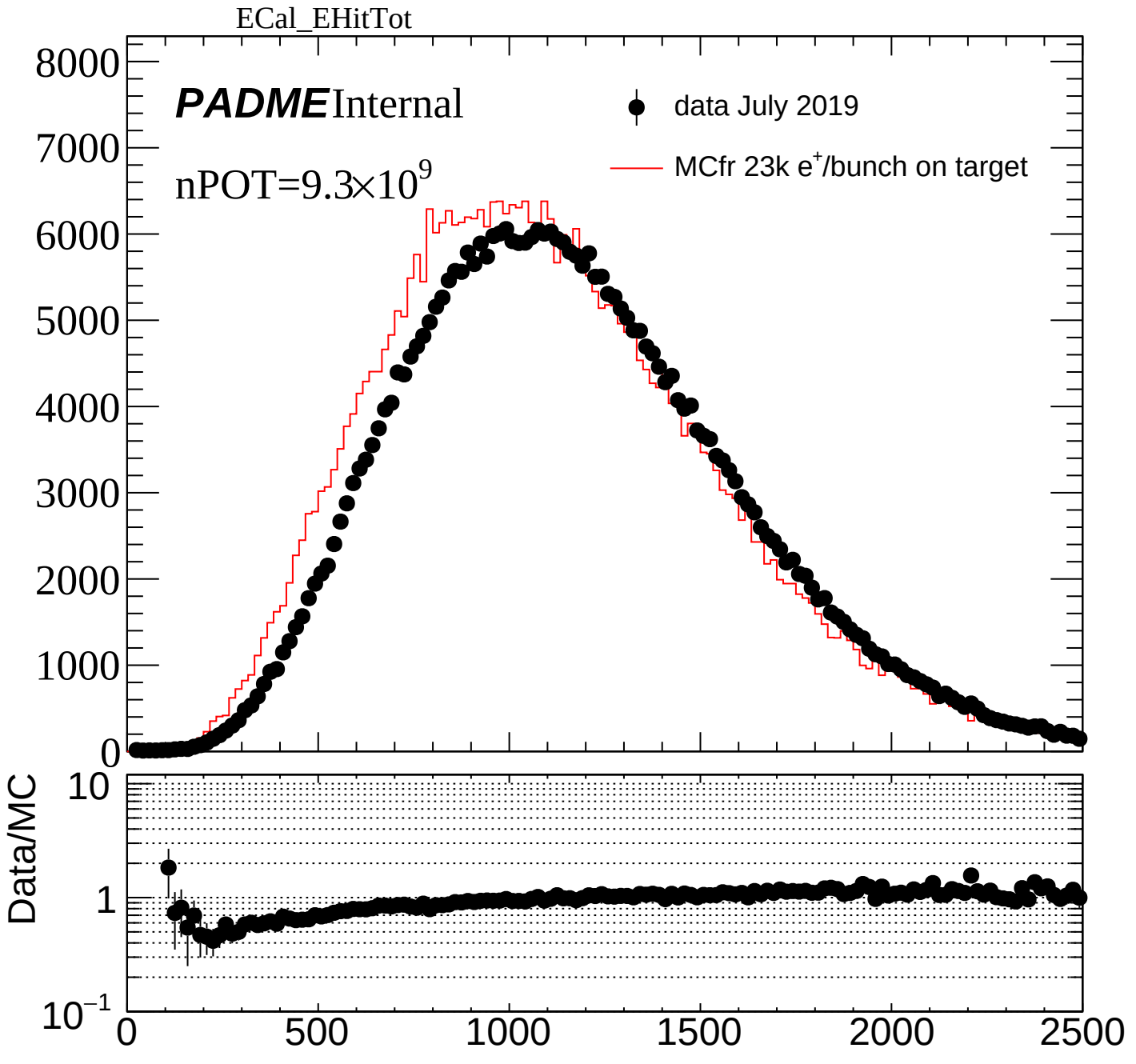
−10
−12
−14

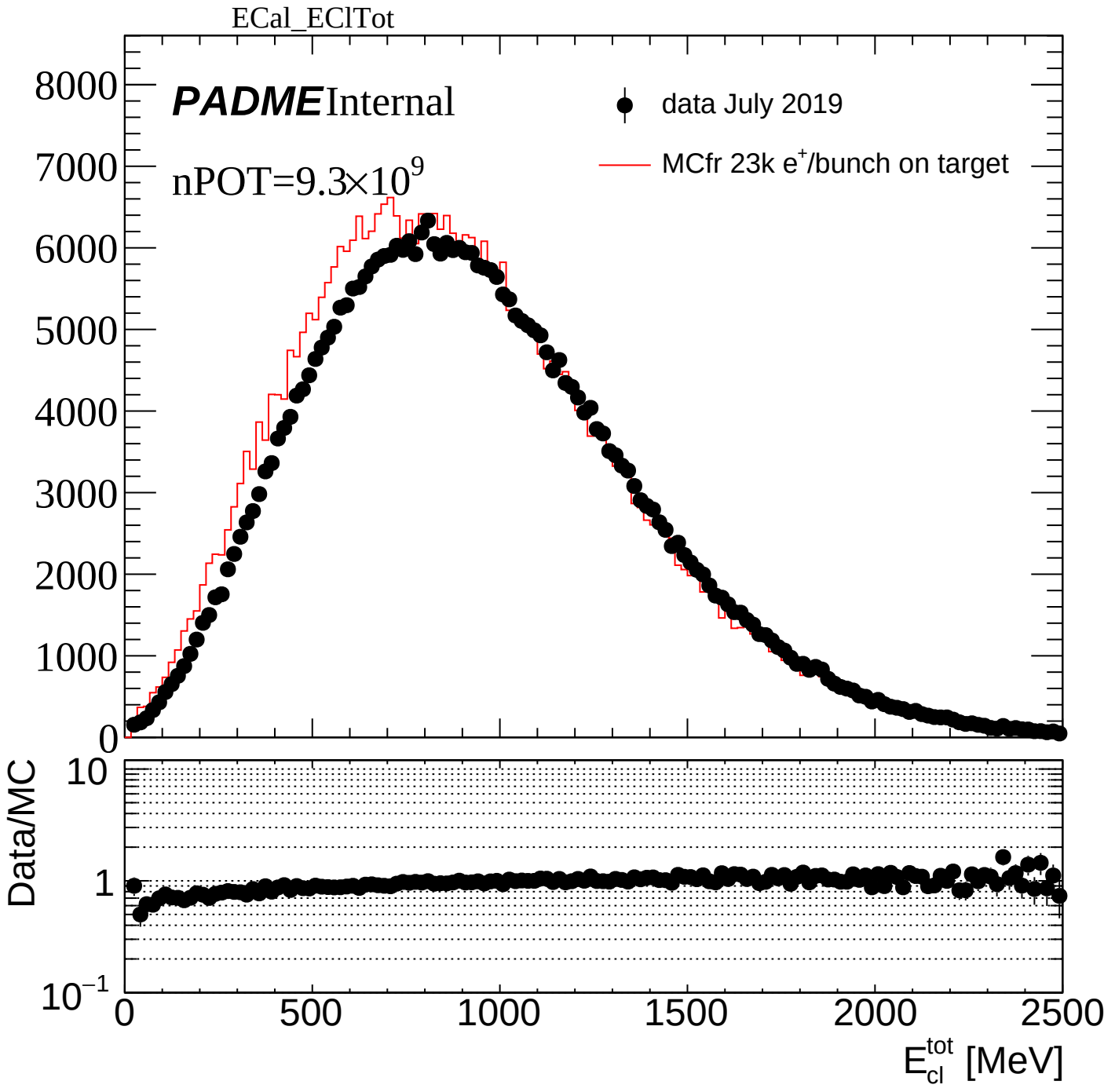

SS2g_nhits
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
35000
30000
25000
20000
15000
10000
5000
0
Data/MC
10
1
10^−1
0
50
100
150
200
250
300
350
400
Number of ECal hits

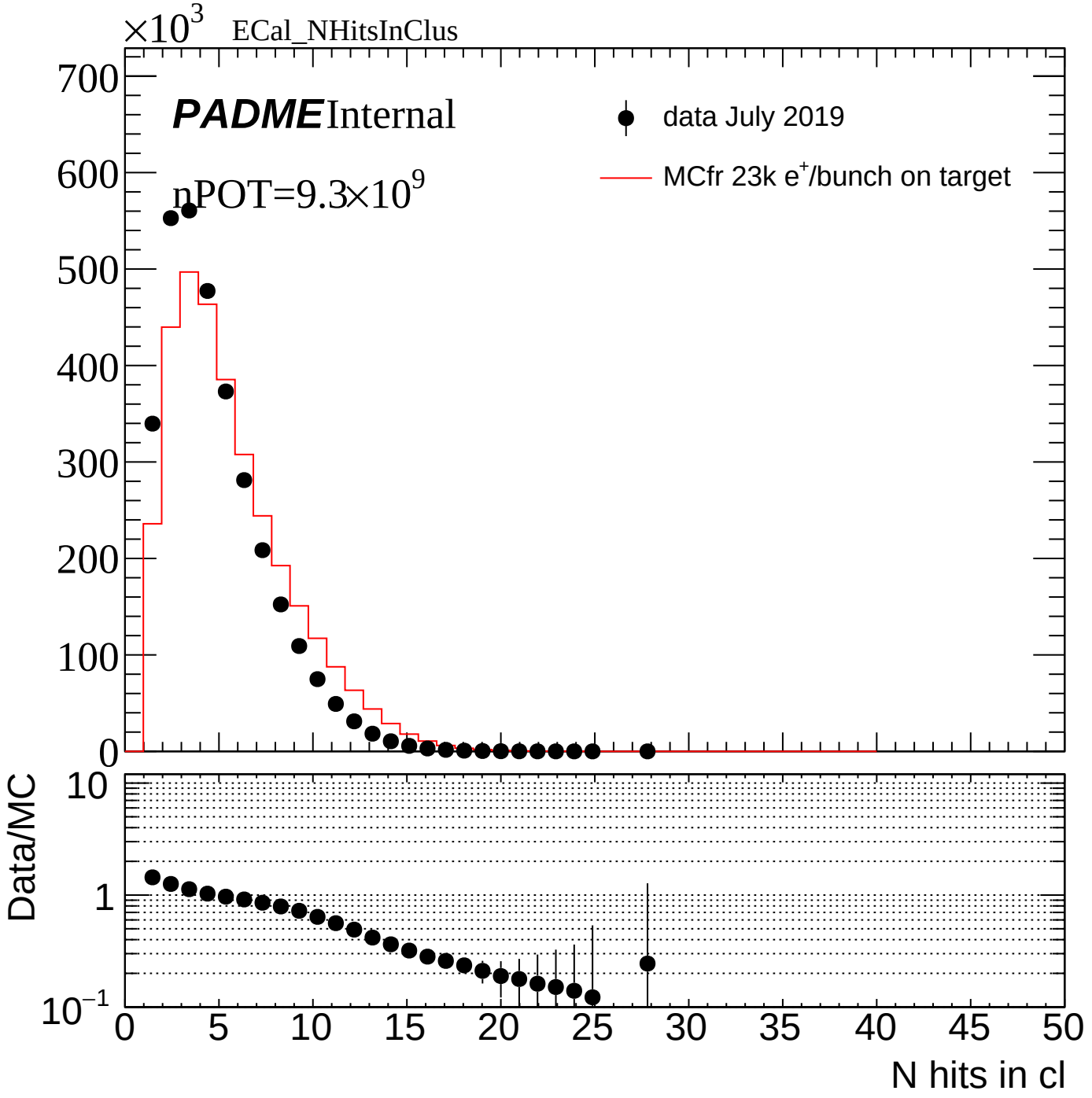

×10^3 SS2g_clSize
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
Cluster size

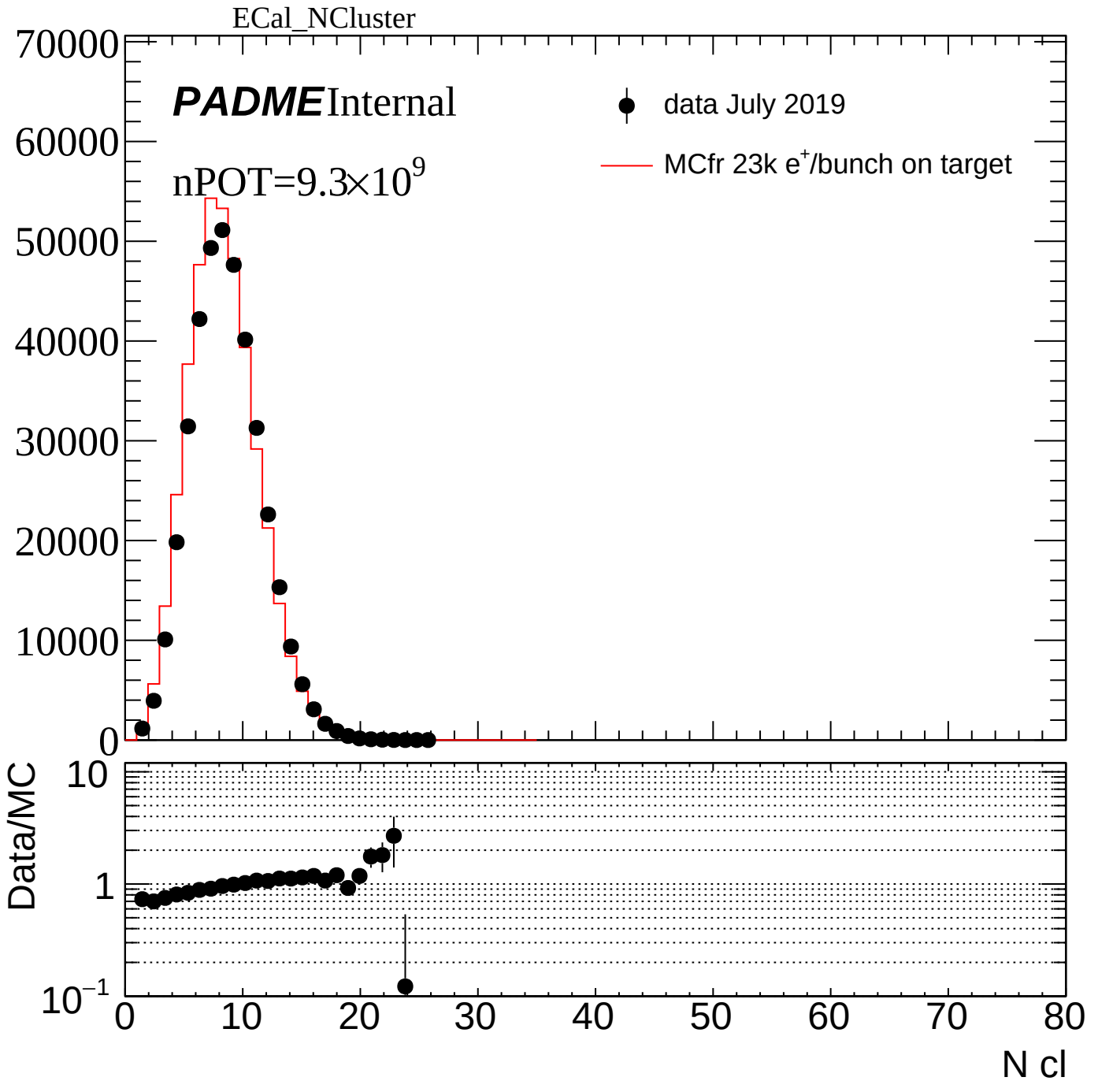

ECal_HitEnergy
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E_hit [MeV]

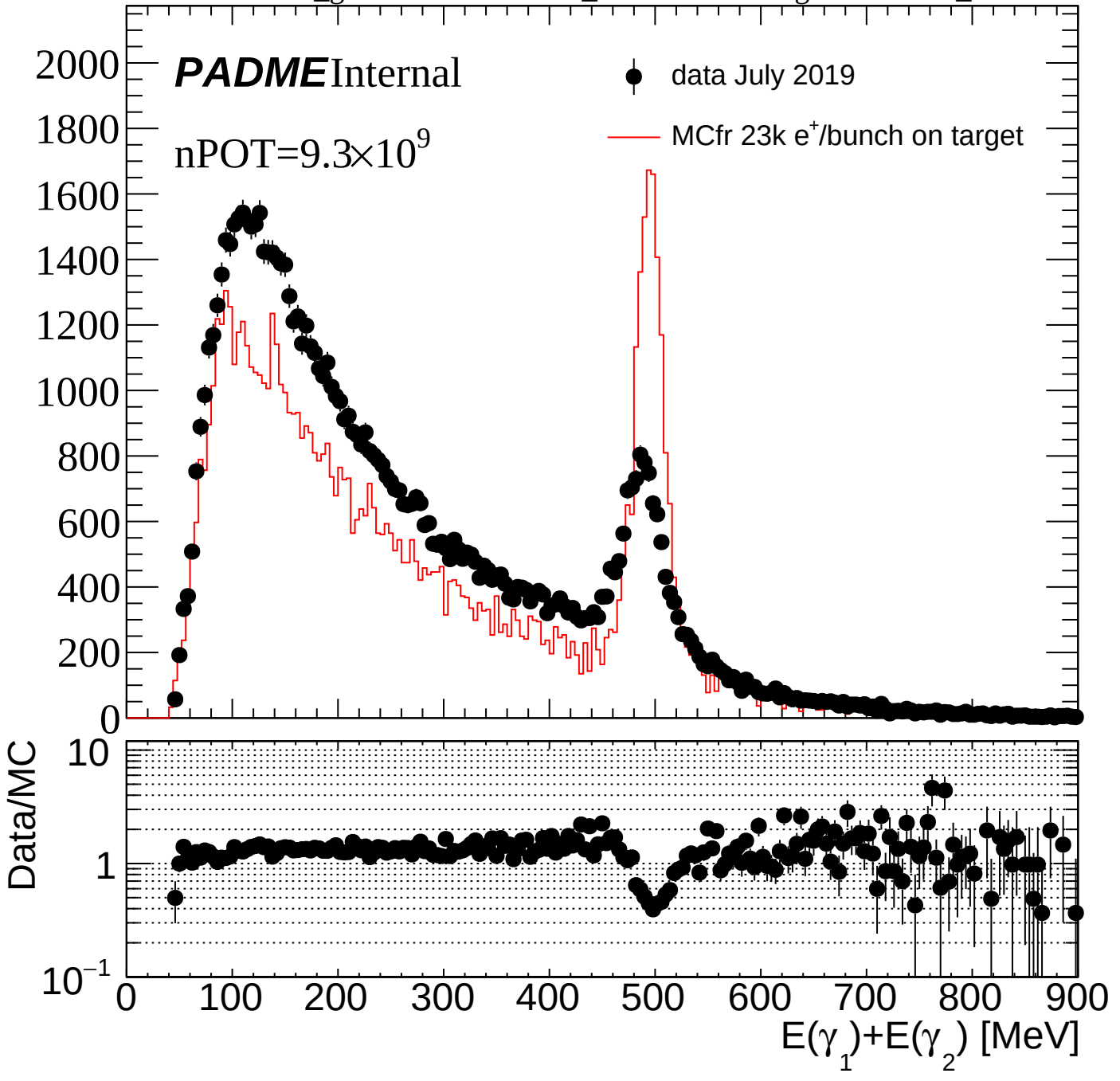

ECal_ClusterEnergy
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
10^5
10^4
10^3
10^2
10
1
Data/MC
10
1
10^-1
10
10^2
10^3
E_cl [MeV]

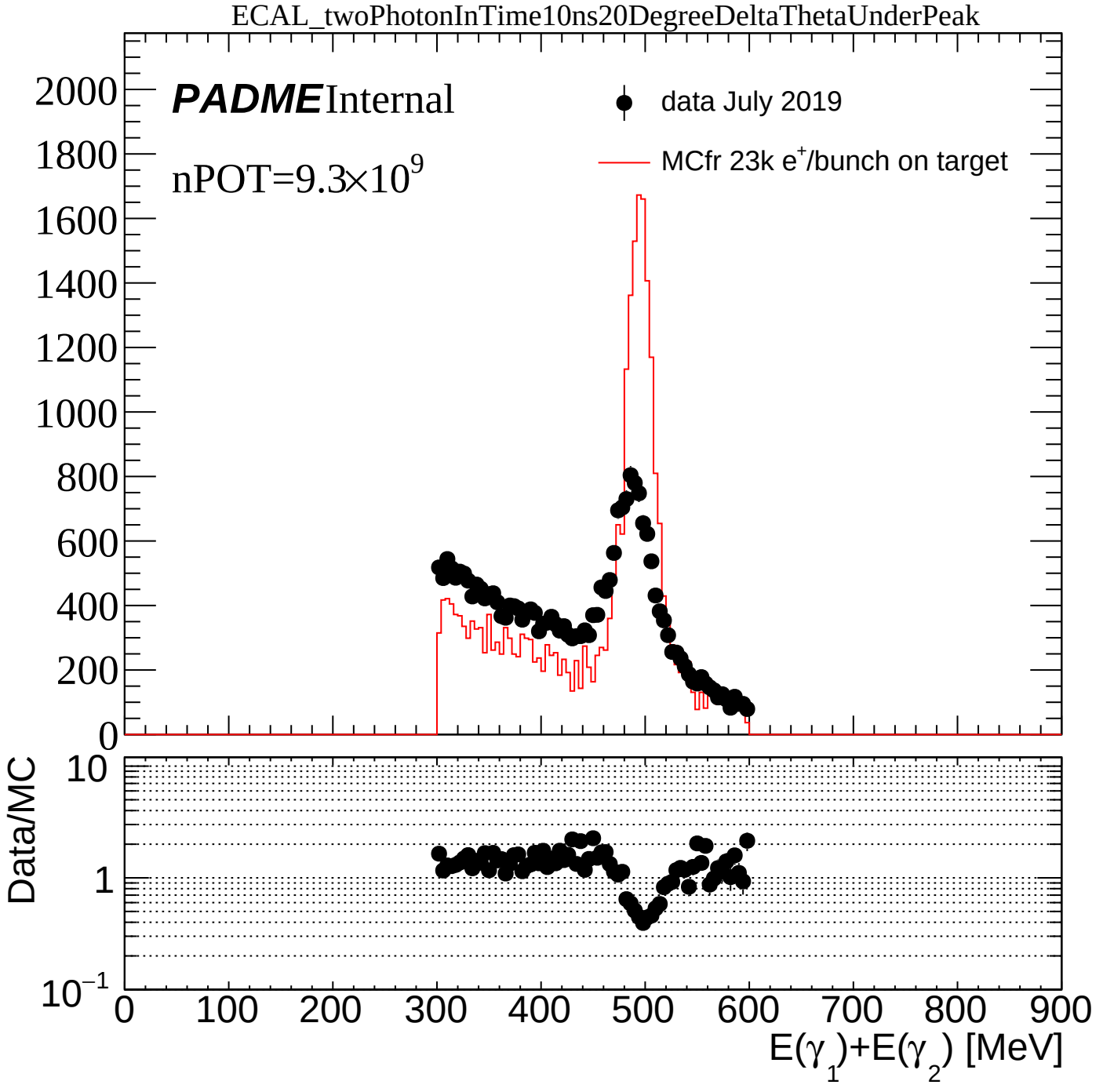

ECal_EHitTot
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
8000
7000
6000
5000
4000
3000
2000
1000
0
Data/MC
10
1
10^−1
0
500
1000
1500
2000
2500

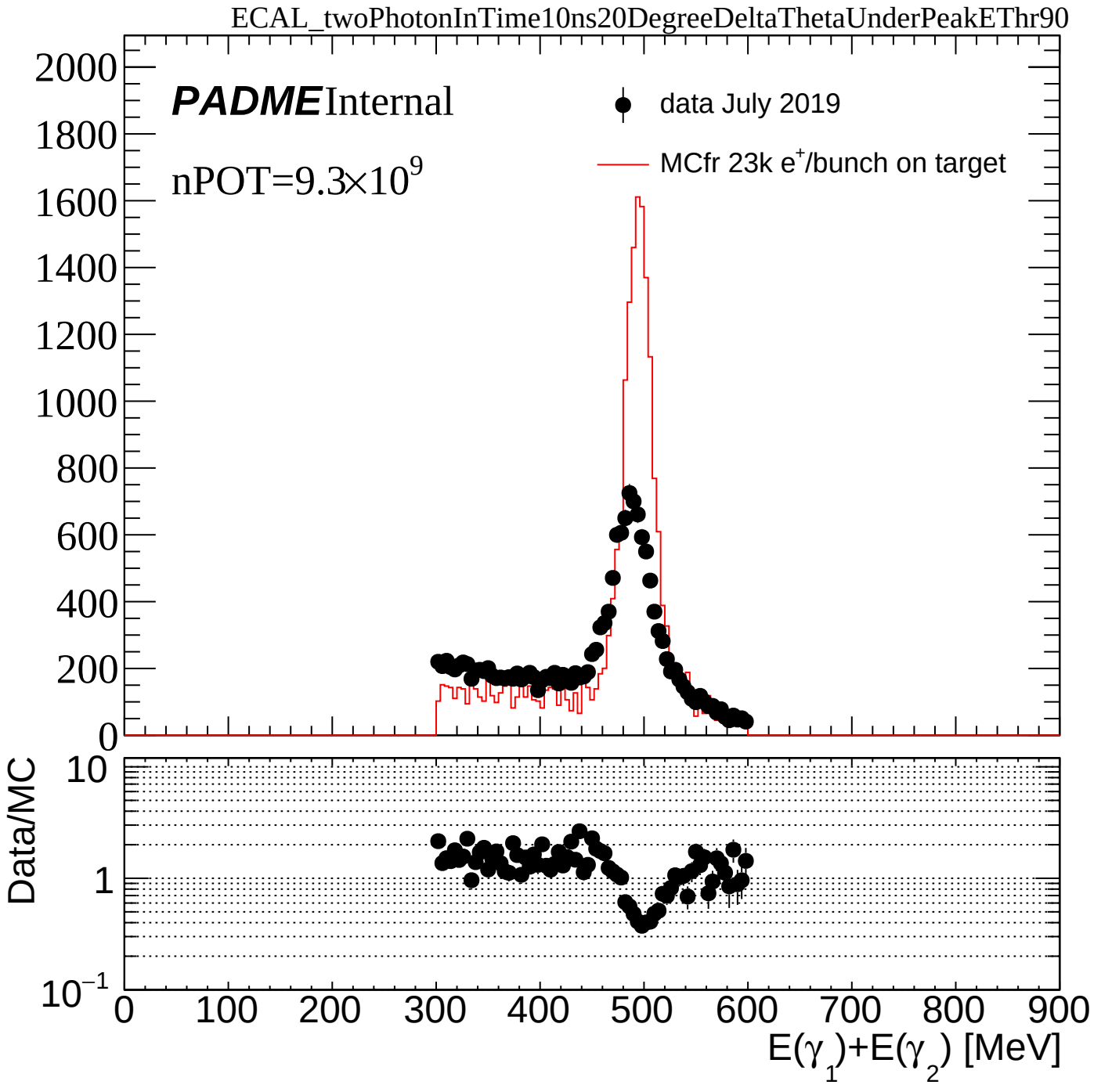

ECal_EClTot
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
8000
7000
6000
5000
4000
3000
2000
1000
0
Data/MC
10
1
10^−1
0
500
1000
1500
2000
2500
E_cl^tot [MeV]

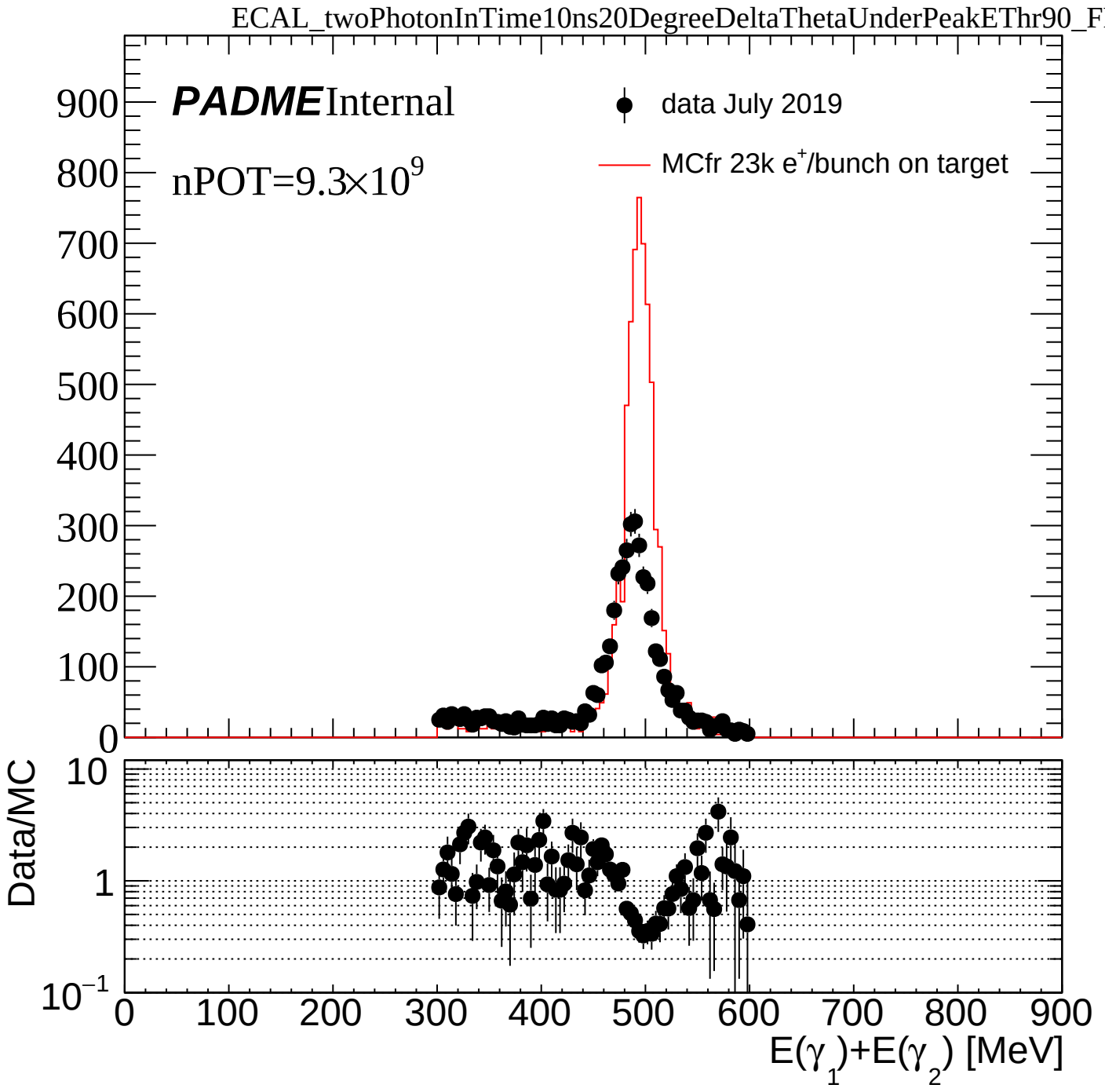

×10^3 ECal_NHitsInClus
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
700
600
500
400
300
200
100
0
Data/MC
10
1
10^−1
0
5
10
15
20
25
30
35
40
45
50
N hits in cl

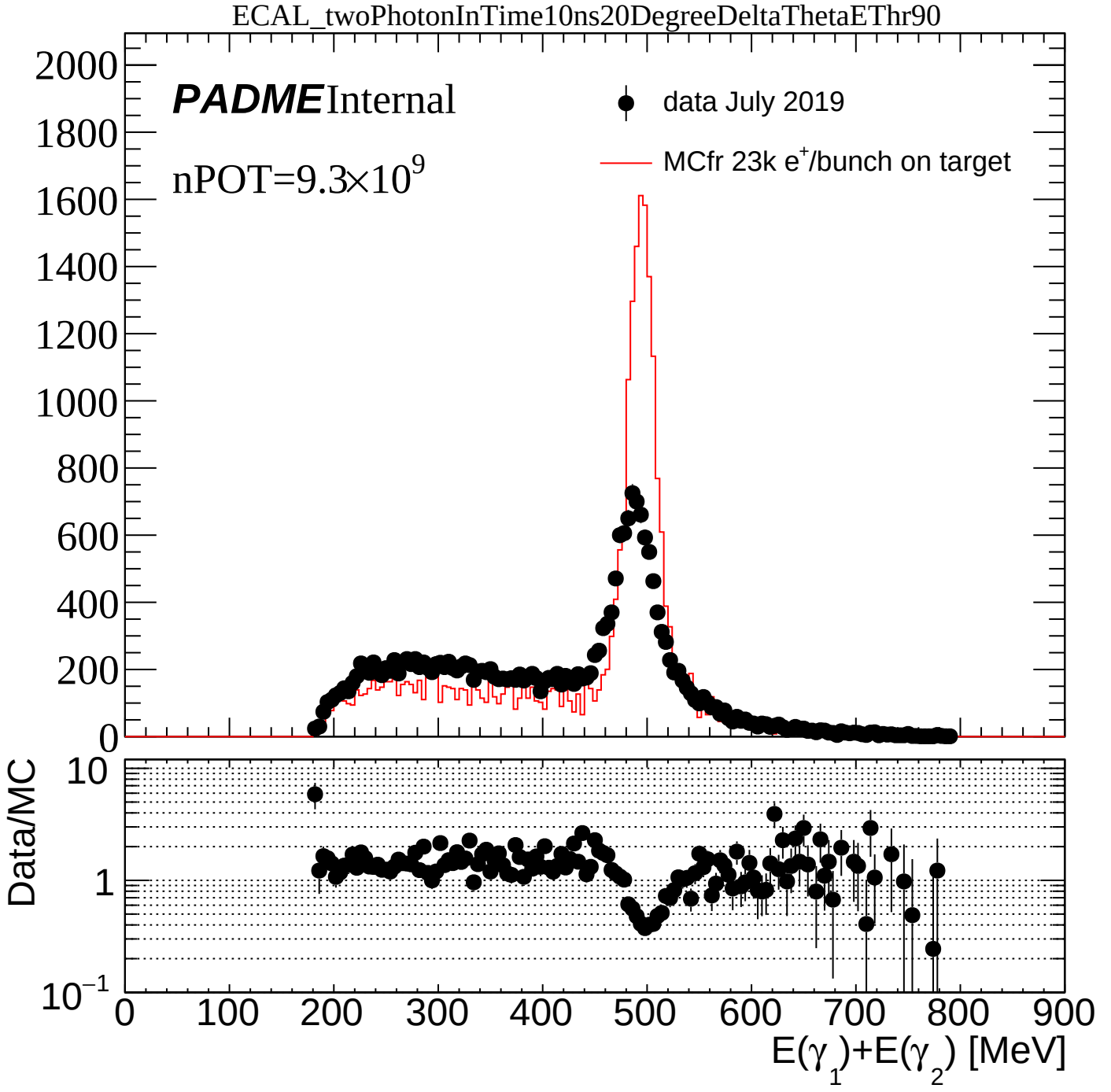

ECal_NCluster
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
70000
60000
50000
40000
30000
20000
10000
0
Data/MC
10
1
10^−1
0
10
20
30
40
50
60
70
80
N cl

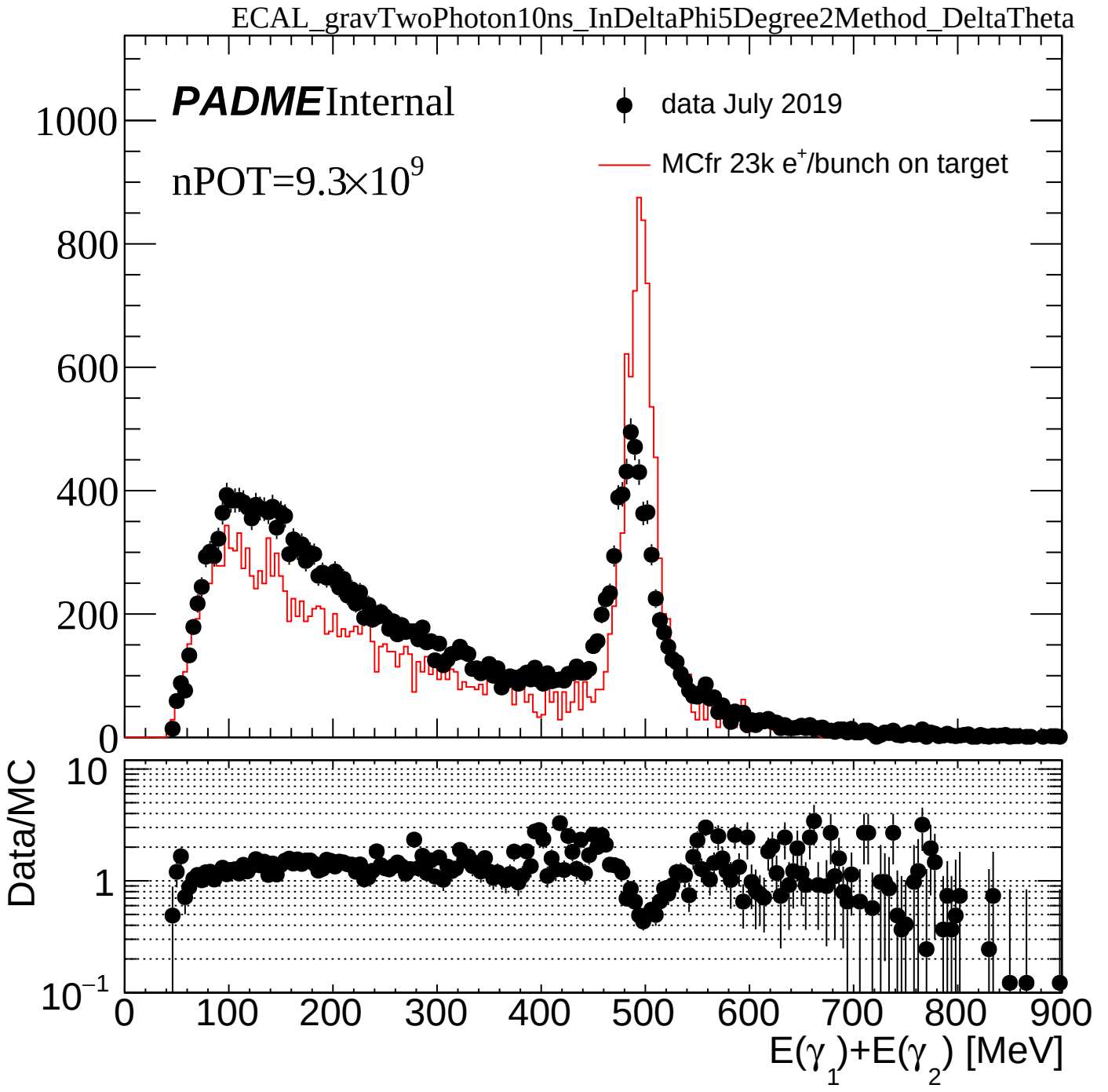

ECAL_gravTwoPhoton10ns_InDeltaPhi20Degree2Method_DeltaTheta
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

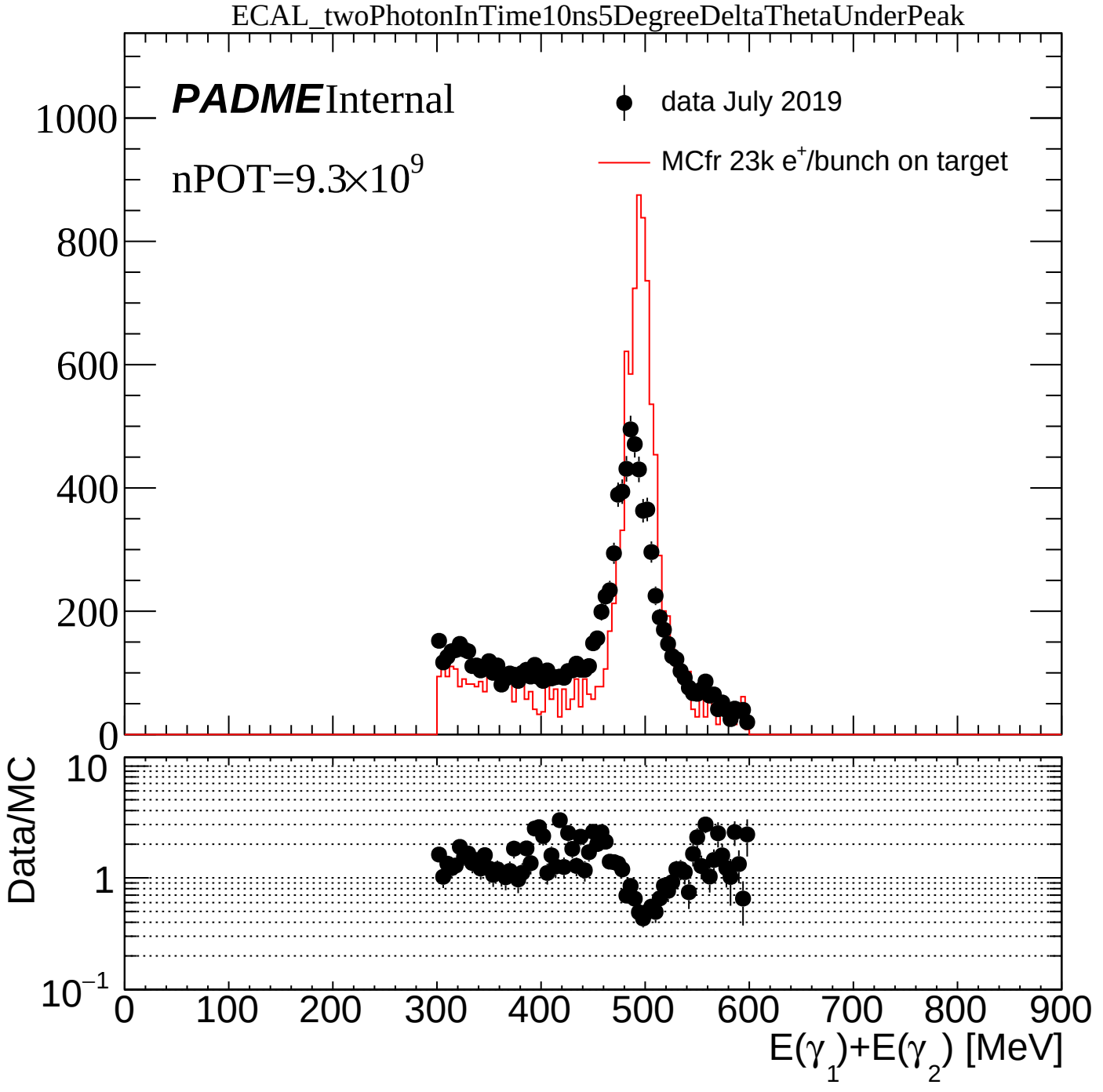

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

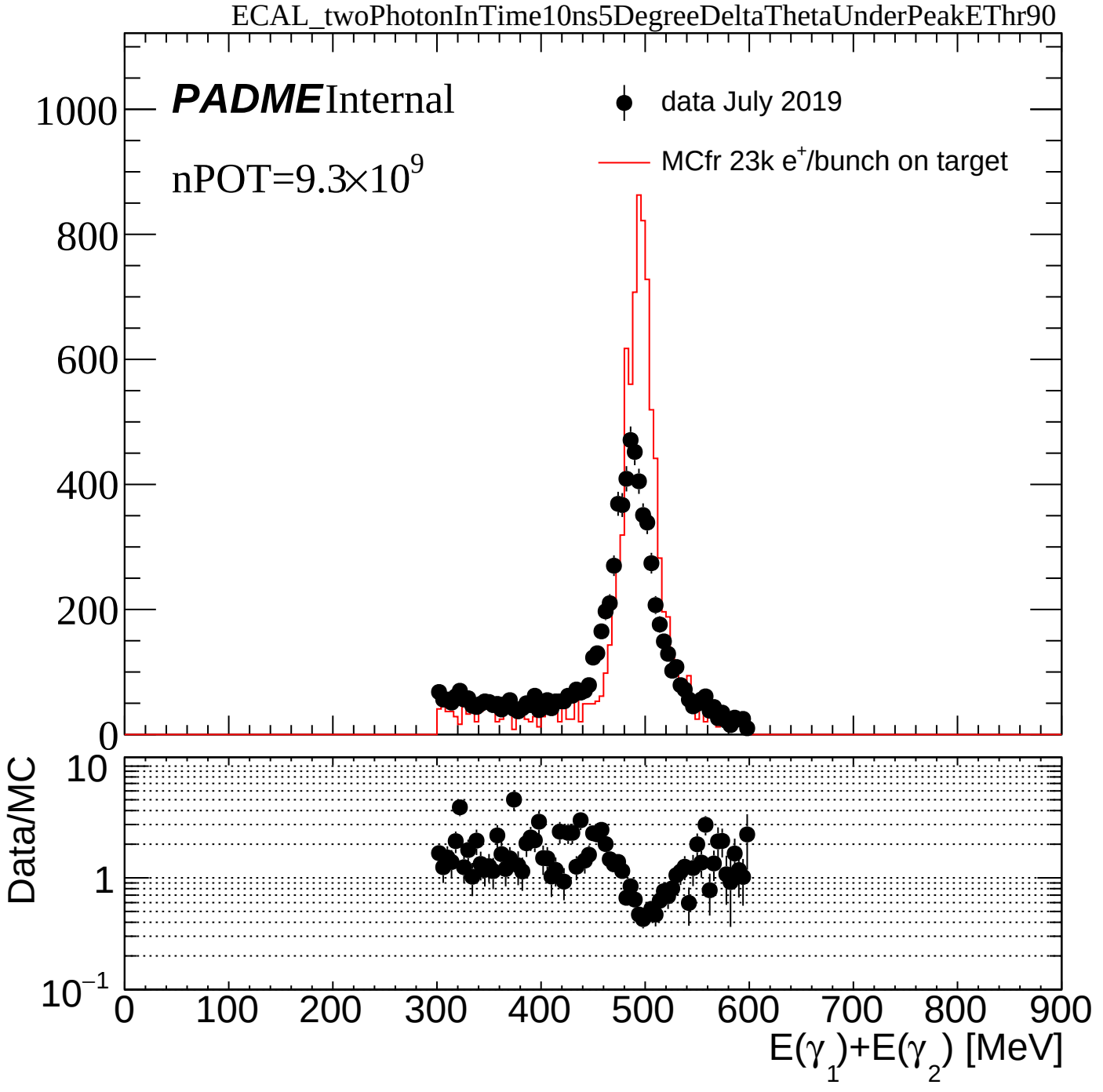

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

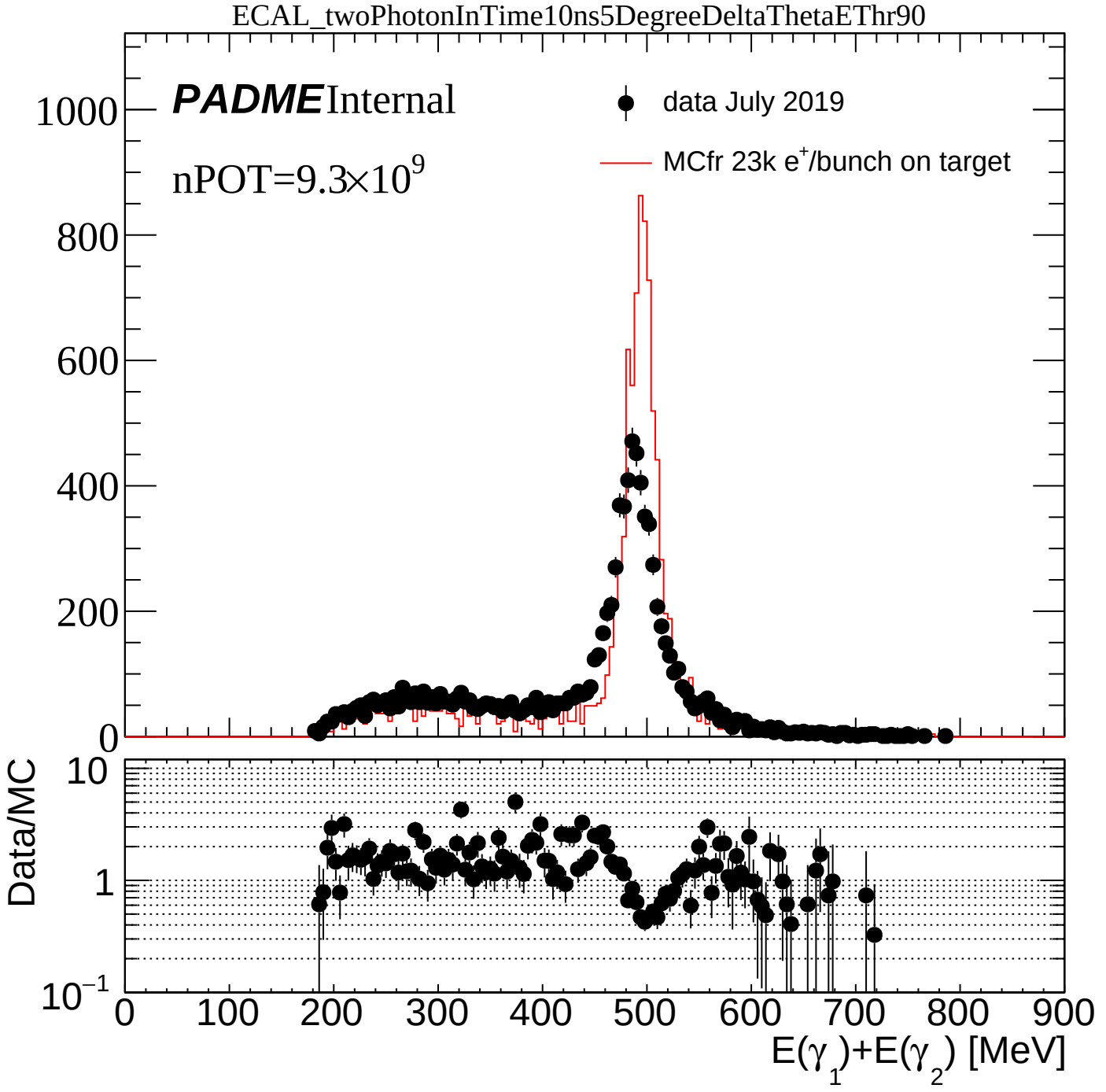

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaUnderPeakEThr90_FR
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
800
700
600
500
400
300
200
100
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

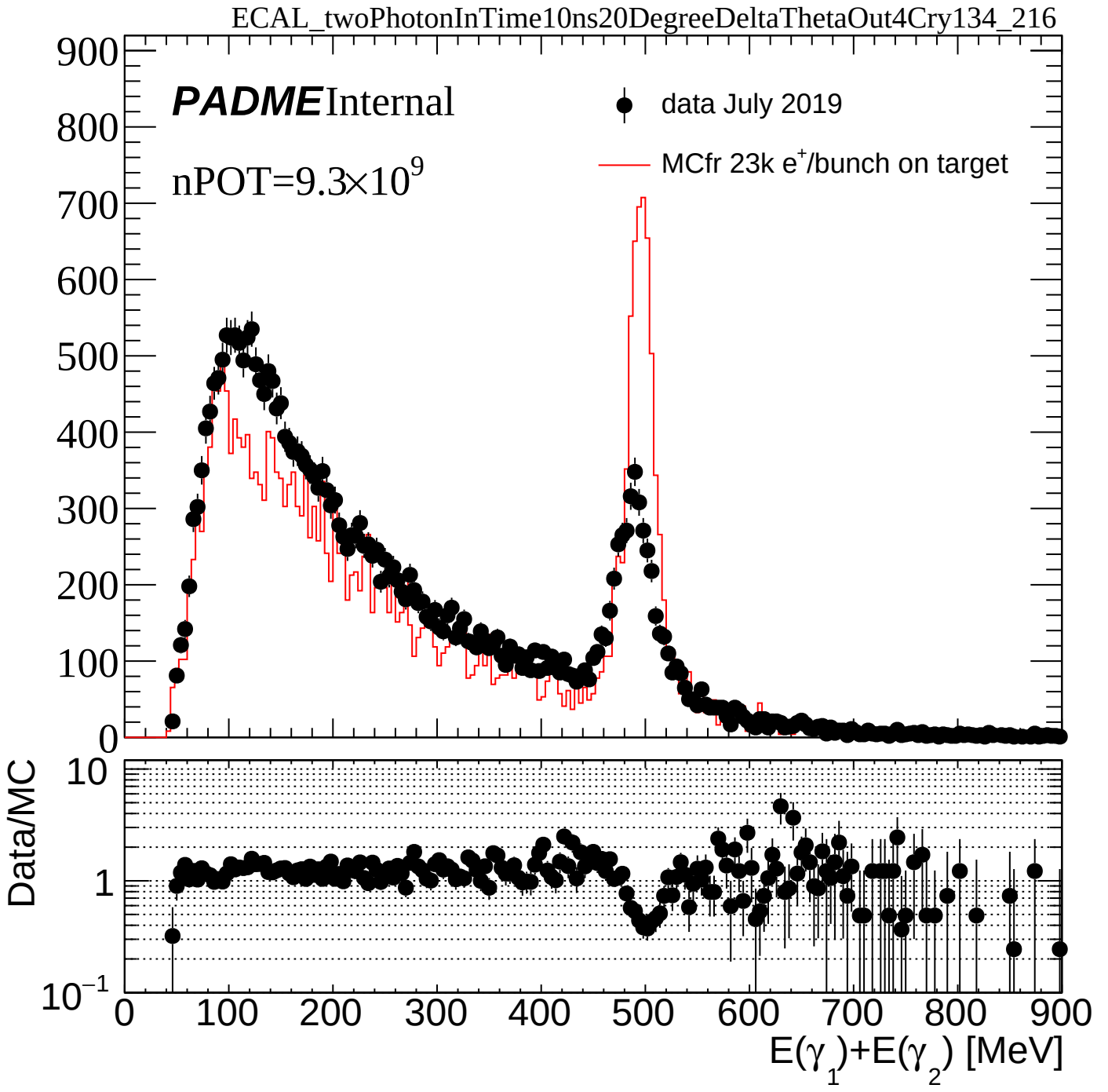

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

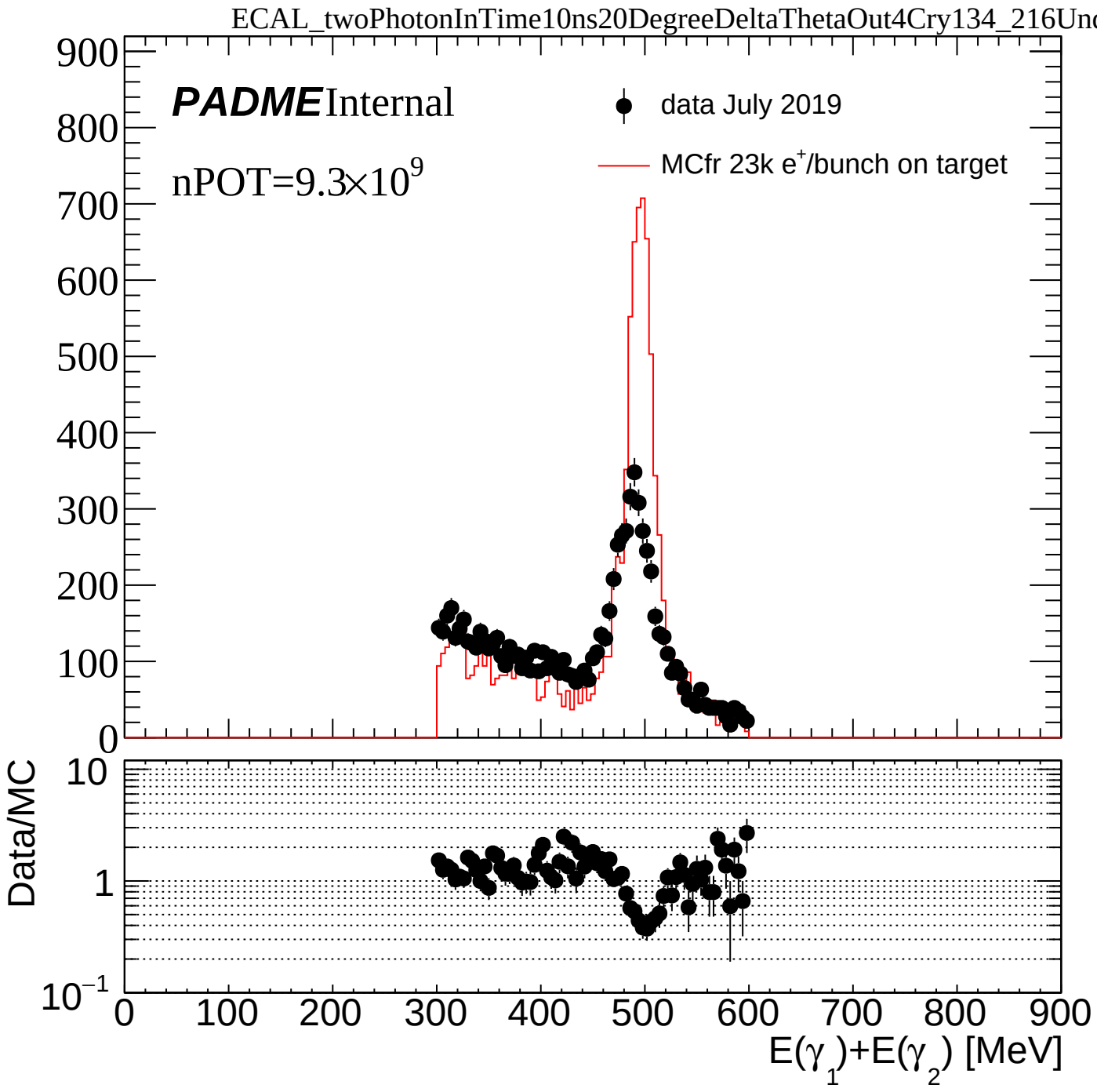

ECAL_gravTwoPhoton10ns_InDeltaPhi5Degree2Method_DeltaTheta
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

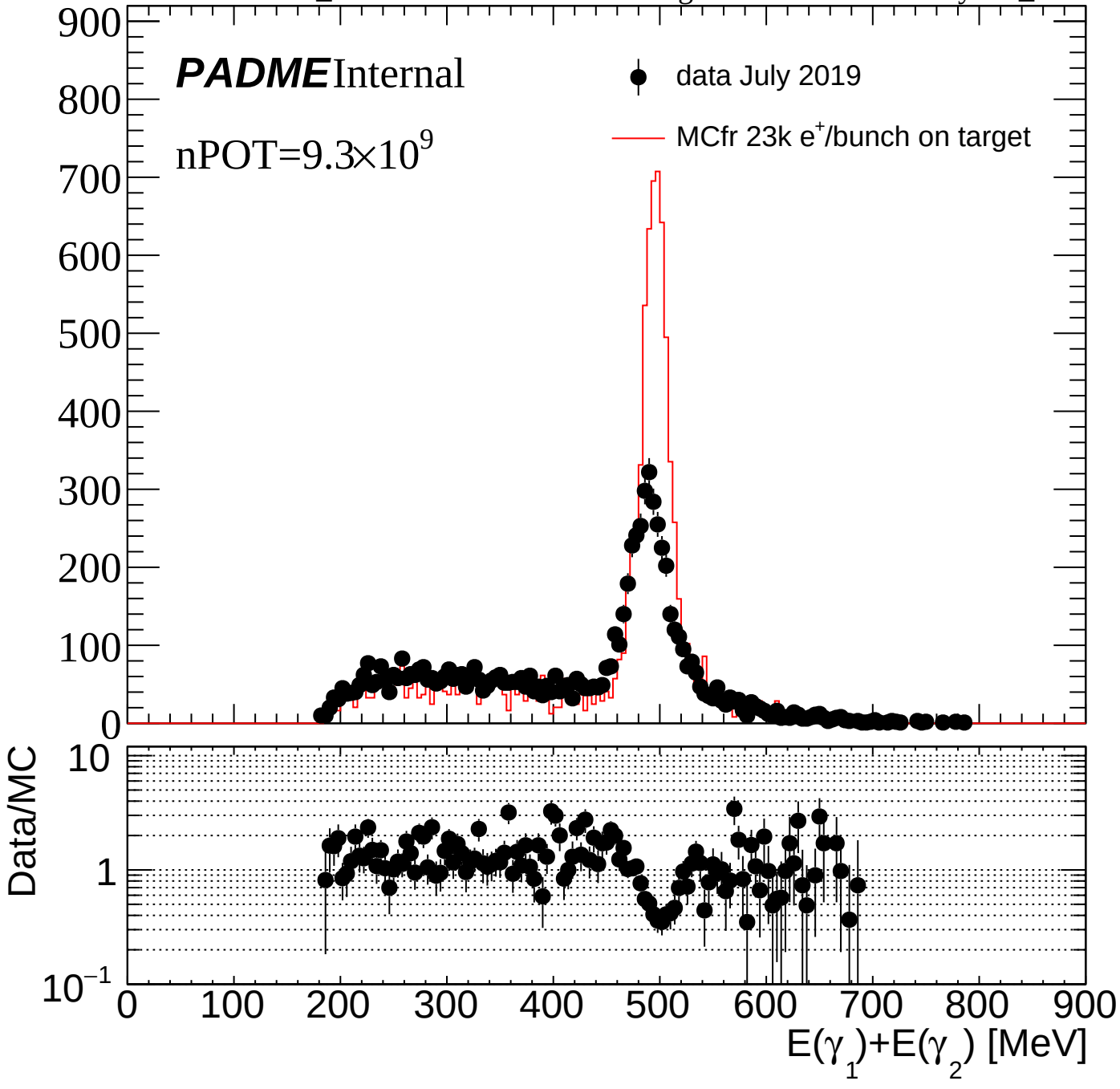

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

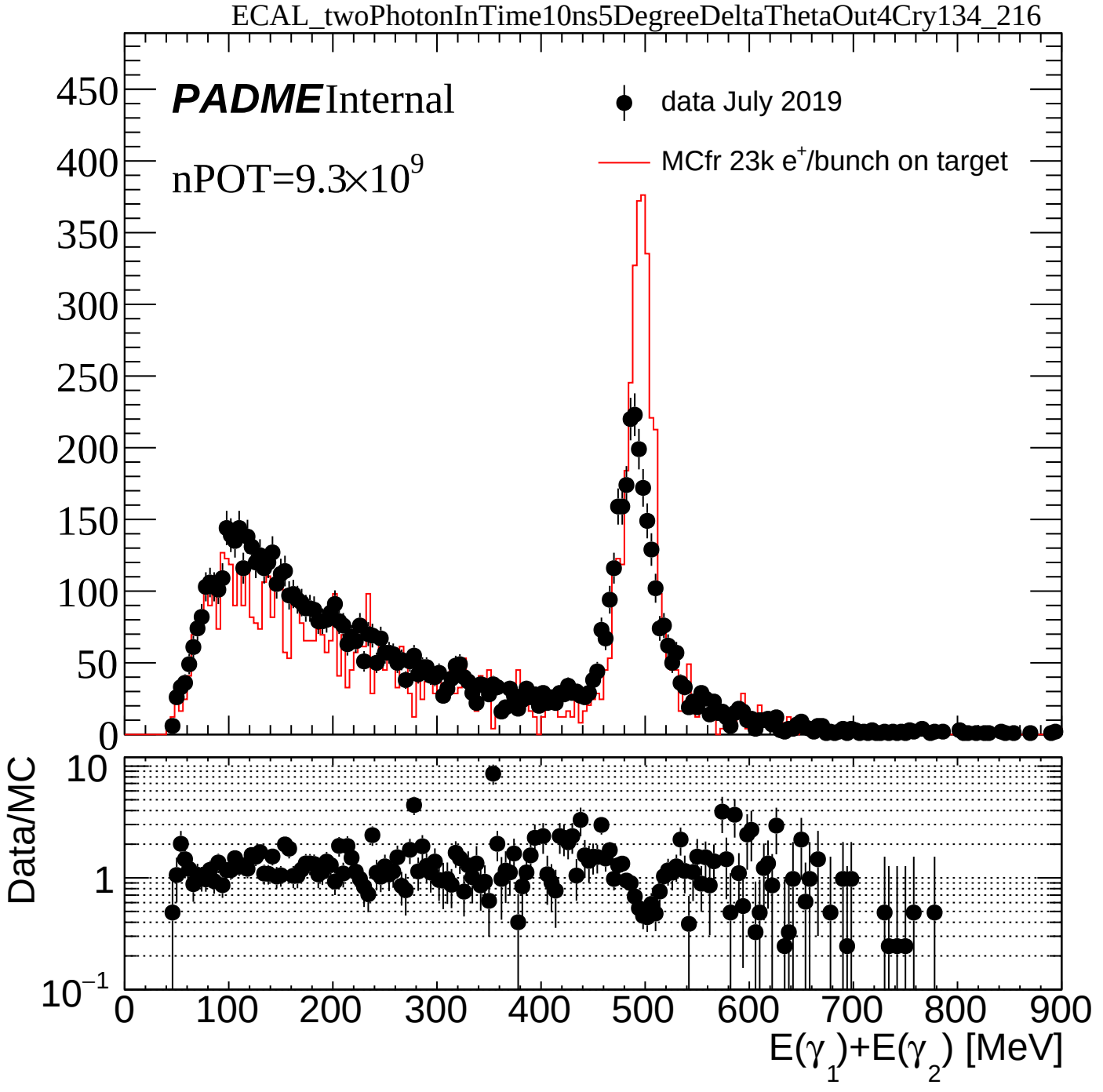

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

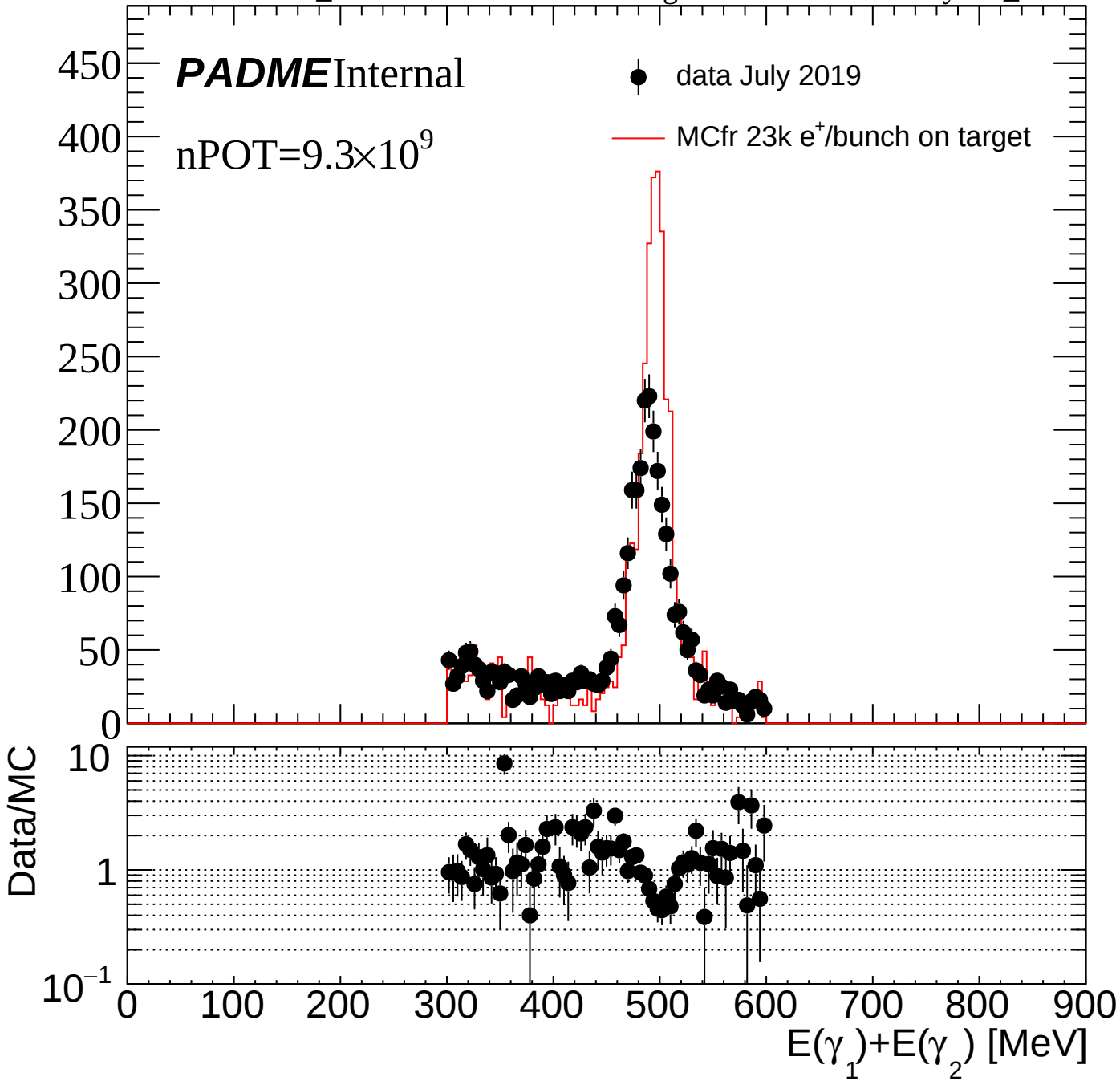

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

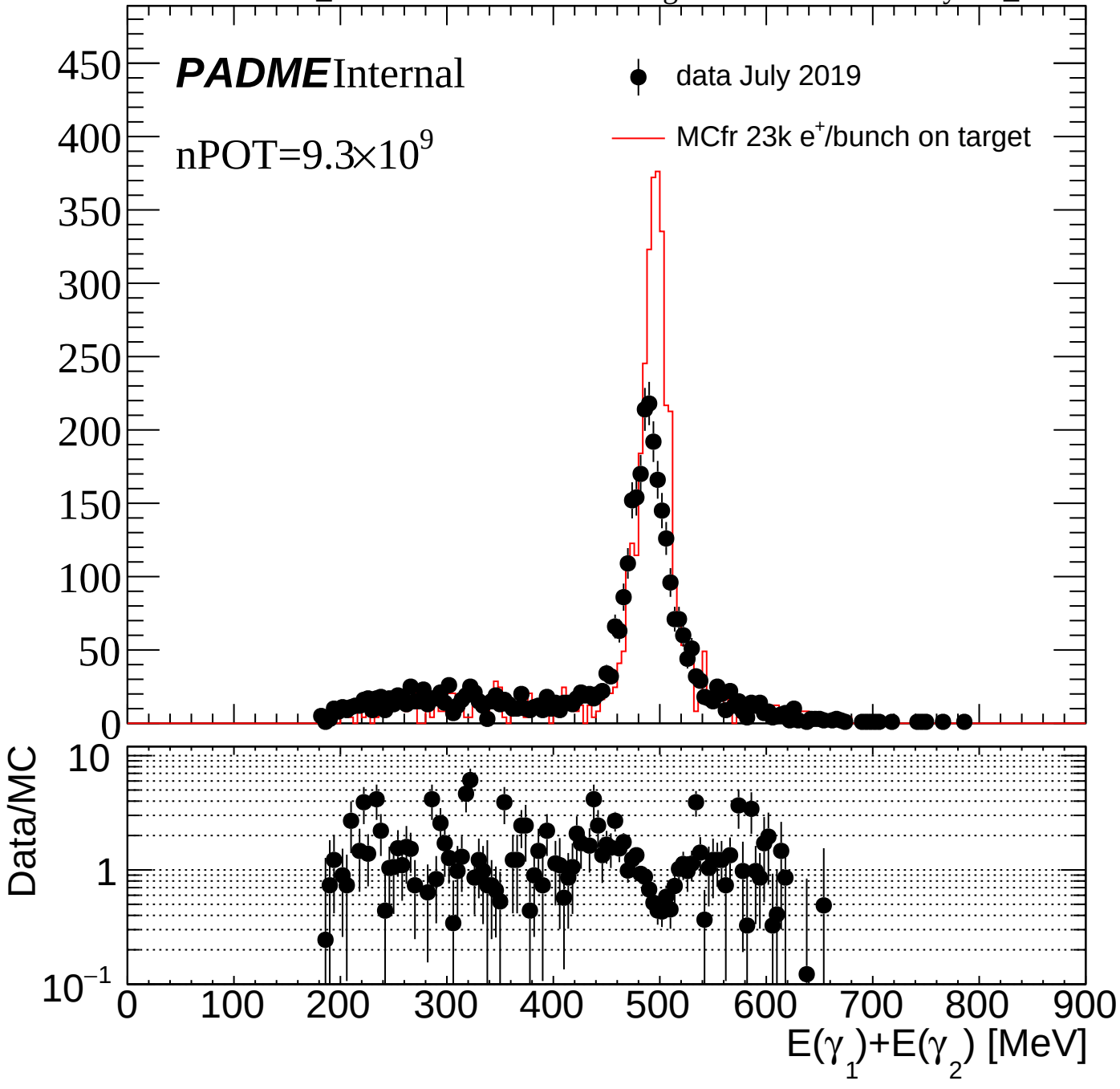

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaOut4Cry134_216
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]

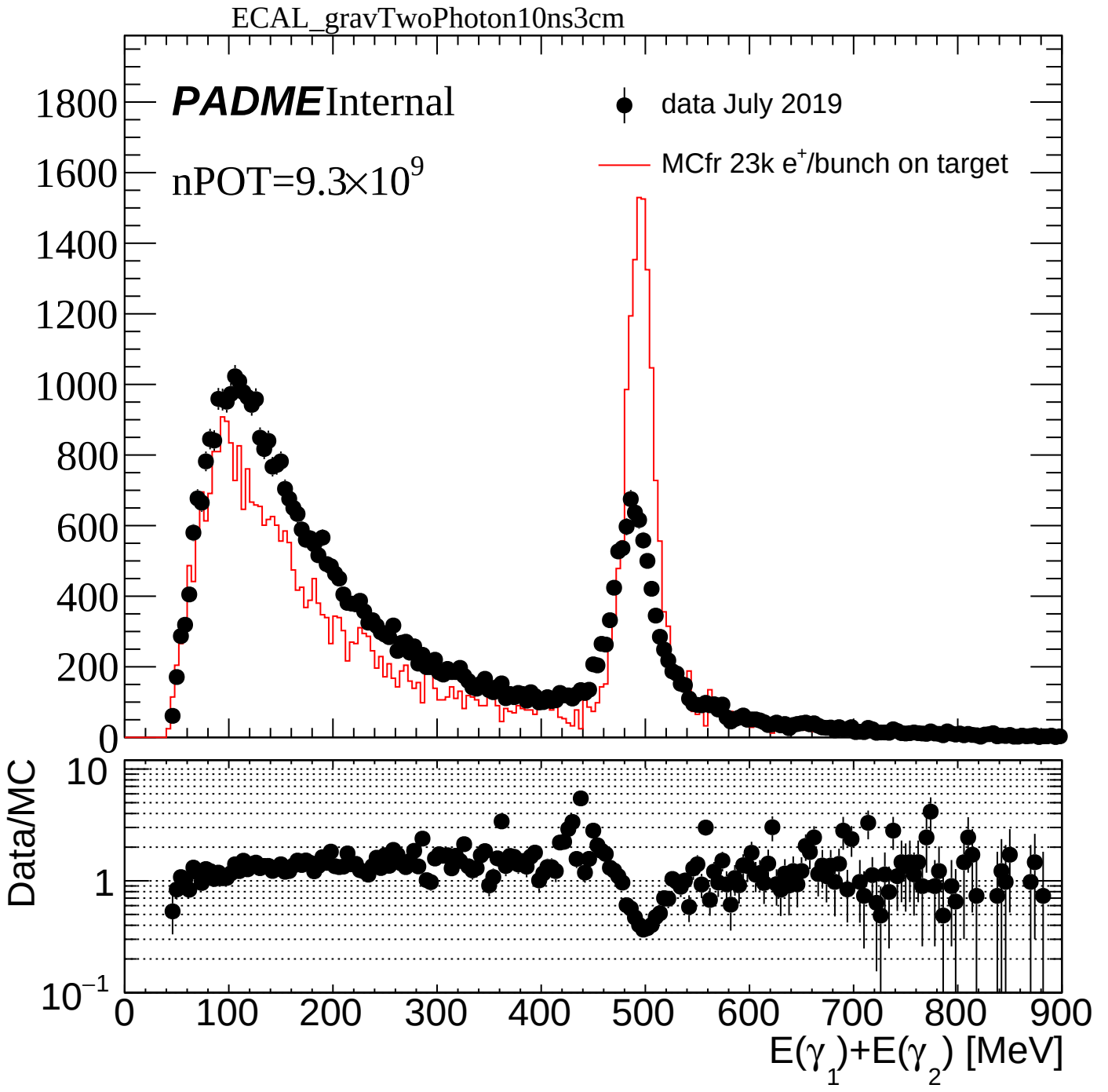

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaOut4Cry134_216Unde
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
800
700
600
500
400
300
200
100
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

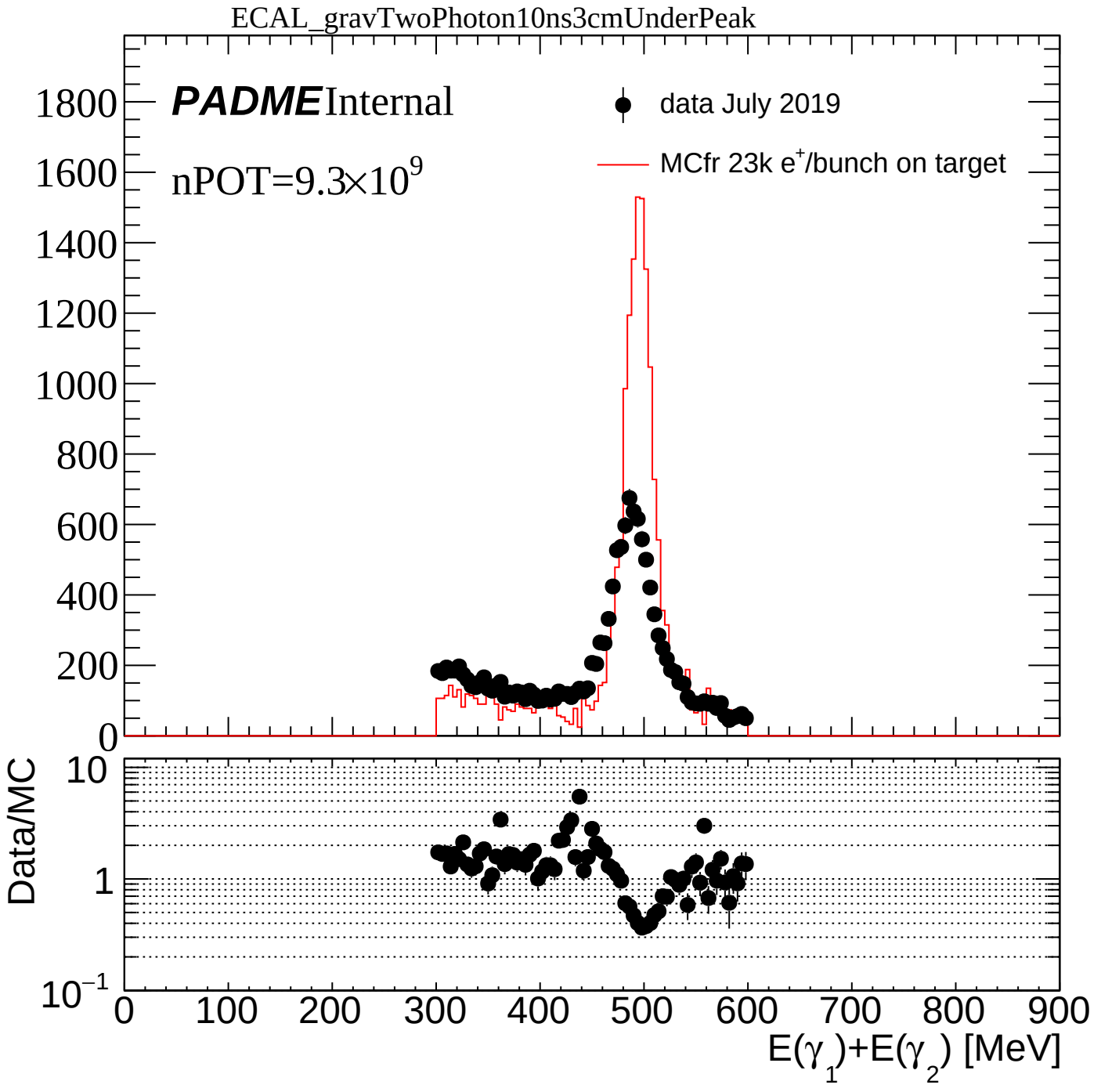

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaOut4Cry134_216EThr
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]

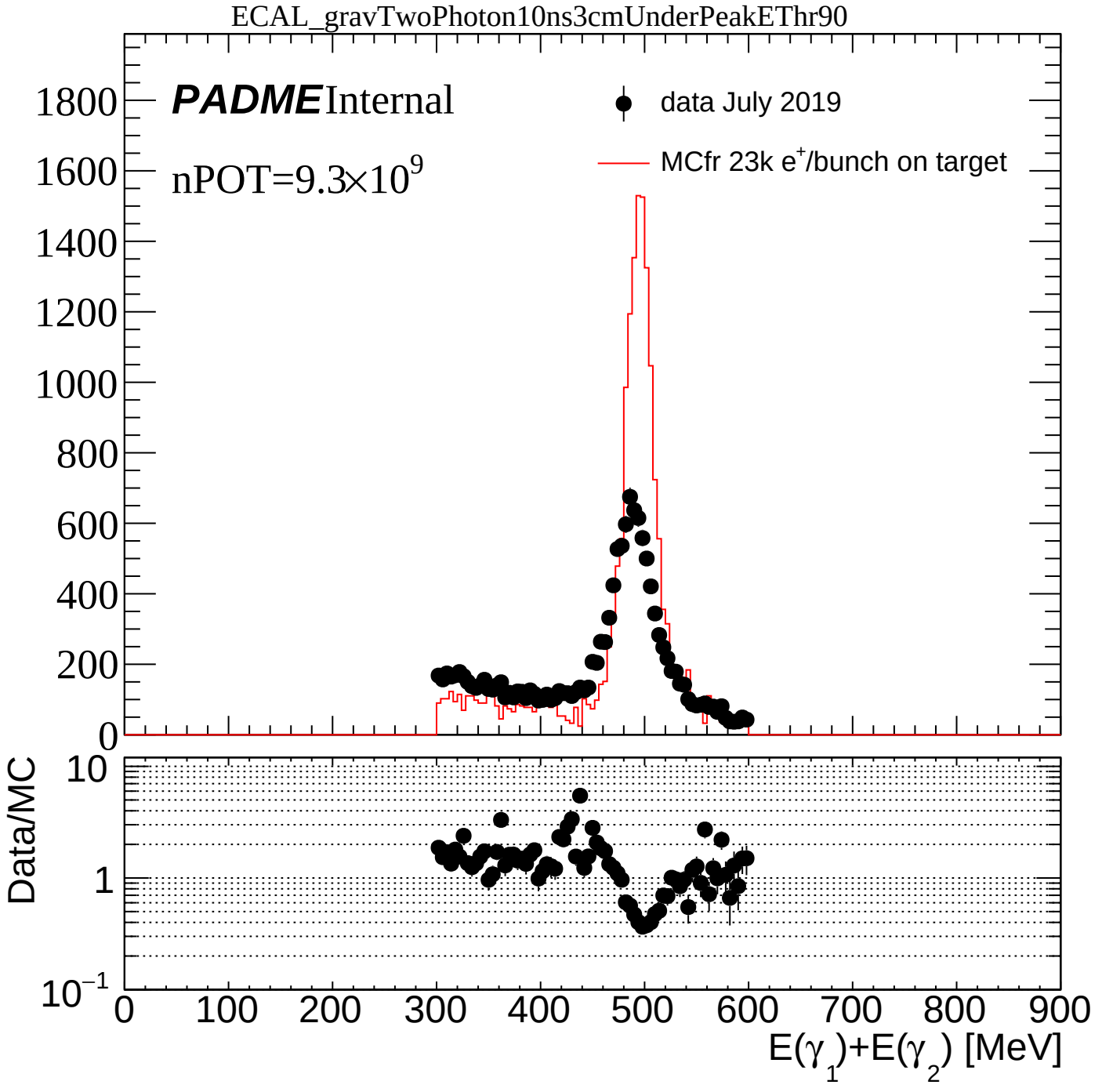

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaOut4Cry134_216
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]

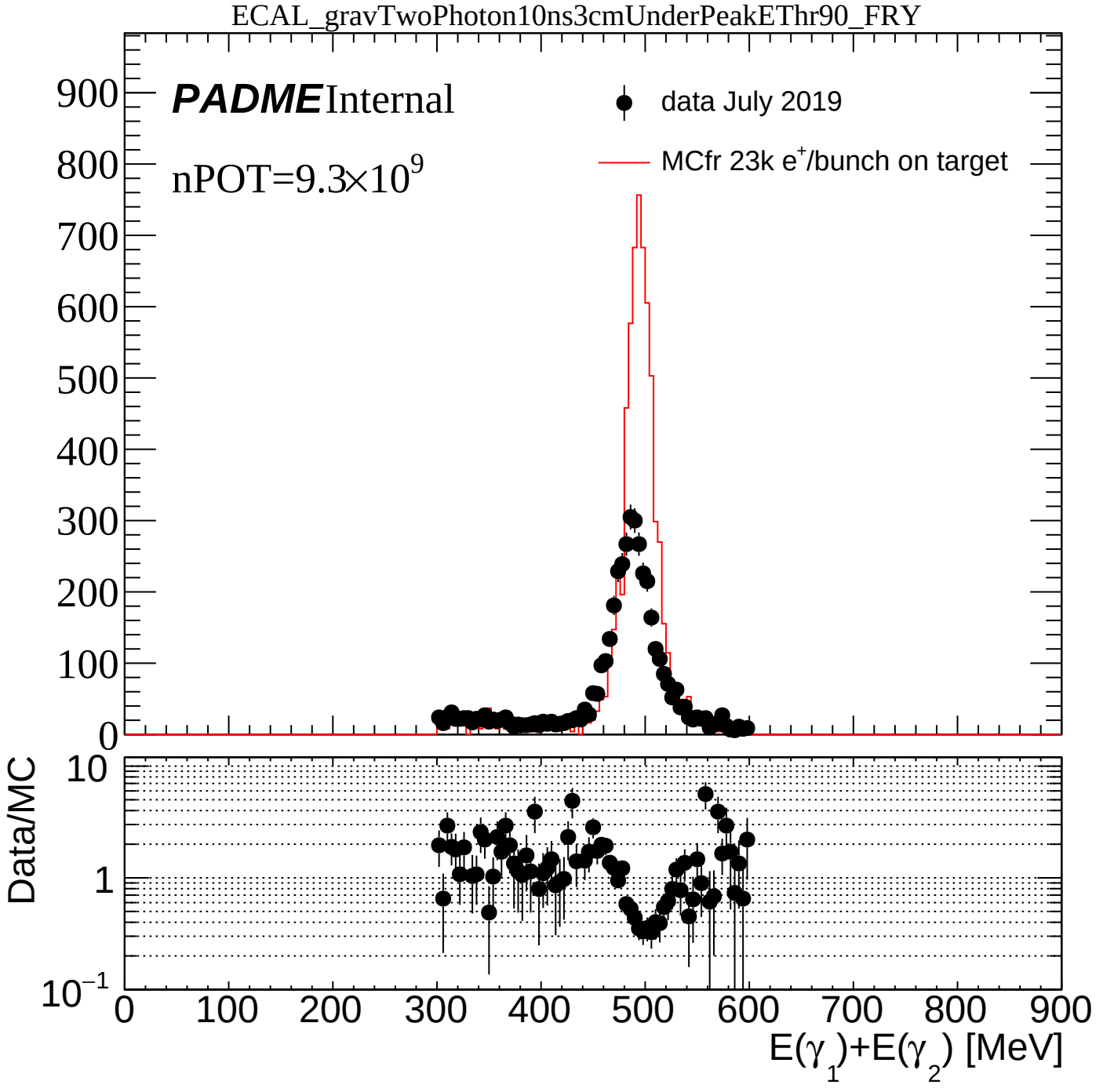

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaOut4Cry134_216Under
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]

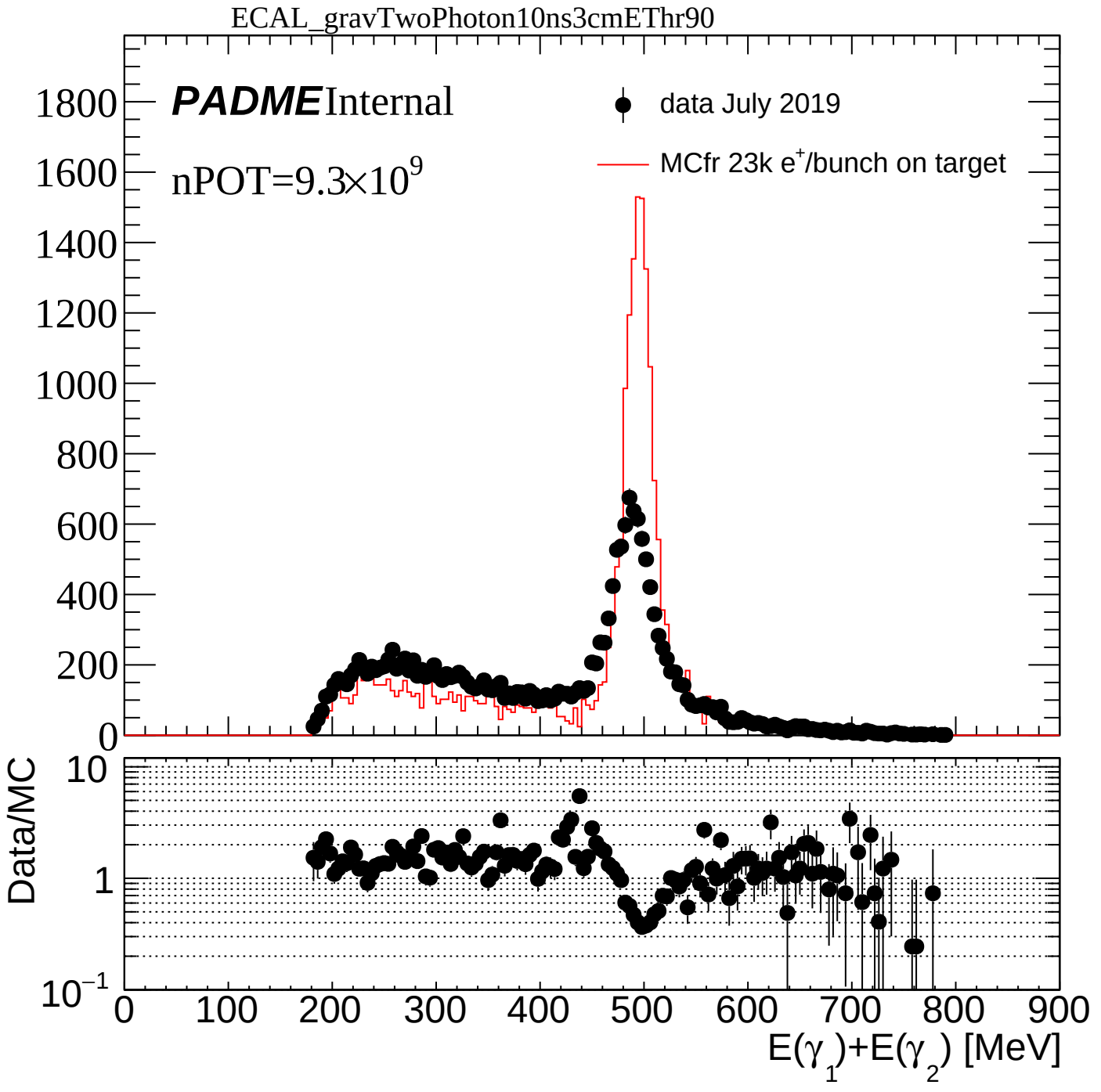

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaOut4Cry134_216EThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
450
400
350
300
250
200
150
100
50
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

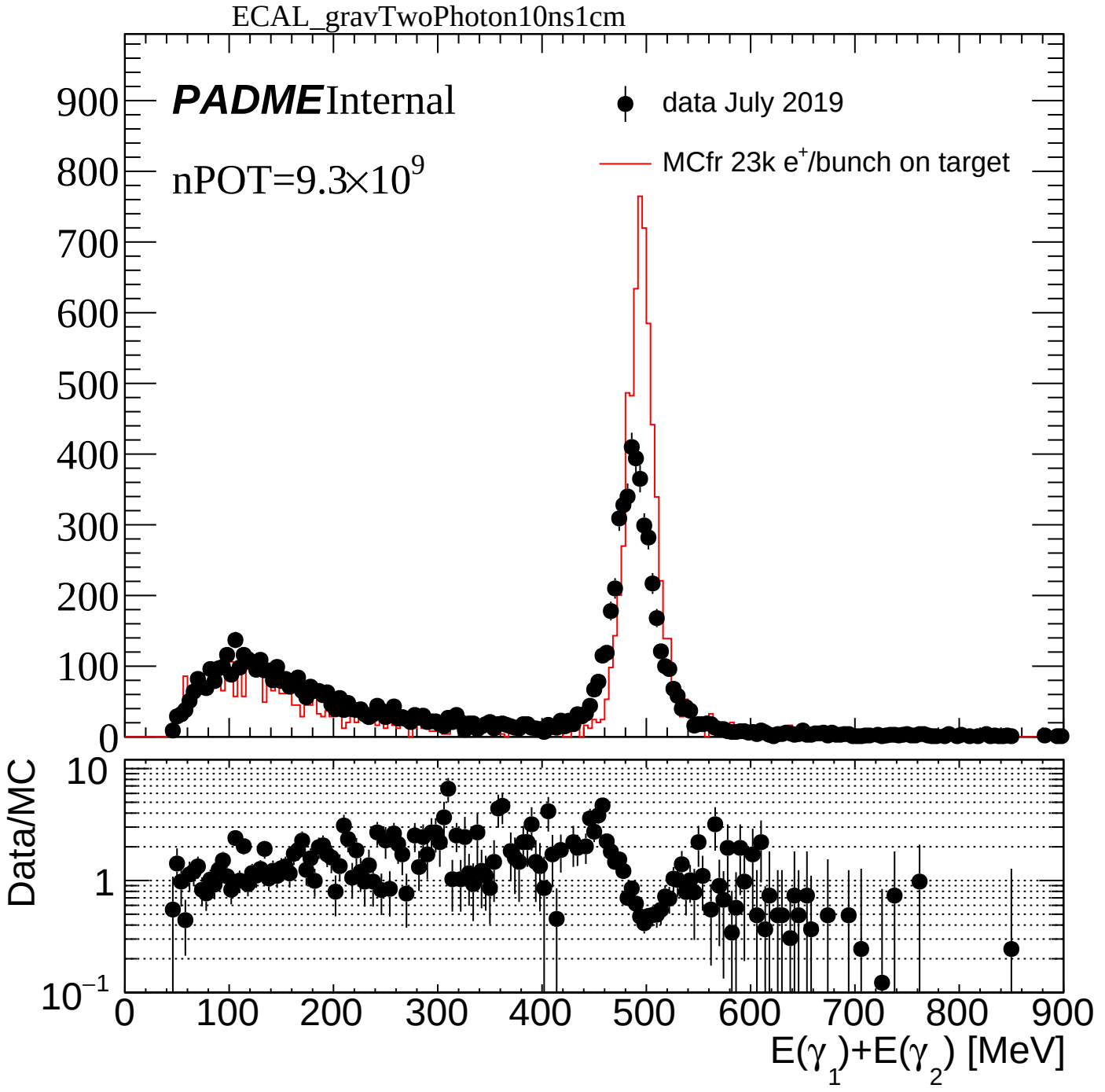

ECAL_gravTwoPhoton10ns3cm
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

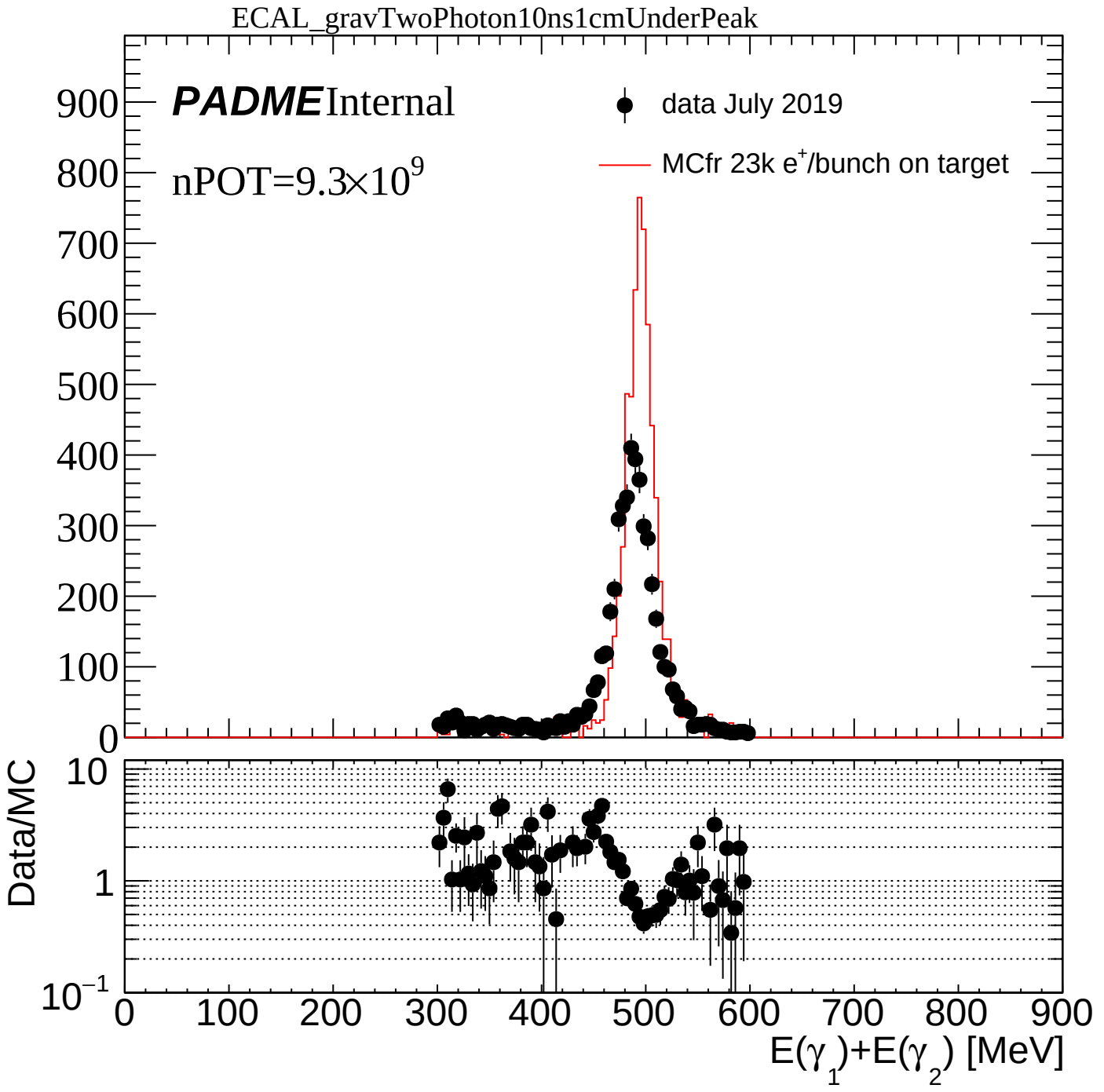

ECAL_gravTwoPhoton10ns3cmUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

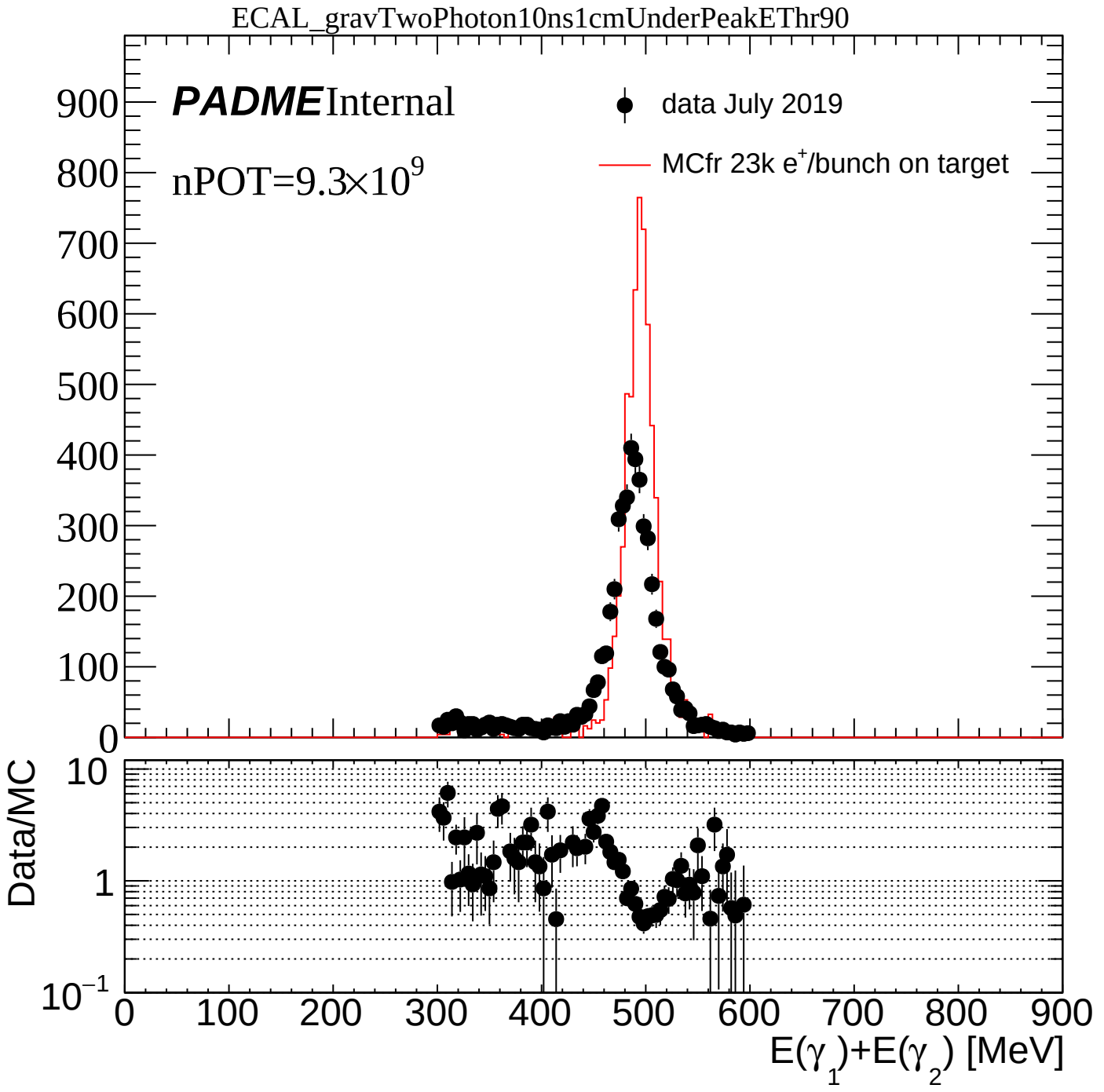

ECAL_gravTwoPhoton10ns3cmUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

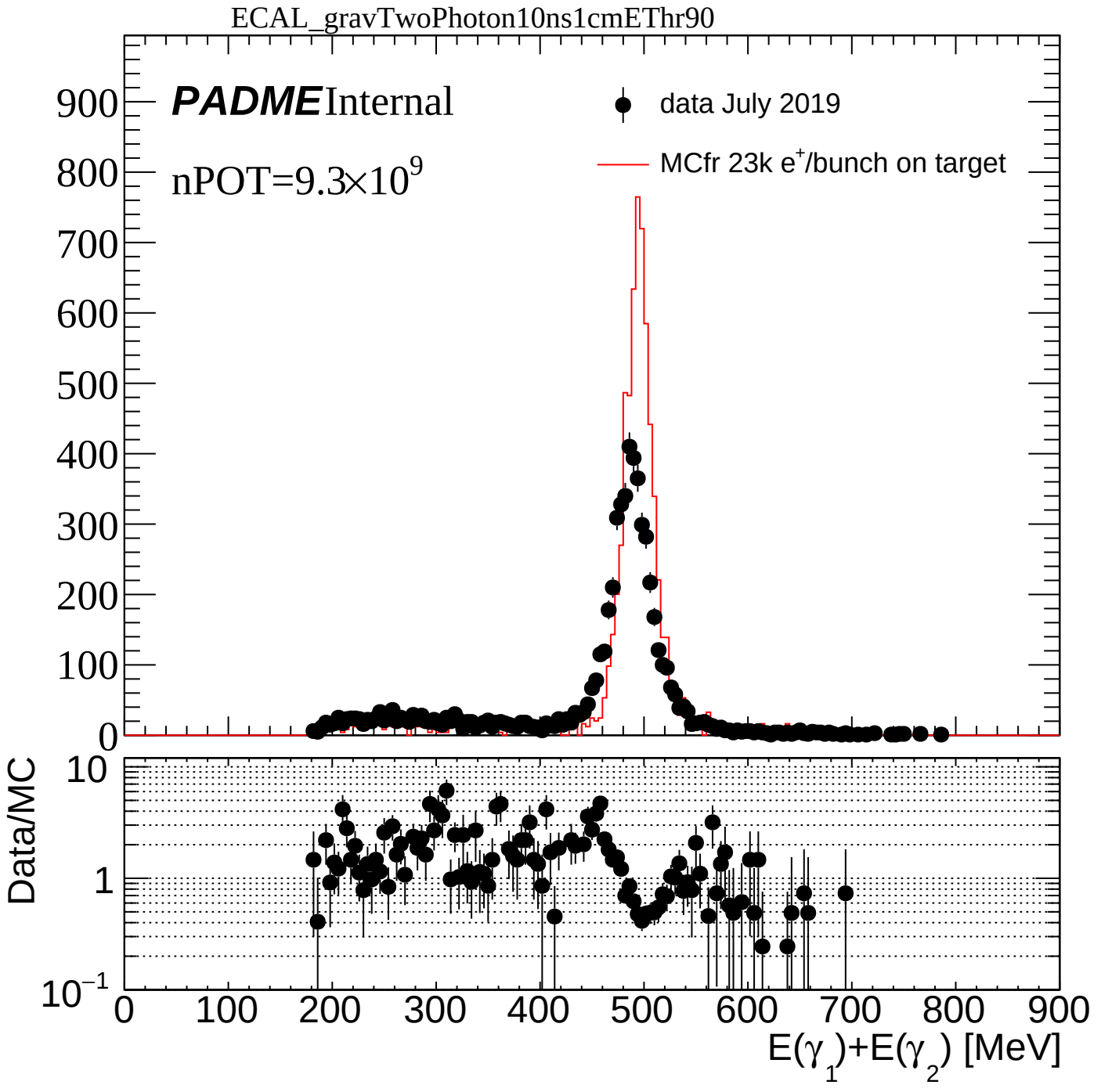

ECAL_gravTwoPhoton10ns3cmUnderPeakEThr90_FRY
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
800
700
600
500
400
300
200
100
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

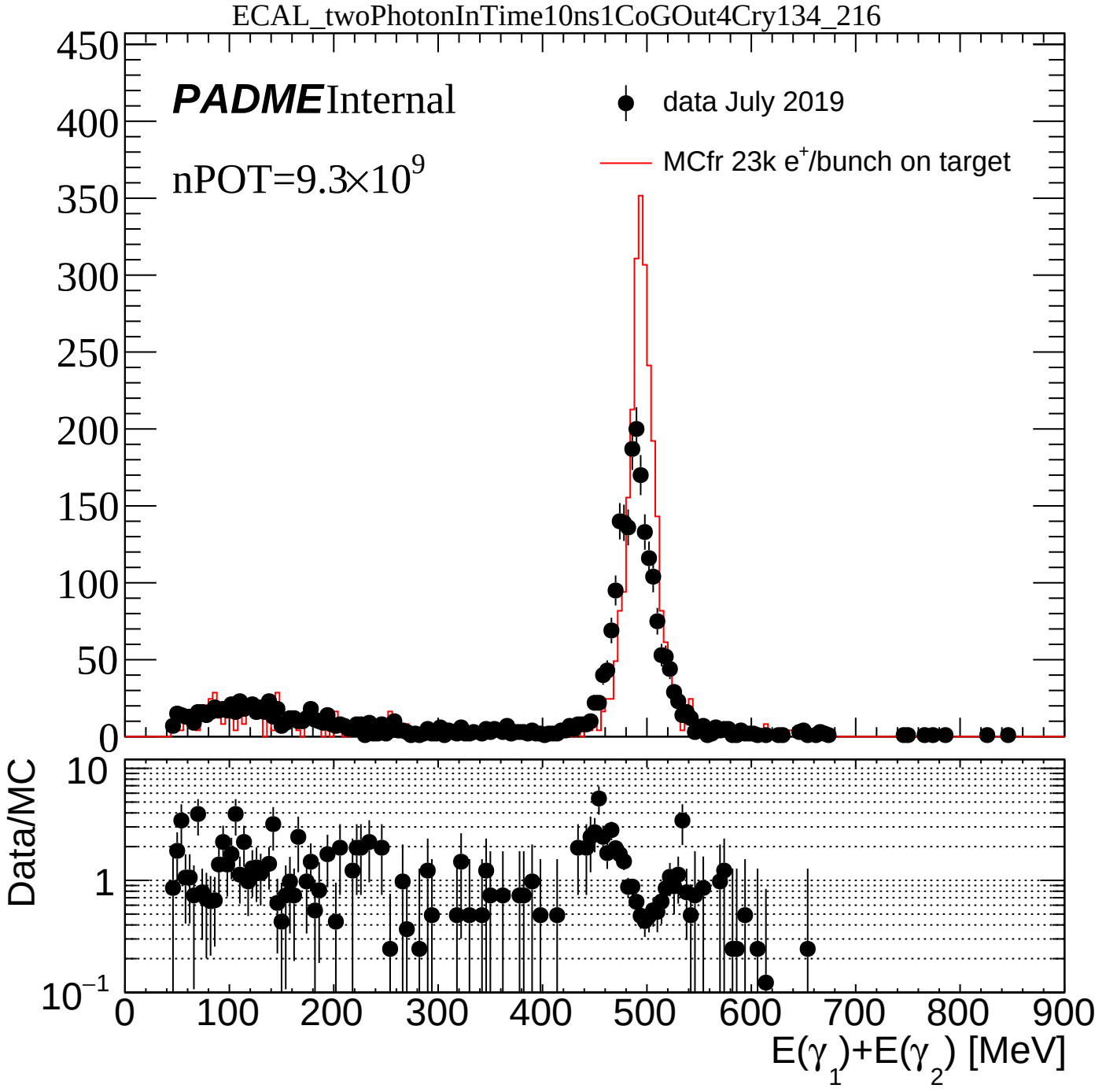

ECAL_gravTwoPhoton10ns3cmEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

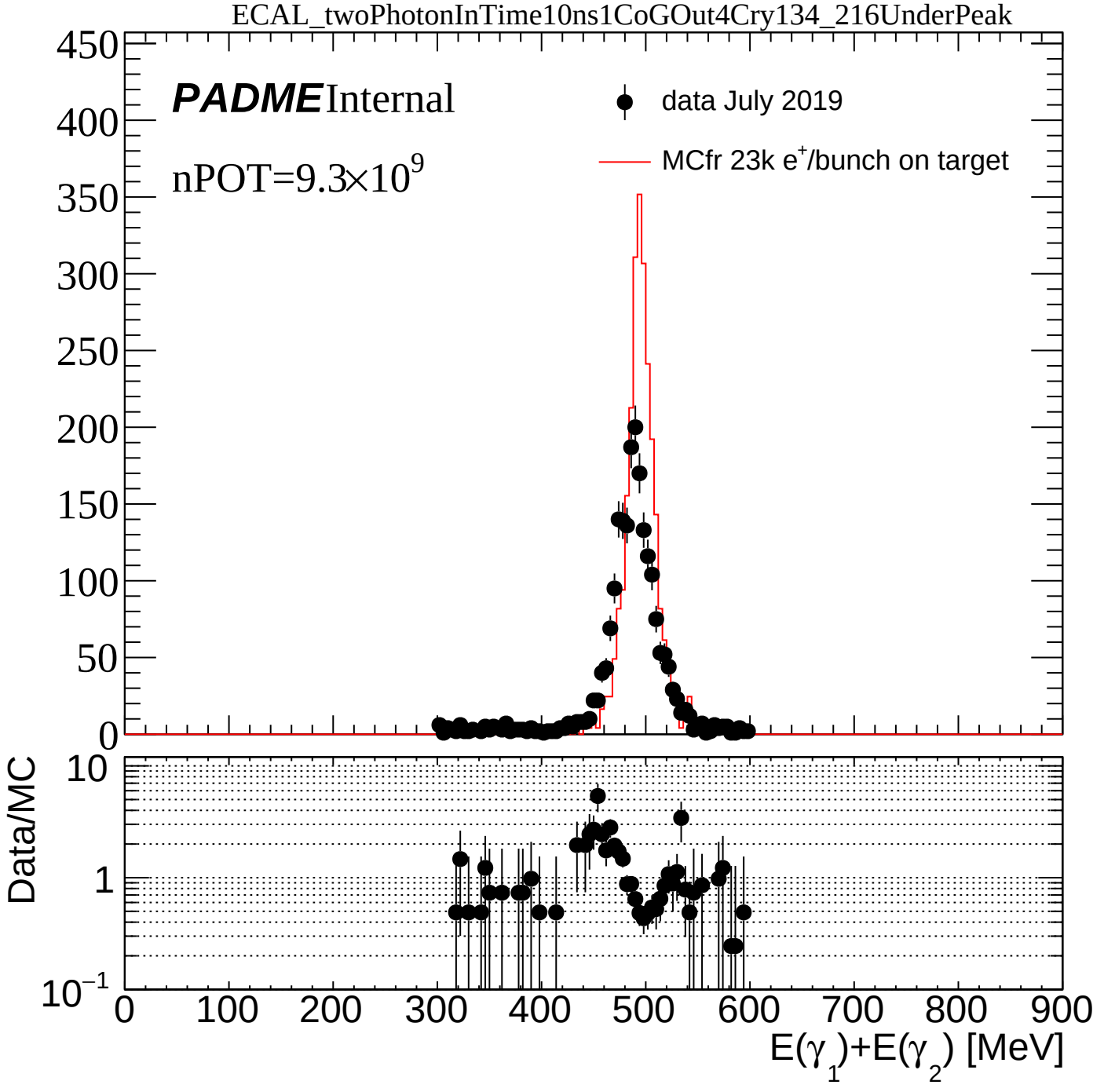

ECAL_gravTwoPhoton10ns1cm
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]

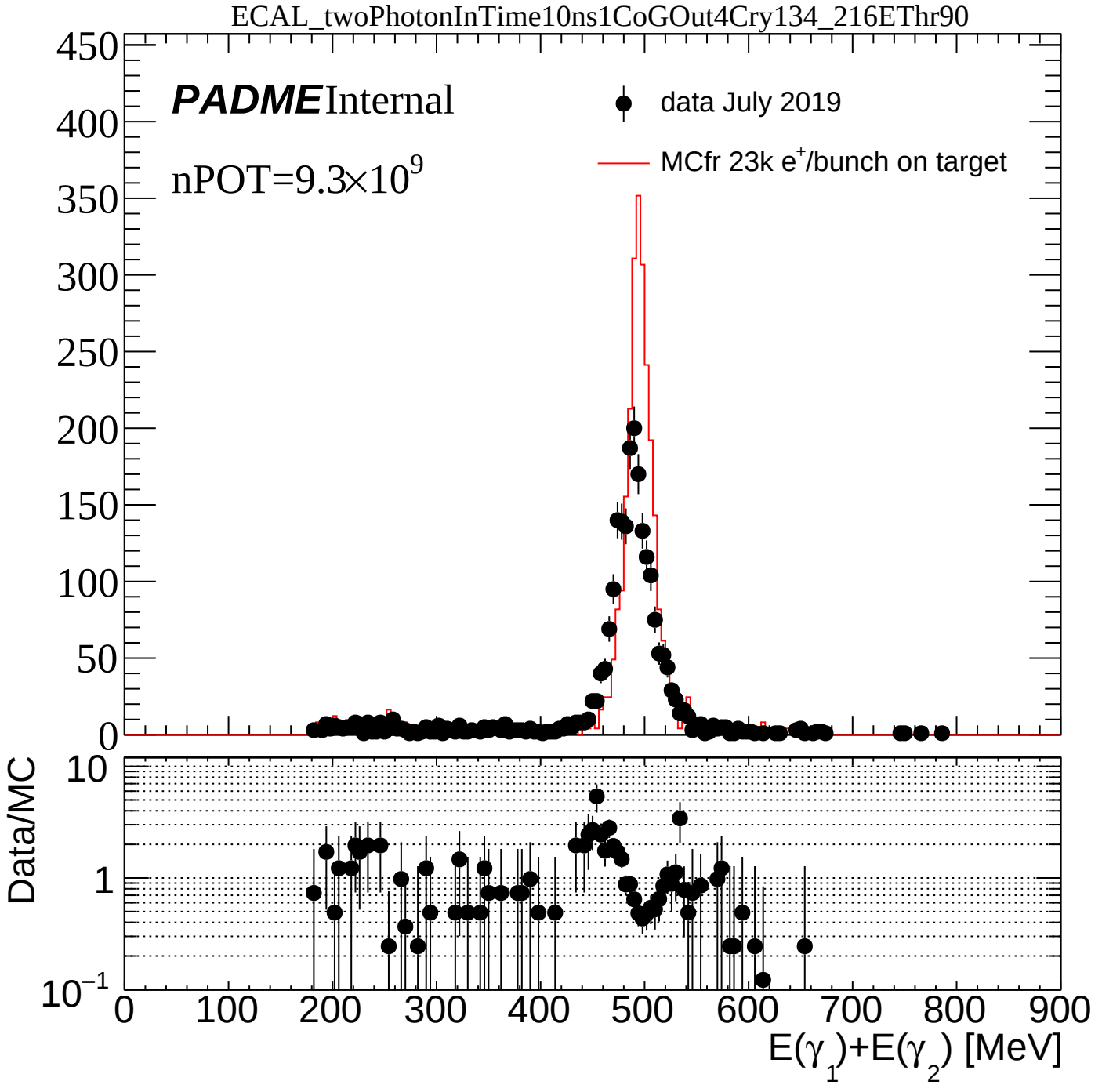

ECAL_gravTwoPhoton10ns1cmUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
800
700
600
500
400
300
200
100
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

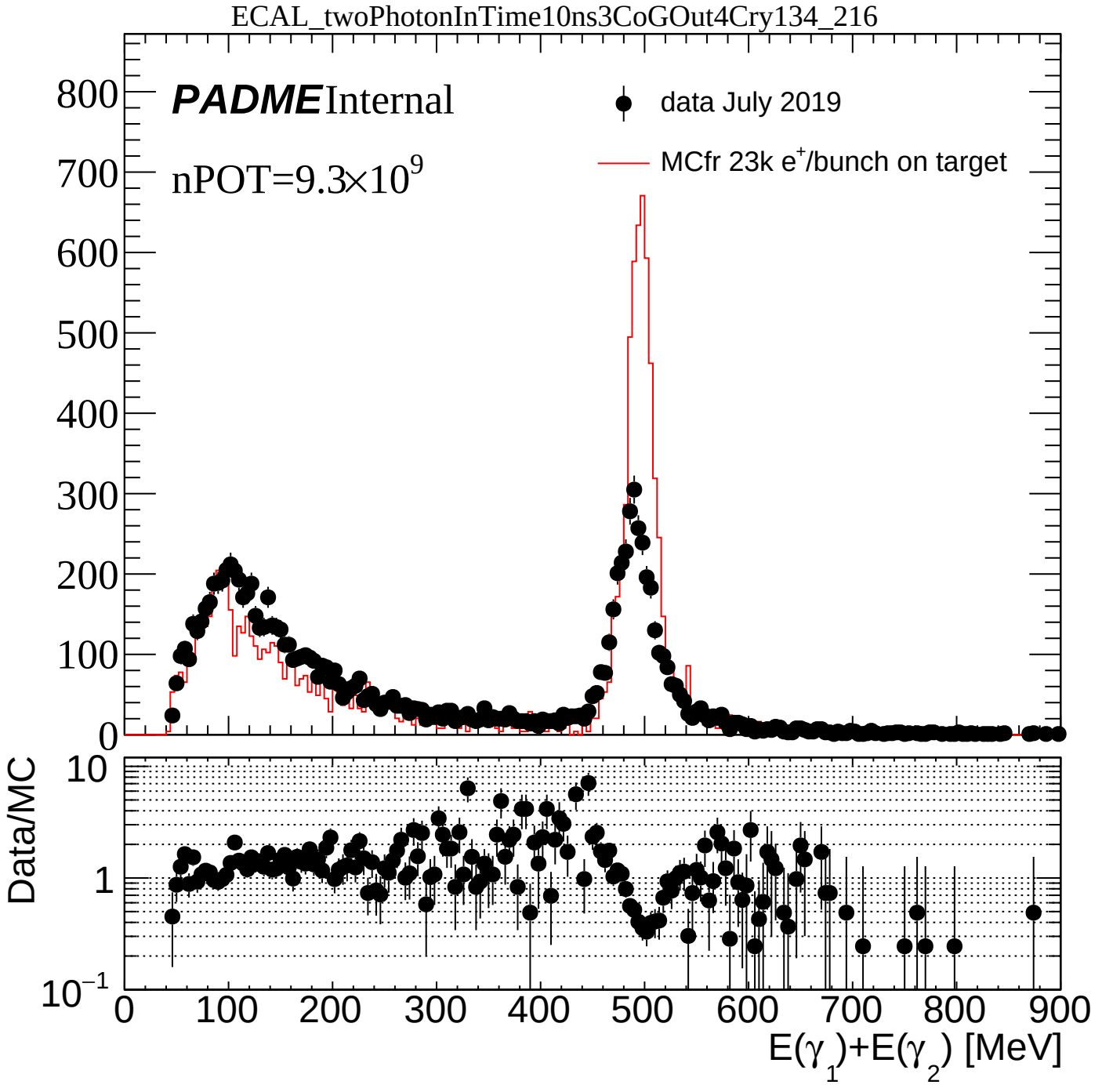

ECAL_gravTwoPhoton10ns1cmUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
800
700
600
500
400
300
200
100
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

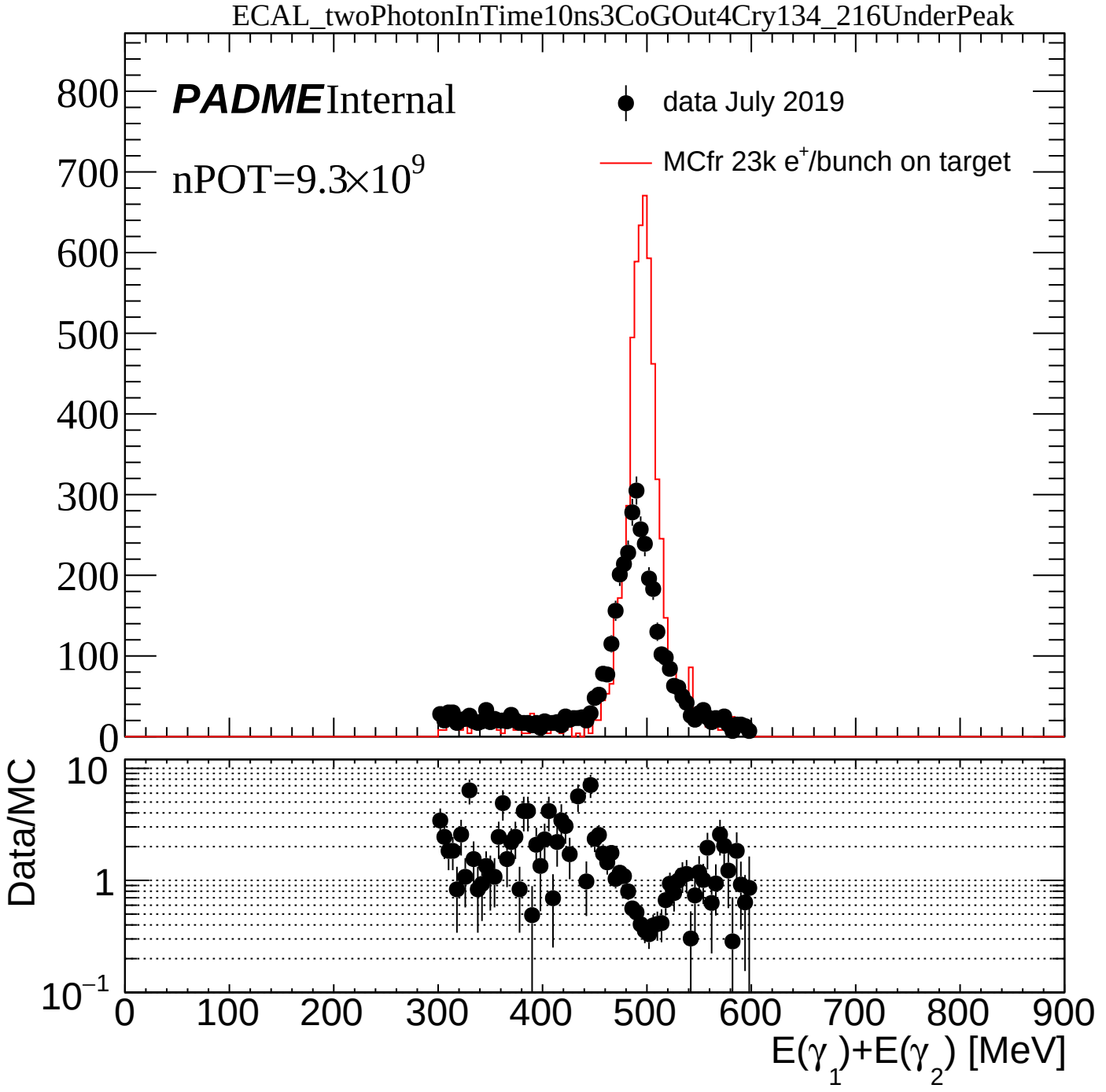

ECAL_gravTwoPhoton10ns1cmEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
800
700
600
500
400
300
200
100
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

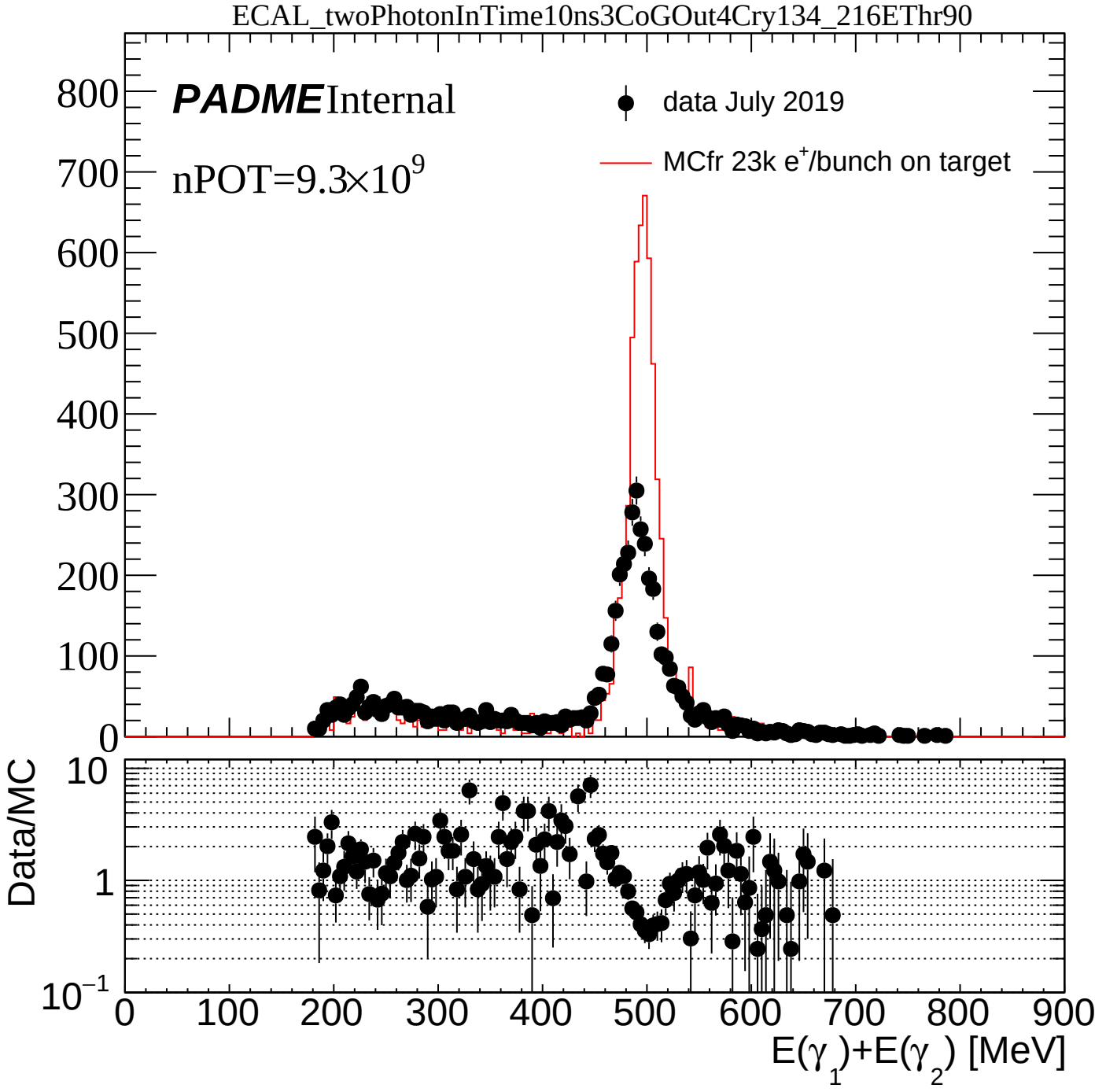

ECAL_twoPhotonInTime10ns1CoGOut4Cry134_216
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]

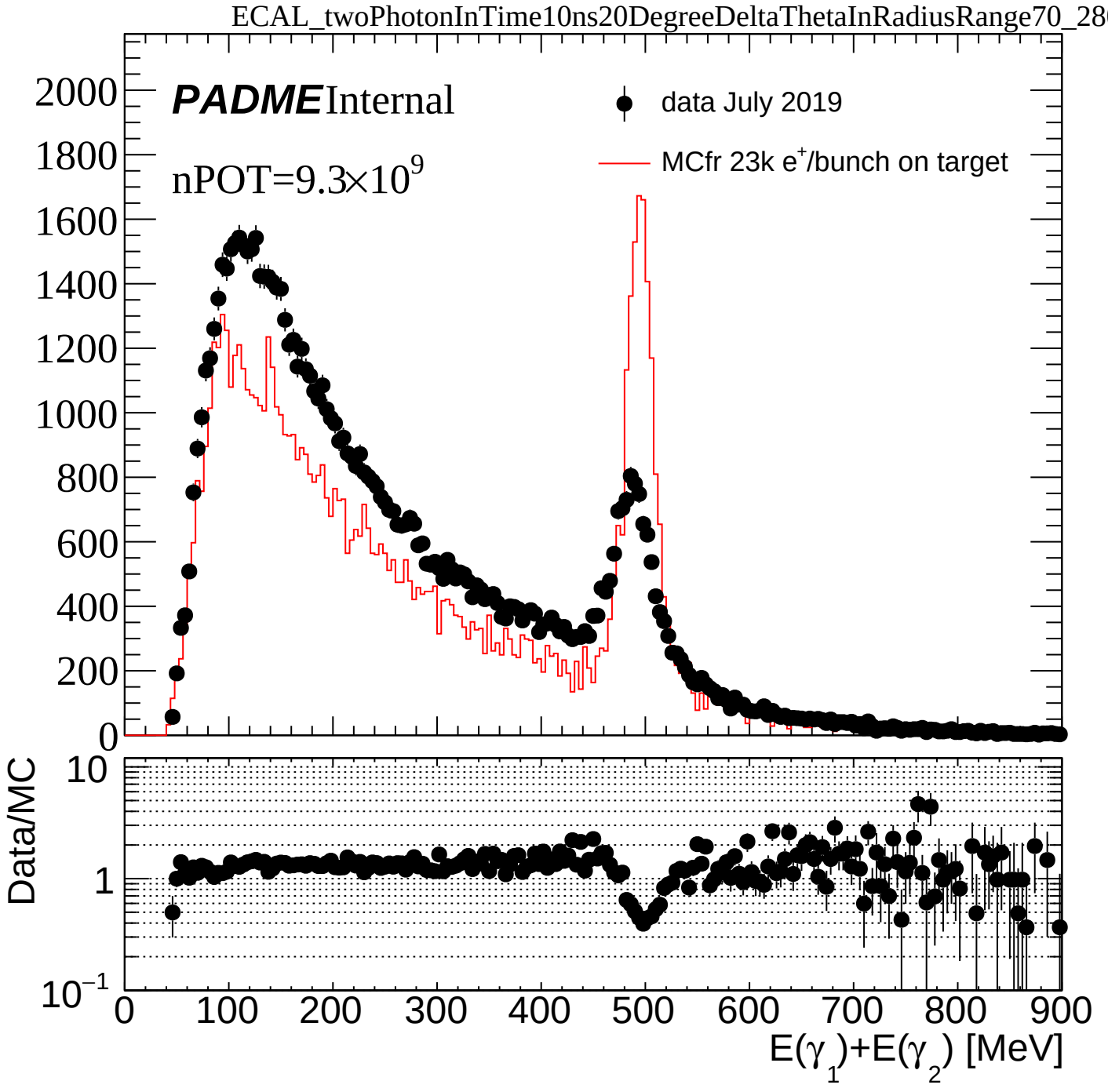

ECAL_twoPhotonInTime10ns1CoGOut4Cry134_216UnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]

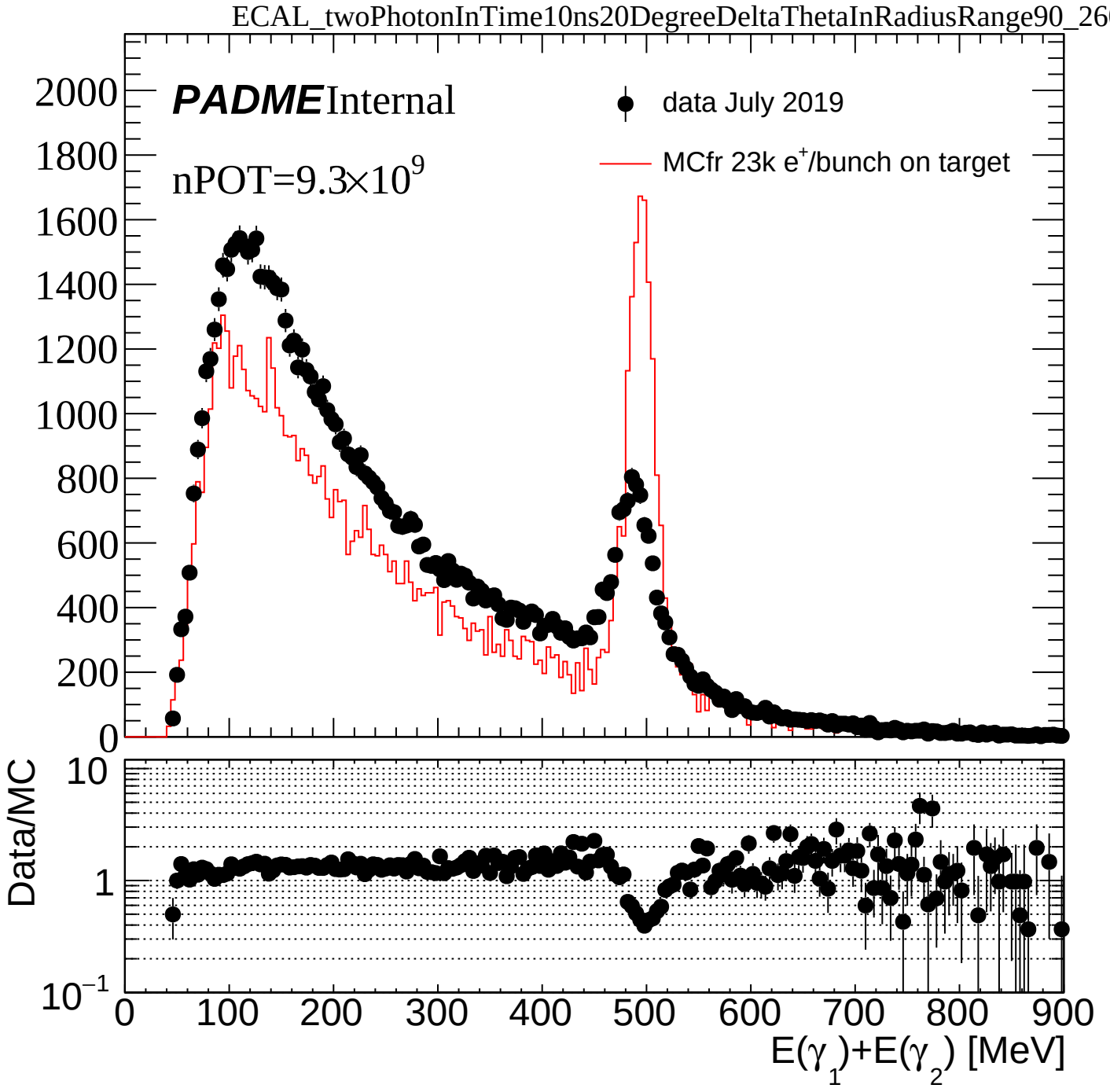

ECAL_twoPhotonInTime10ns1CoGOut4Cry134_216EThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
450
400
350
300
250
200
150
100
50
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns3CoGOut4Cry134_216
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns3CoGOut4Cry134_216UnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
800
700
600
500
400
300
200
100
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns3CoGOut4Cry134_216EThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
800
700
600
500
400
300
200
100
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_260
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
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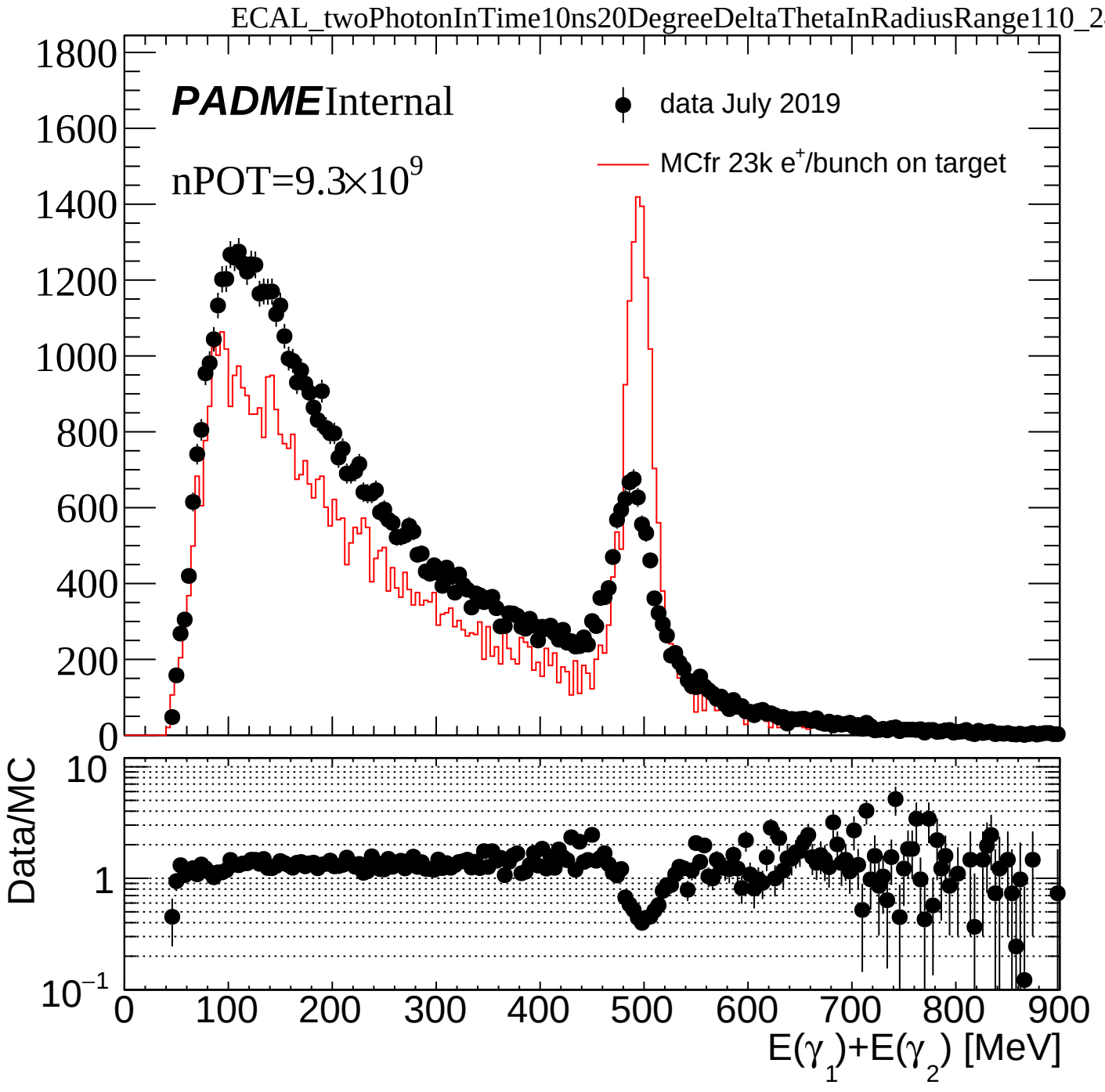
700
800
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110_24
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1800
1600
1400
1200
1000
800
600
400
200
0
Data/MC
10
1
10^−1
0
100
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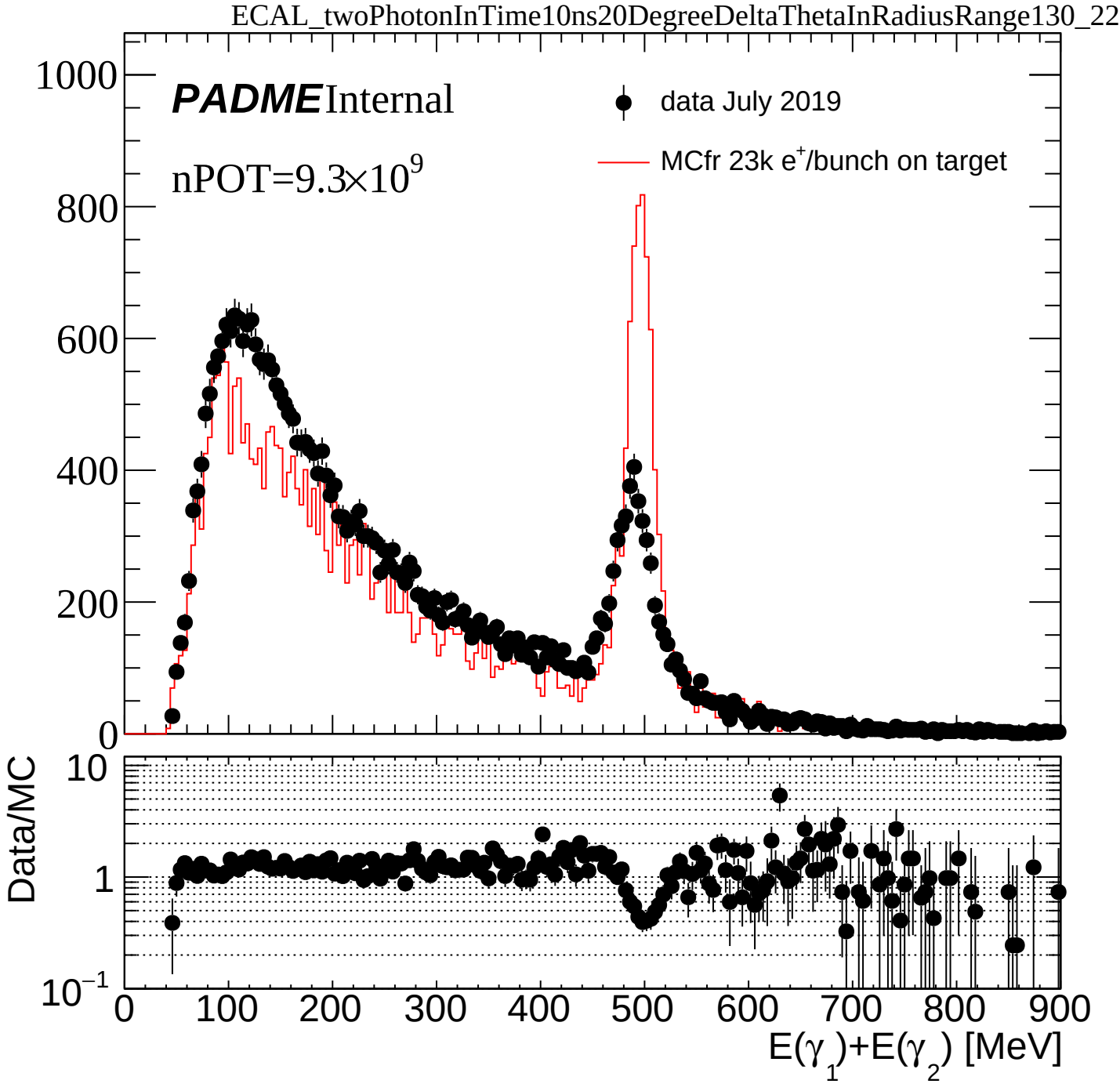
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_22
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1000
800
600
400
200
0
Data/MC
10
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10^−1
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100
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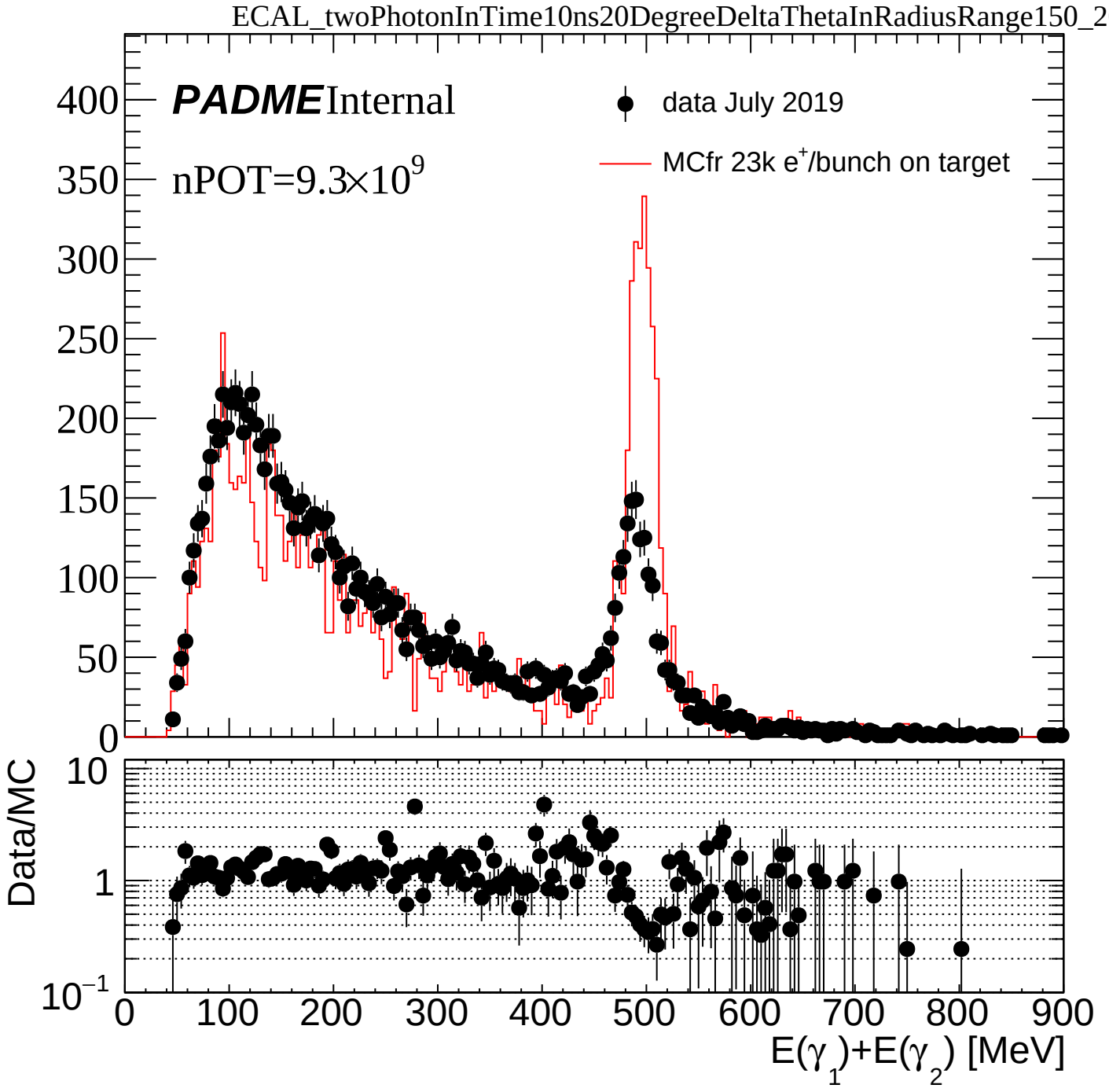
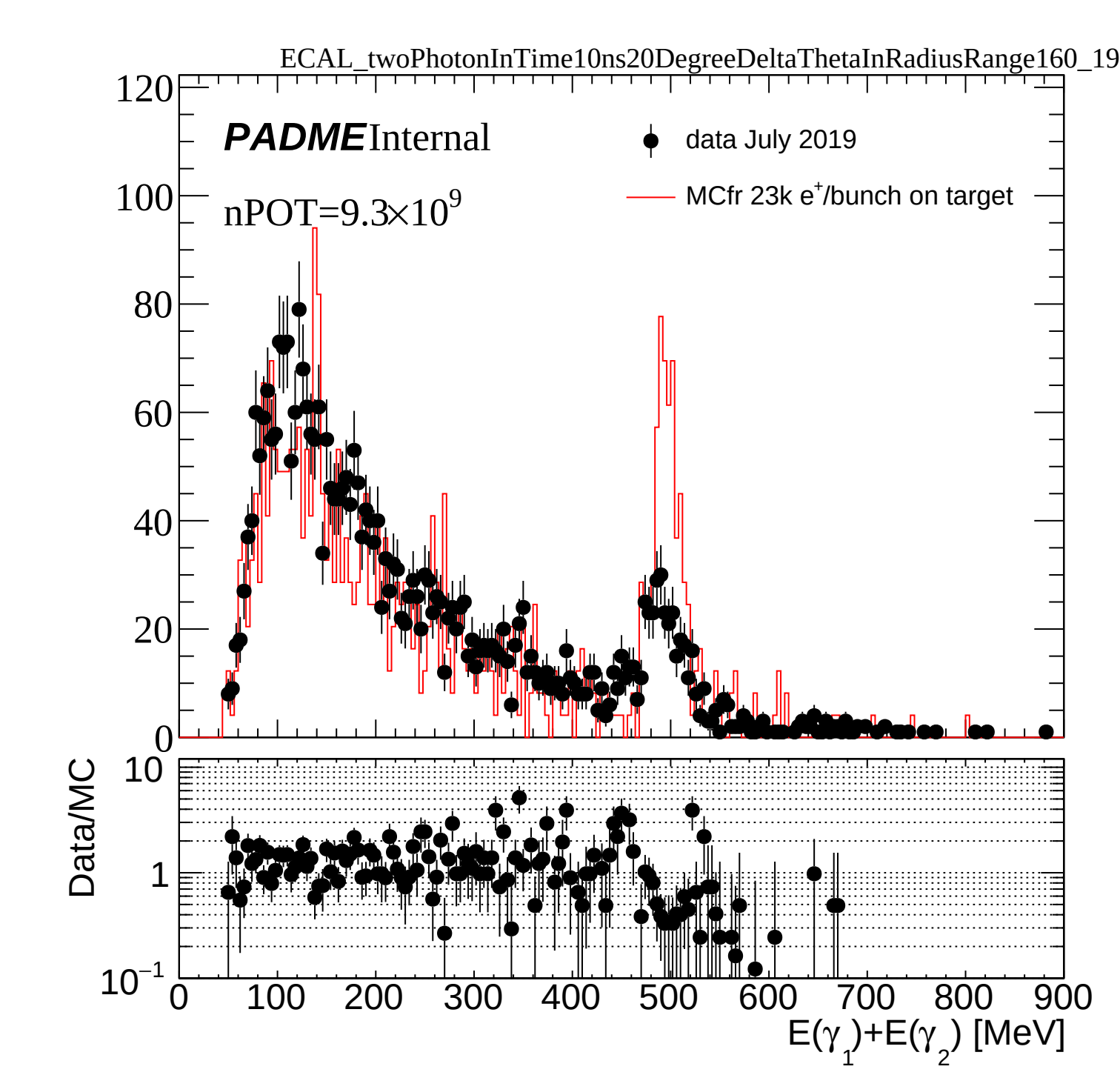
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_20
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_19
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
120
100
80
60
40
20
0
Data/MC
10
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10^−1
0
100
200
300
400
500
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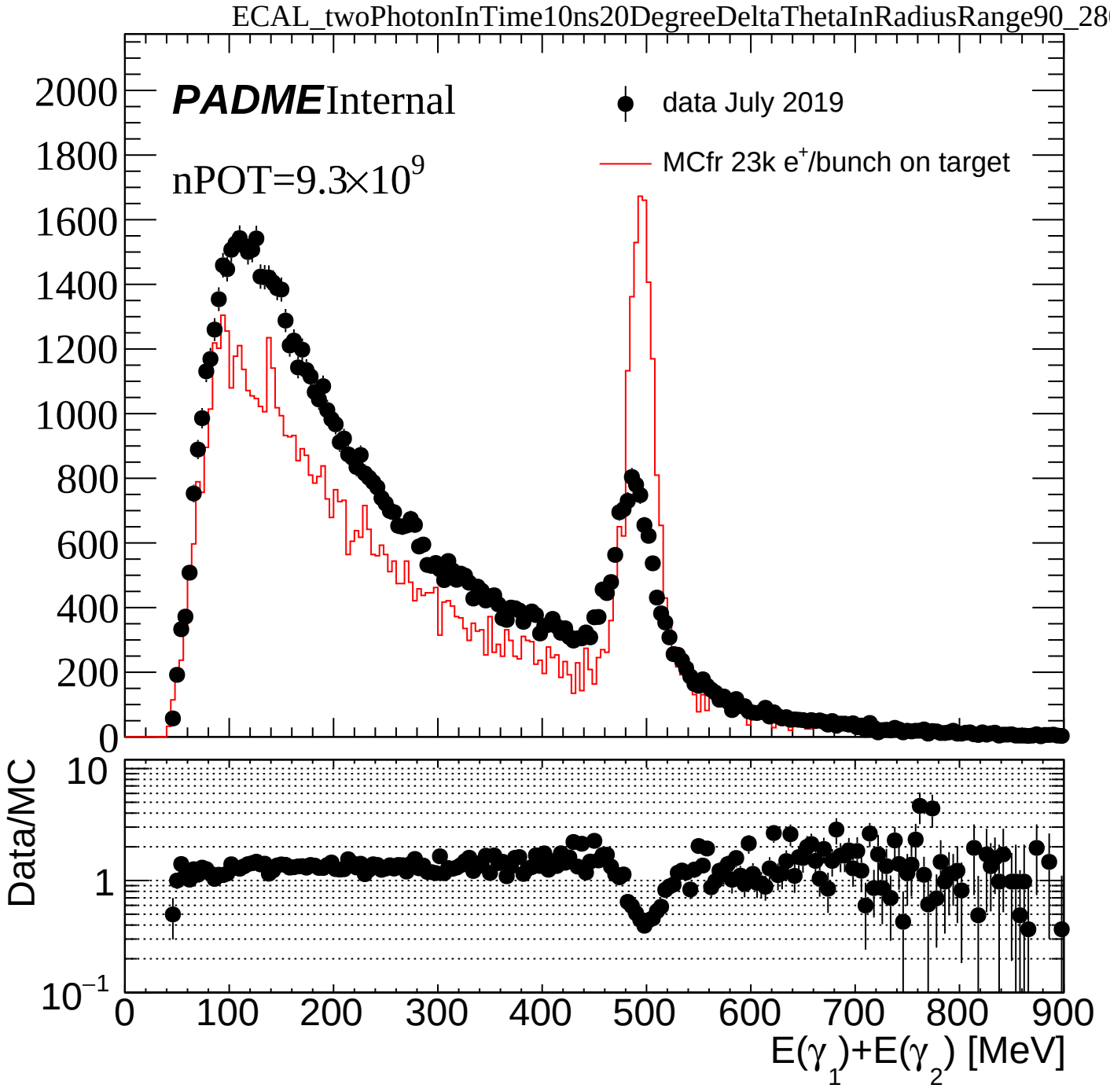
700
800
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2000
1800
1600
1400
1200
1000
800
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Data/MC
10
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10^−1
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100
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300
400
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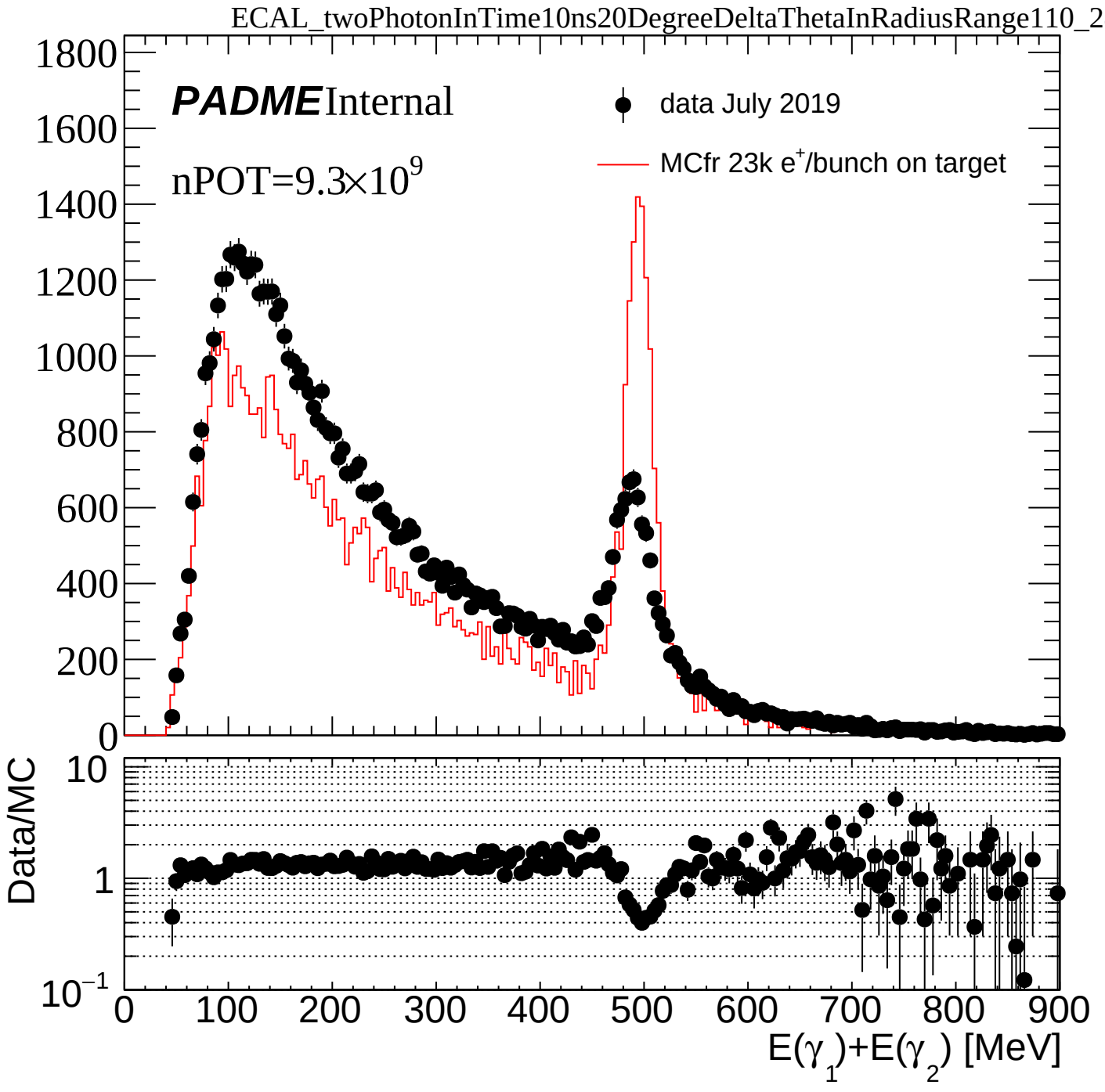
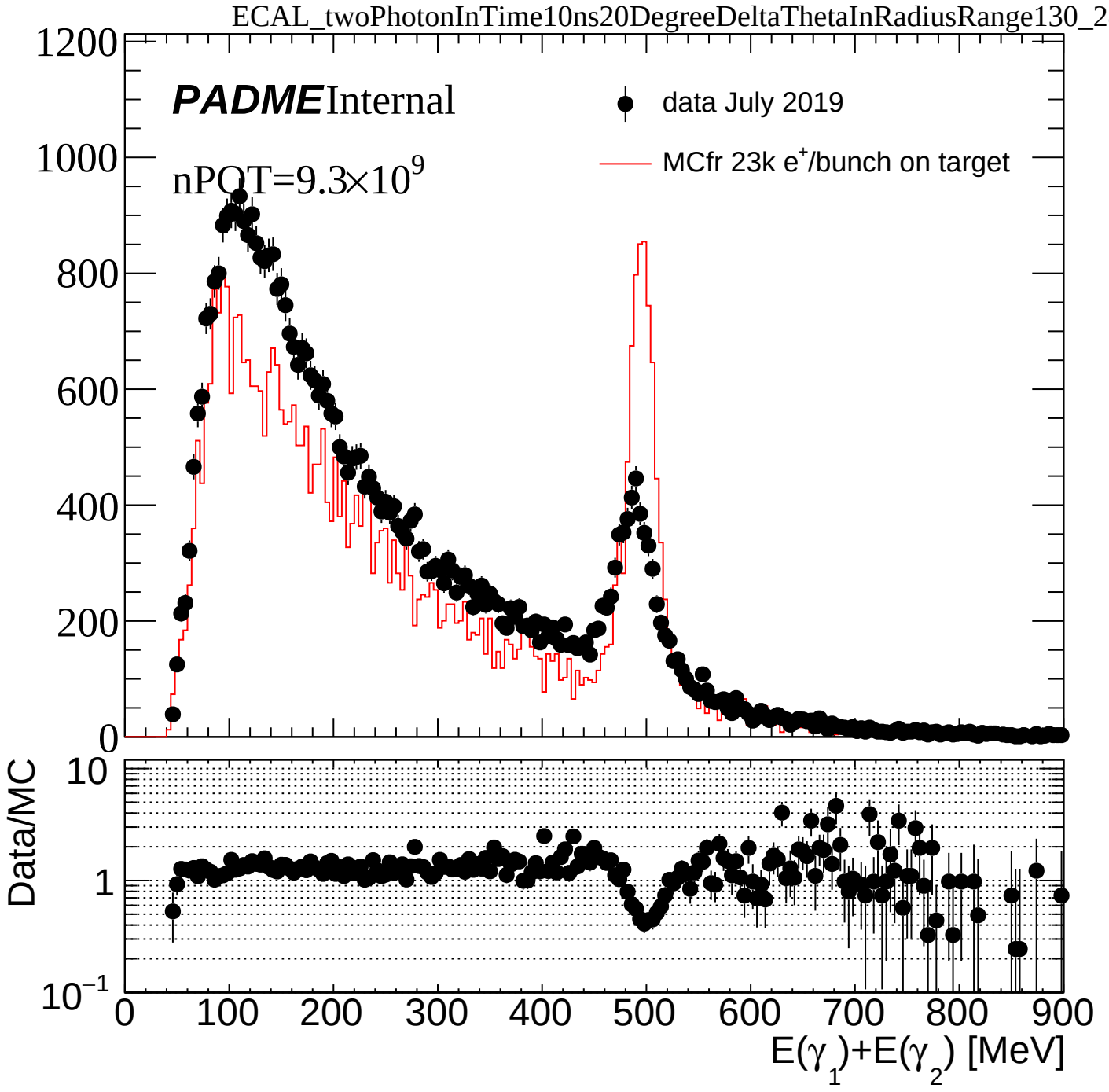
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110_28
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_28
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1200
1000
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Data/MC
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10^−1
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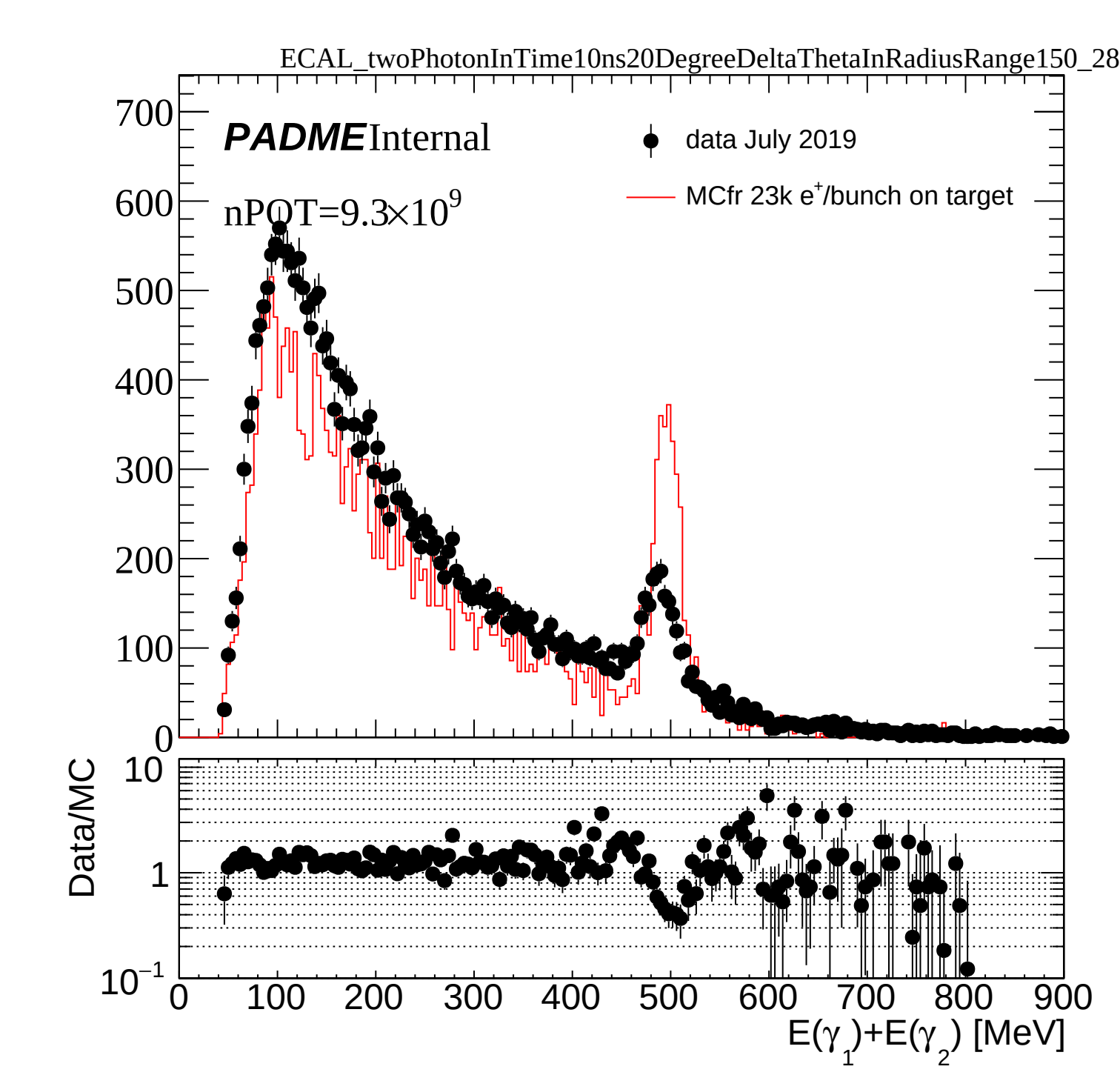
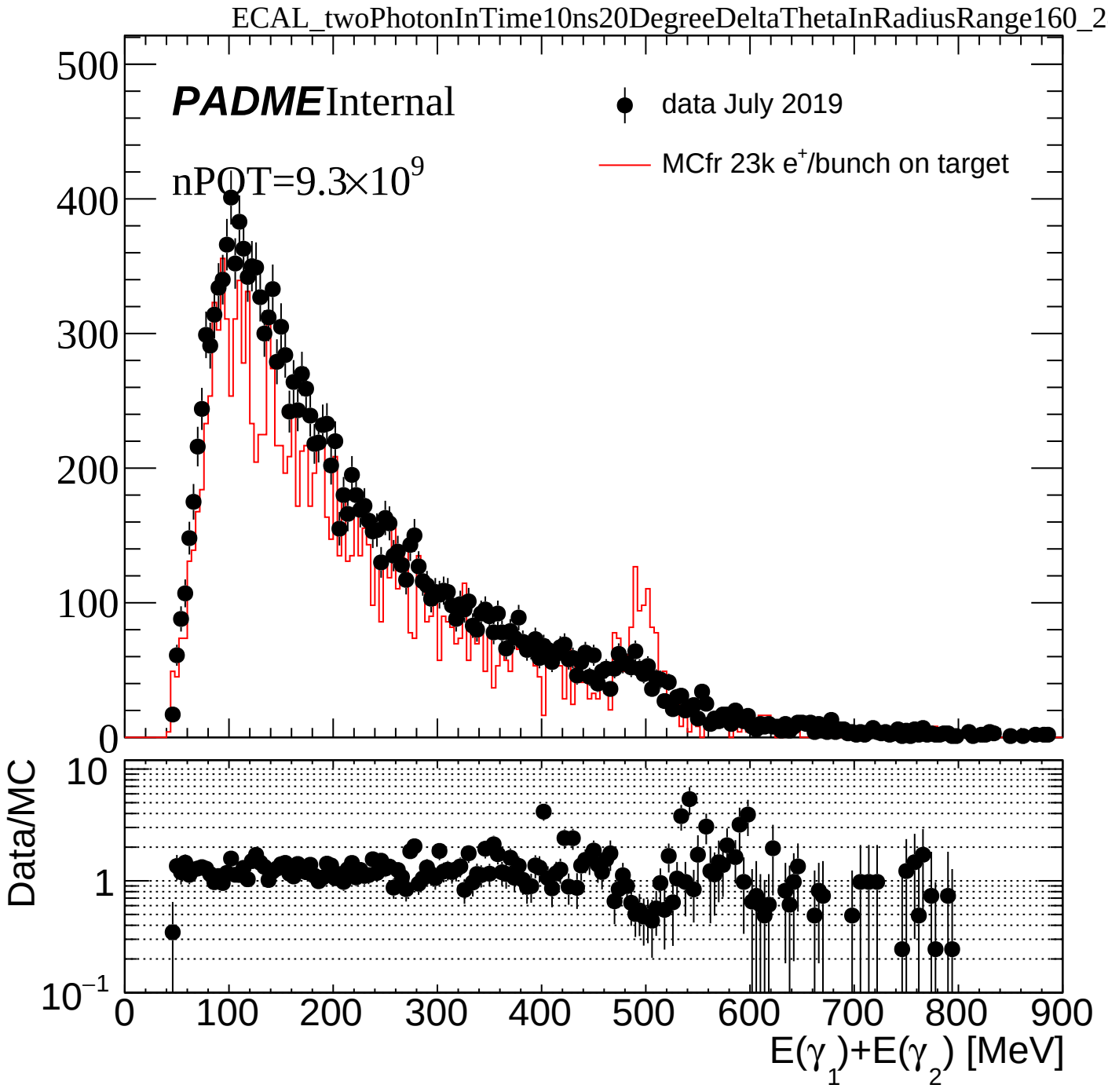
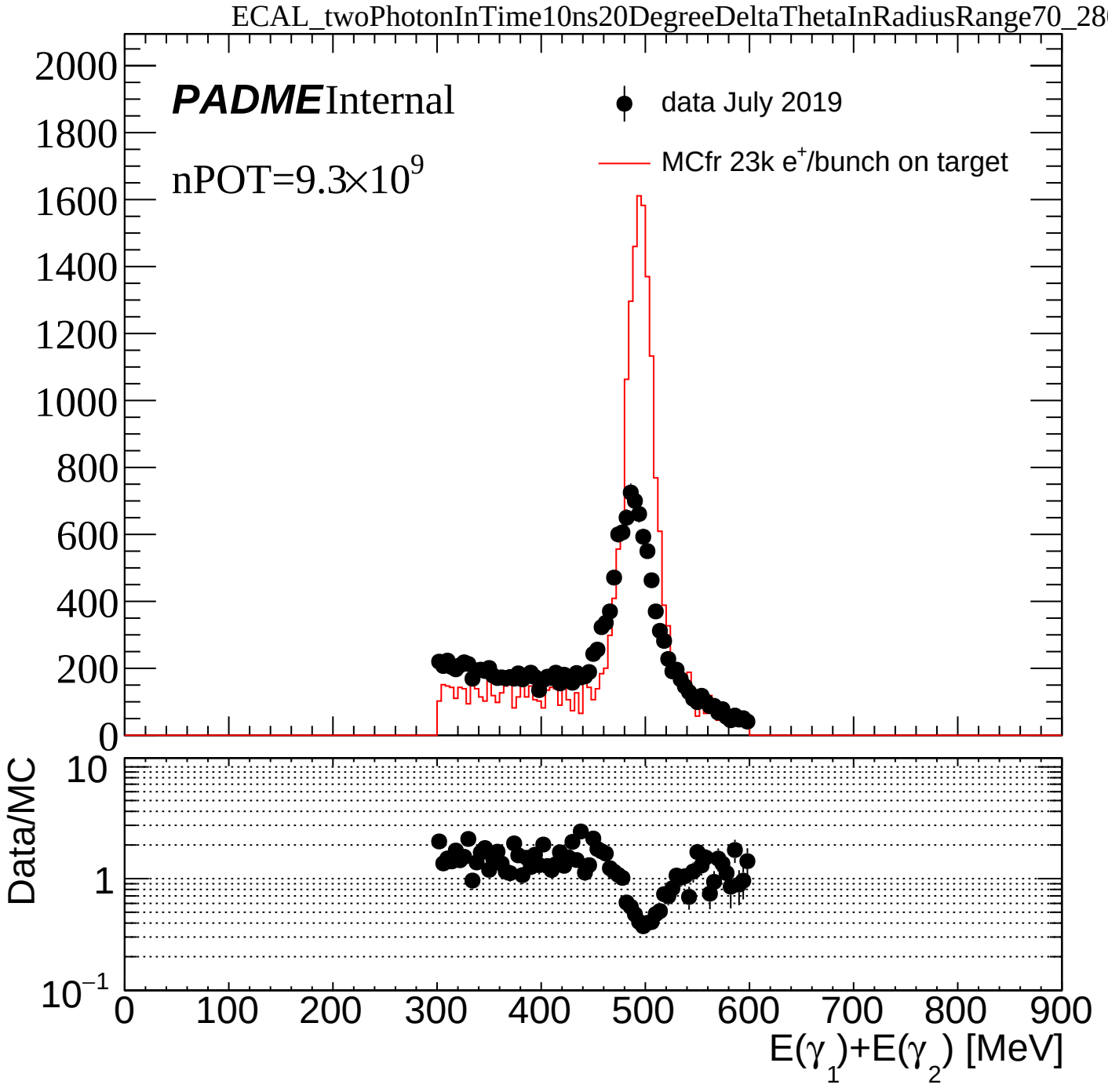
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_28
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_28
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
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Data/MC
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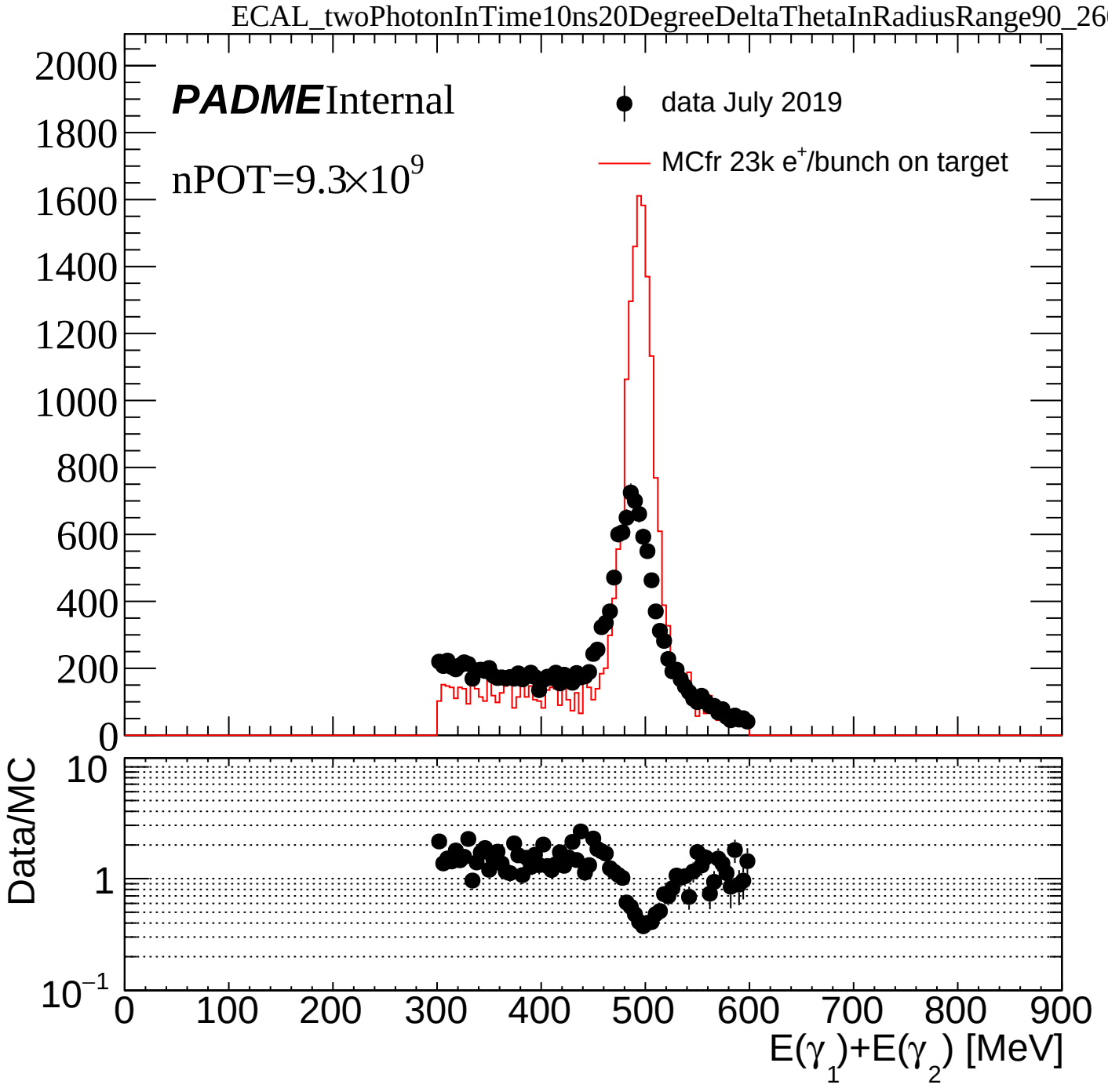
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_260
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2000
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Data/MC
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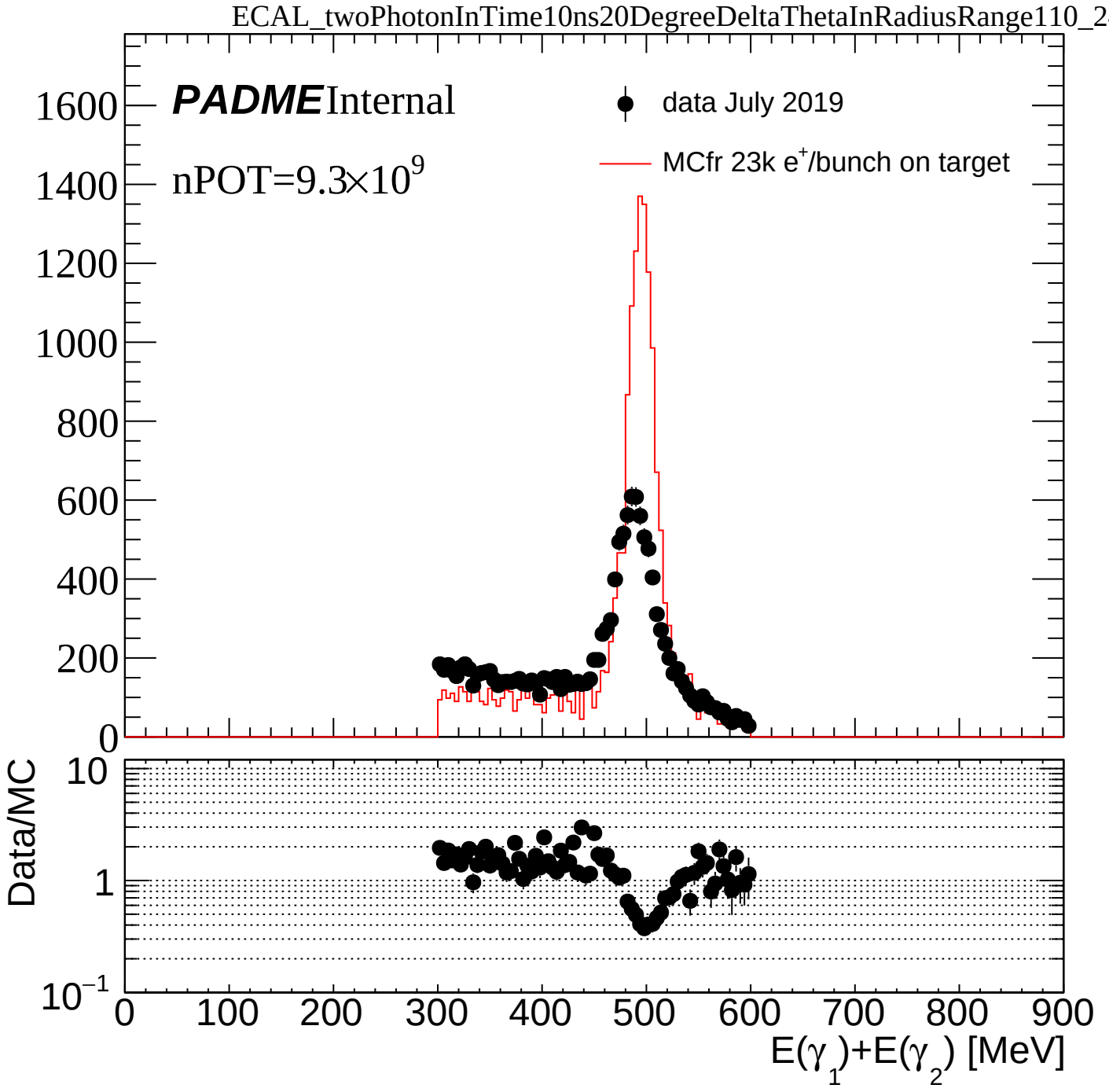
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110_24
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
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Data/MC
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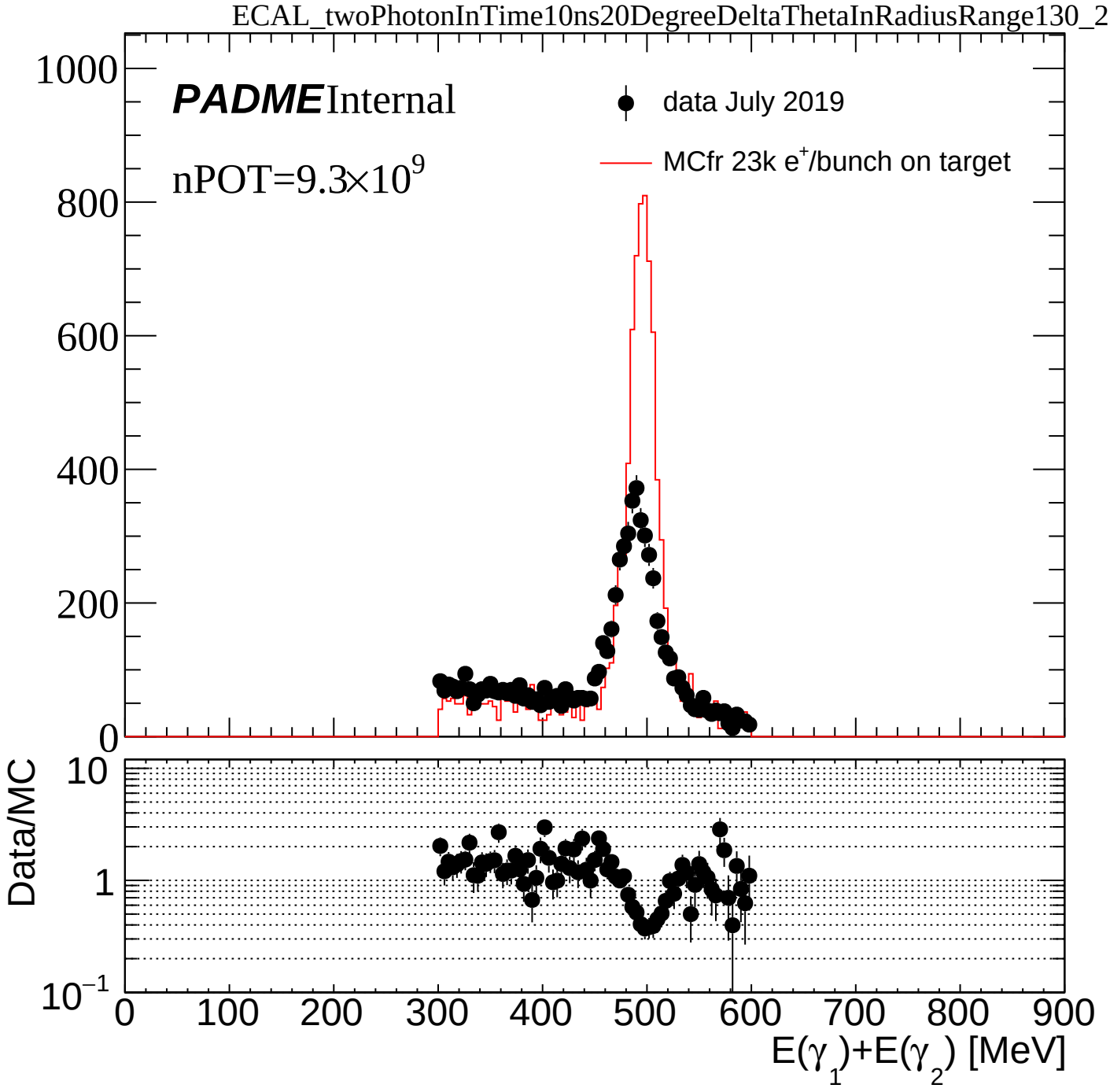
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_22
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1000
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Data/MC
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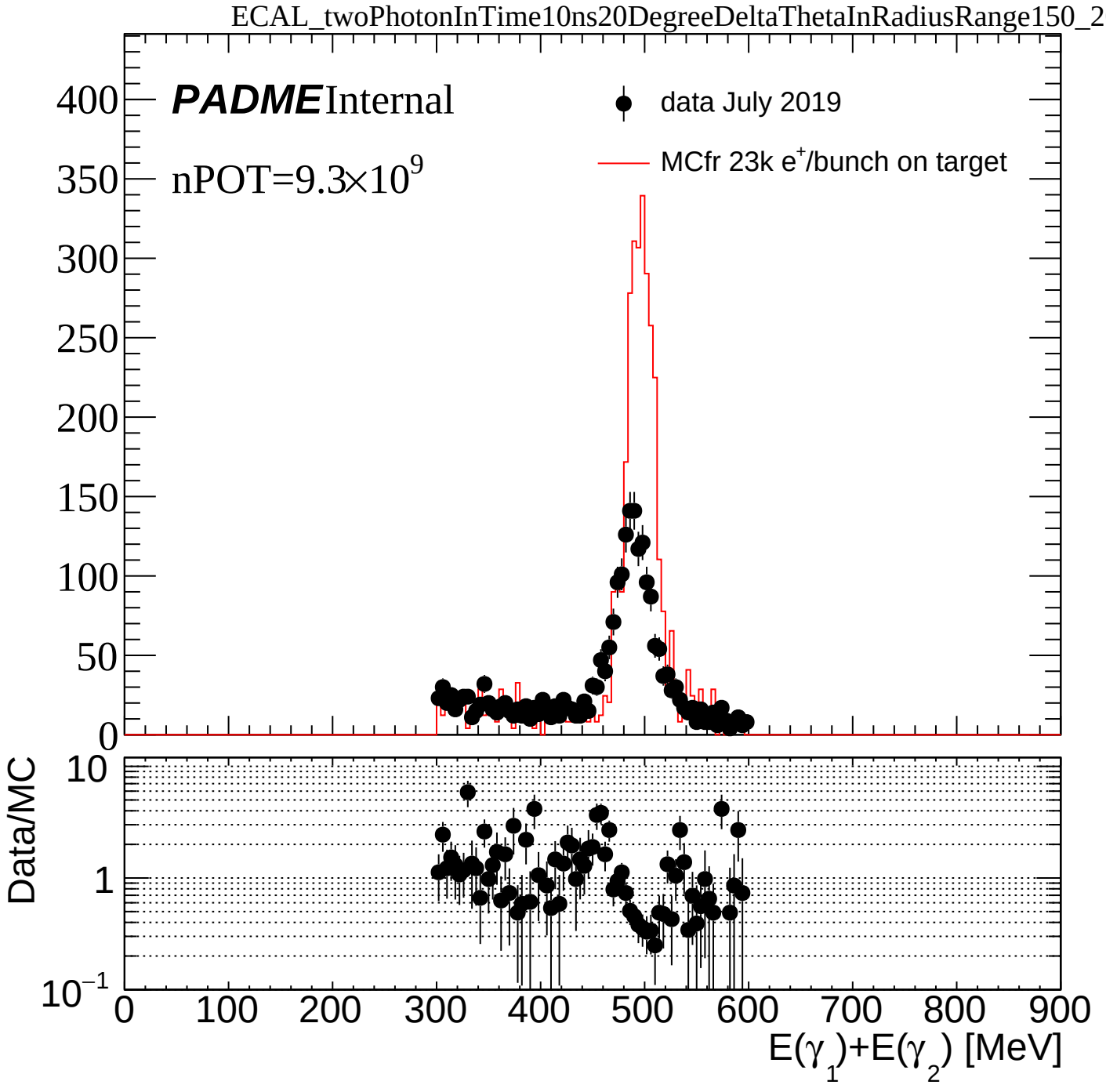
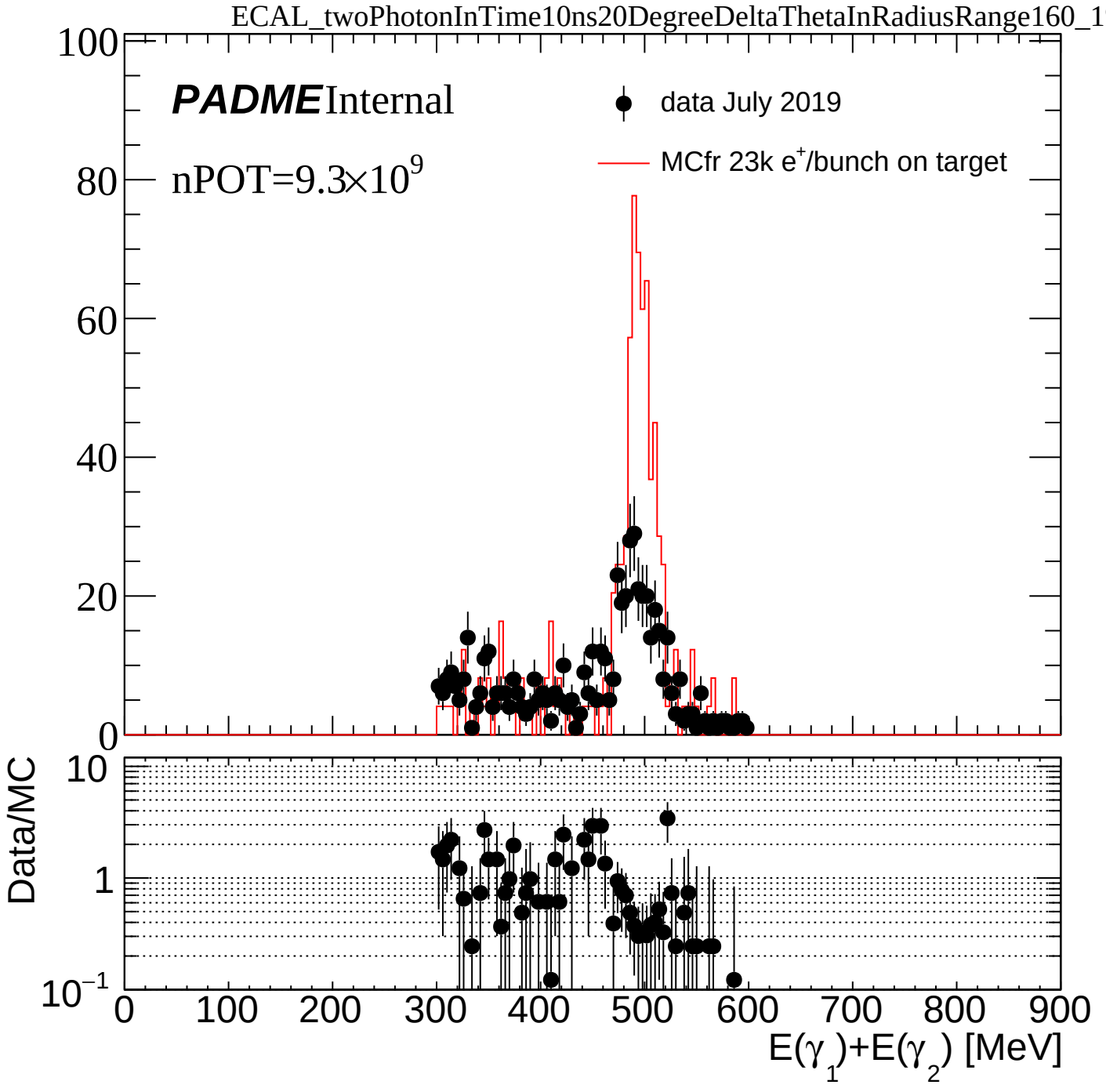
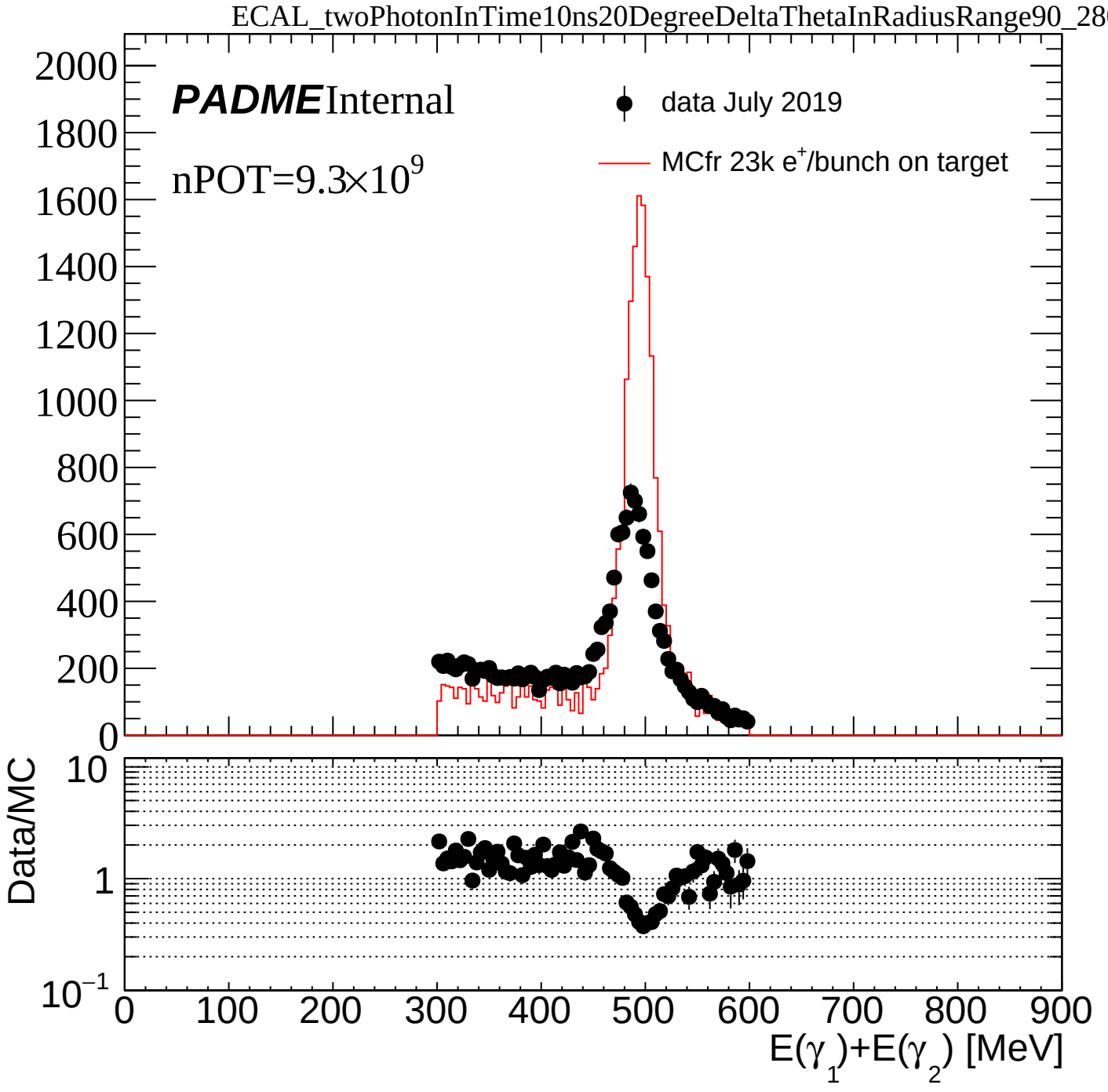
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_20
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_19
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
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Data/MC
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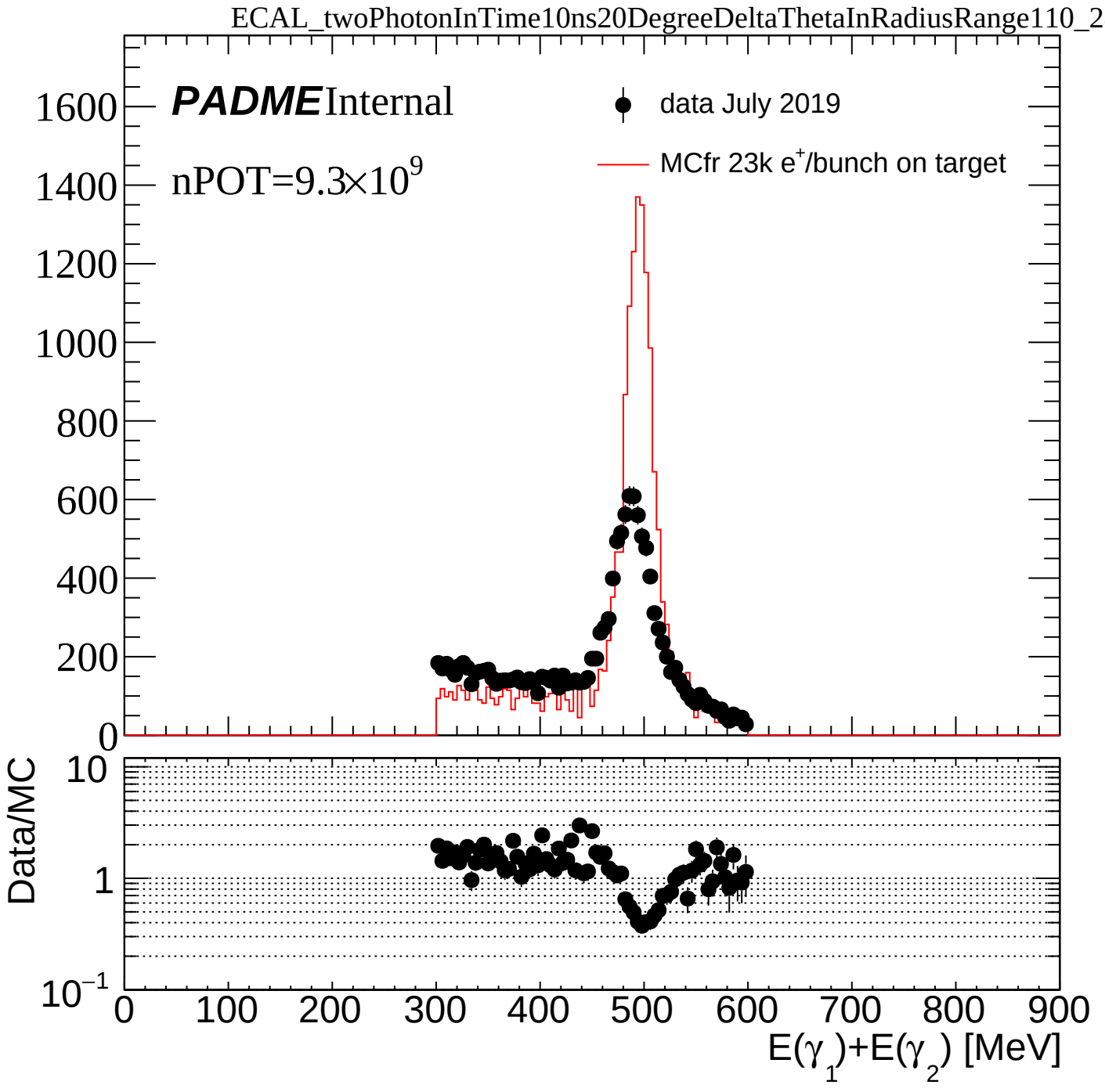
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110_28
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1600
1400
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Data/MC
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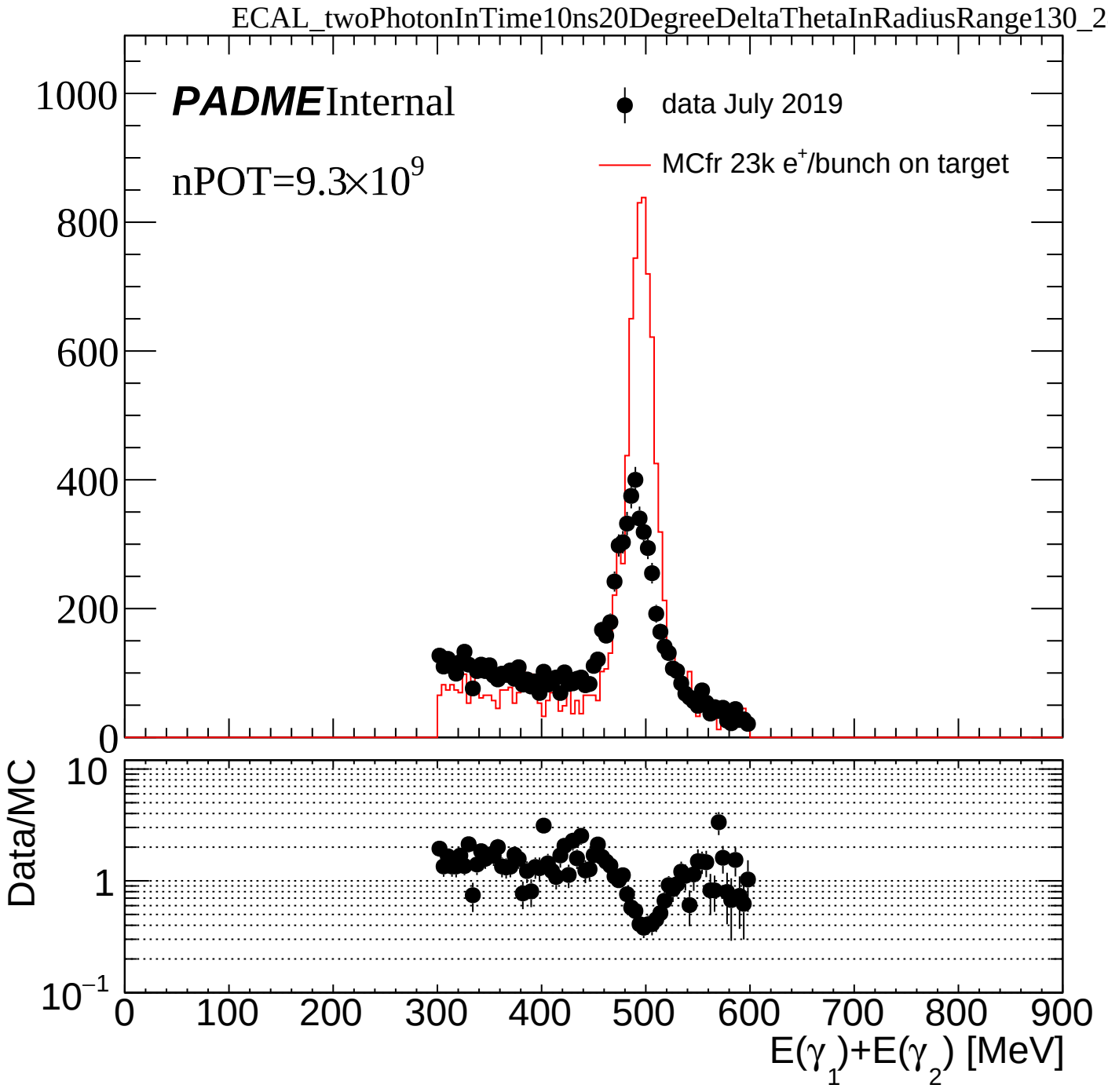
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_28
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1000
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Data/MC
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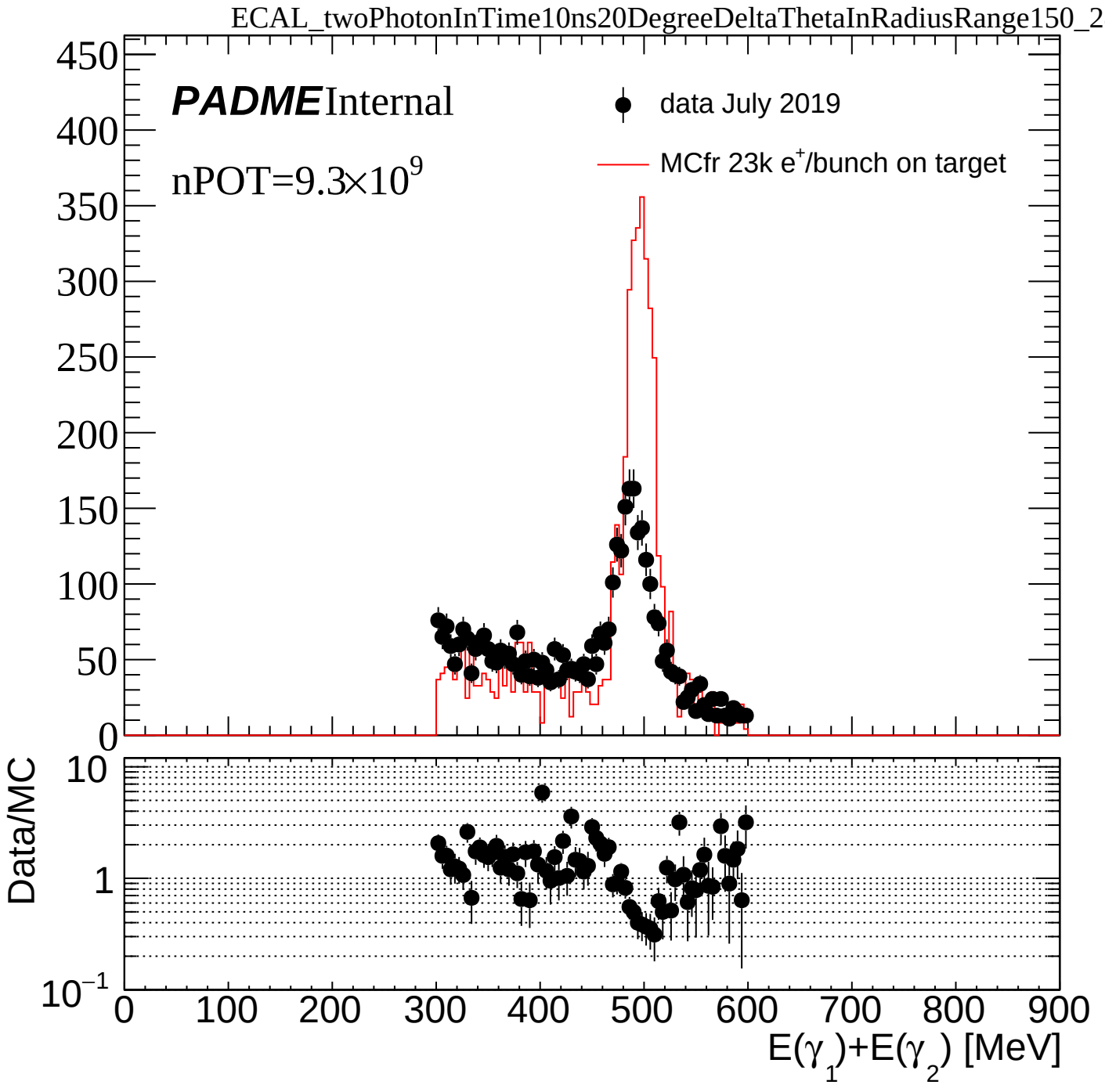
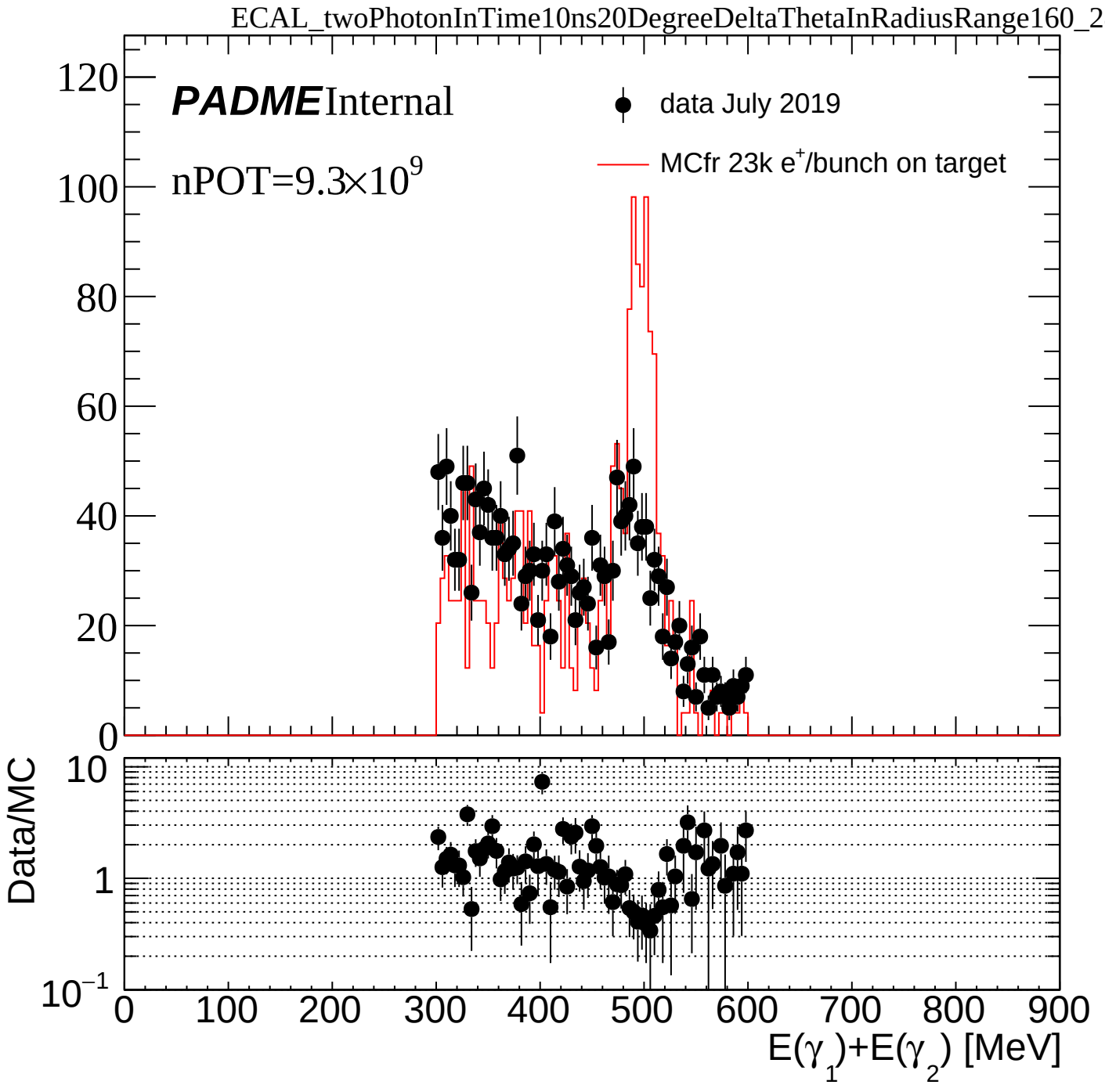
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_28
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_28
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
120
100
80
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Data/MC
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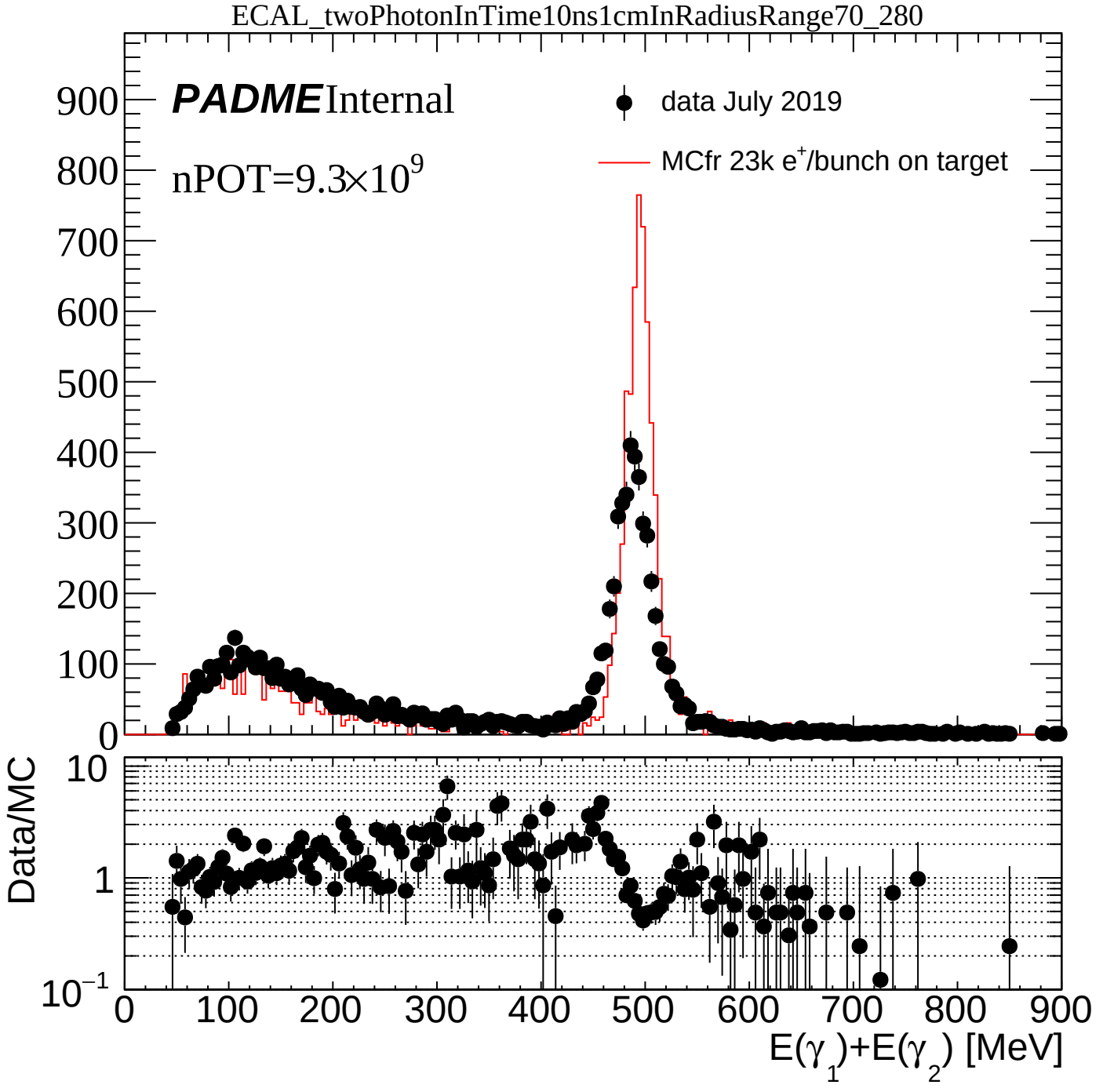
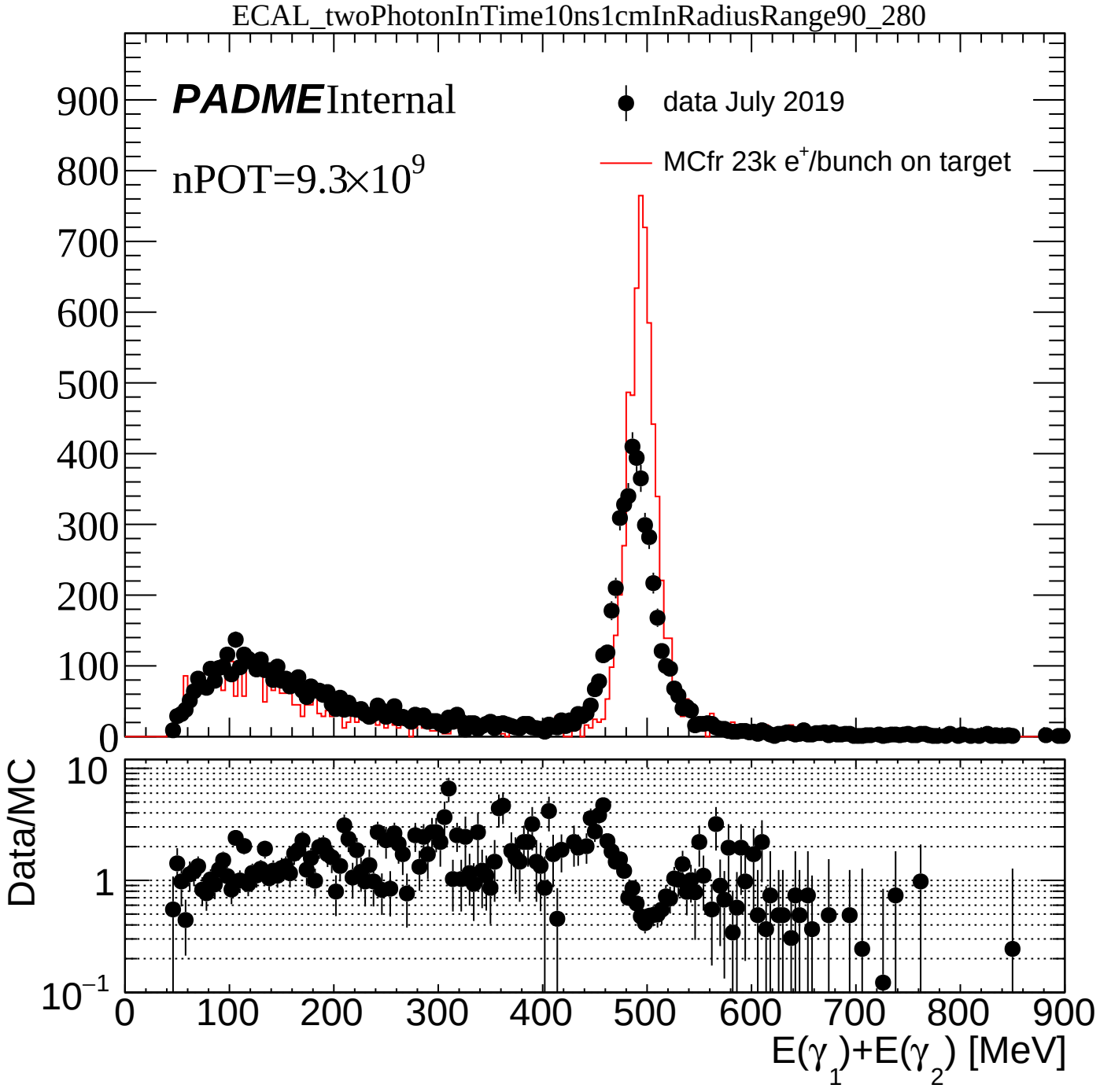
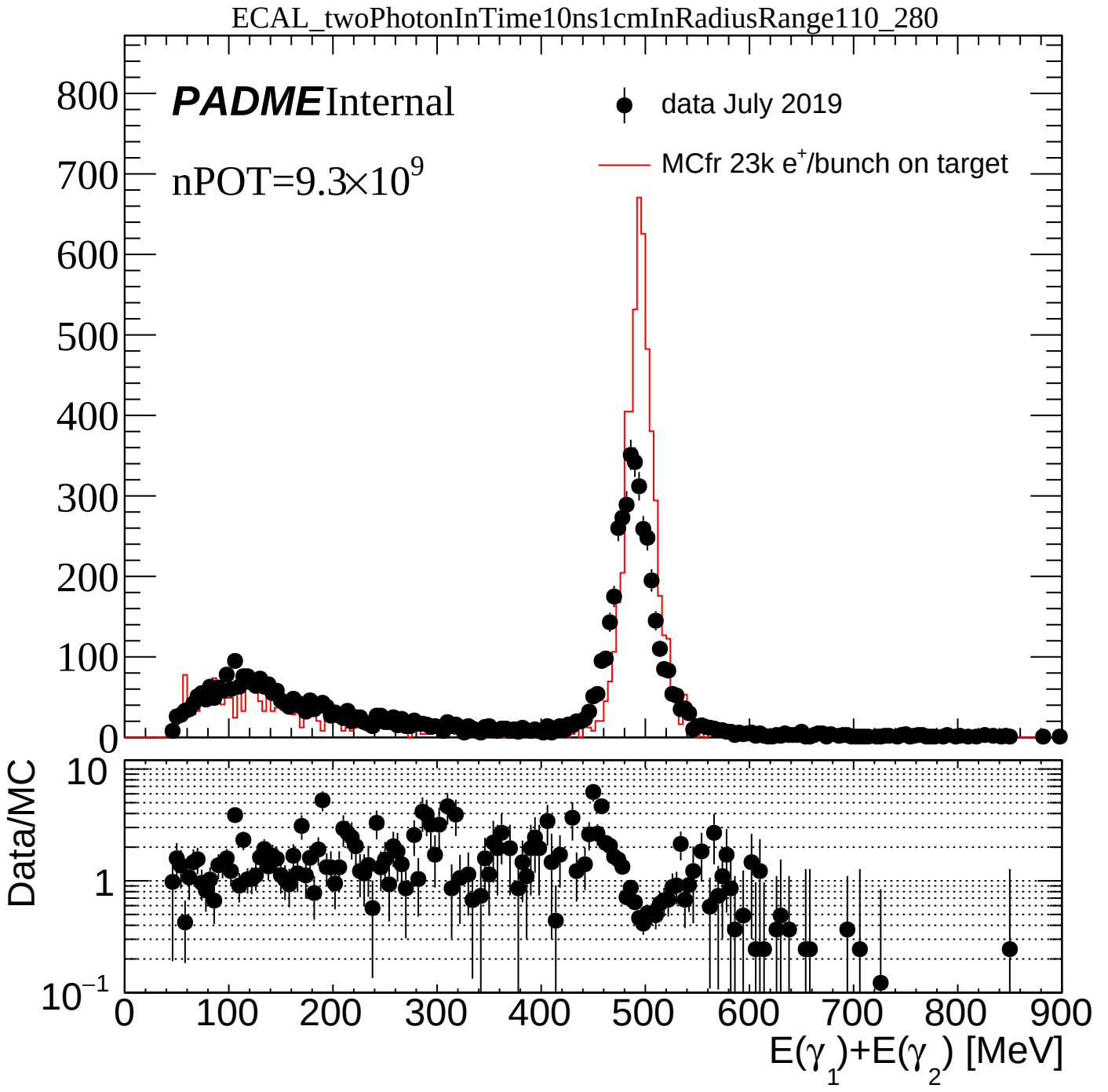
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange70_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange90_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange110_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
800
700
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0
Data/MC
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10^−1
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100
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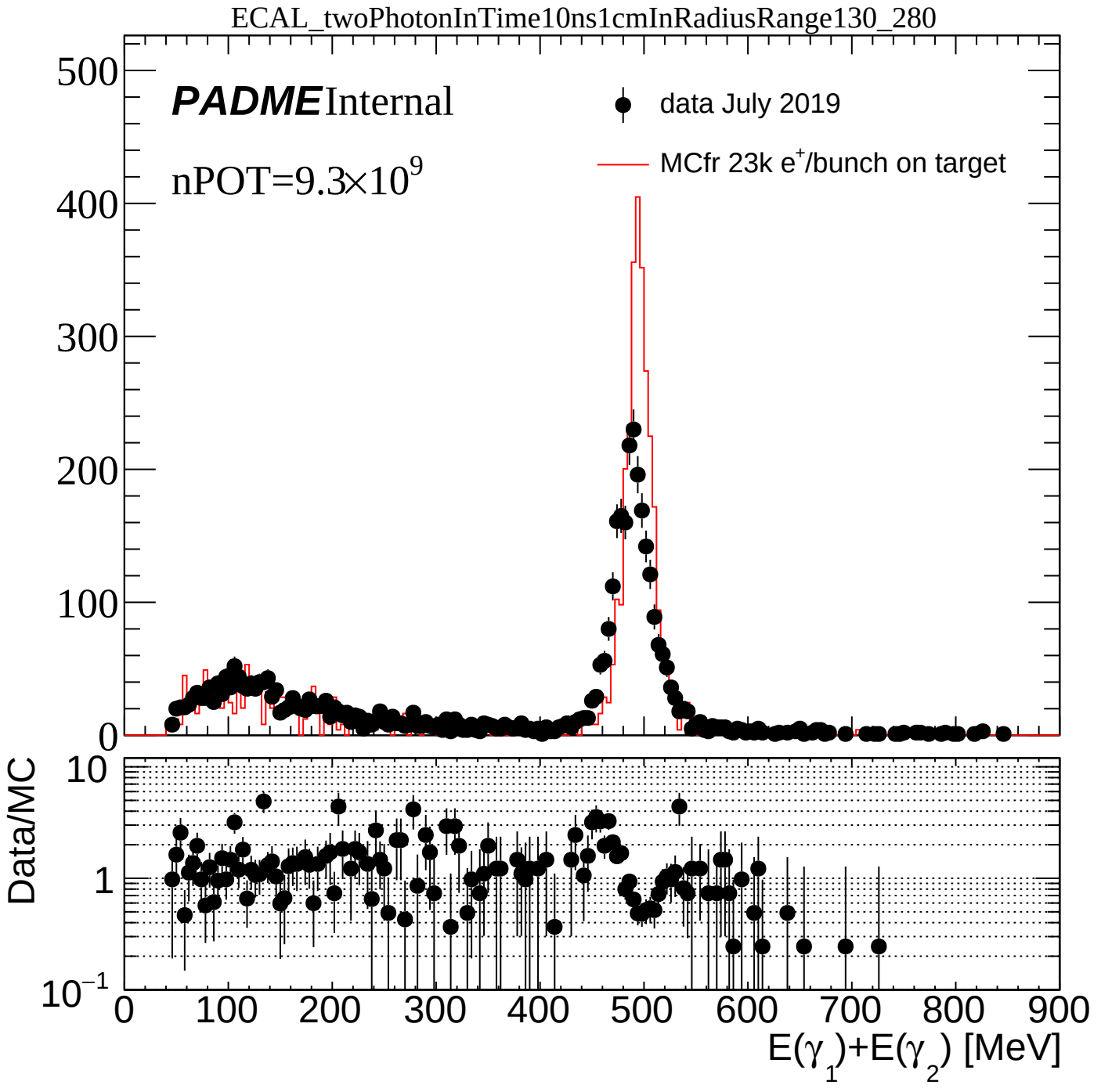
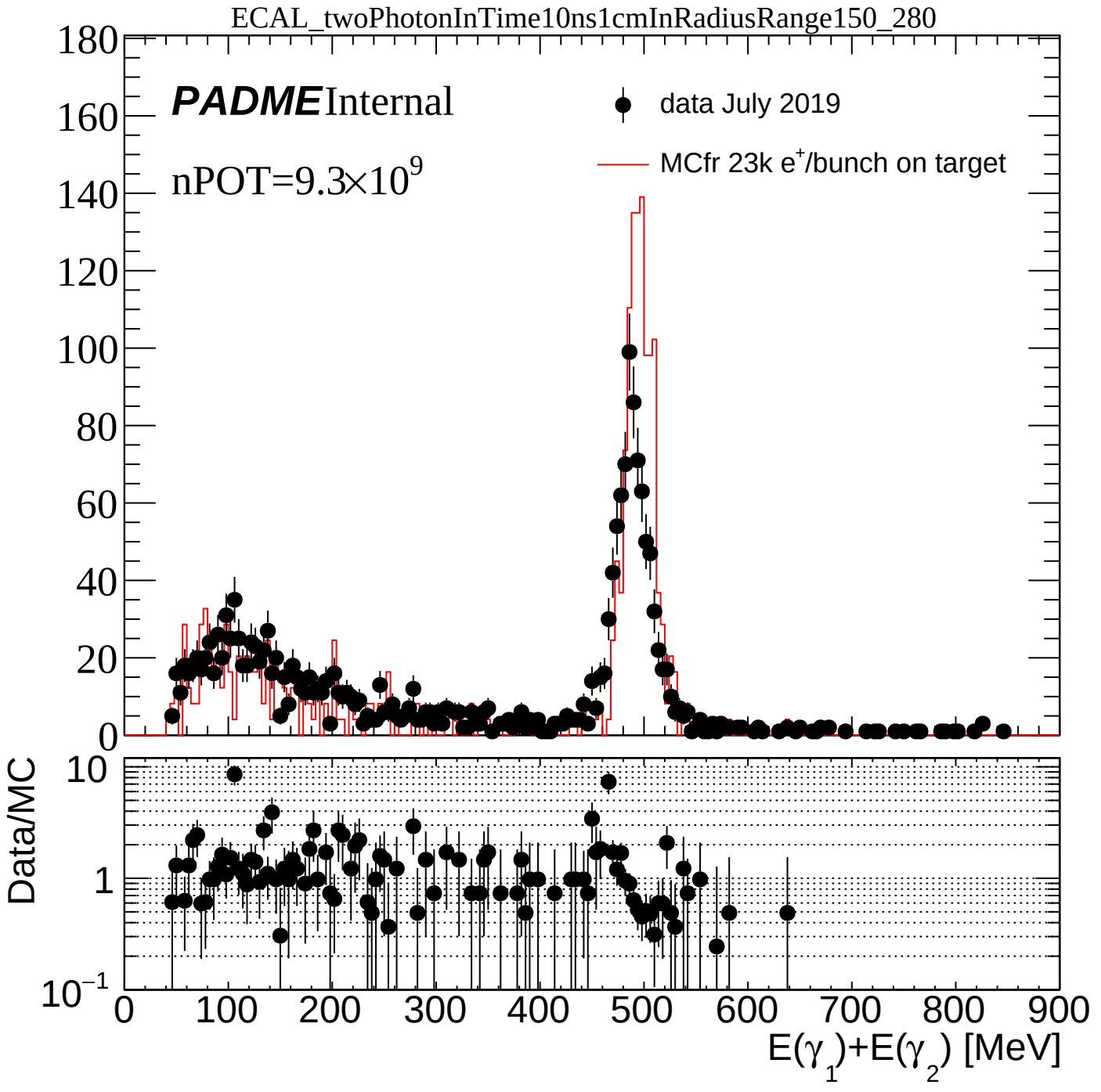
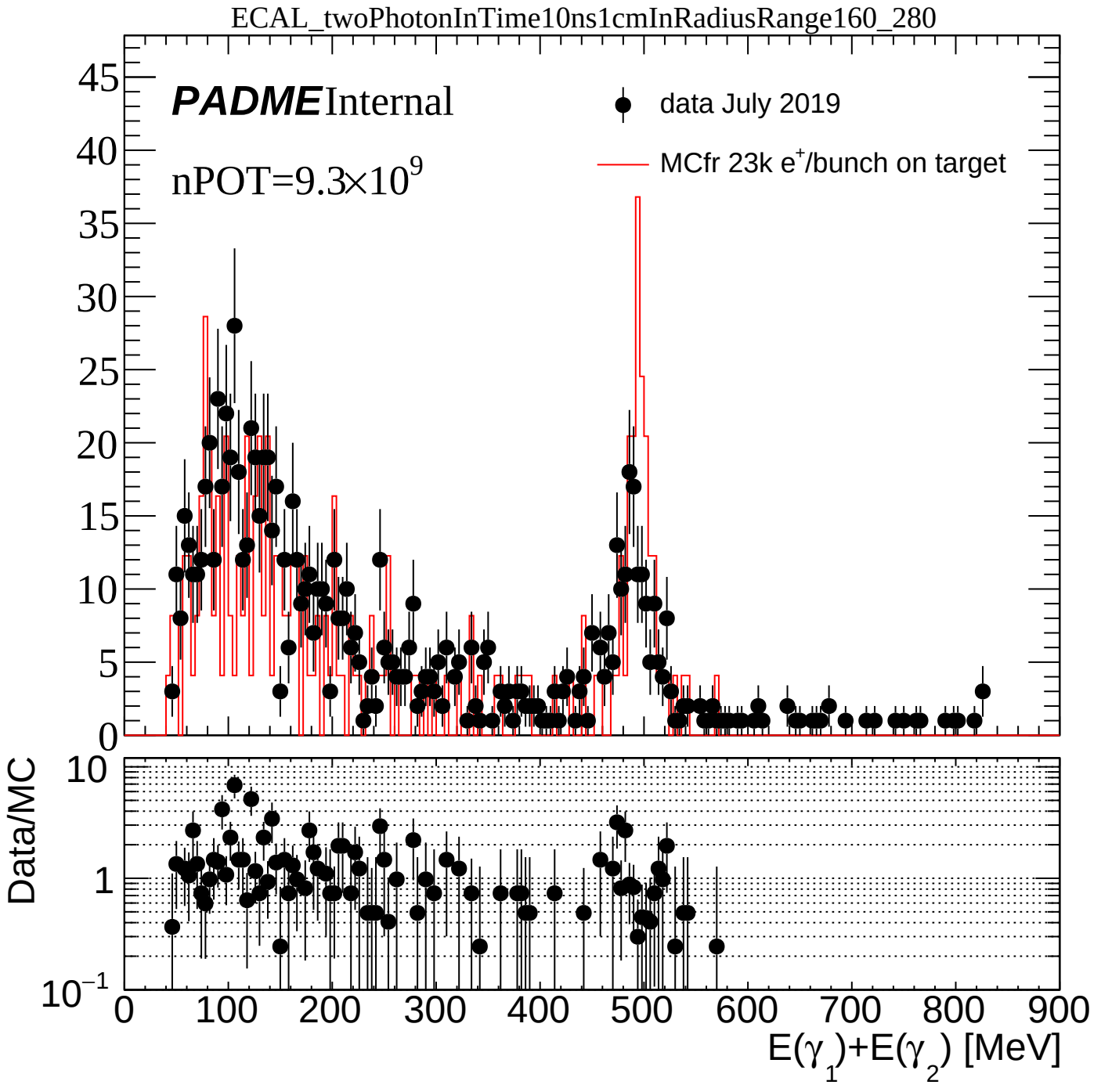
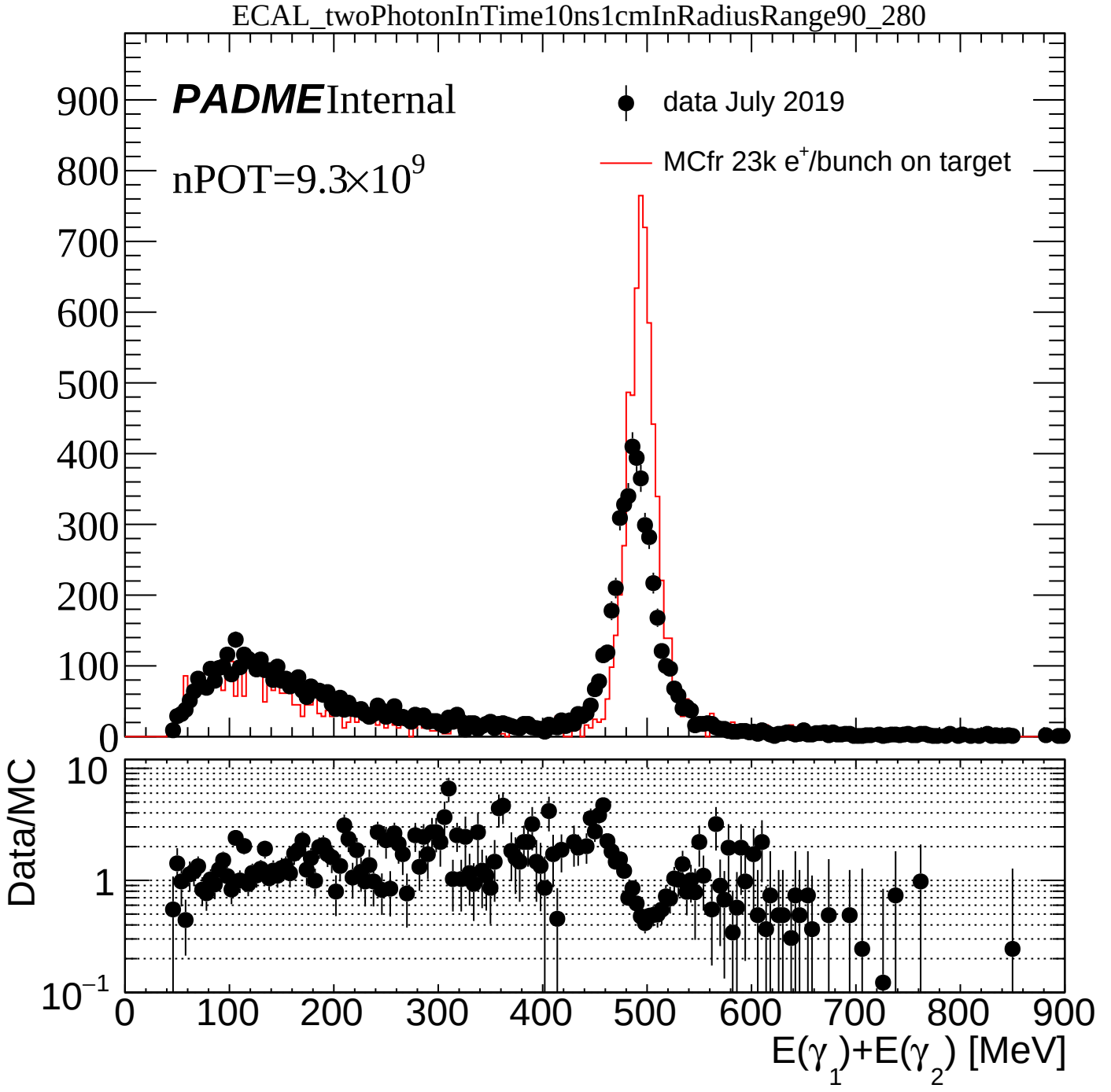
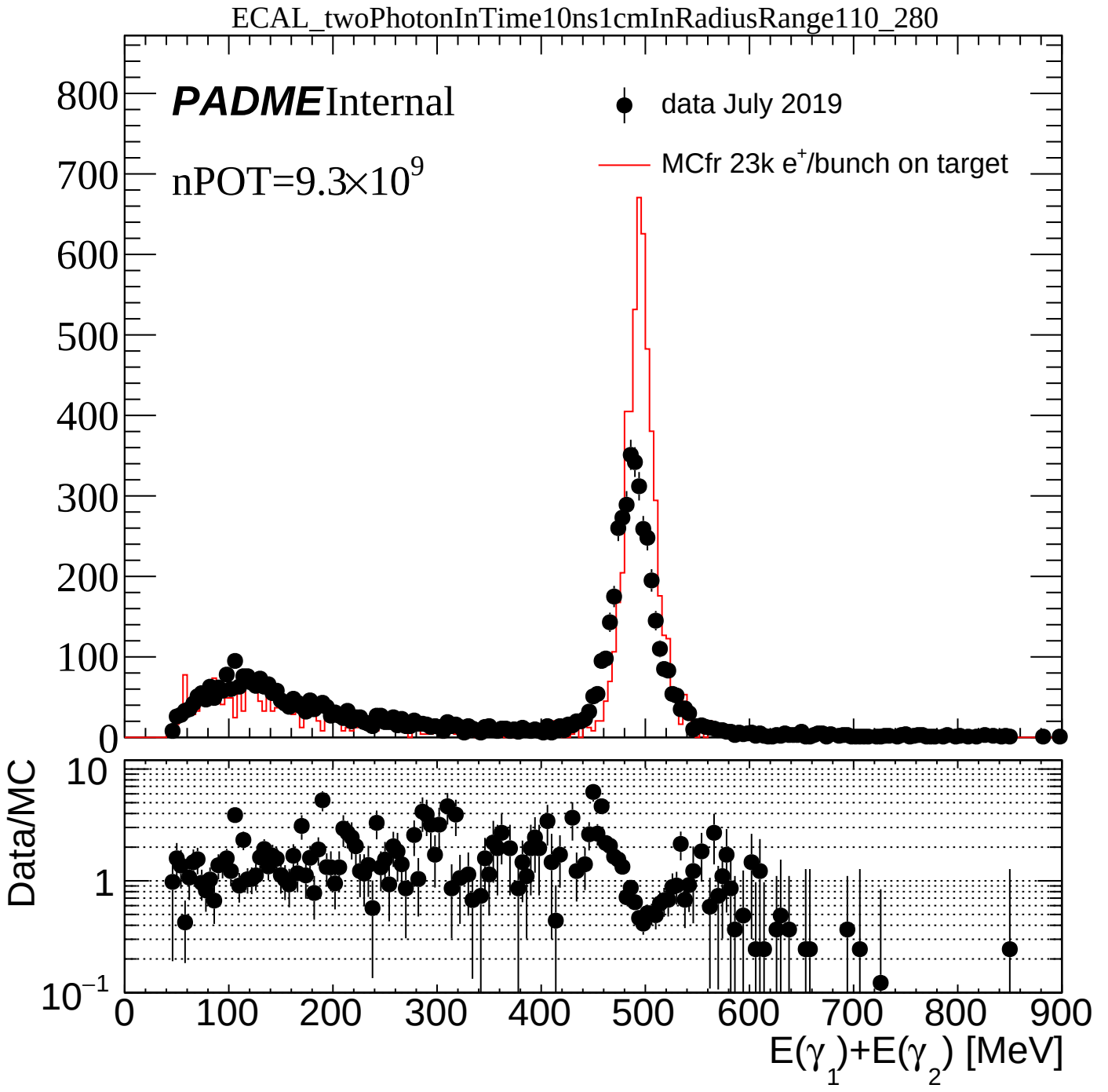
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange130_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange150_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange160_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange90_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange110_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
800
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Data/MC
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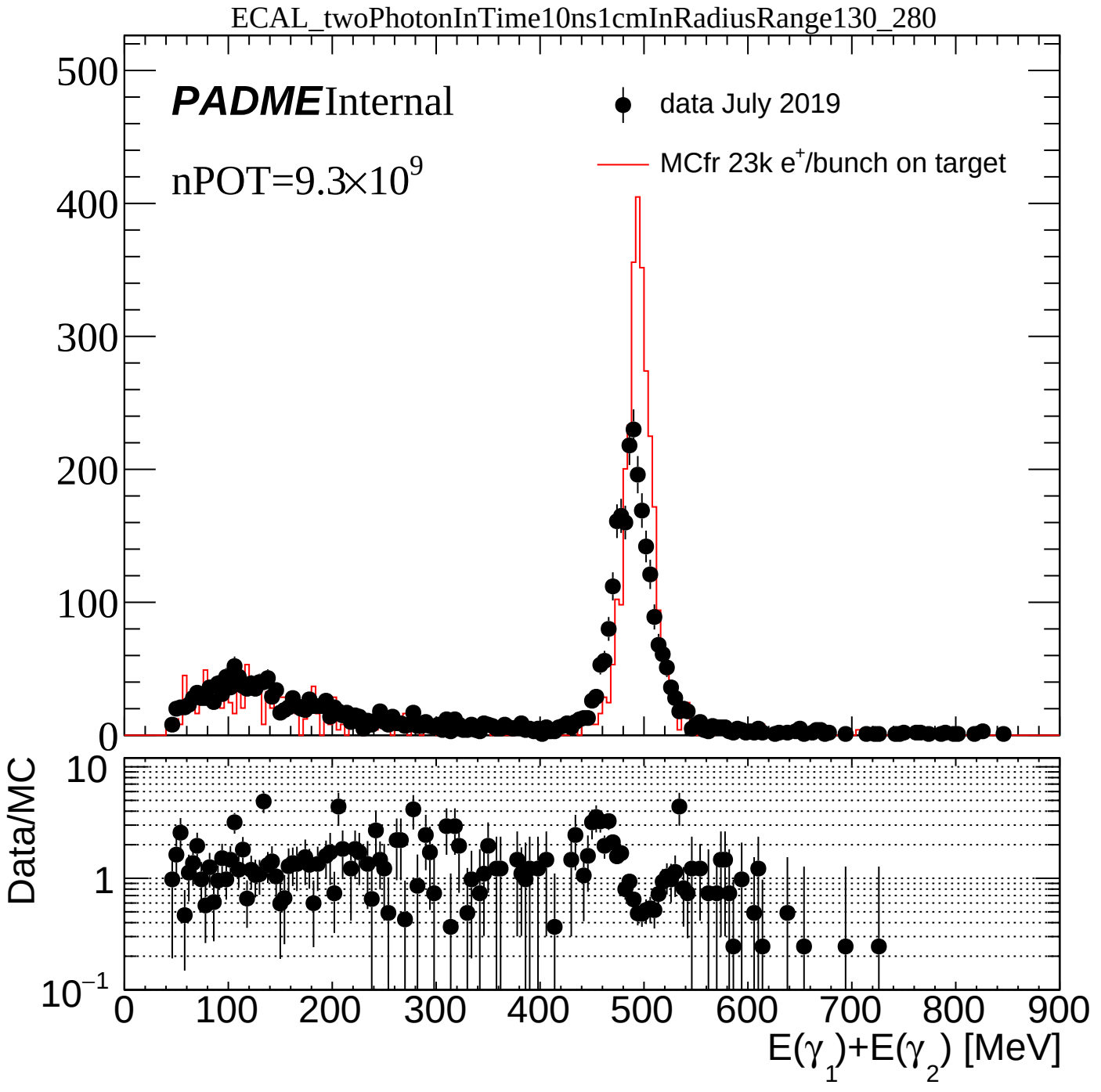
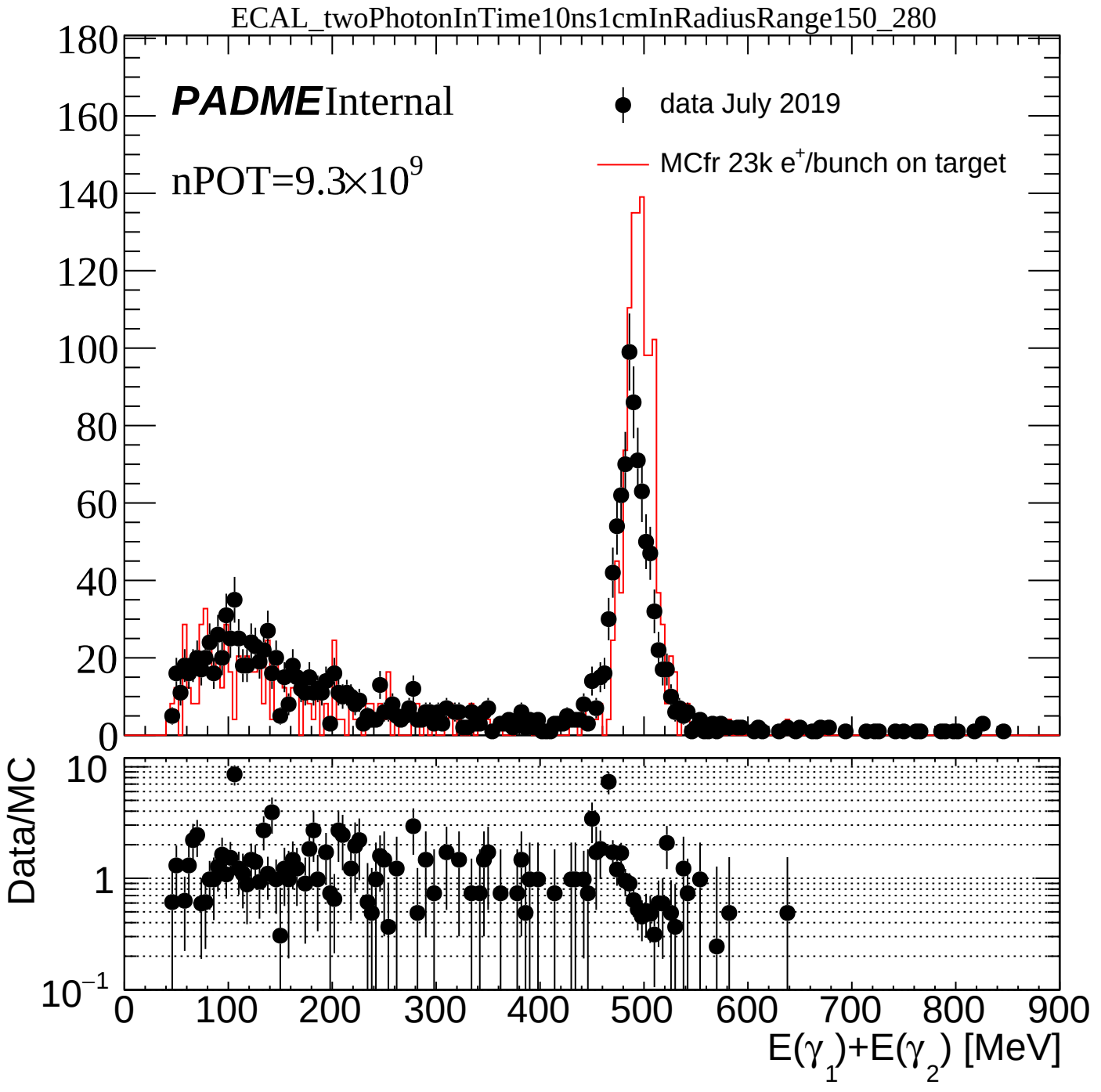
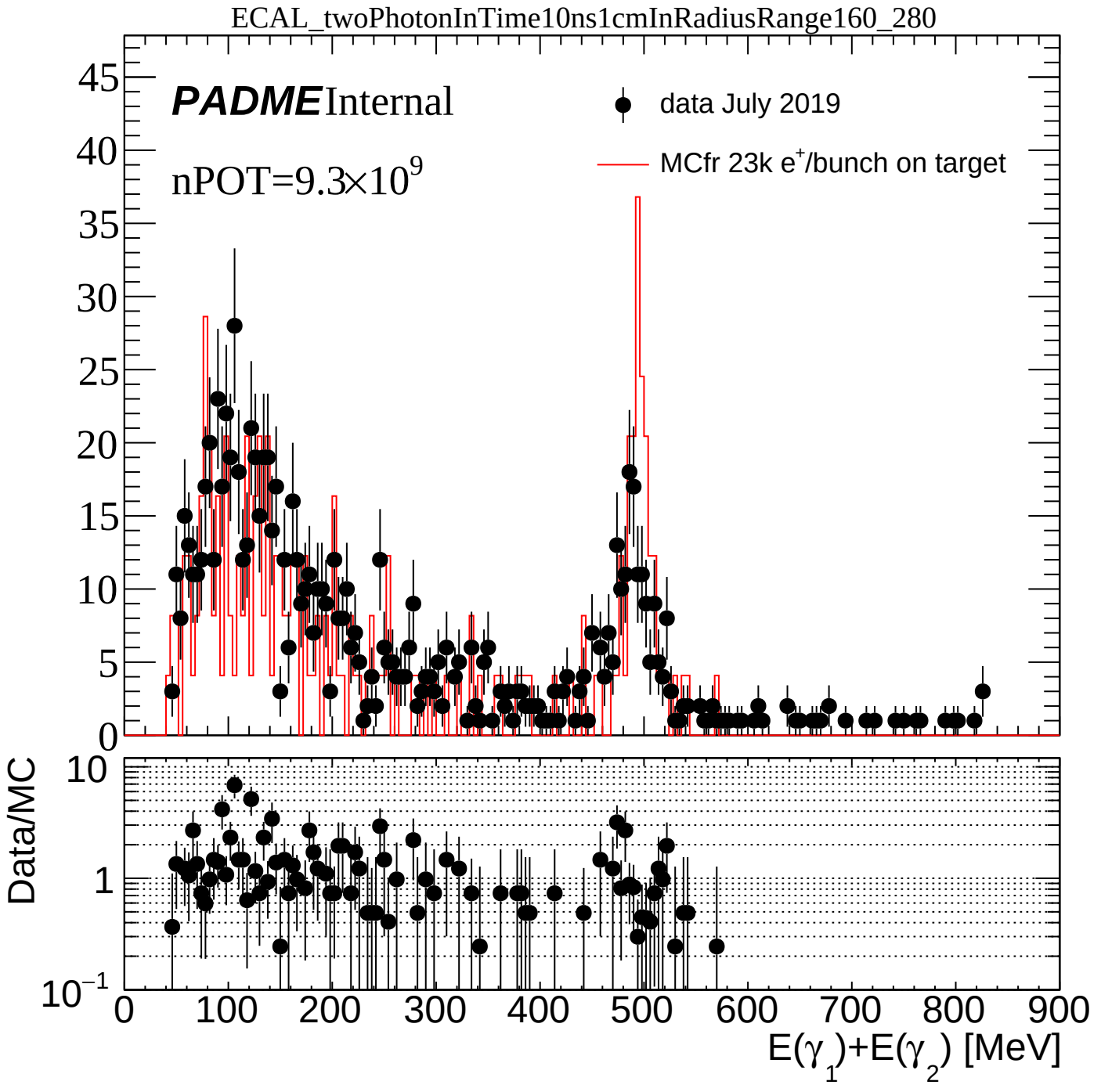
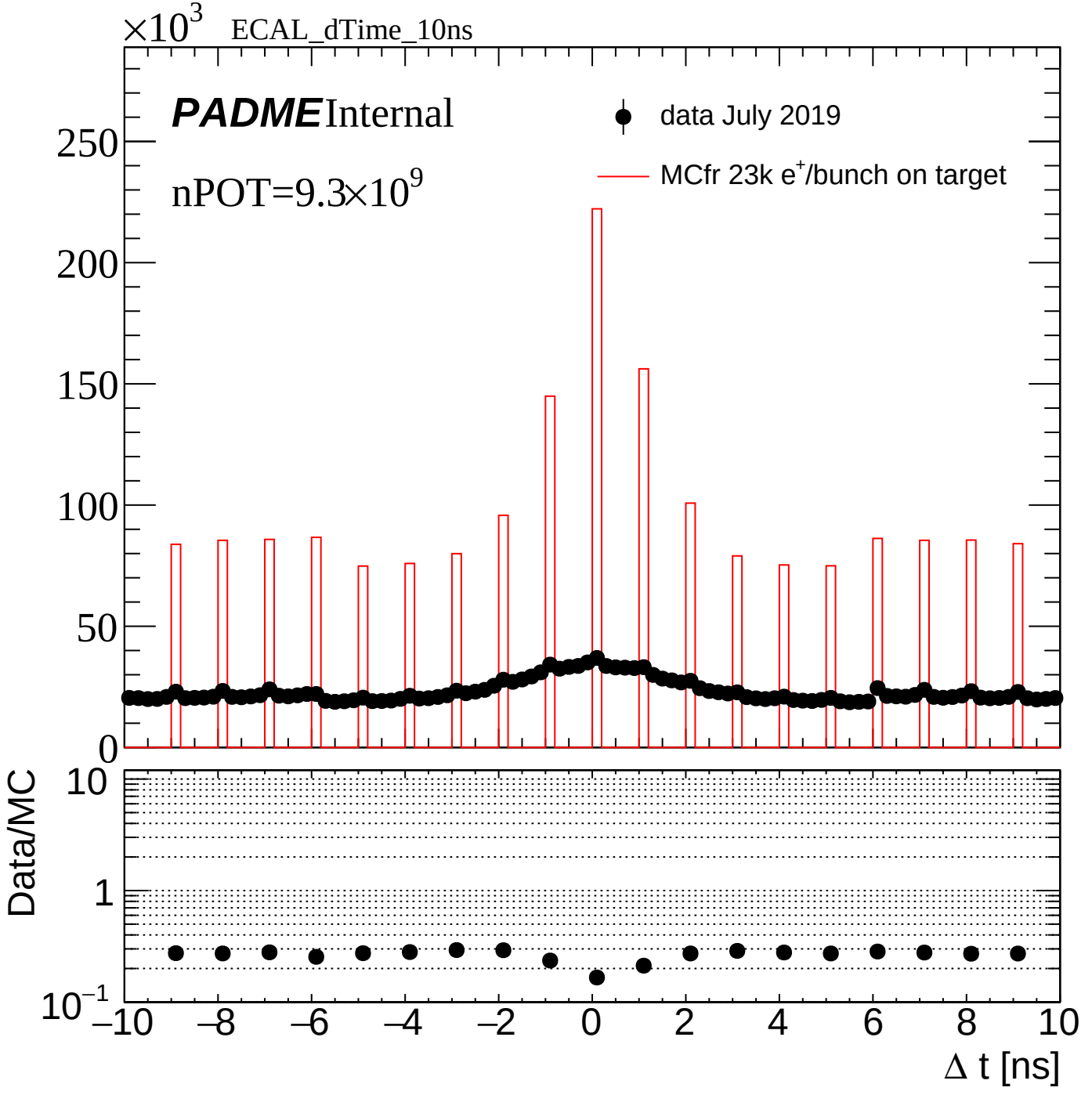
900
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange130_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange150_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


ECAL_twoPhotonInTime10ns1cmInRadiusRange160_280
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E(γ1)+E(γ2) [MeV]


×10^3
ECAL_dTime_10ns
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
250
200
150
100
50
0
Data/MC
10
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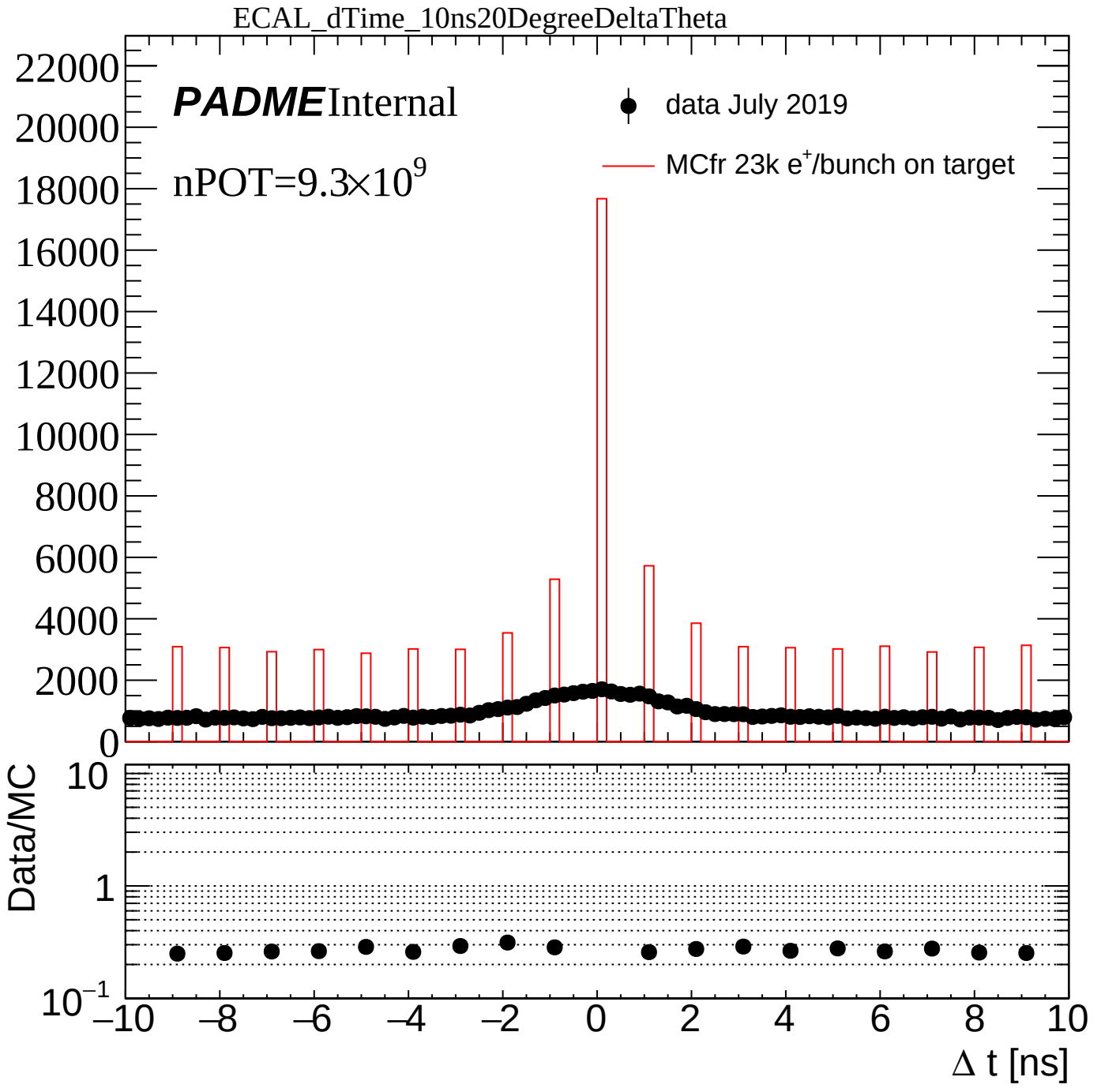
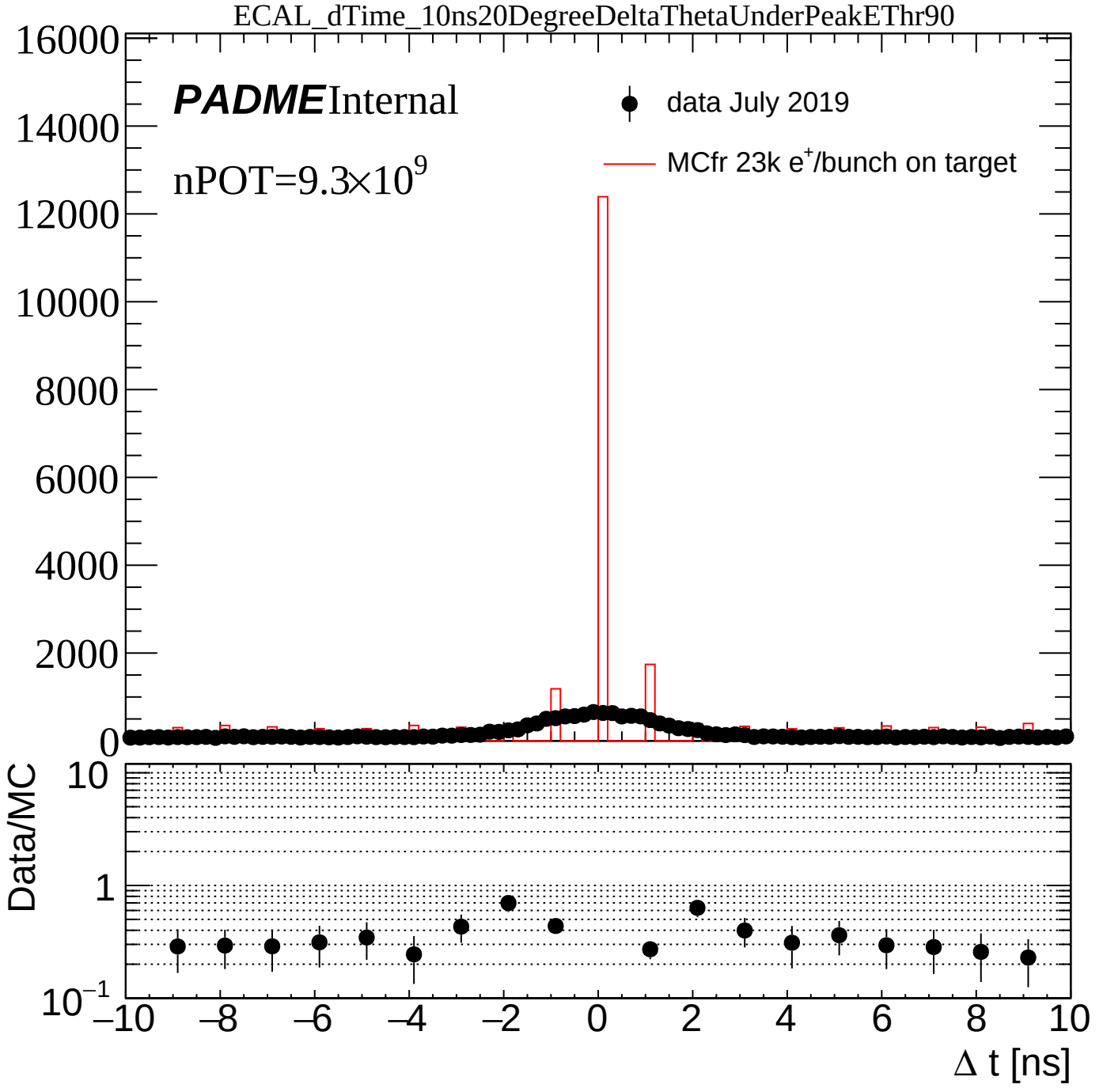
10^−1
–10
–8
–6
–4
–2
0
2
4
6
8
10
Δ t [ns]


ECAL_dTime_10ns20DegreeDeltaTheta
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Data/MC
10
1
10^−1
–10
–8
–6
–4
–2
0
2
4
6
8
10
Δ t [ns]


ECAL_dTime_10ns20DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
16000
14000
12000
10000
8000
6000
4000
2000
0
Data/MC
10
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10^−1
–10
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–6
–4
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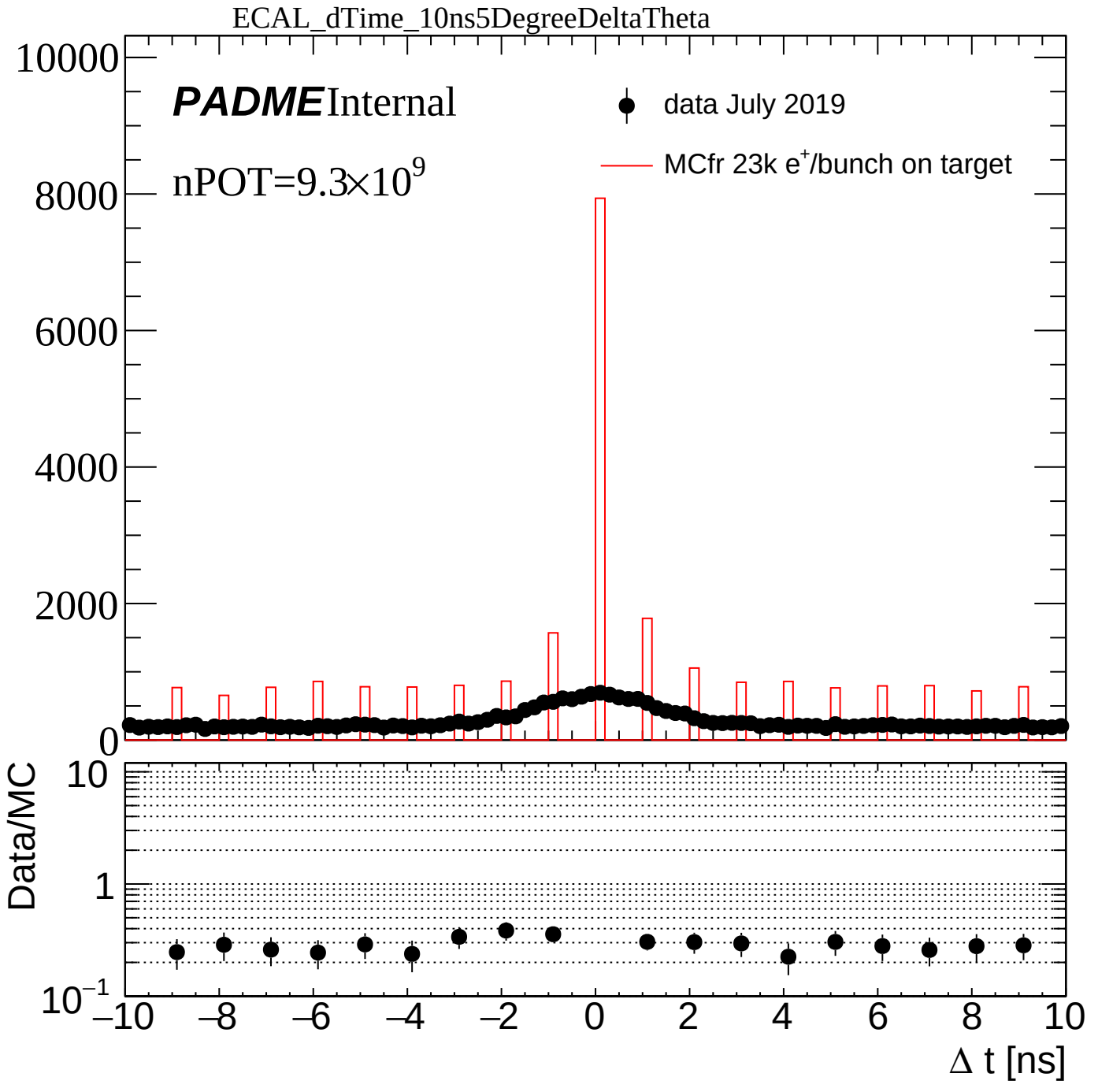
0
2
4
6
8
10
Δ t [ns]


ECAL_dTime_10ns5DegreeDeltaTheta
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
10000
8000
6000
4000
2000
0
Data/MC
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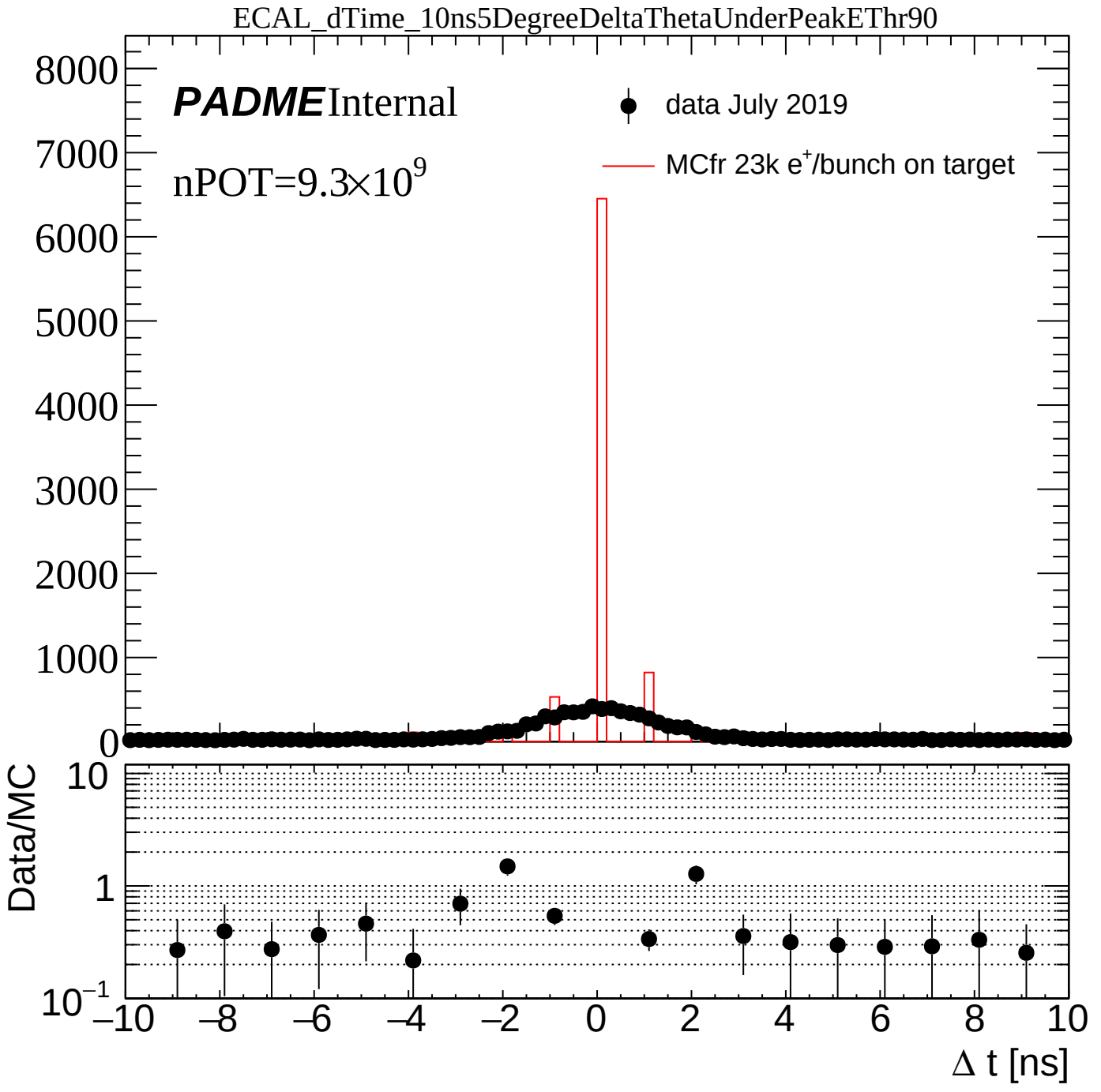
10^−1
–10
–8
–6
–4
–2
0
2
4
6
8
10
Δ t [ns]


ECAL_dTime_10ns5DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
8000
7000
6000
5000
4000
3000
2000
1000
0
Data/MC
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2
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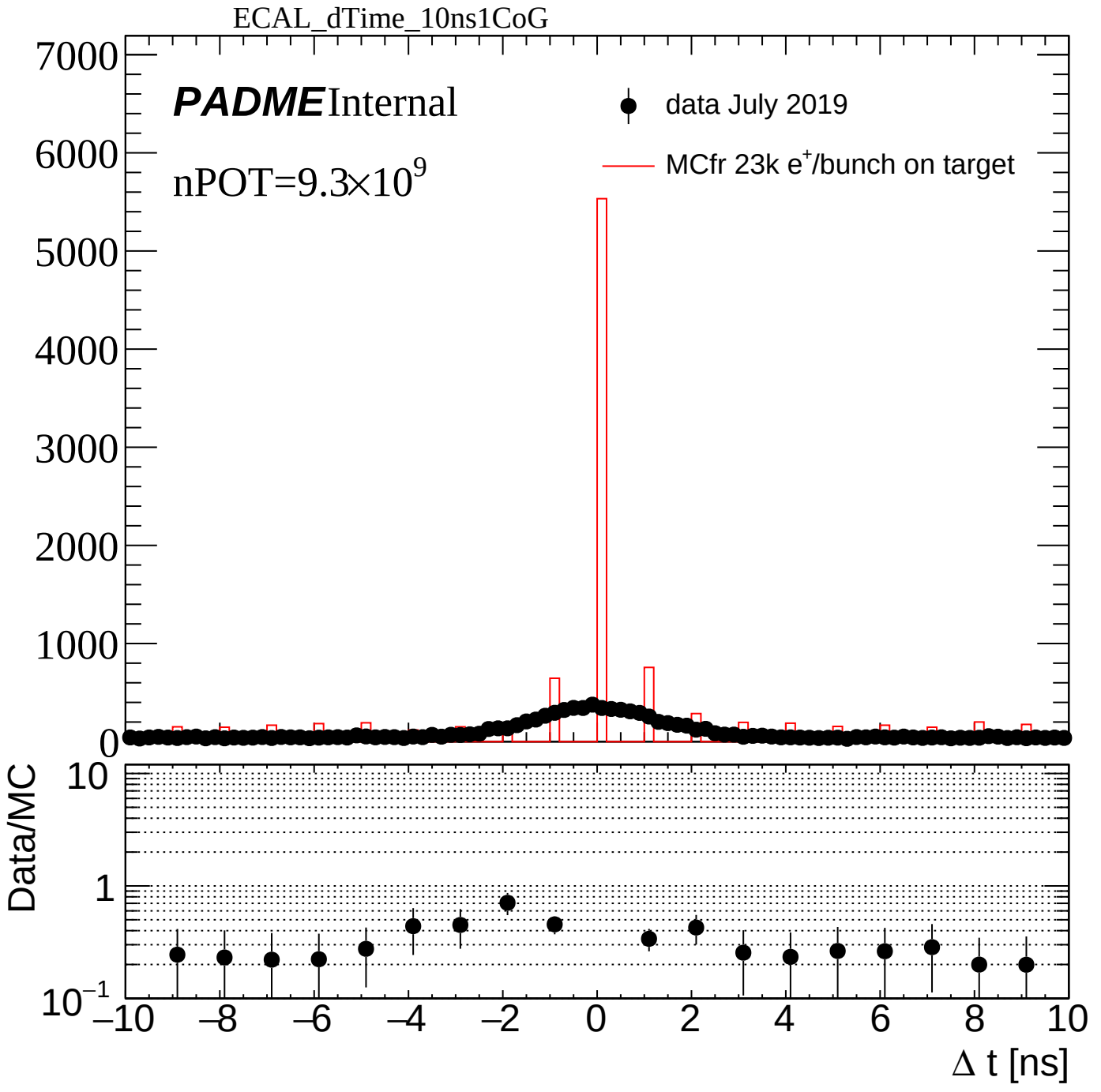
8
10
Δ t [ns]


ECAL_dTime_10ns1CoG
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
7000
6000
5000
4000
3000
2000
1000
0
Data/MC
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10^−1
–10
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–6
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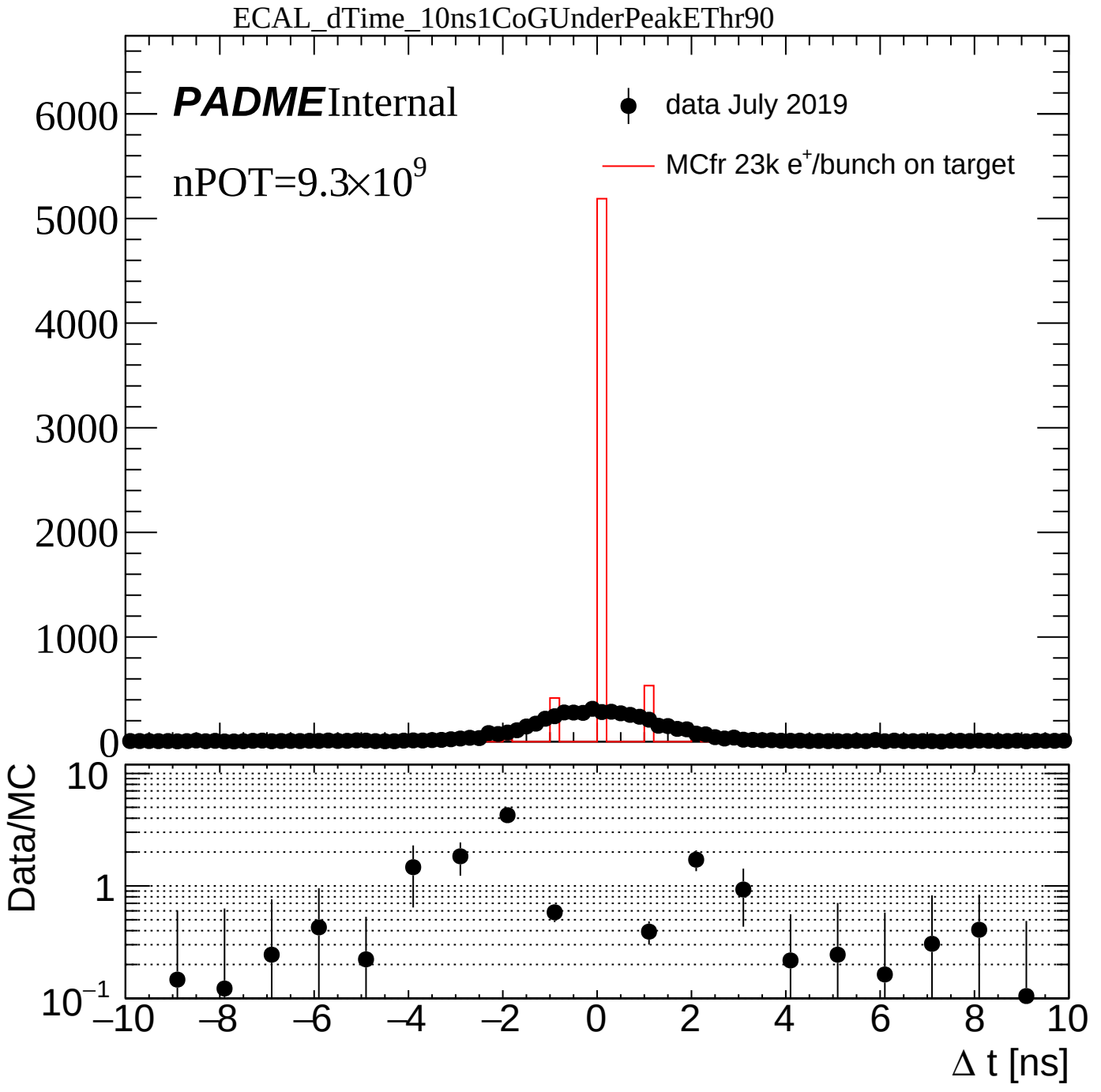
0
2
4
6
8
10
Δ t [ns]


ECAL_dTime_10ns1CoGUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
6000
5000
4000
3000
2000
1000
0
Data/MC
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10^−1
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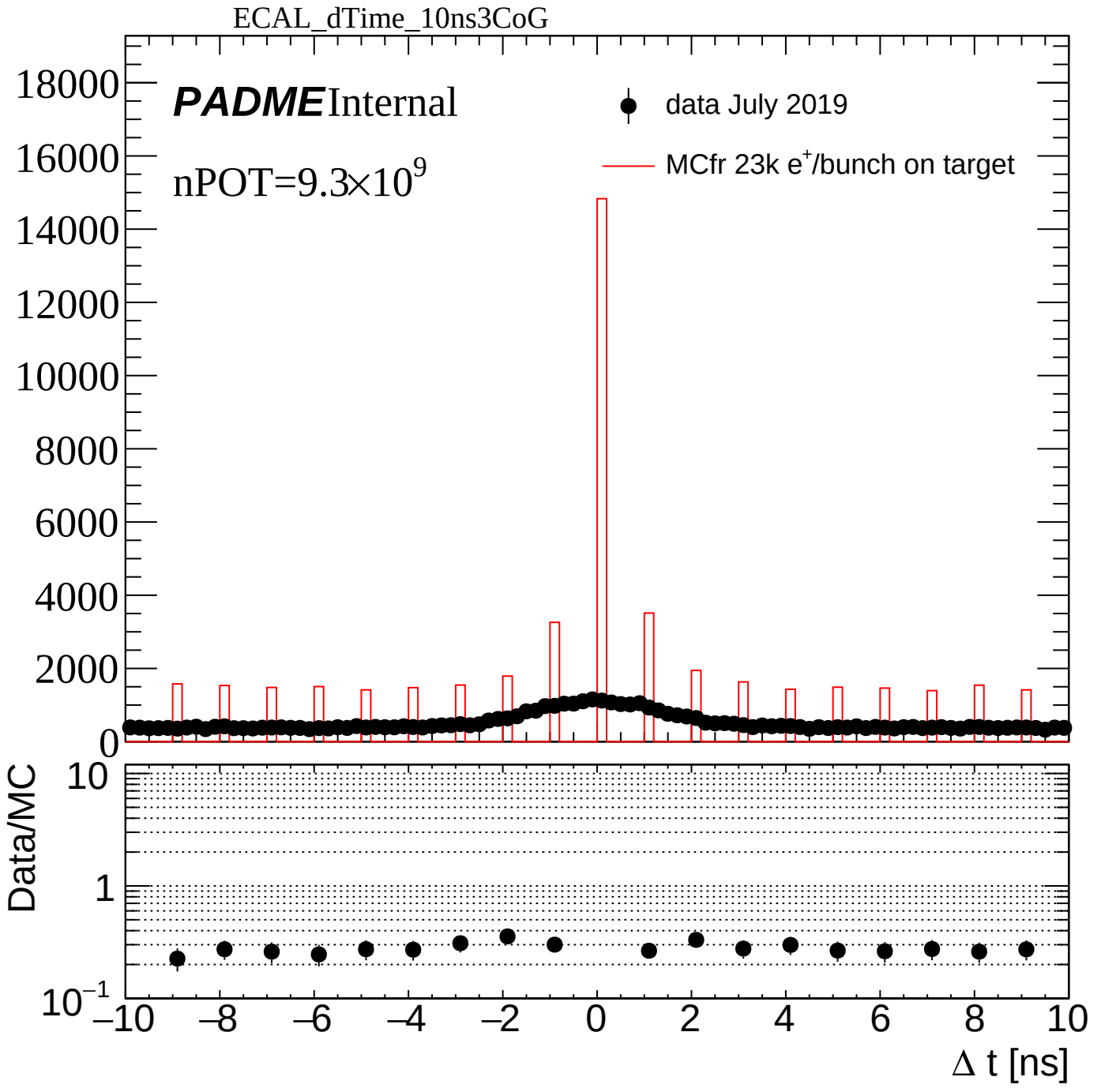
0
2
4
6
8
10
Δ t [ns]


ECAL_dTime_10ns3CoG
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Data/MC
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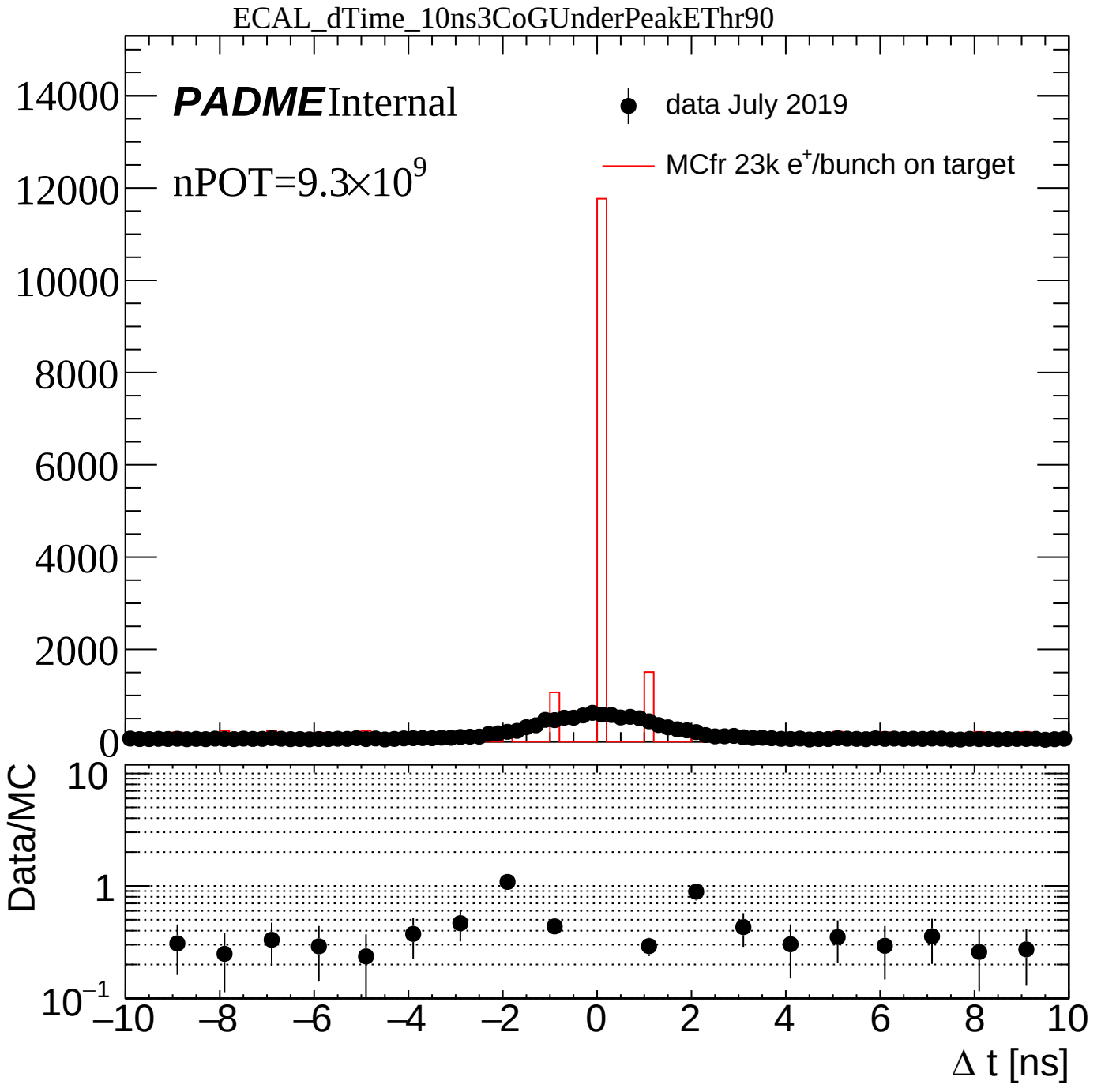
10^−1
–10
–8
–6
–4
–2
0
2
4
6
8
10
Δ t [ns]


ECAL_dTime_10ns3CoGUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
14000
12000
10000
8000
6000
4000
2000
0
Data/MC
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10^−1
–10
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–6
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0
2
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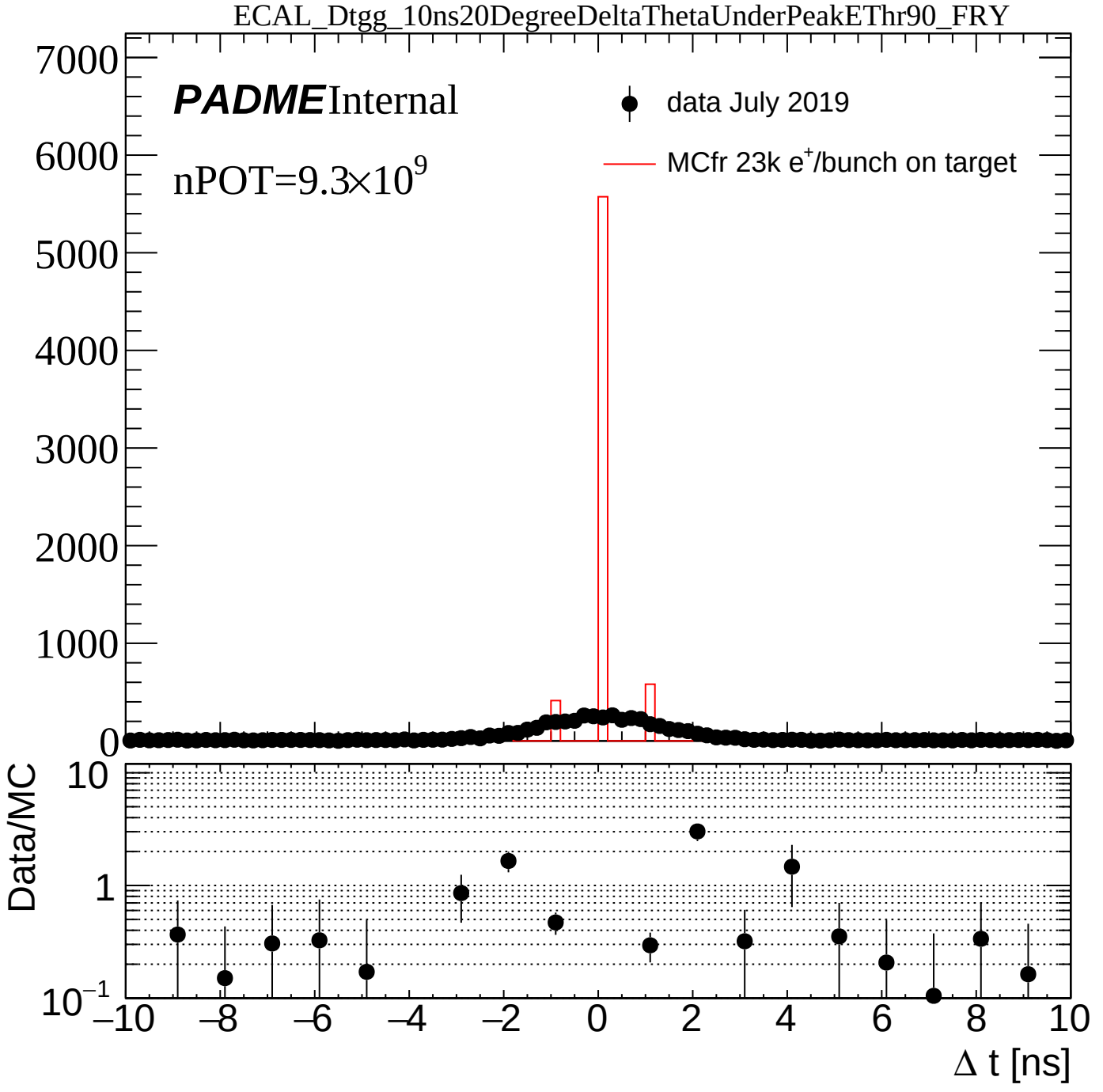
8
10
Δ t [ns]


ECAL_Dtgg_10ns20DegreeDeltaThetaUnderPeakEThr90_FRY
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
7000
6000
5000
4000
3000
2000
1000
0
Data/MC
10
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10^−1
–10
–8
–6
–4
–2
0
2
4
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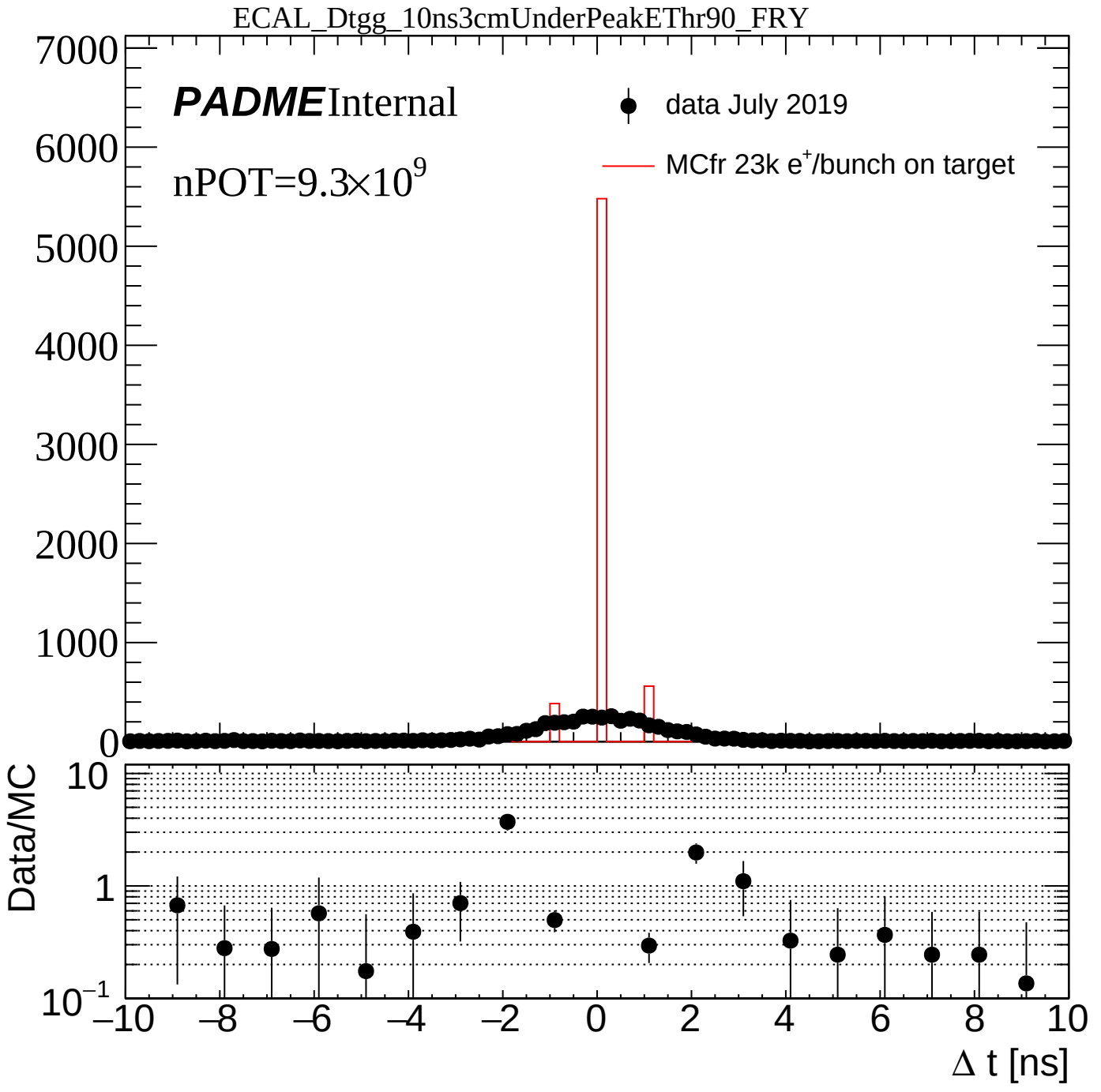
8
10
Δ t [ns]


ECAL_Dtgg_10ns3cmUnderPeakEThr90_FRY
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
7000
6000
5000
4000
3000
2000
1000
0
Data/MC
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10^−1
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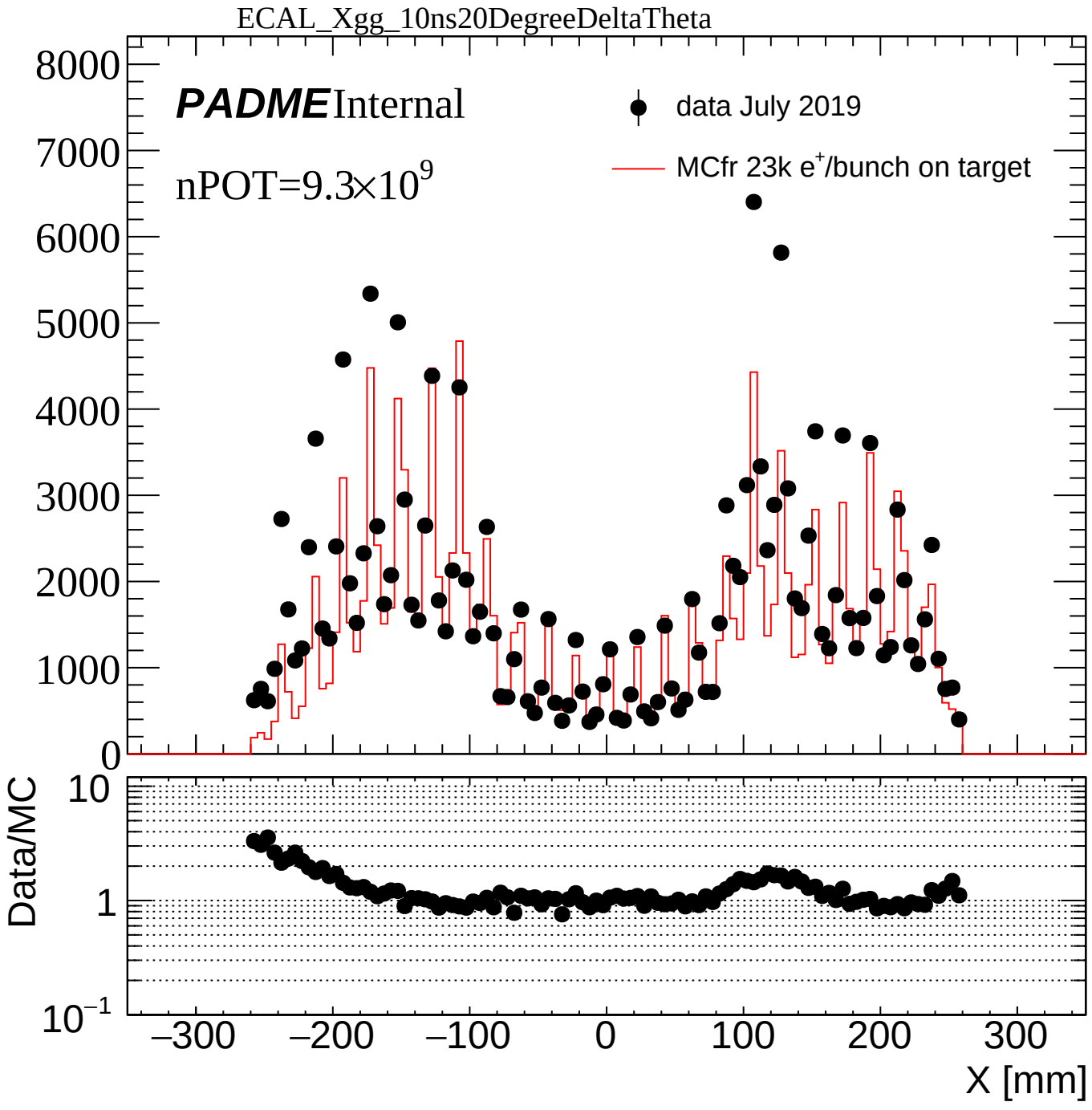
8
10
Δ t [ns]


ECAL_Xgg_10ns20DegreeDeltaTheta
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
8000
7000
6000
5000
4000
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2000
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0
Data/MC
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1
10^−1
–300
–200
–100
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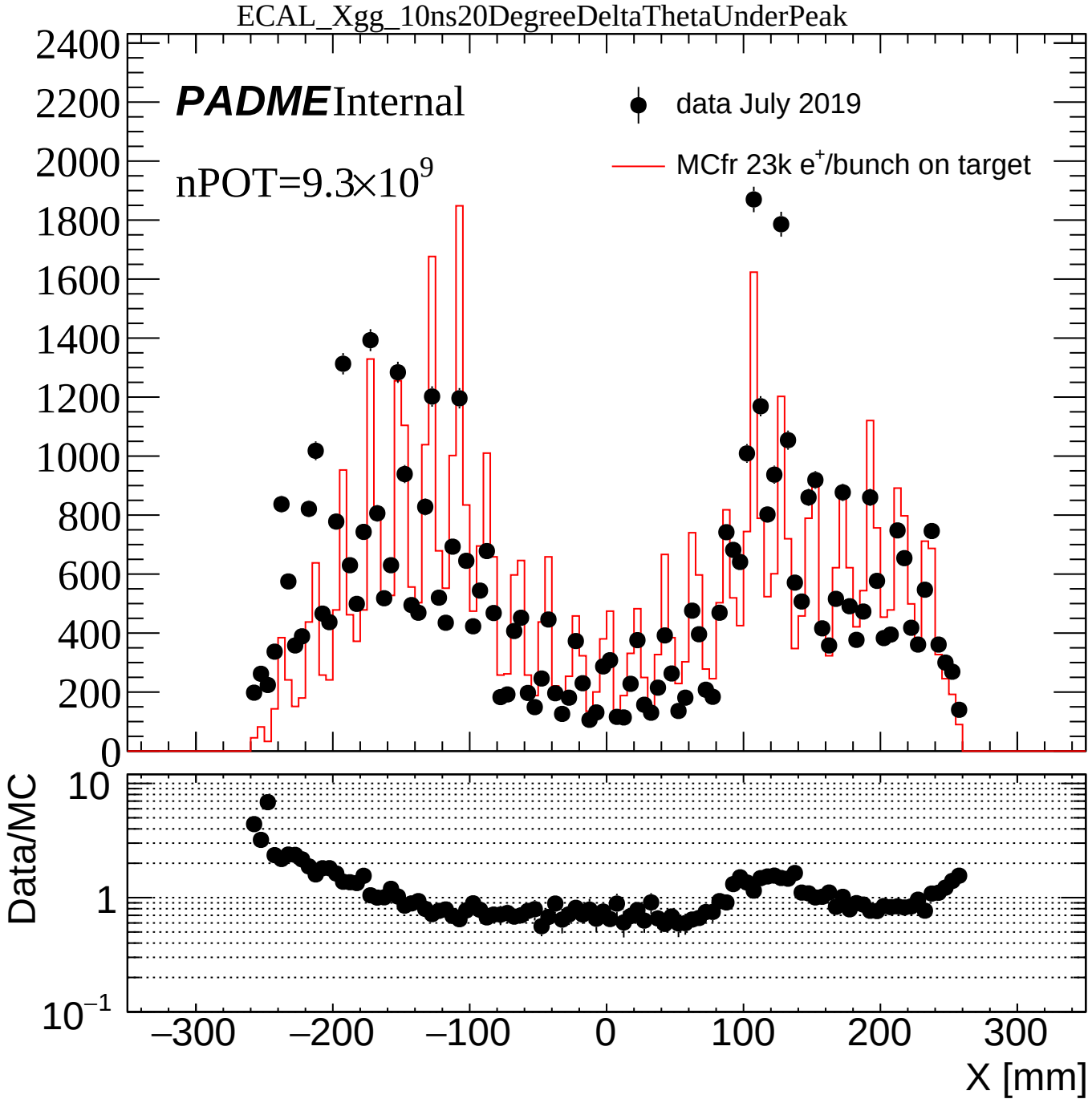
200
300
X [mm]


ECAL_Xgg_10ns20DegreeDeltaThetaUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2400
2200
2000
1800
1600
1400
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Data/MC
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10^−1
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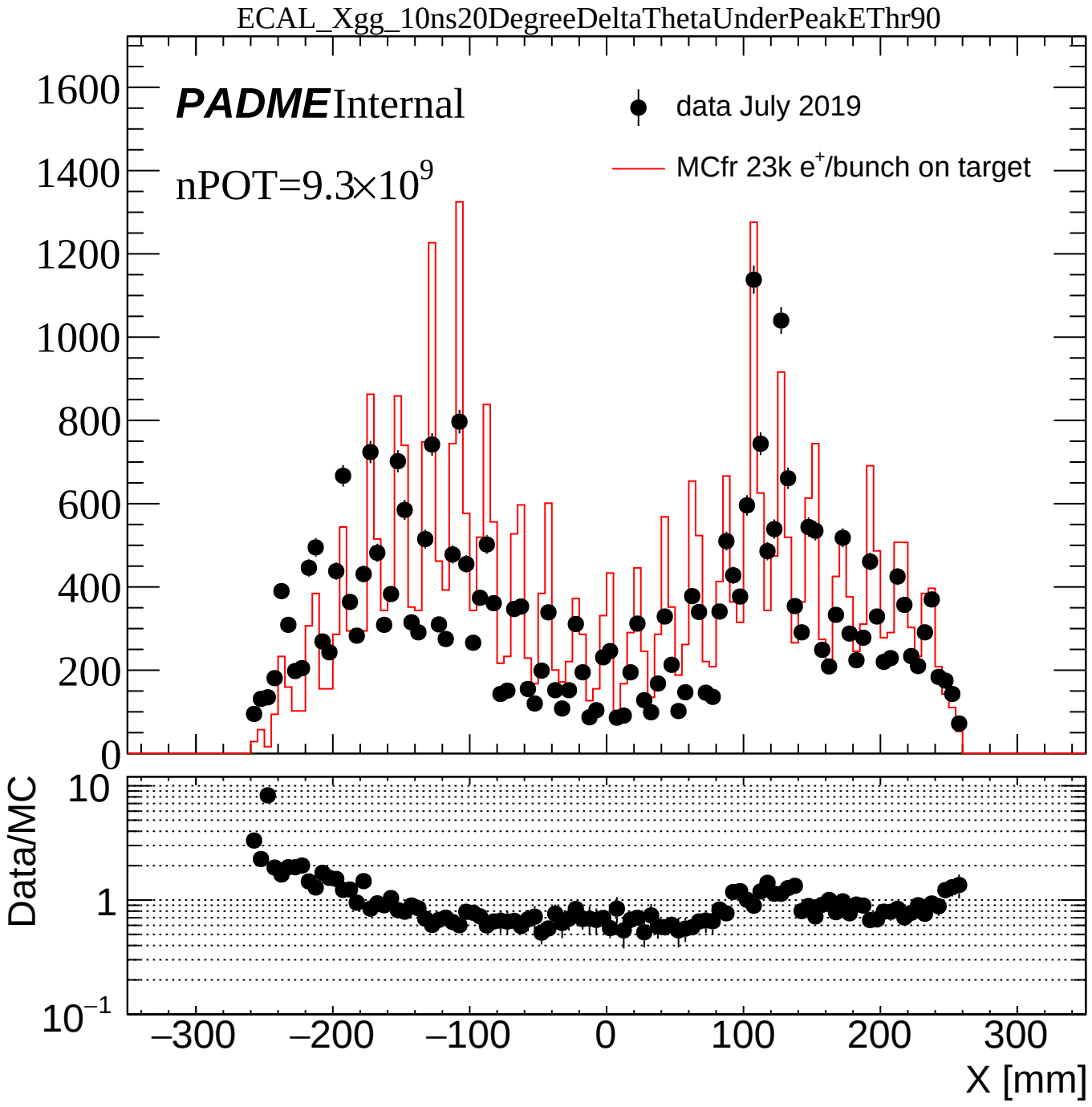
X [mm]


ECAL_Xgg_10ns20DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1600
1400
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Data/MC
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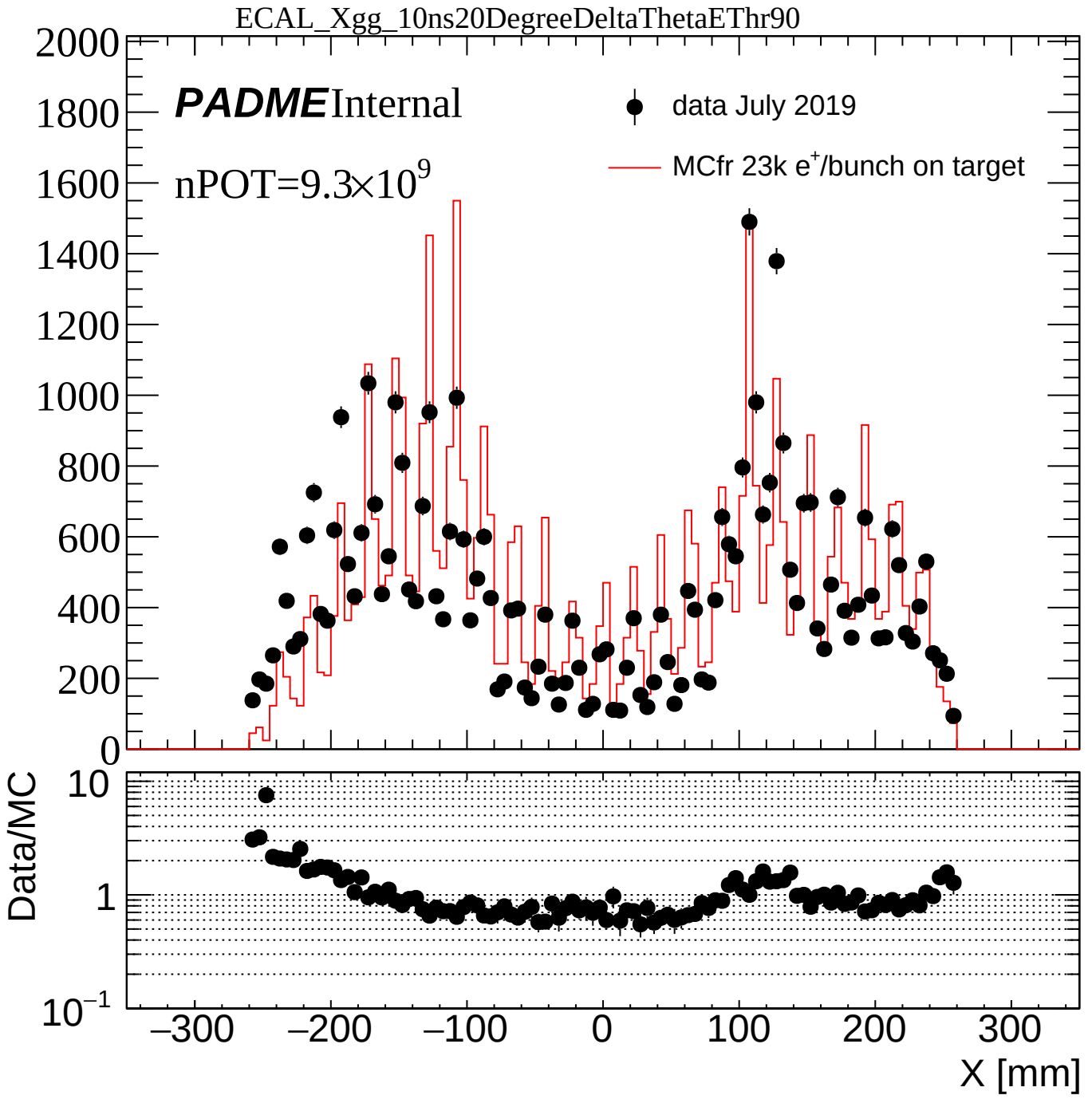
X [mm]


ECAL_Xgg_10ns20DegreeDeltaThetaEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2000
1800
1600
1400
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Data/MC
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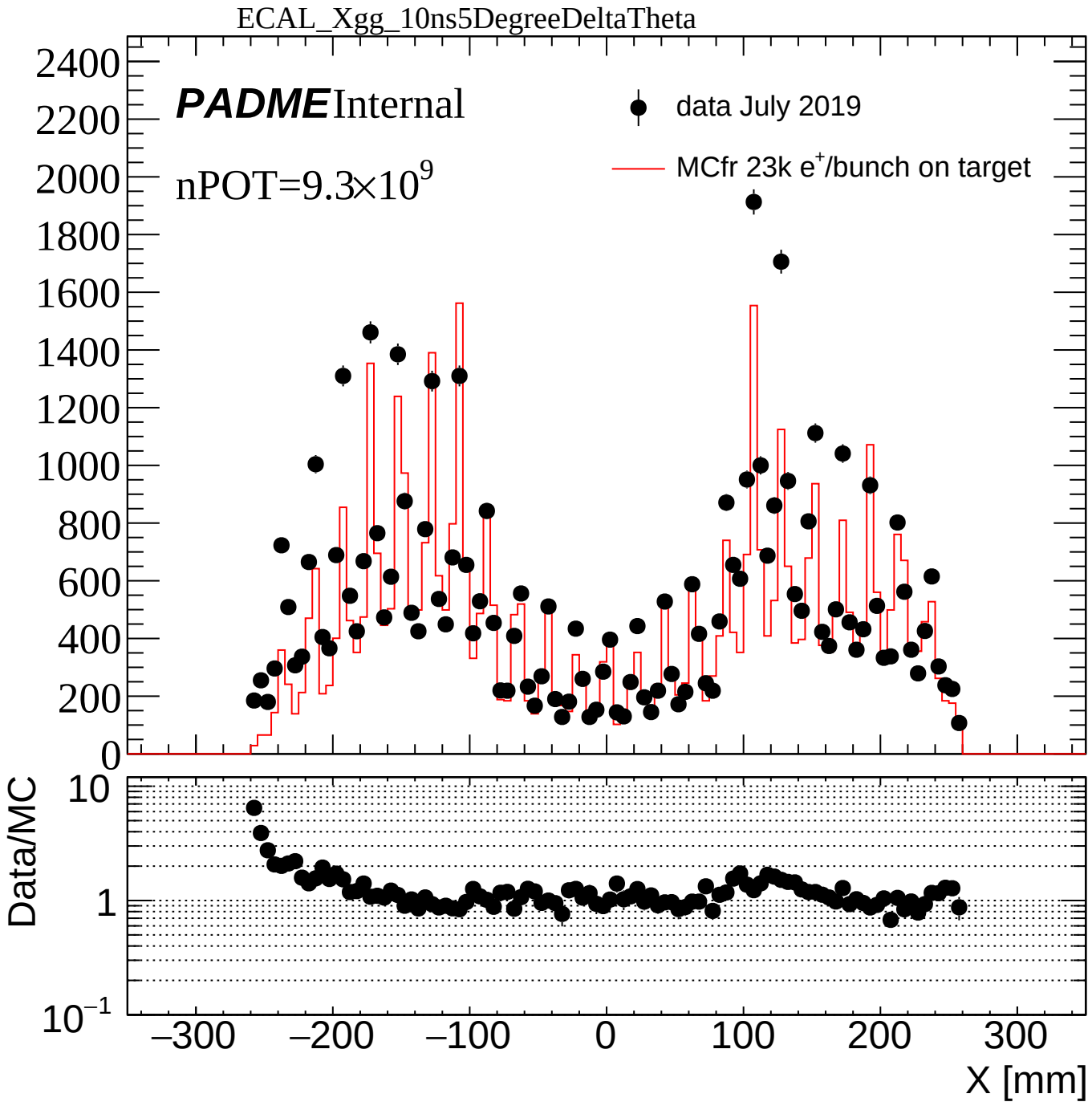
X [mm]


ECAL_Xgg_10ns5DegreeDeltaTheta
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2400
2200
2000
1800
1600
1400
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Data/MC
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1
10^−1
–300
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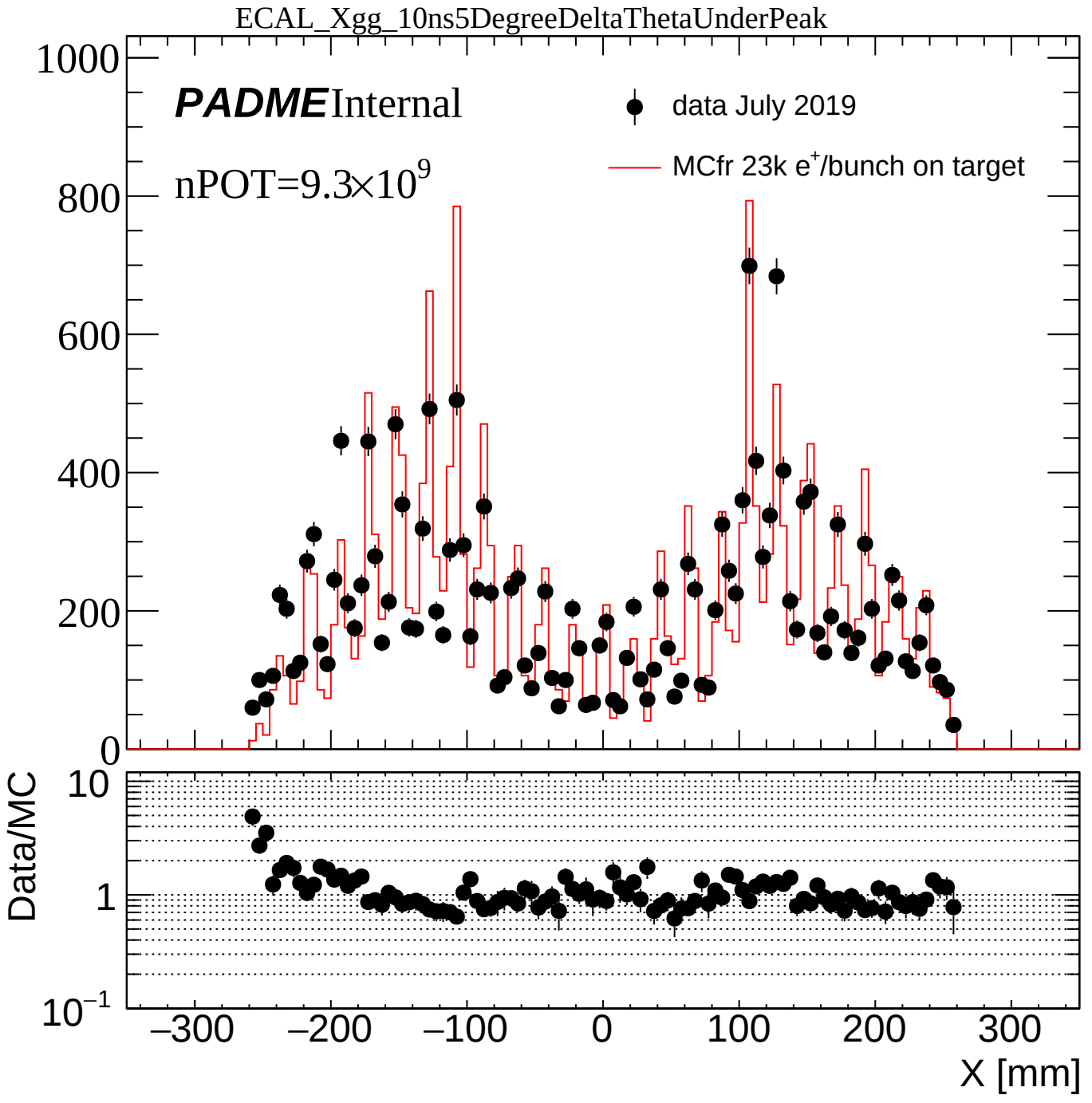
X [mm]


ECAL_Xgg_10ns5DegreeDeltaThetaUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1000
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400
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0
Data/MC
10
1
10^−1
–300
–200
–100
0
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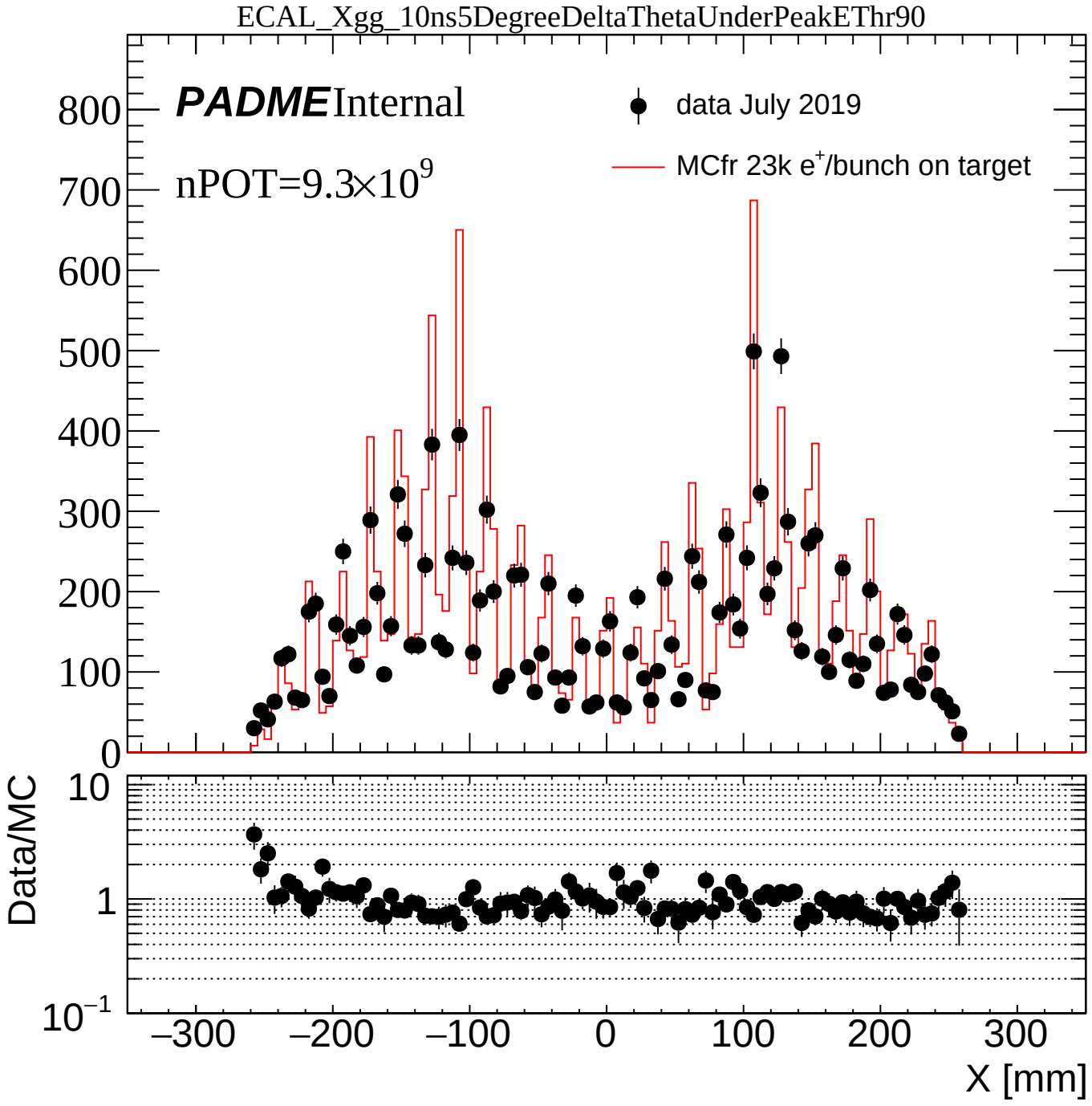
200
300
X [mm]


ECAL_Xgg_10ns5DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
800
700
600
500
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Data/MC
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1
10^−1
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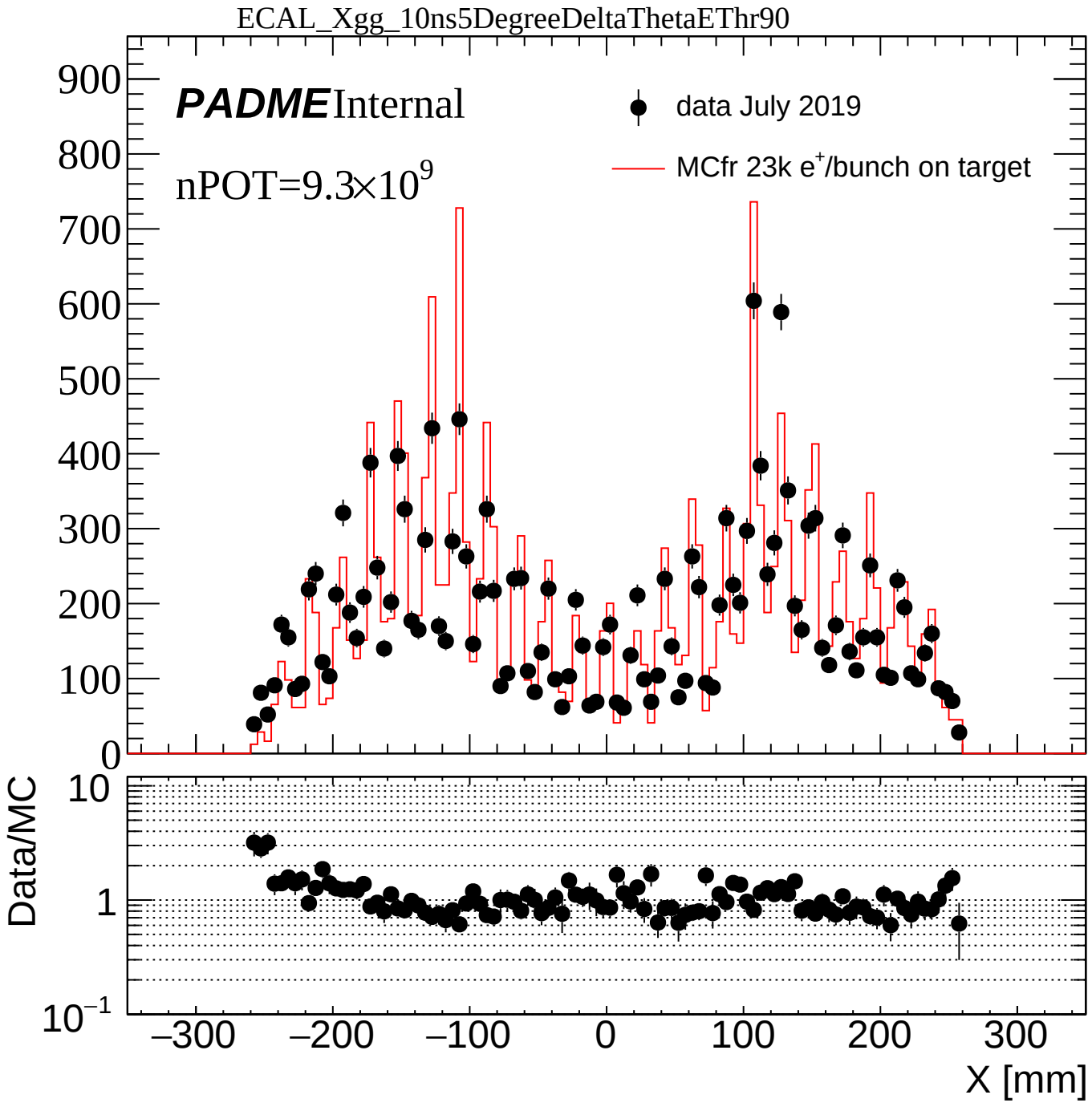
X [mm]


ECAL_Xgg_10ns5DegreeDeltaThetaEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
800
700
600
500
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0
Data/MC
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1
10^−1
–300
–200
–100
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200
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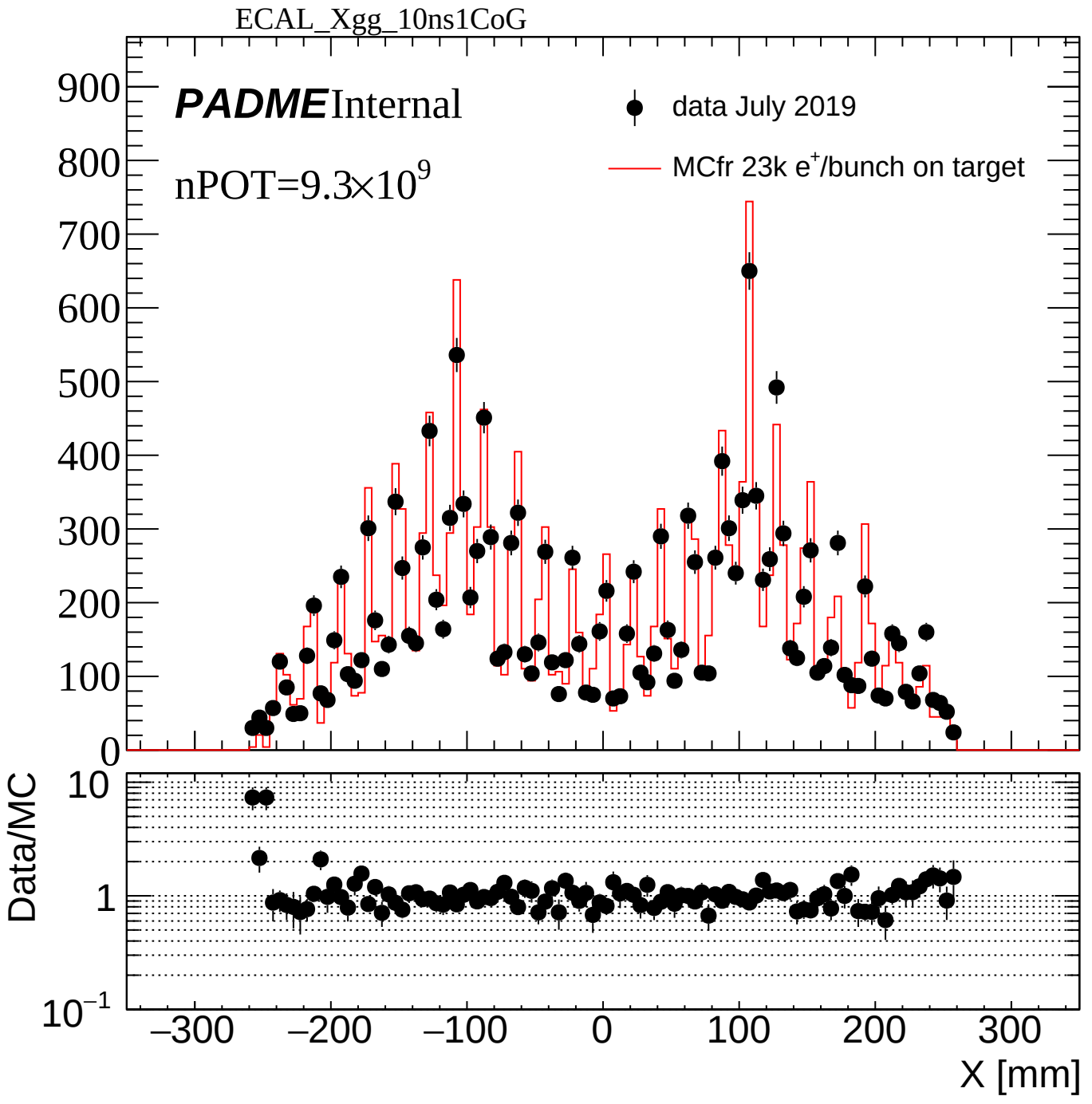
X [mm]


ECAL_Xgg_10ns1CoG
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
800
700
600
500
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0
Data/MC
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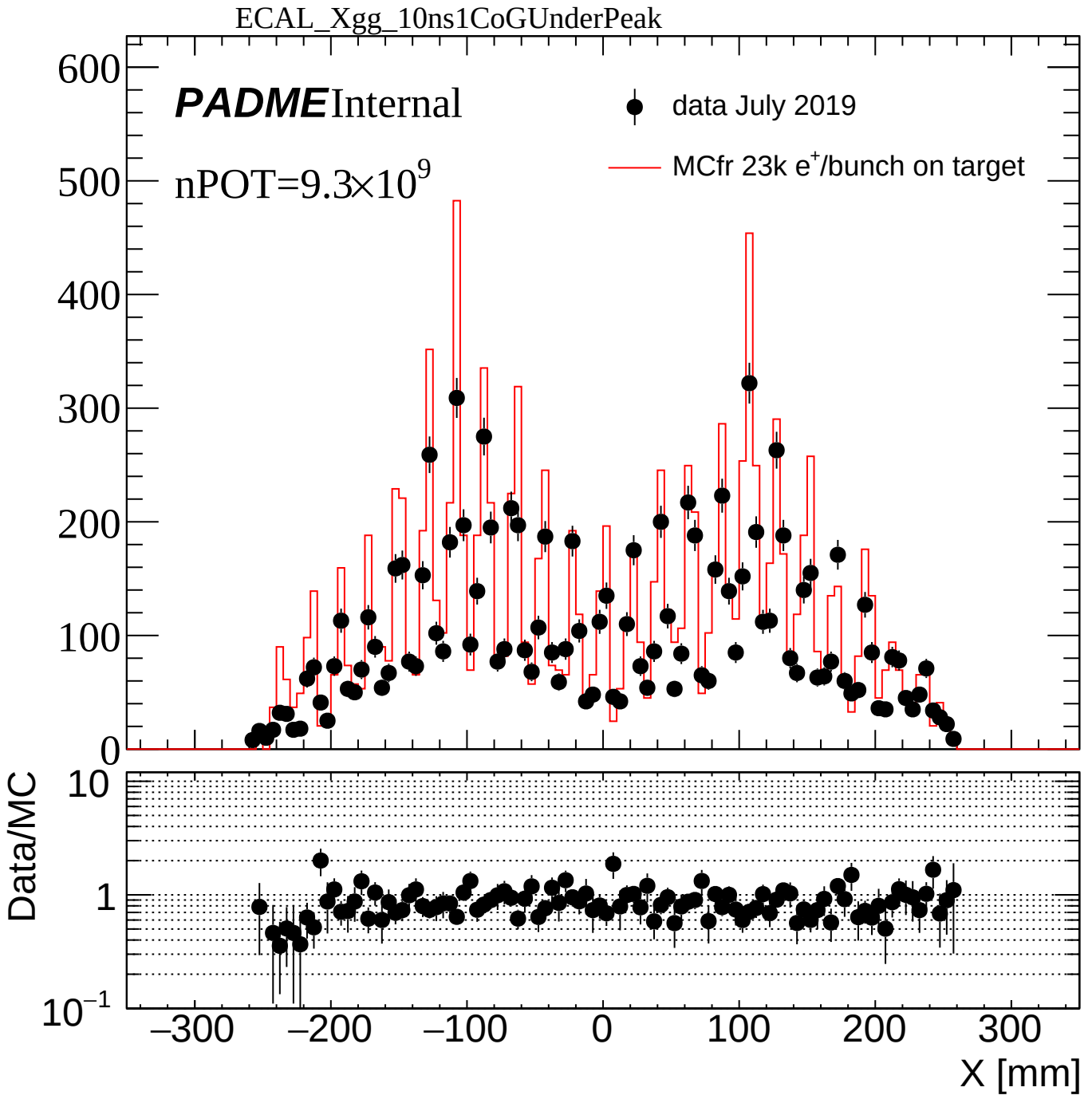
1
10^−1
–300
–200
–100
0
100
200
300
X [mm]


ECAL_Xgg_10ns1CoGUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
600
500
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200
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0
Data/MC
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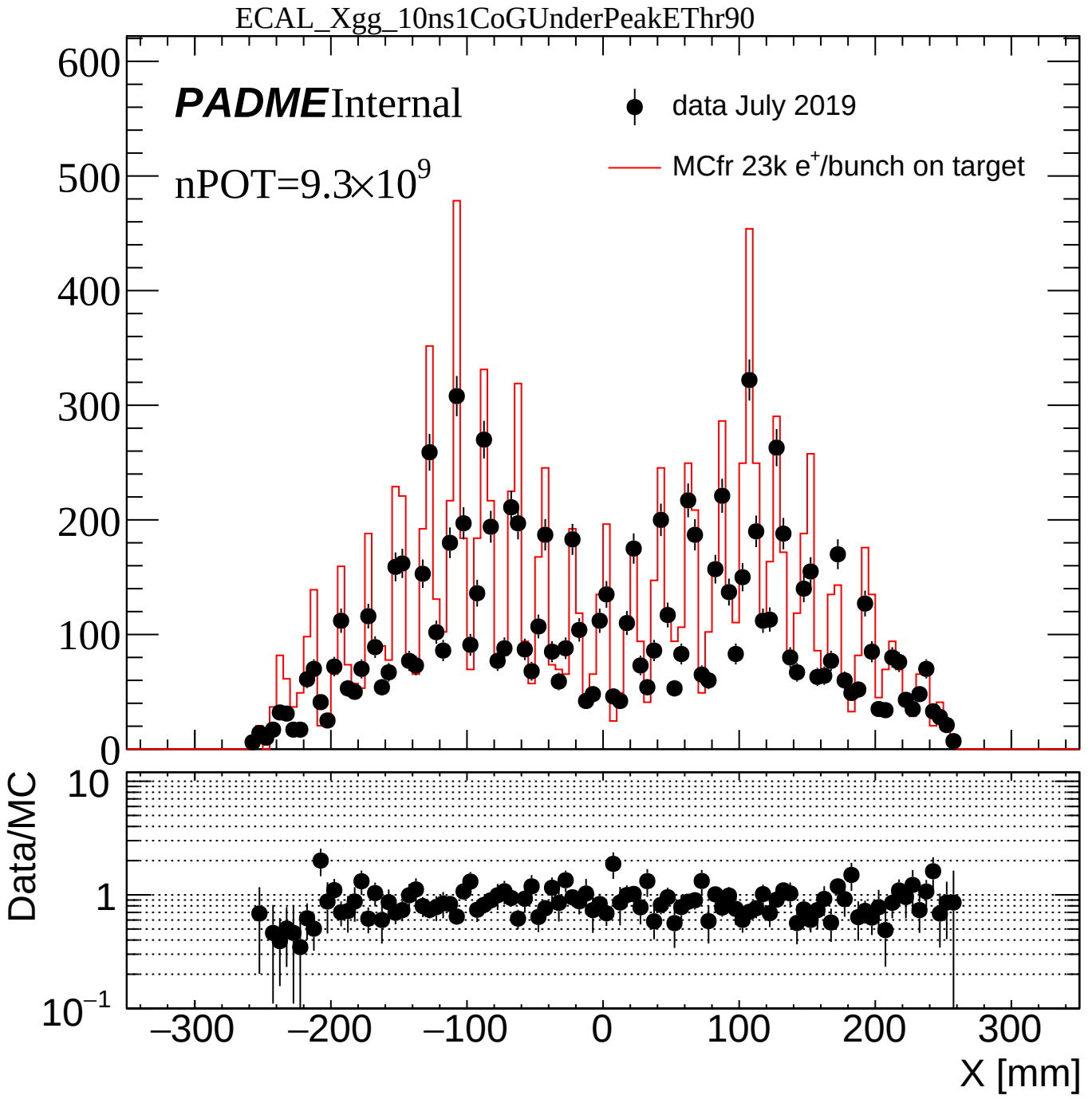
1
10^−1
−300
−200
−100
0
100
200
300
X [mm]


ECAL_Xgg_10ns1CoGUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
600
500
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0
Data/MC
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1
10^−1
−300
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−100
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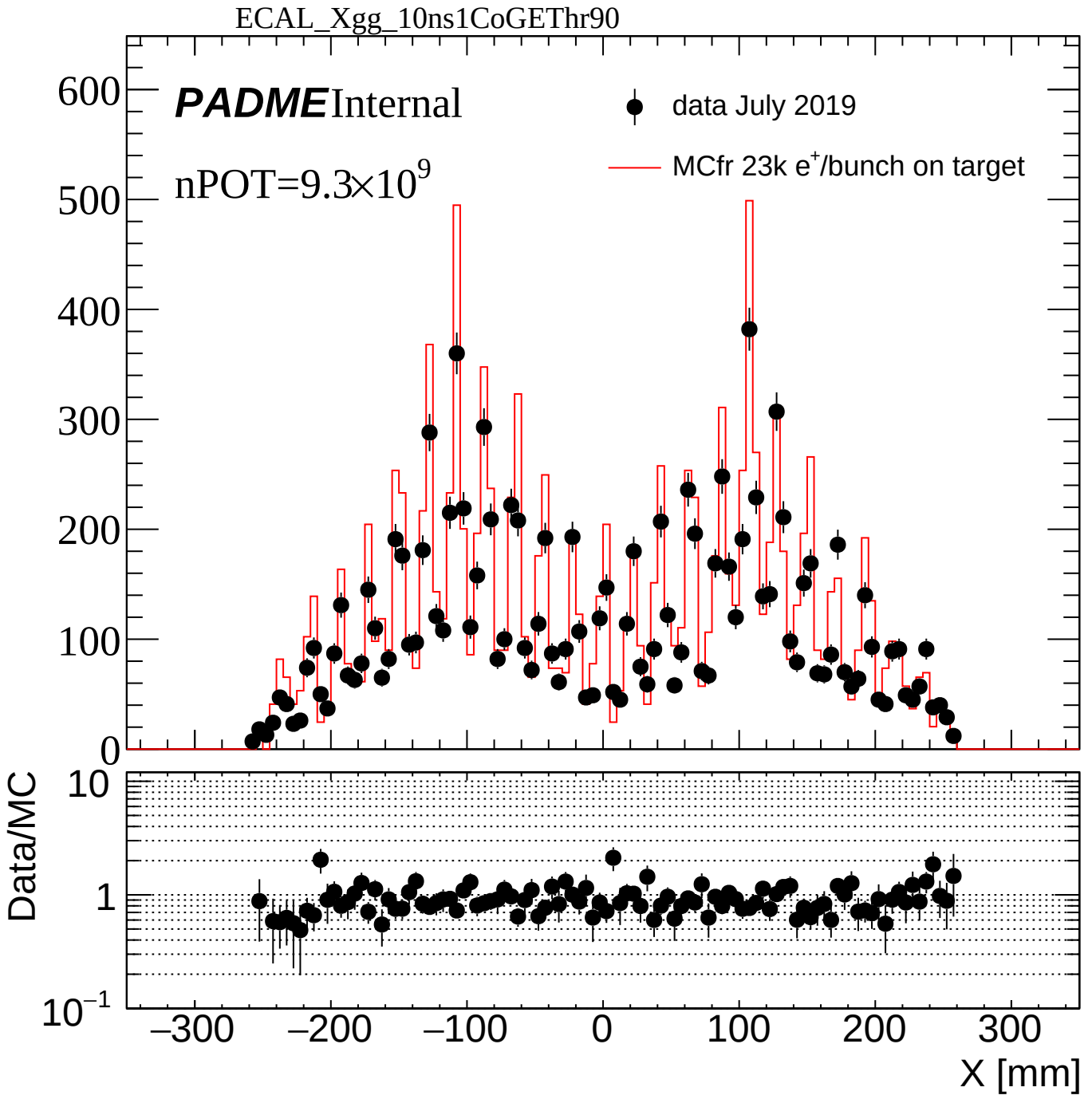
300
X [mm]


ECAL_Xgg_10ns1CoGEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
600
500
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0
Data/MC
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10^−1
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–100
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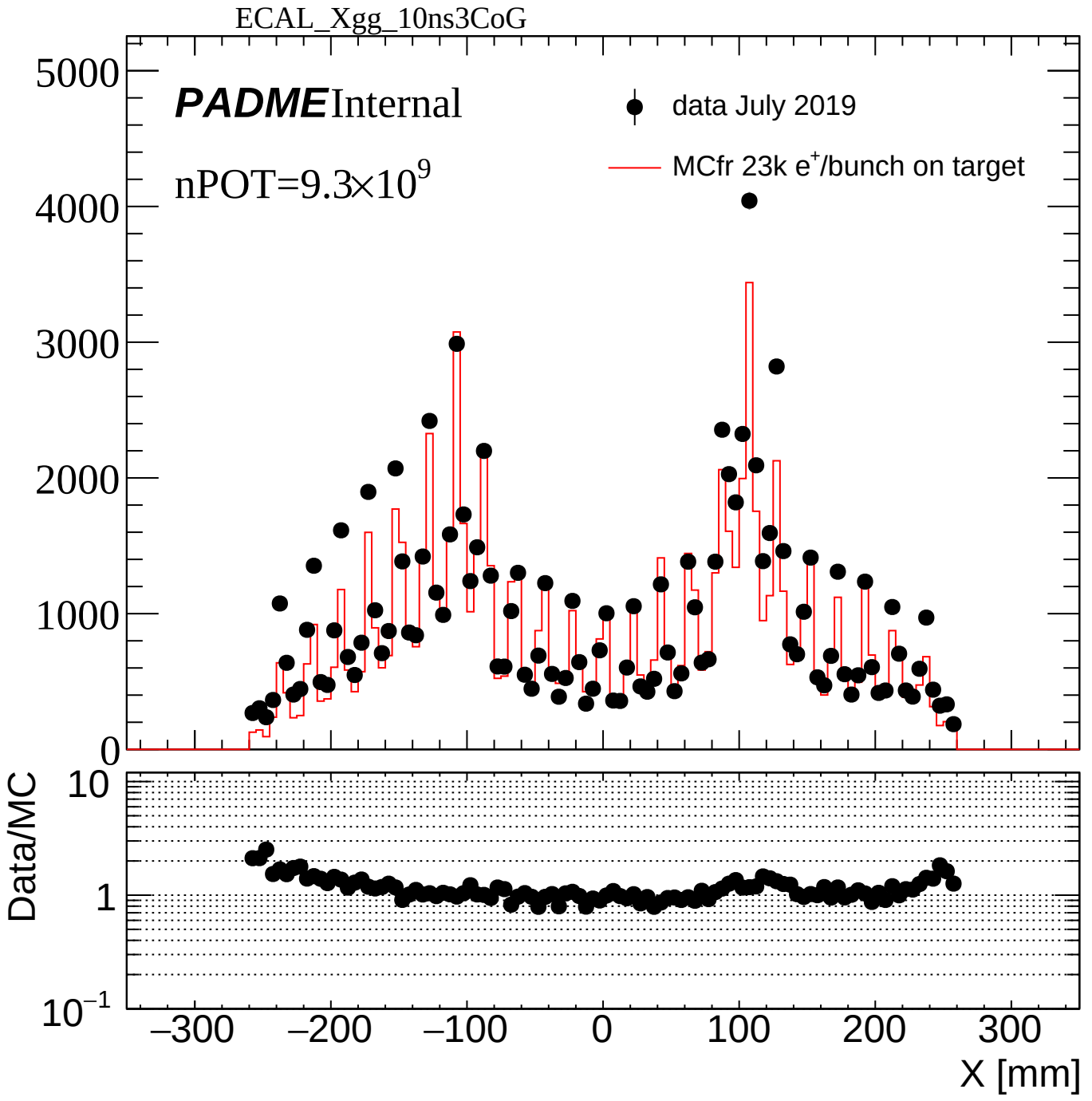
X [mm]


ECAL_Xgg_10ns3CoG
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
5000
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Data/MC
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1
10^−1
–300
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–100
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200
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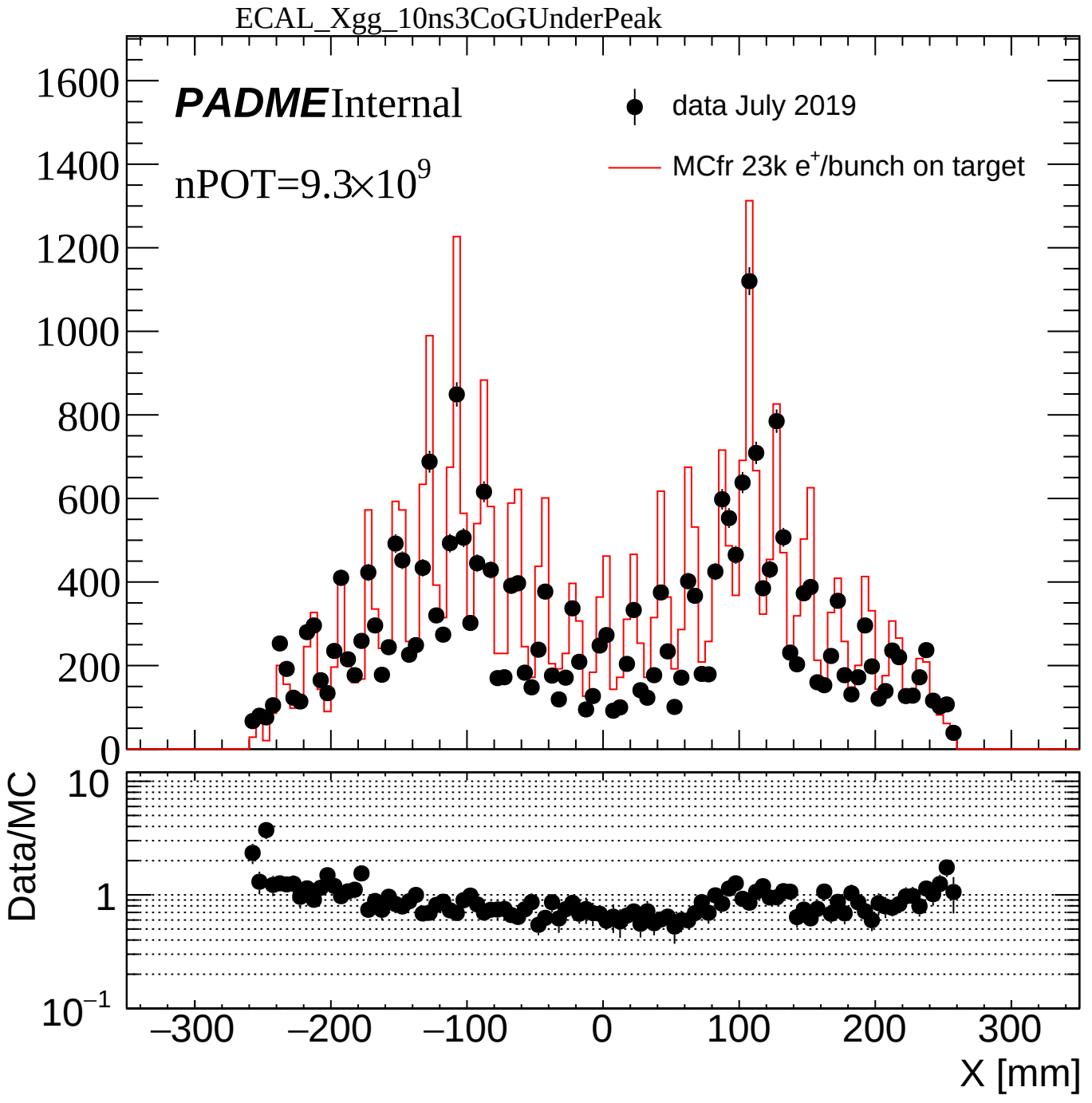
X [mm]


ECAL_Xgg_10ns3CoGUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1600
1400
1200
1000
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Data/MC
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1
10^−1
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200
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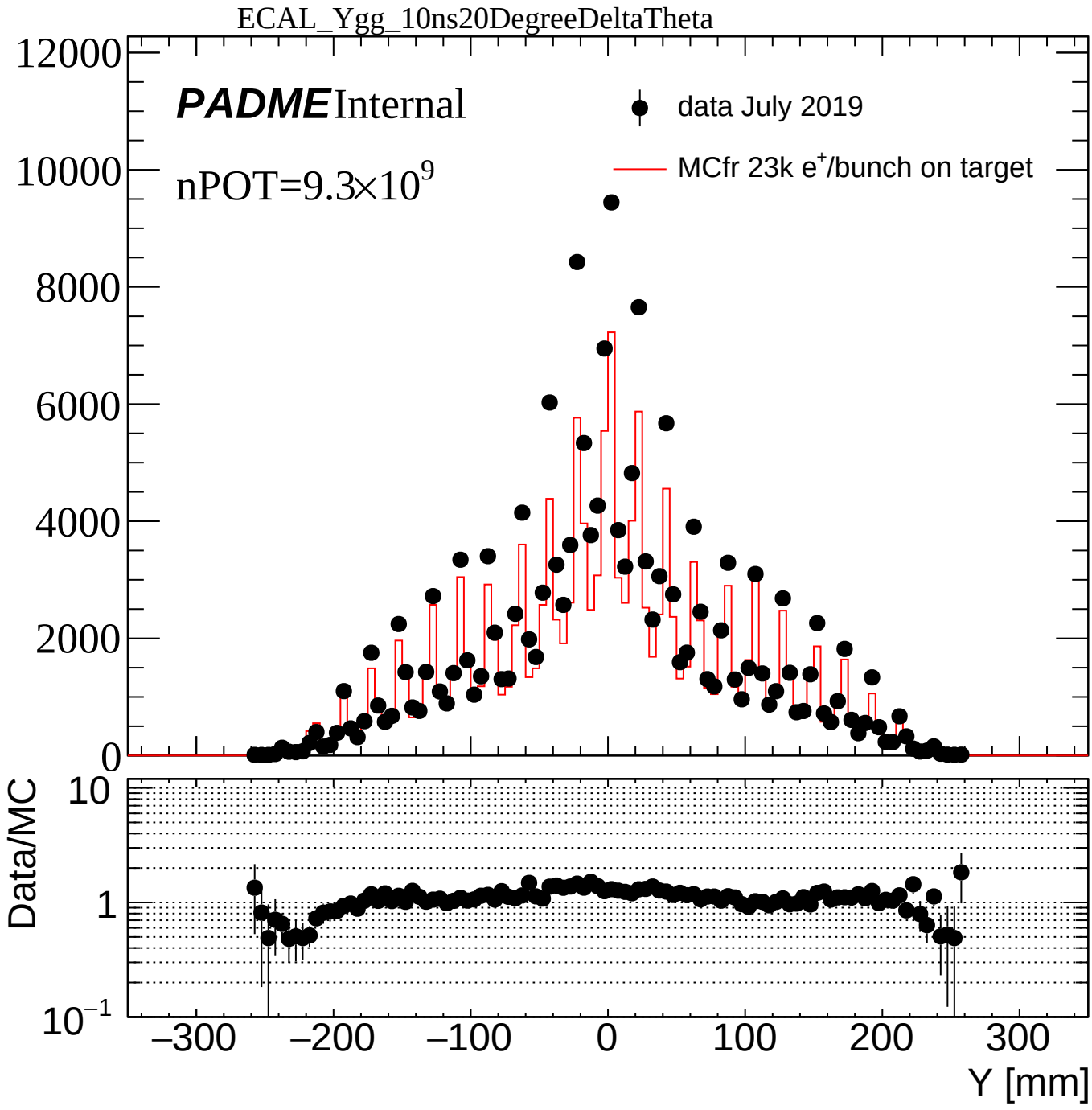
X [mm]


ECAL_Ygg_10ns20DegreeDeltaTheta
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
12000
10000
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0
Data/MC
10
1
10^−1
−300
−200
−100
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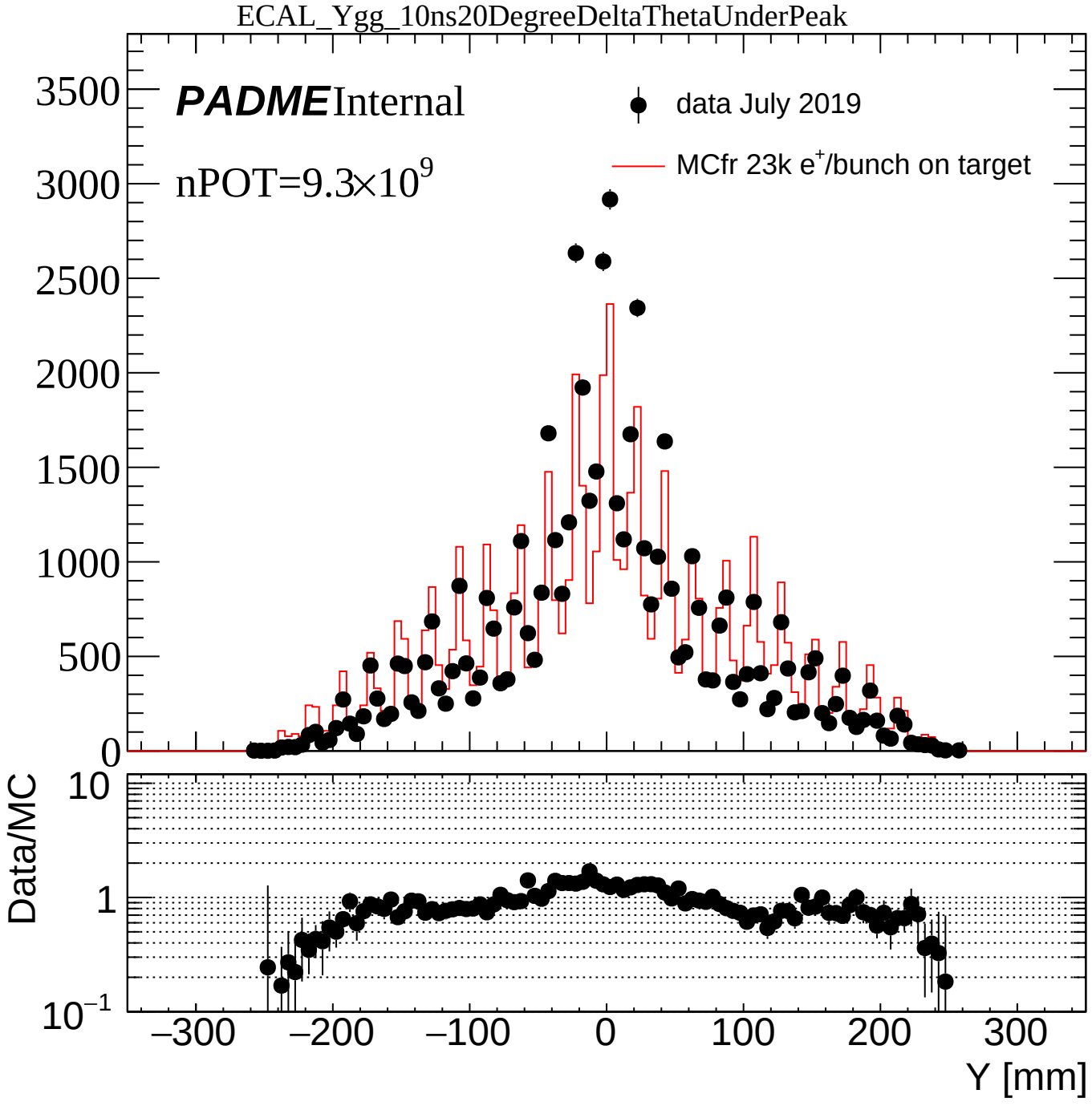
200
300
Y [mm]


ECAL_Ygg_10ns20DegreeDeltaThetaUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
3500
3000
2500
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Data/MC
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10^−1
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–100
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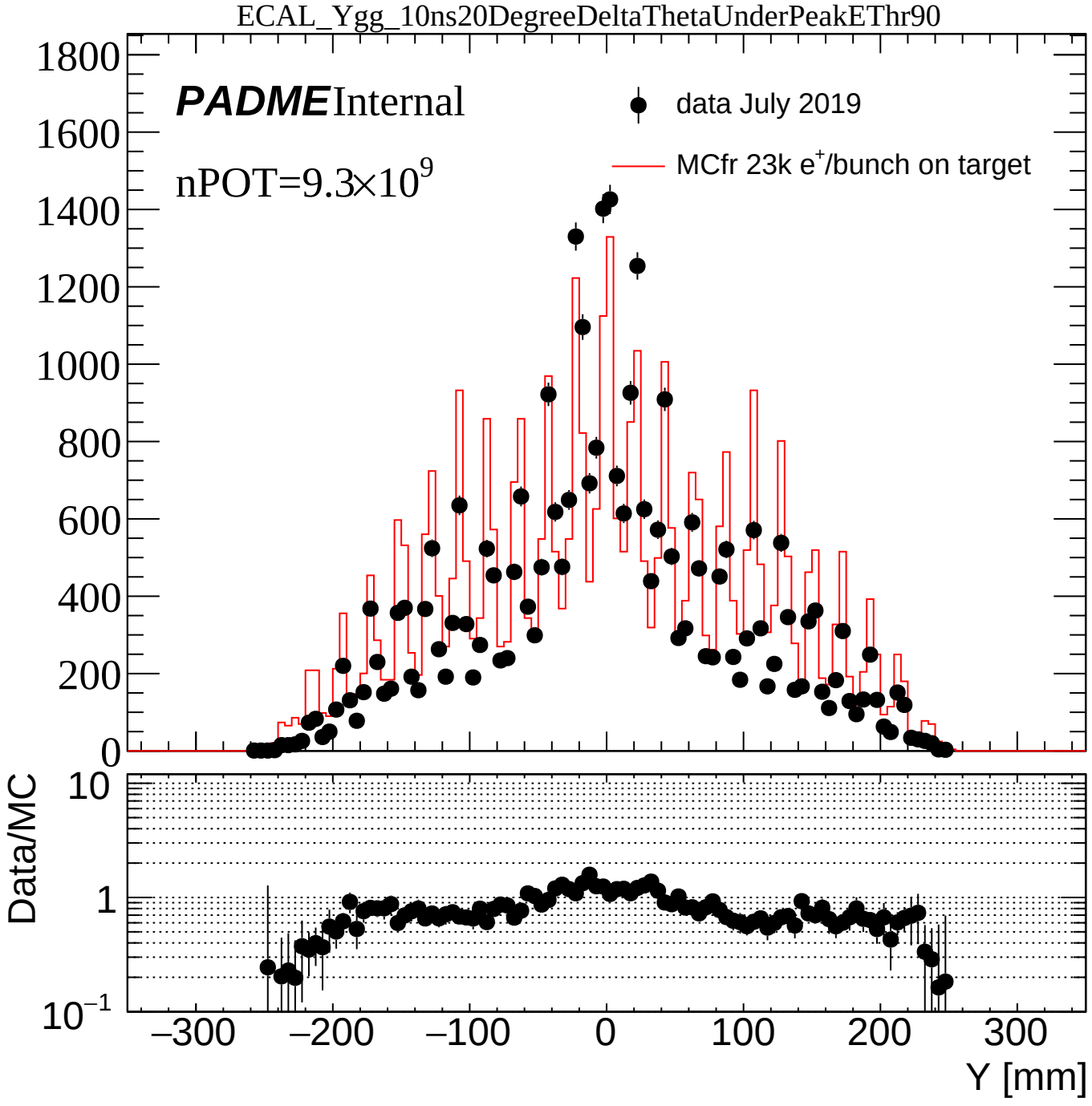
200
300
Y [mm]


ECAL_Ygg_10ns20DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1800
1600
1400
1200
1000
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Data/MC
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1
10^−1
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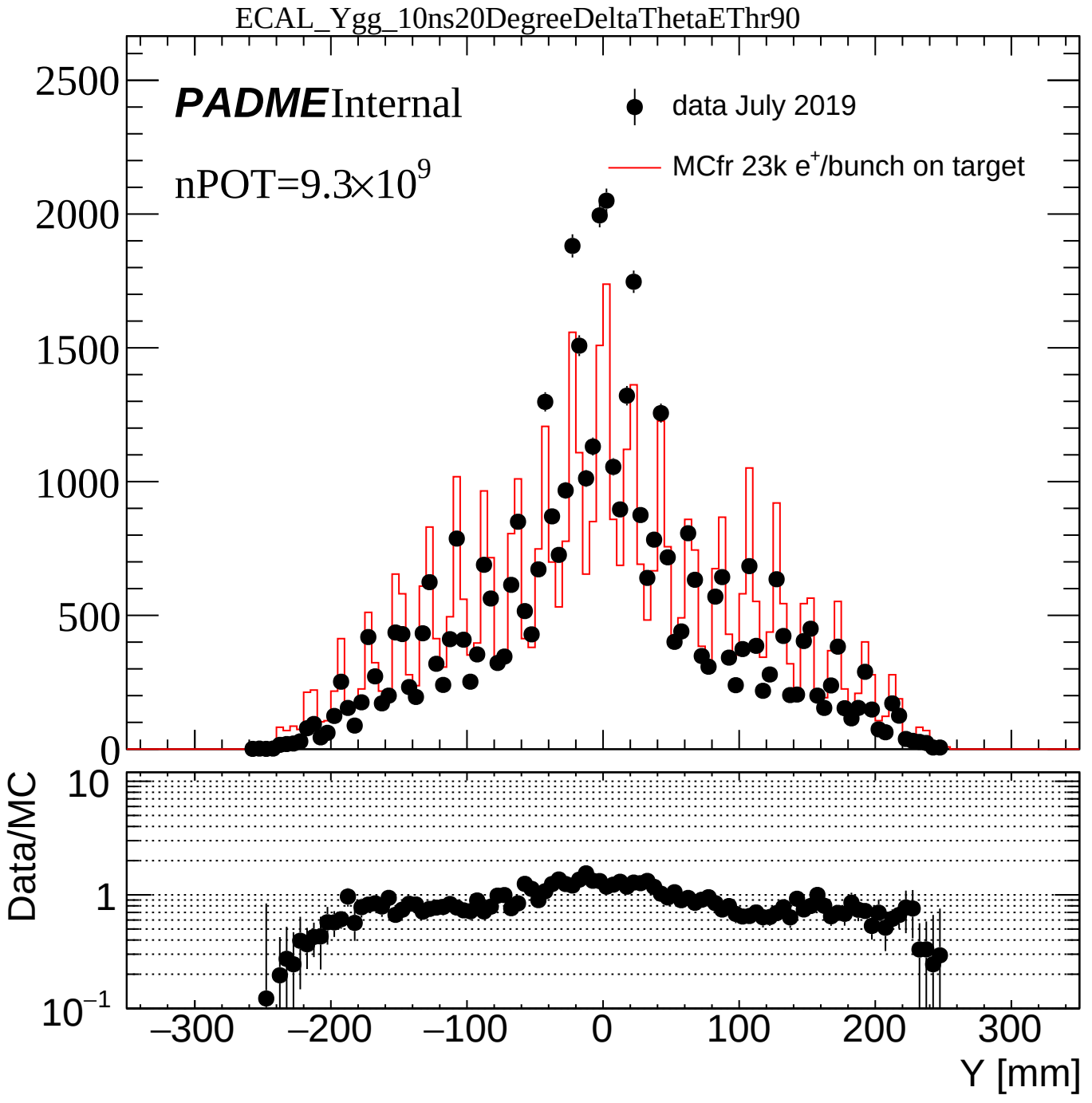
Y [mm]


ECAL_Ygg_10ns20DegreeDeltaThetaEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
2500
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Data/MC
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1
10^−1
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–100
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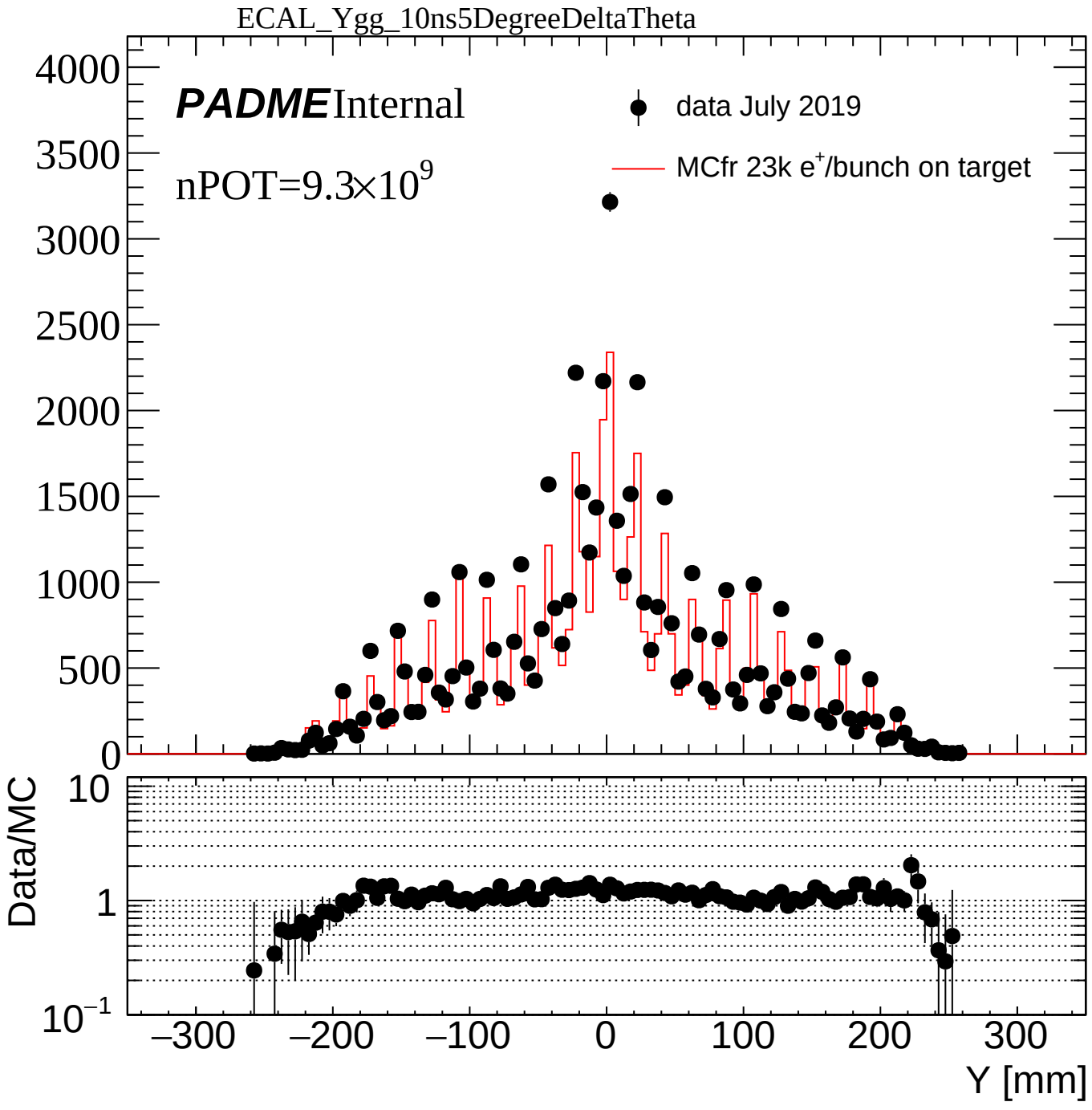
300
Y [mm]


ECAL_Ygg_10ns5DegreeDeltaTheta
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
4000
3500
3000
2500
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0
Data/MC
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10^−1
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–100
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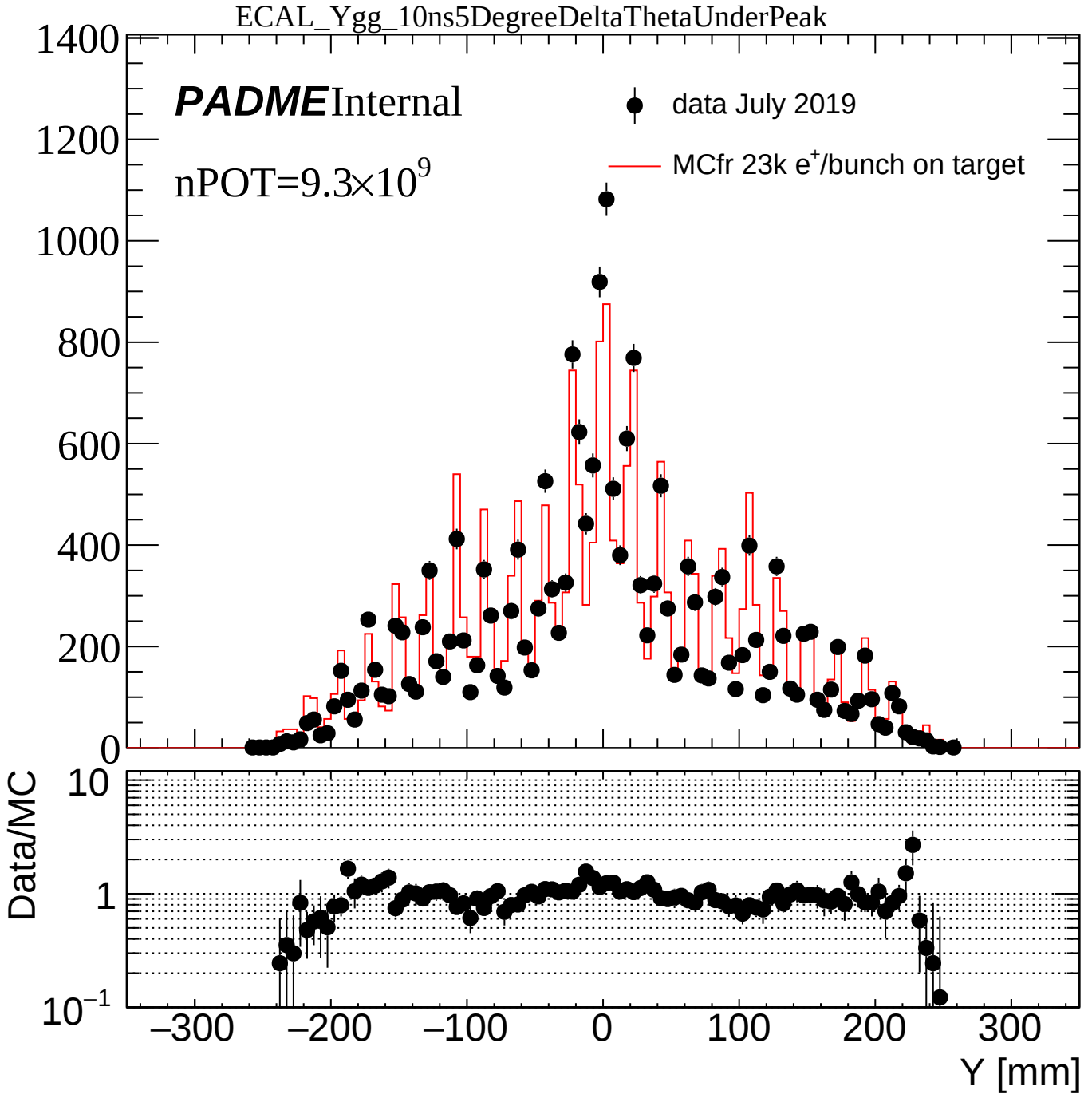
Y [mm]


ECAL_Ygg_10ns5DegreeDeltaThetaUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1400
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Data/MC
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1
10^−1
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200
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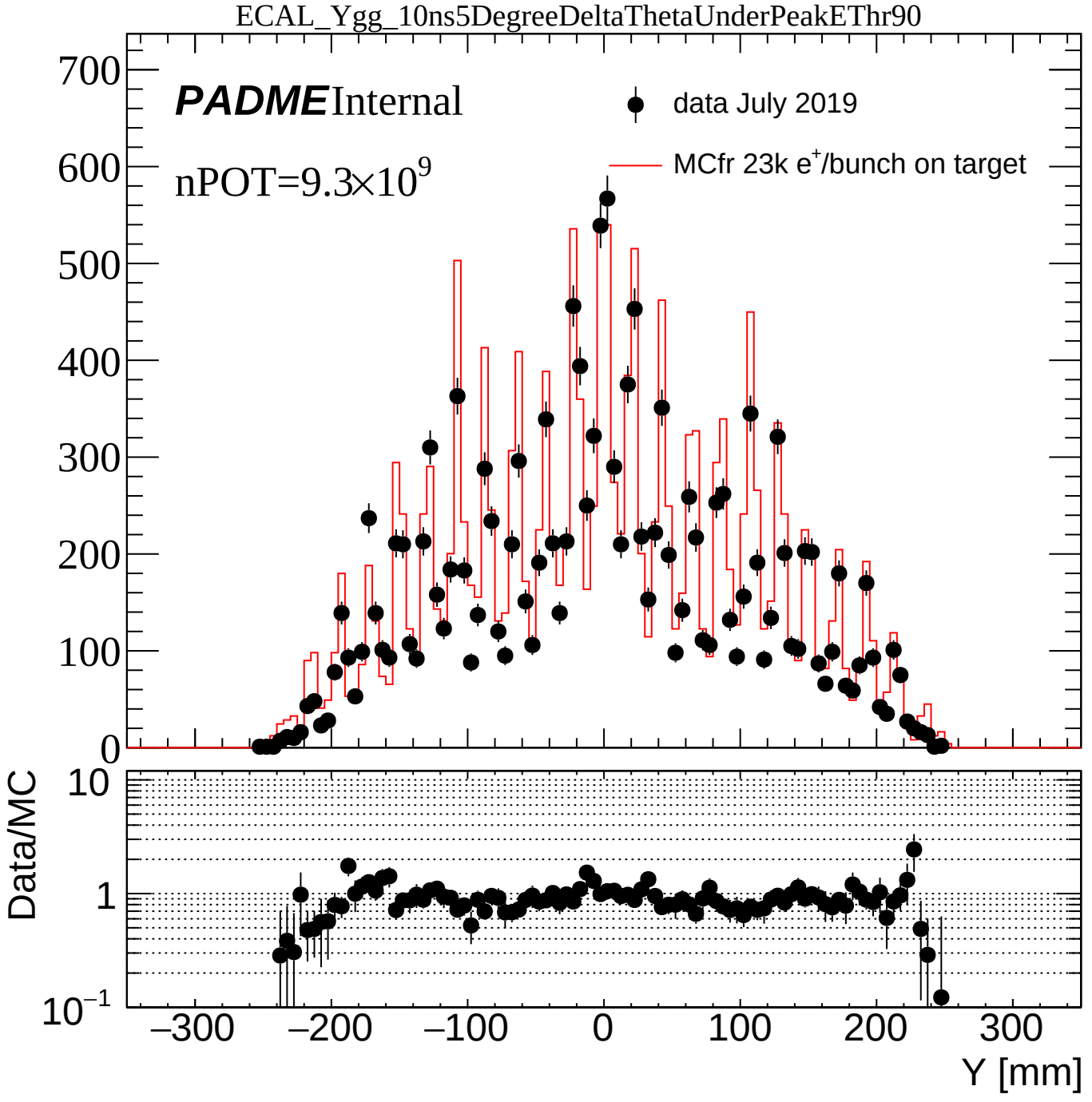
Y [mm]


ECAL_Ygg_10ns5DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
700
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Data/MC
10
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10^−1
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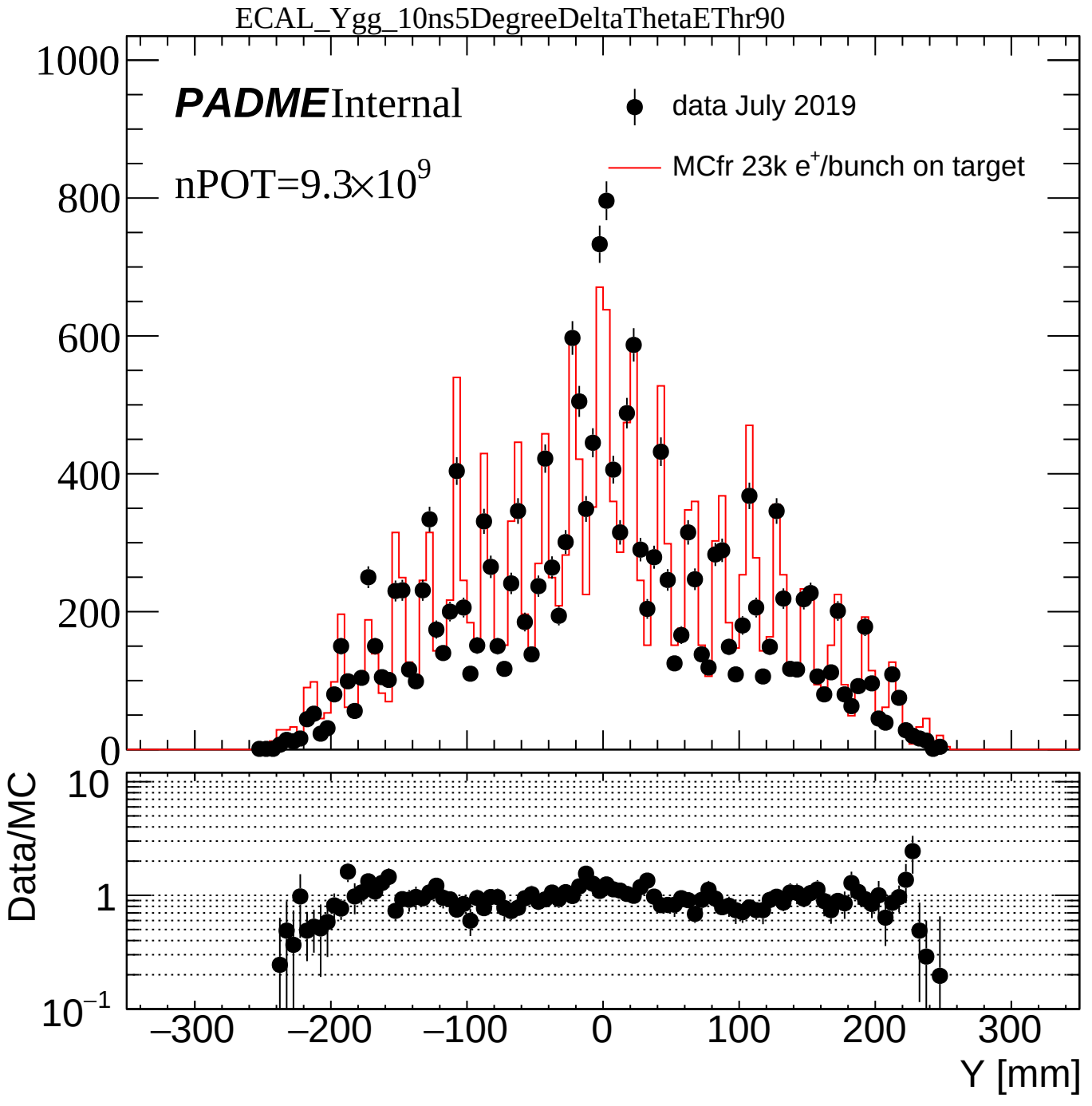
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PADME Internal
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1000
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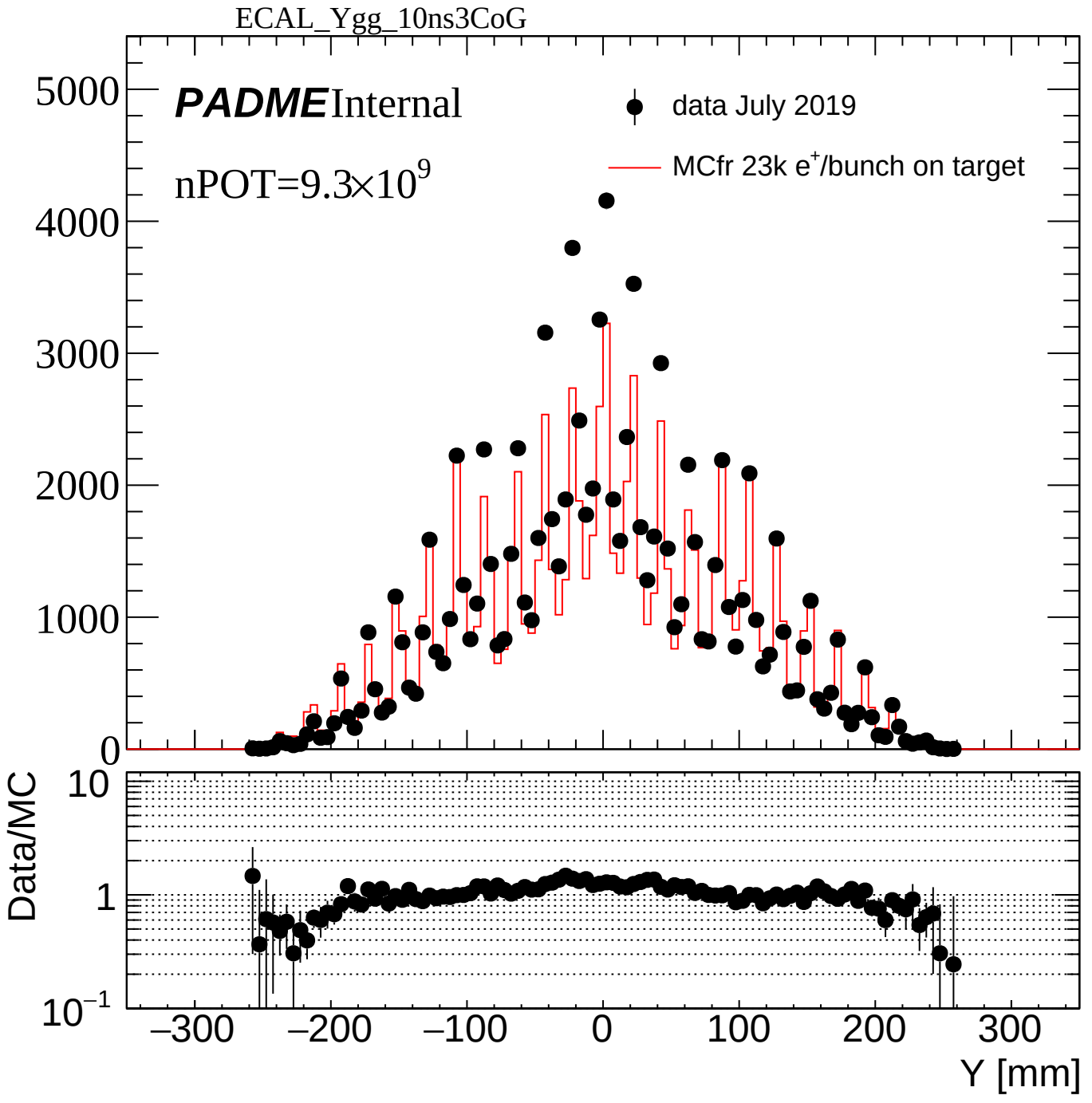
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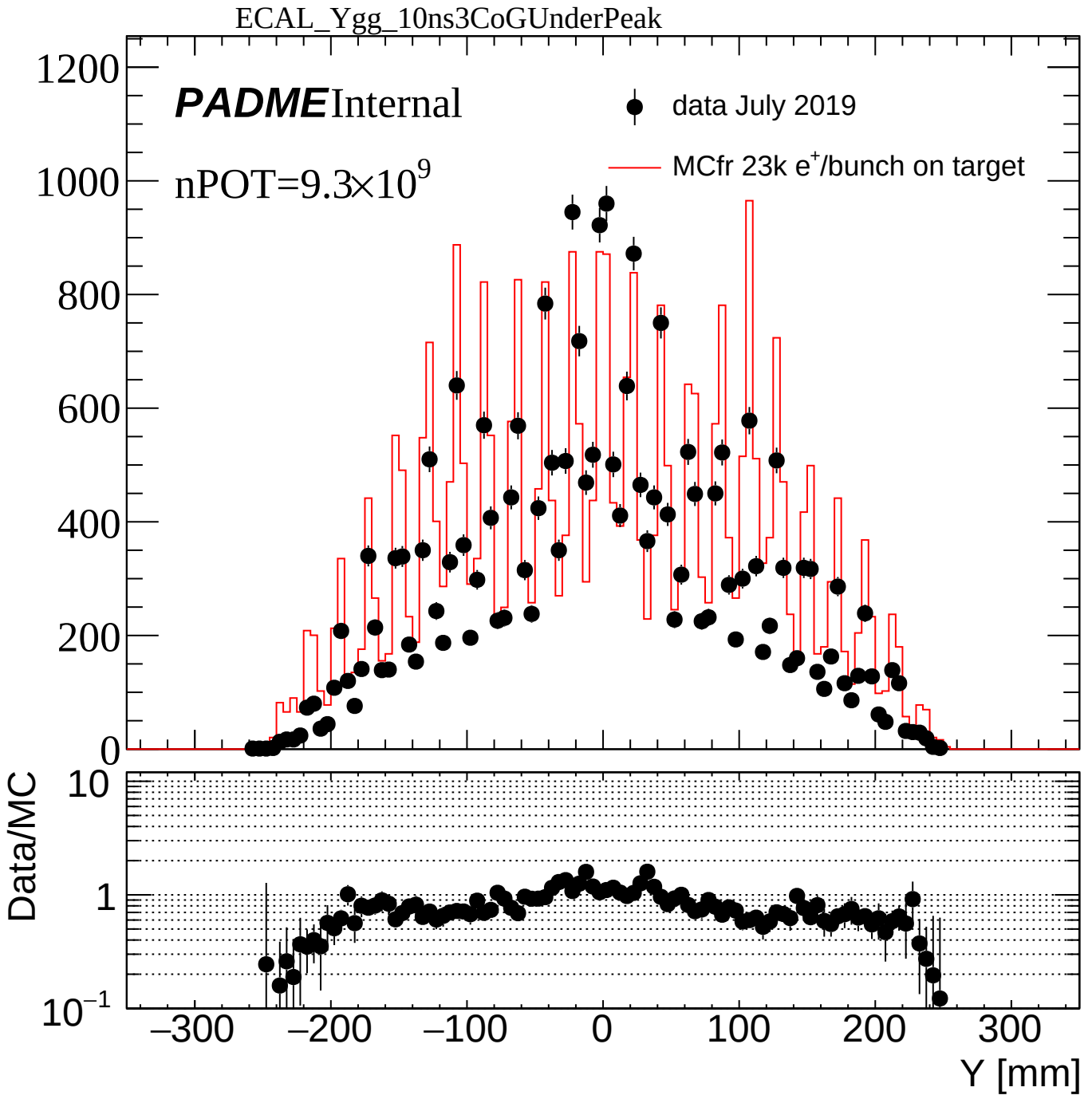
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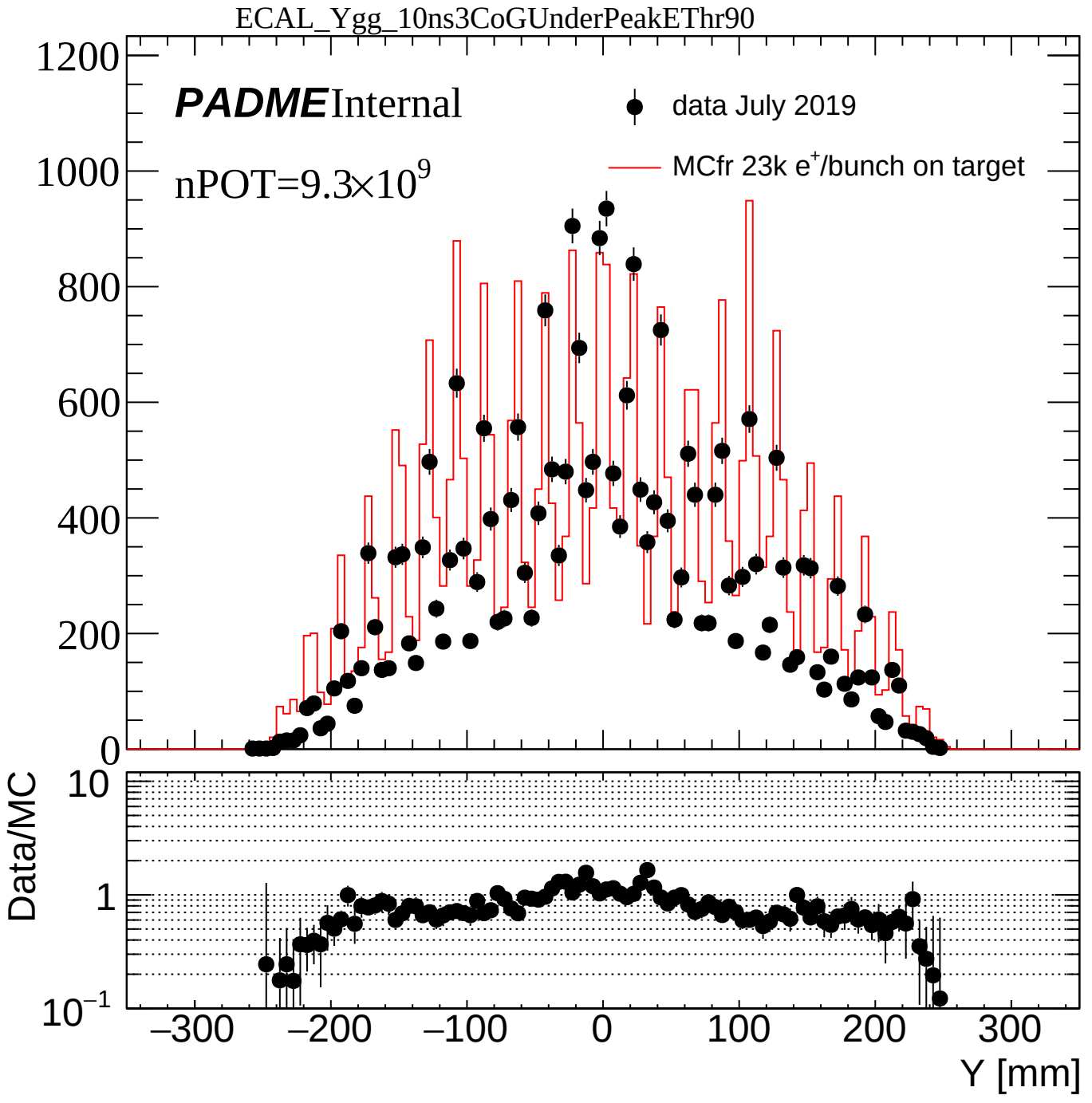
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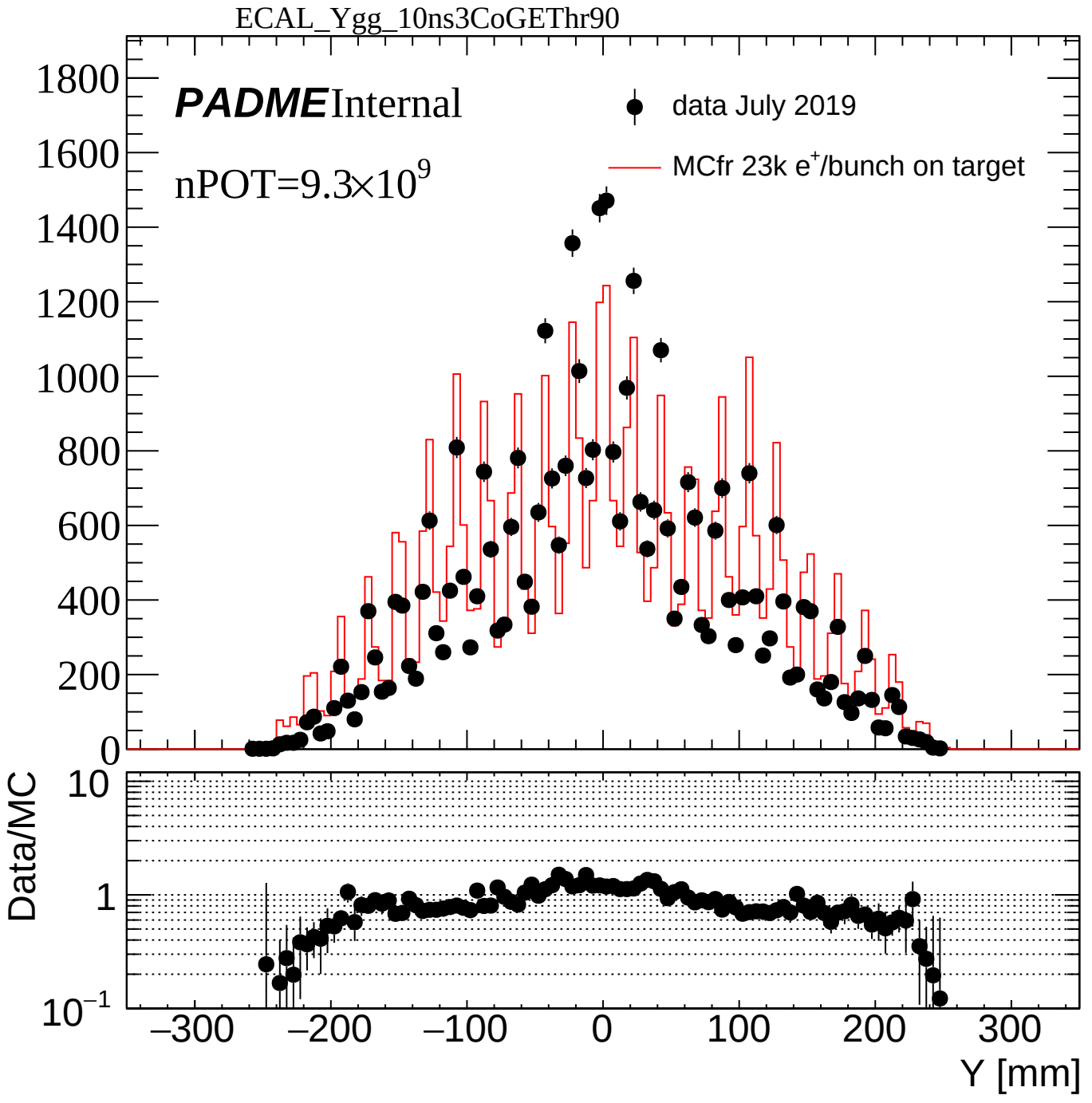
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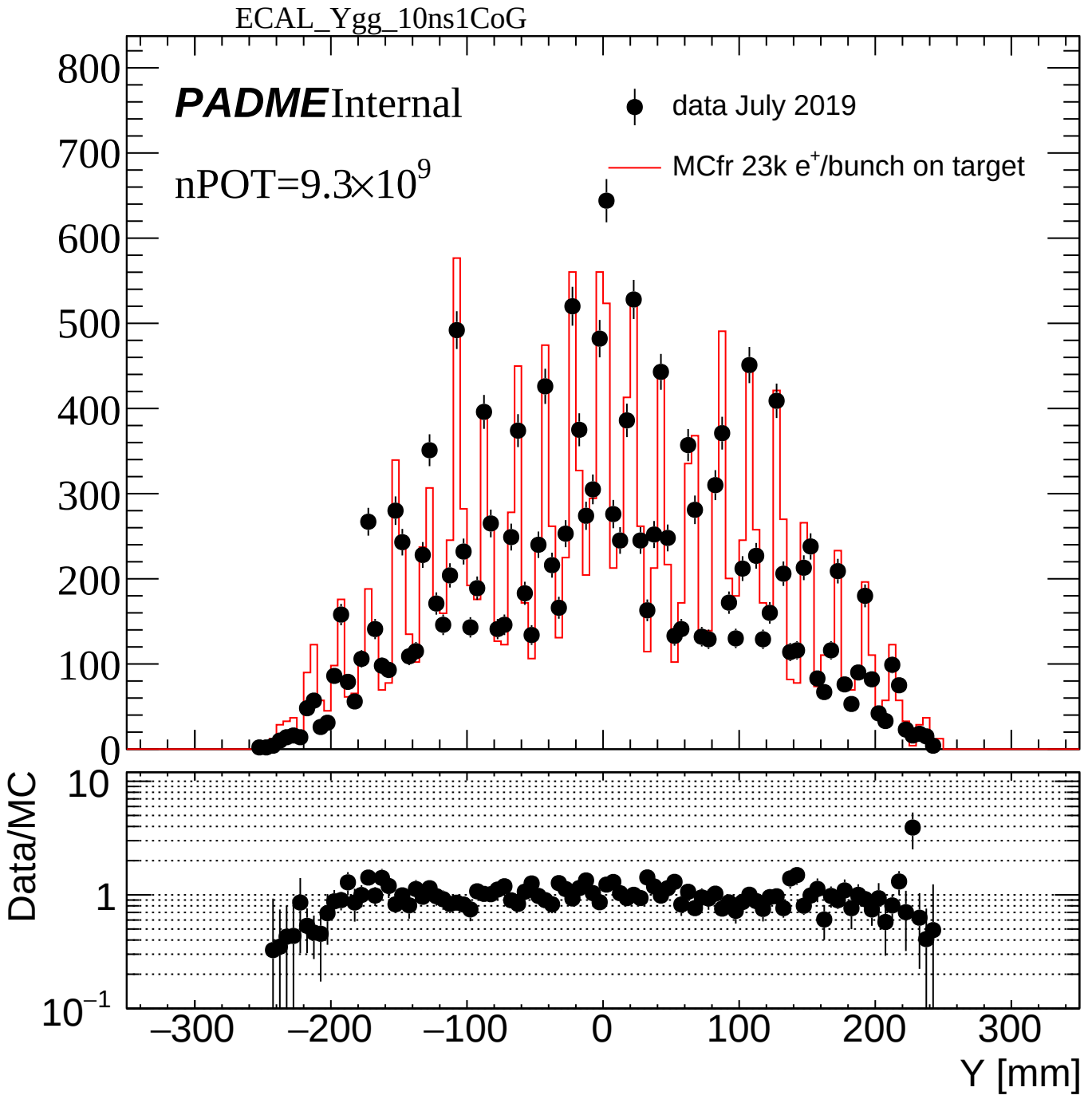
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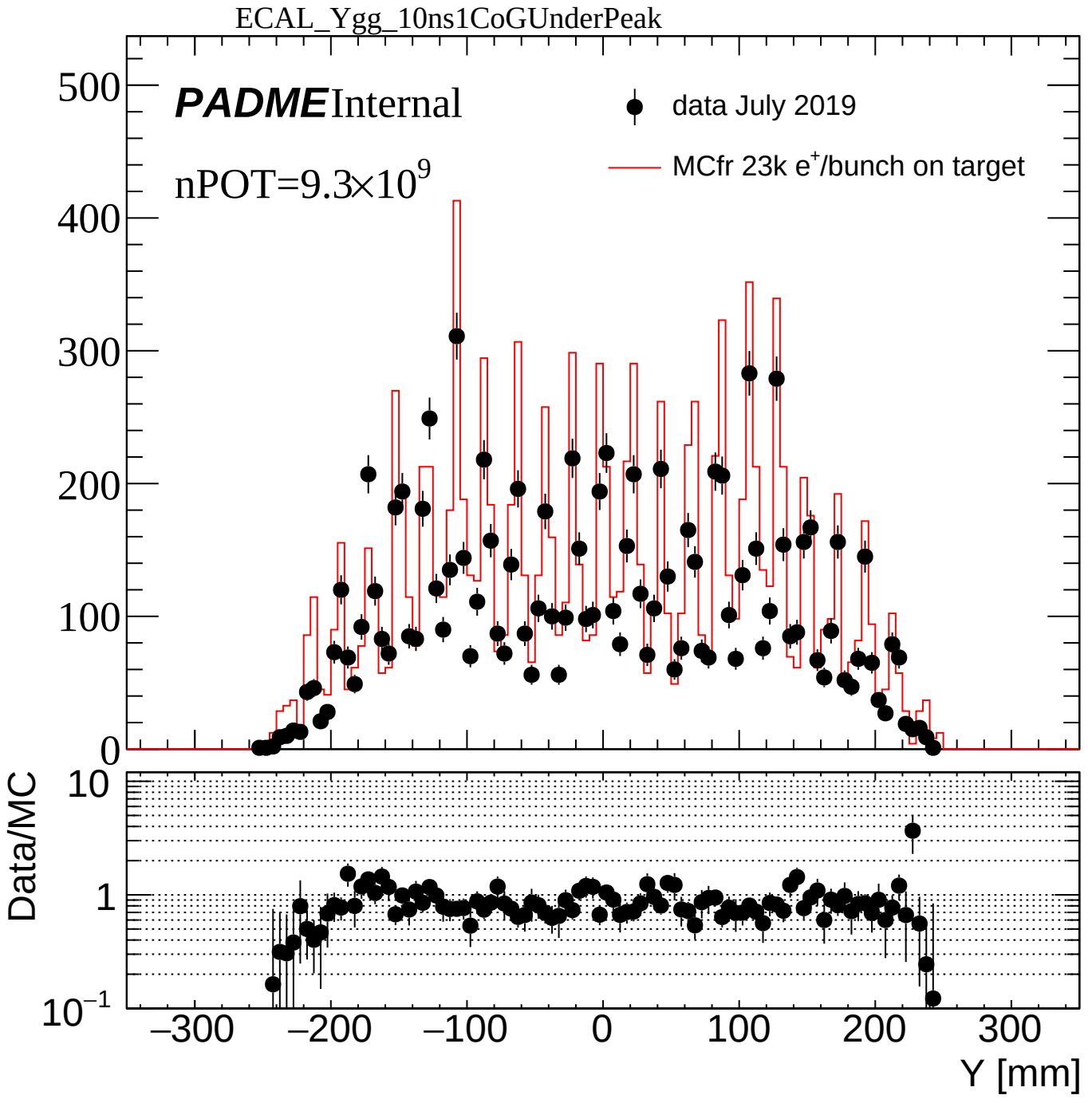
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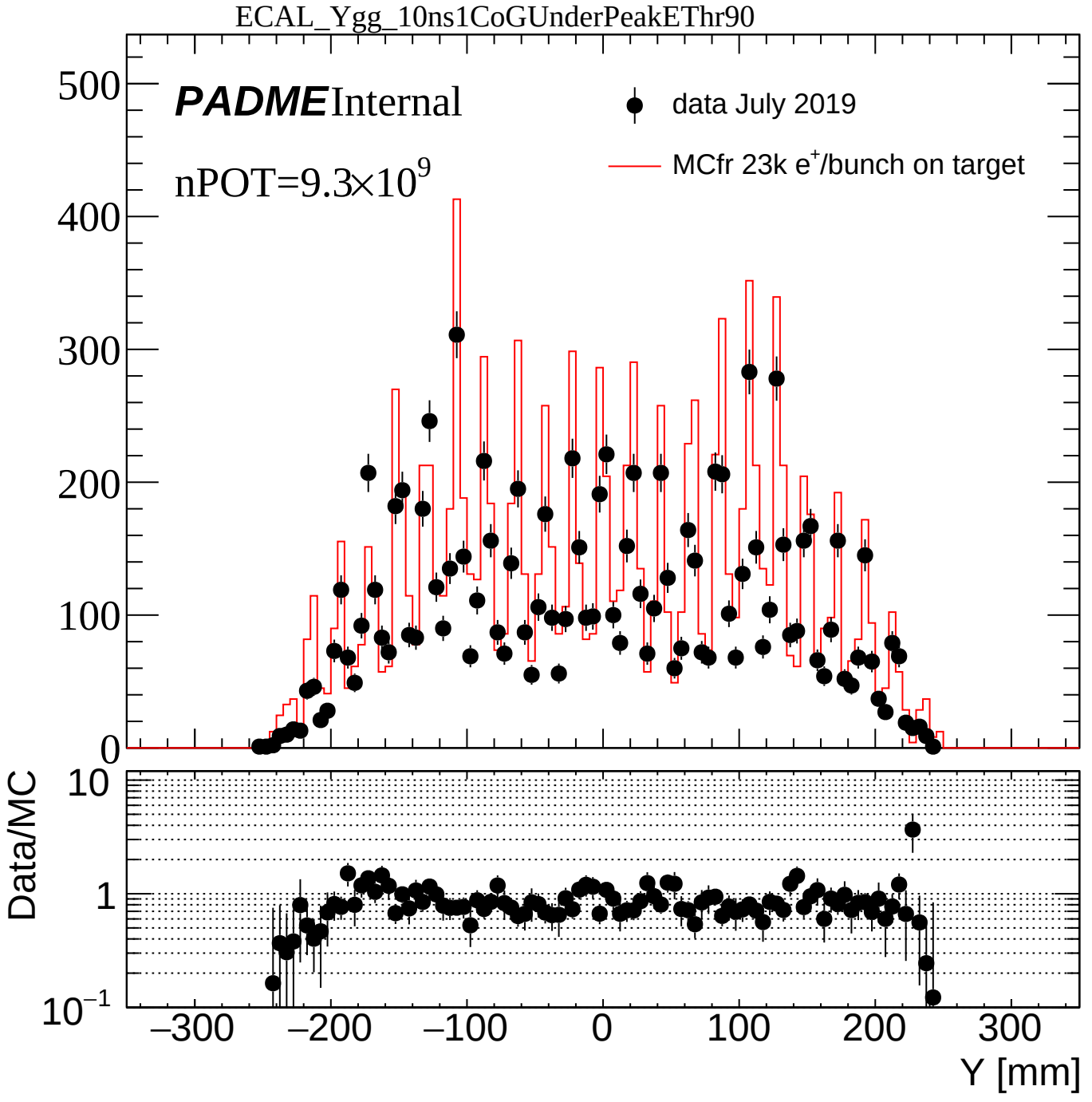
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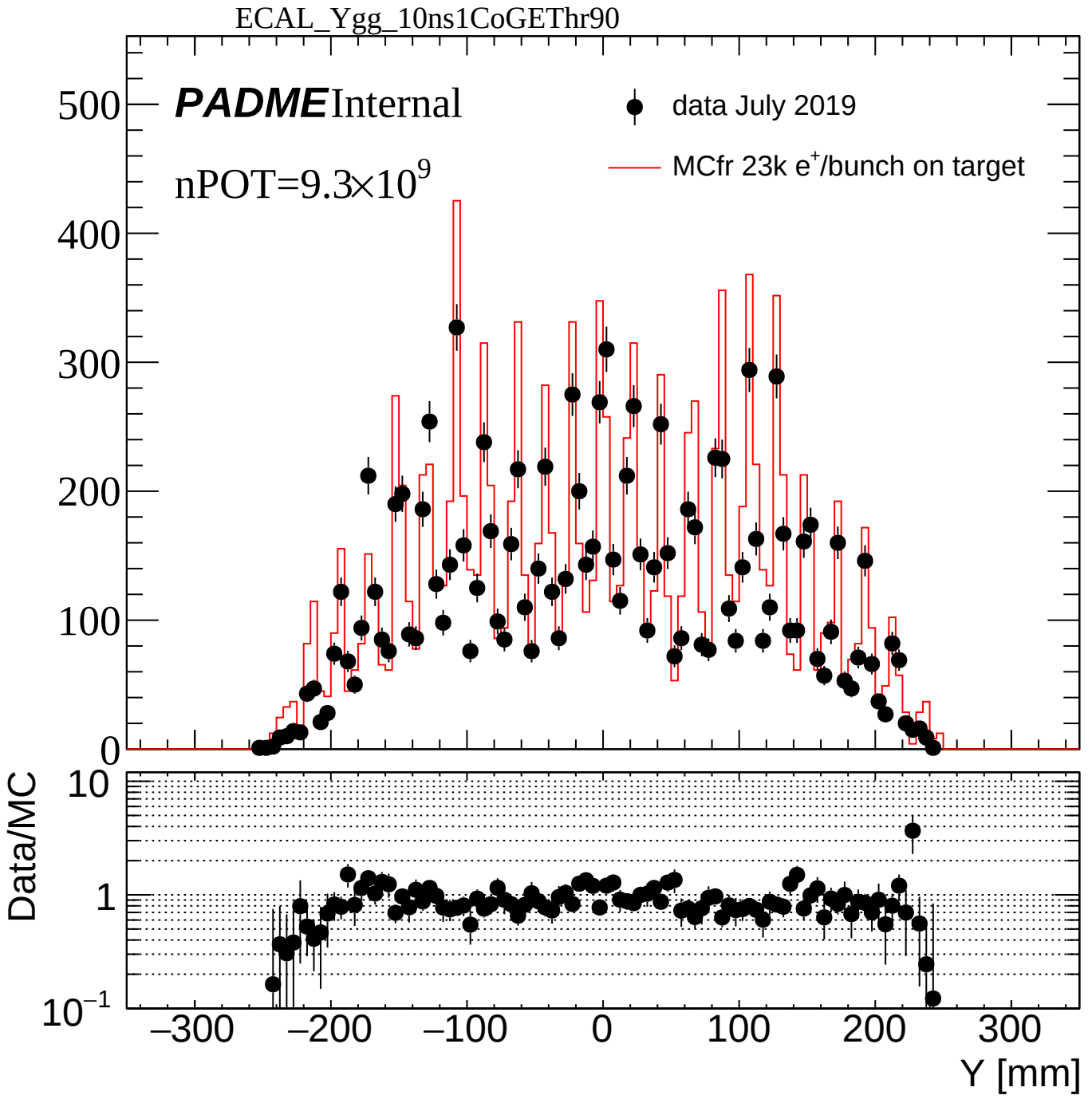
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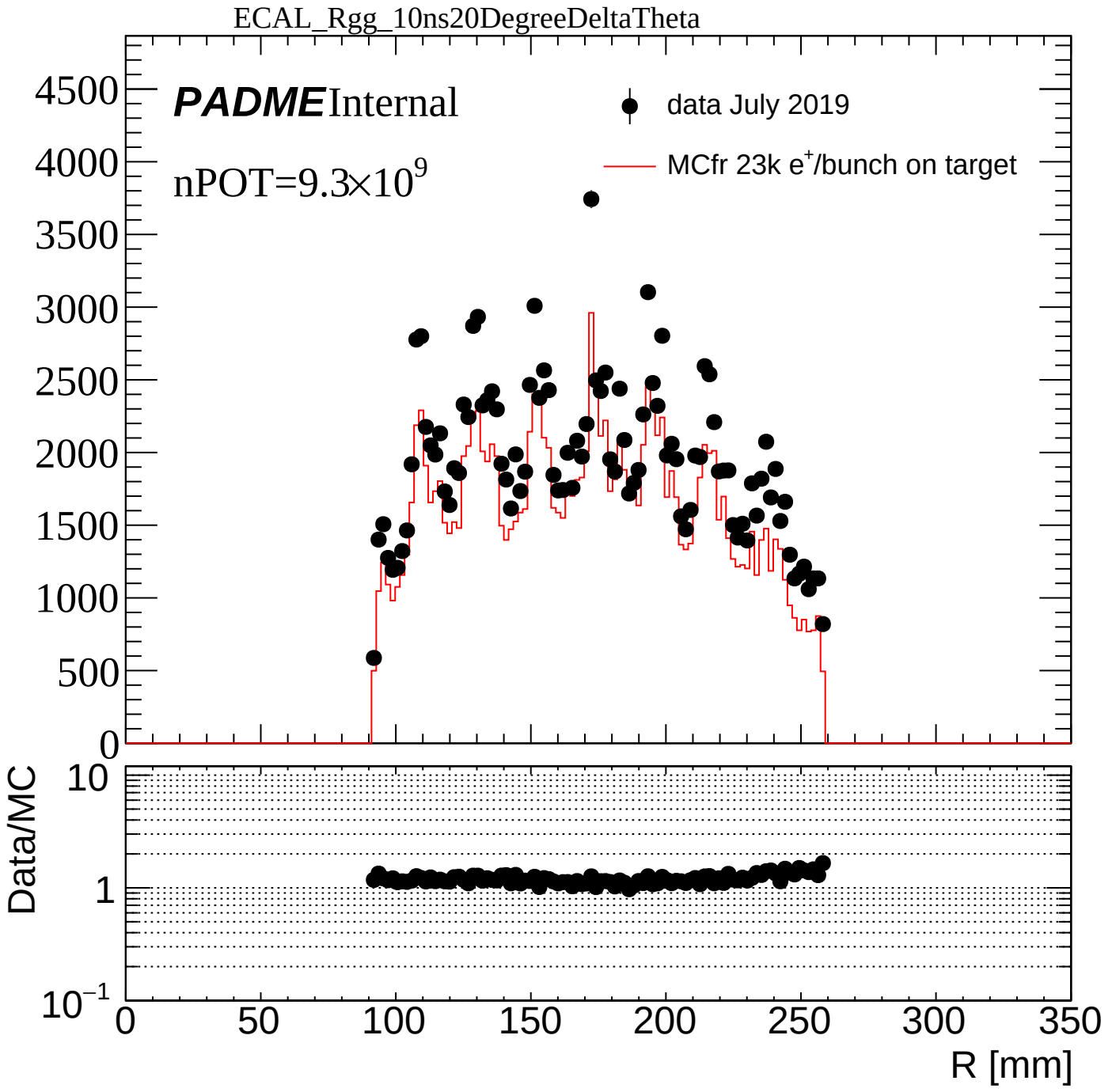
Y [mm]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MCfr 23k e+/bunch on target
4500
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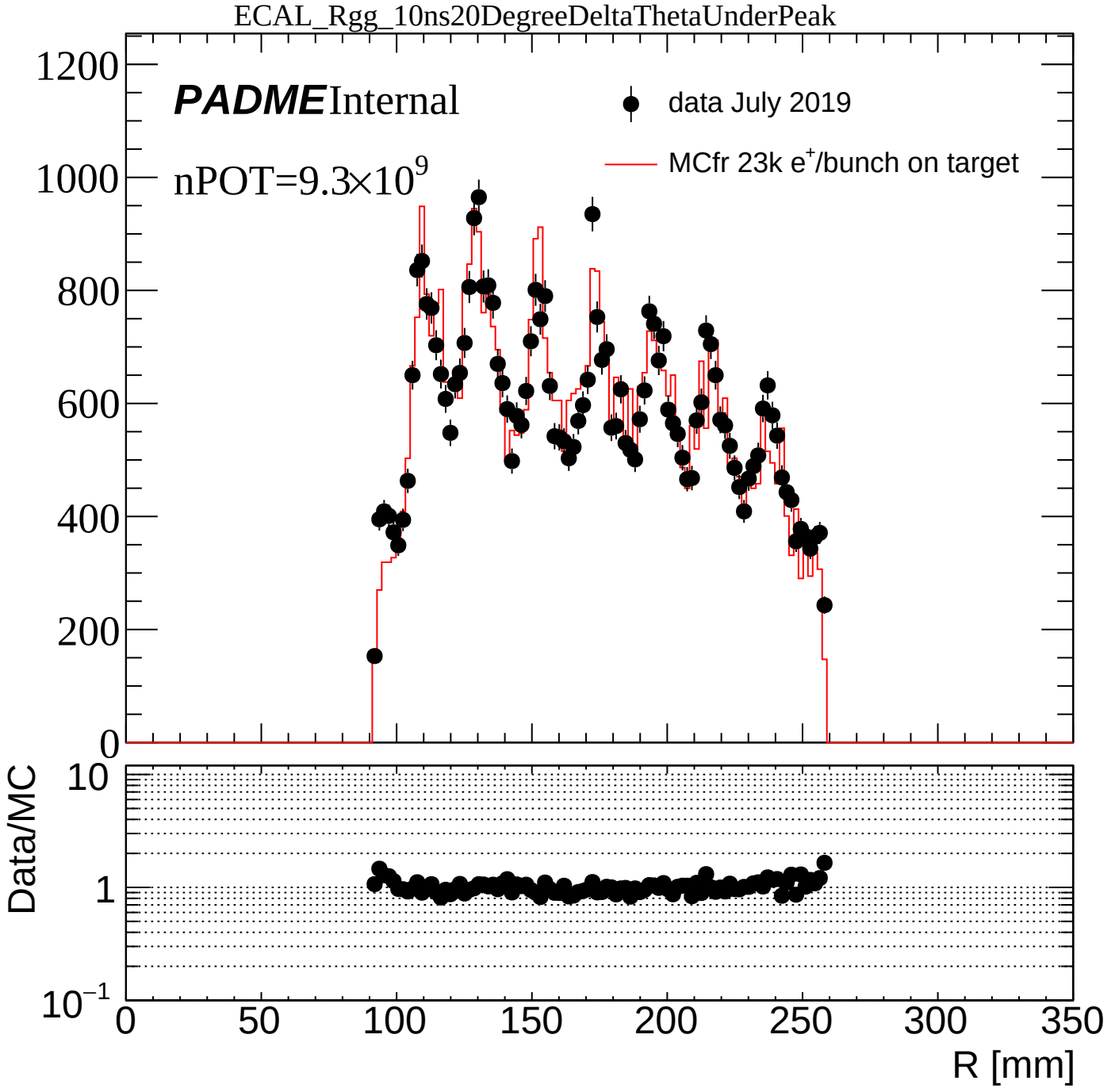
R [mm]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PADME Internal
nPOT=9.3×10^9
data July 2019
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Data/MC
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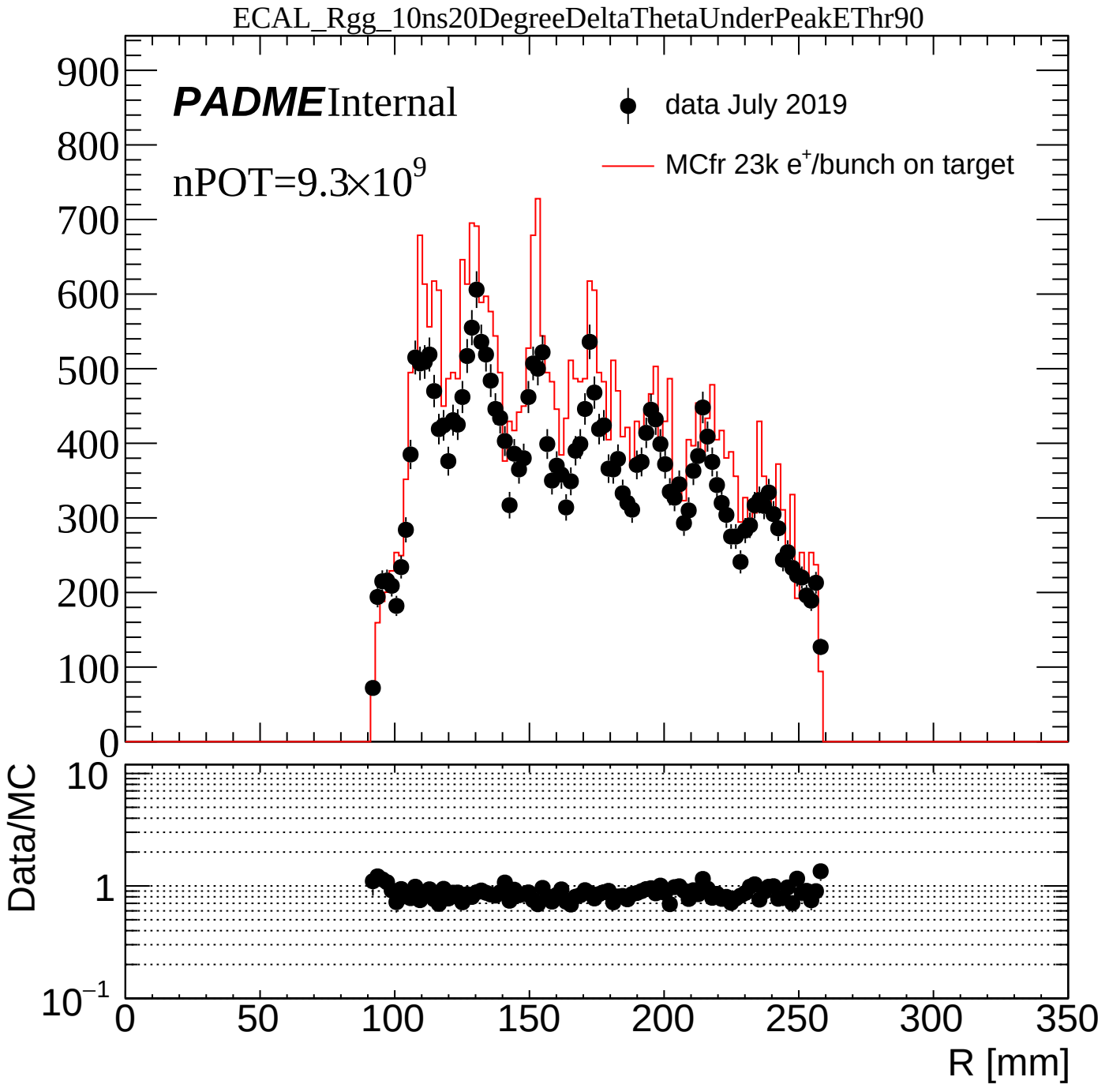
R [mm]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PADME Internal
nPOT=9.3×10^9
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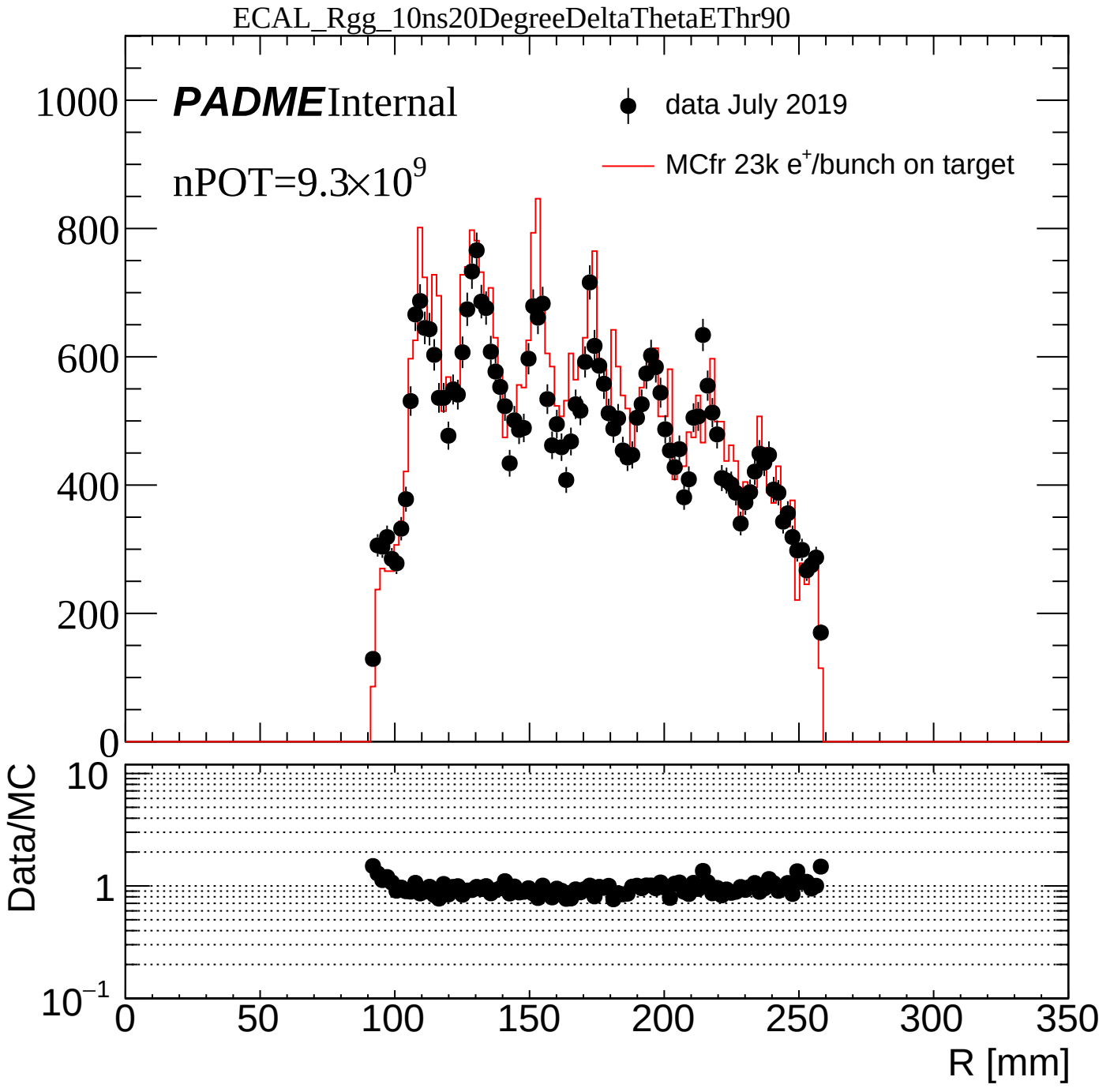
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PADME Internal
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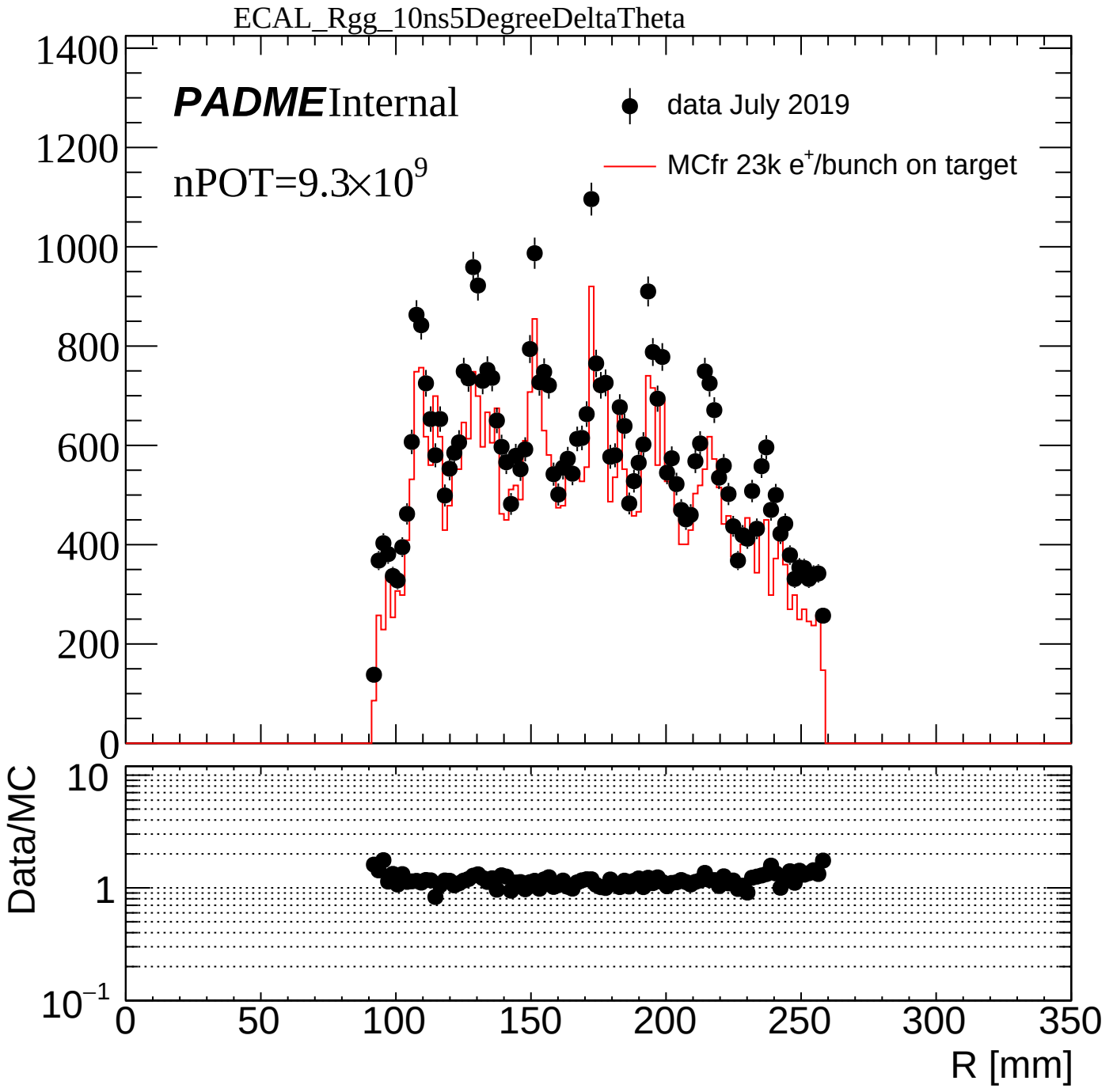
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PADME Internal
nPOT=9.3×10^9
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MCfr 23k e+/bunch on target
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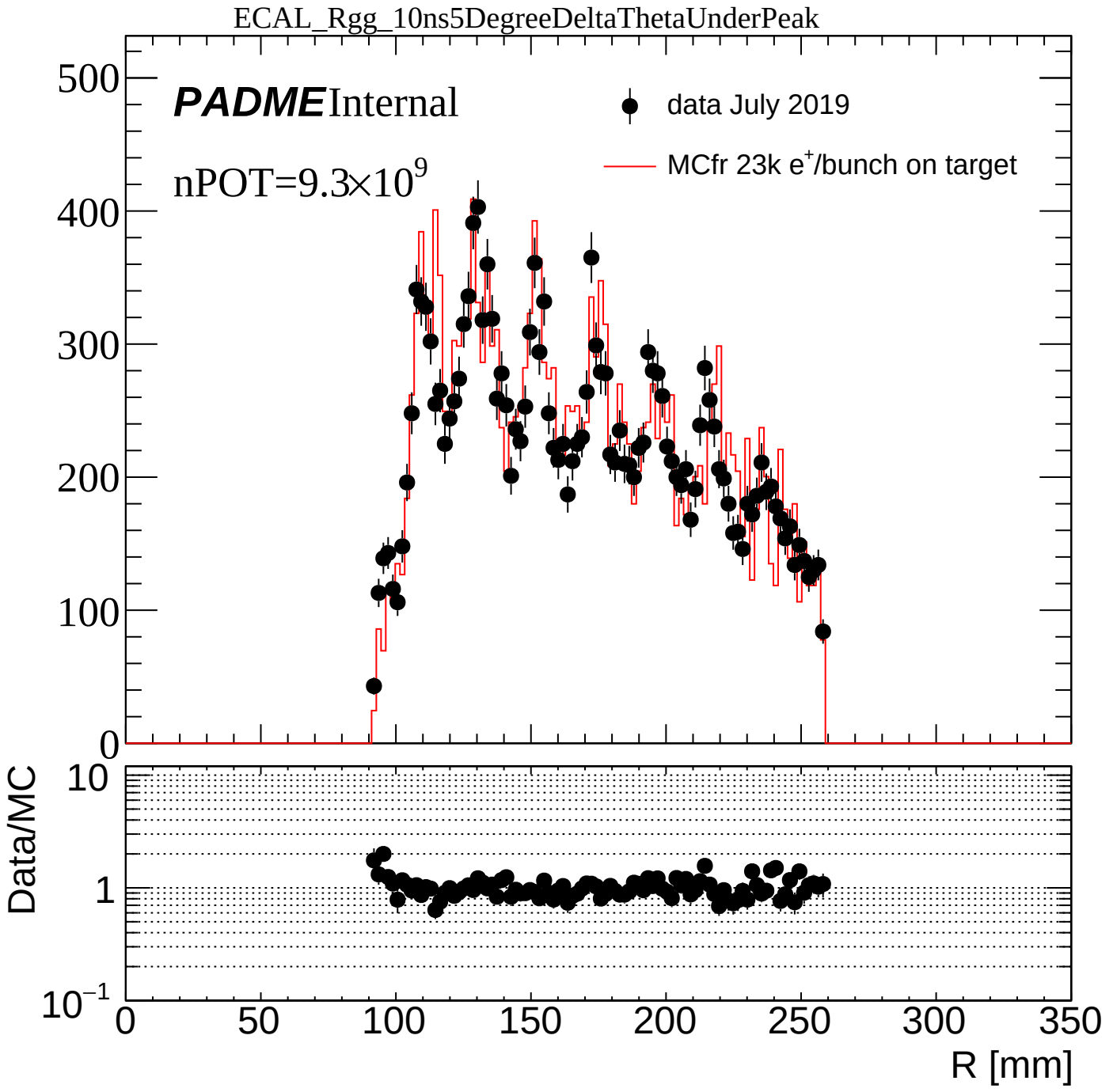
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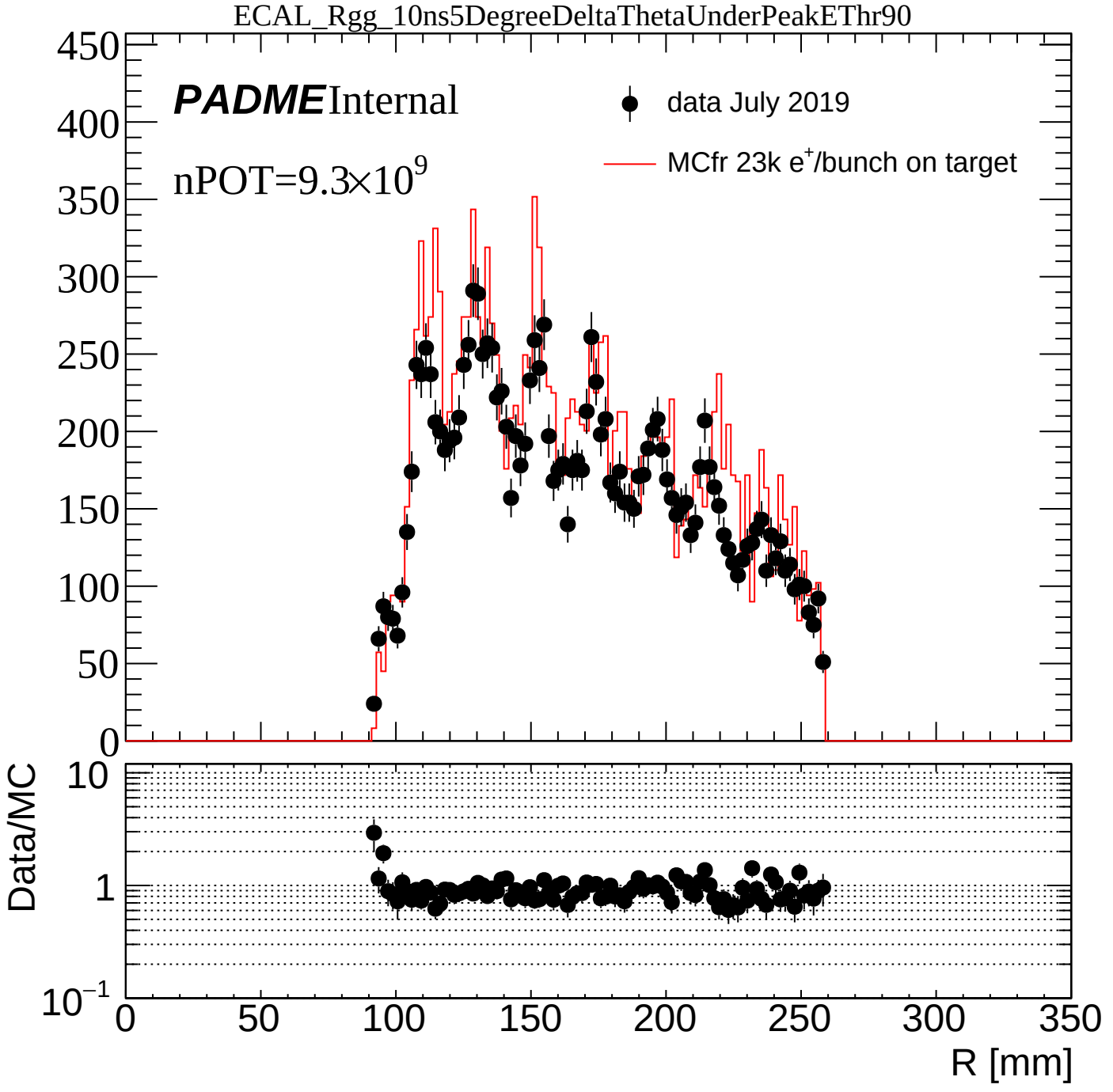
R [mm]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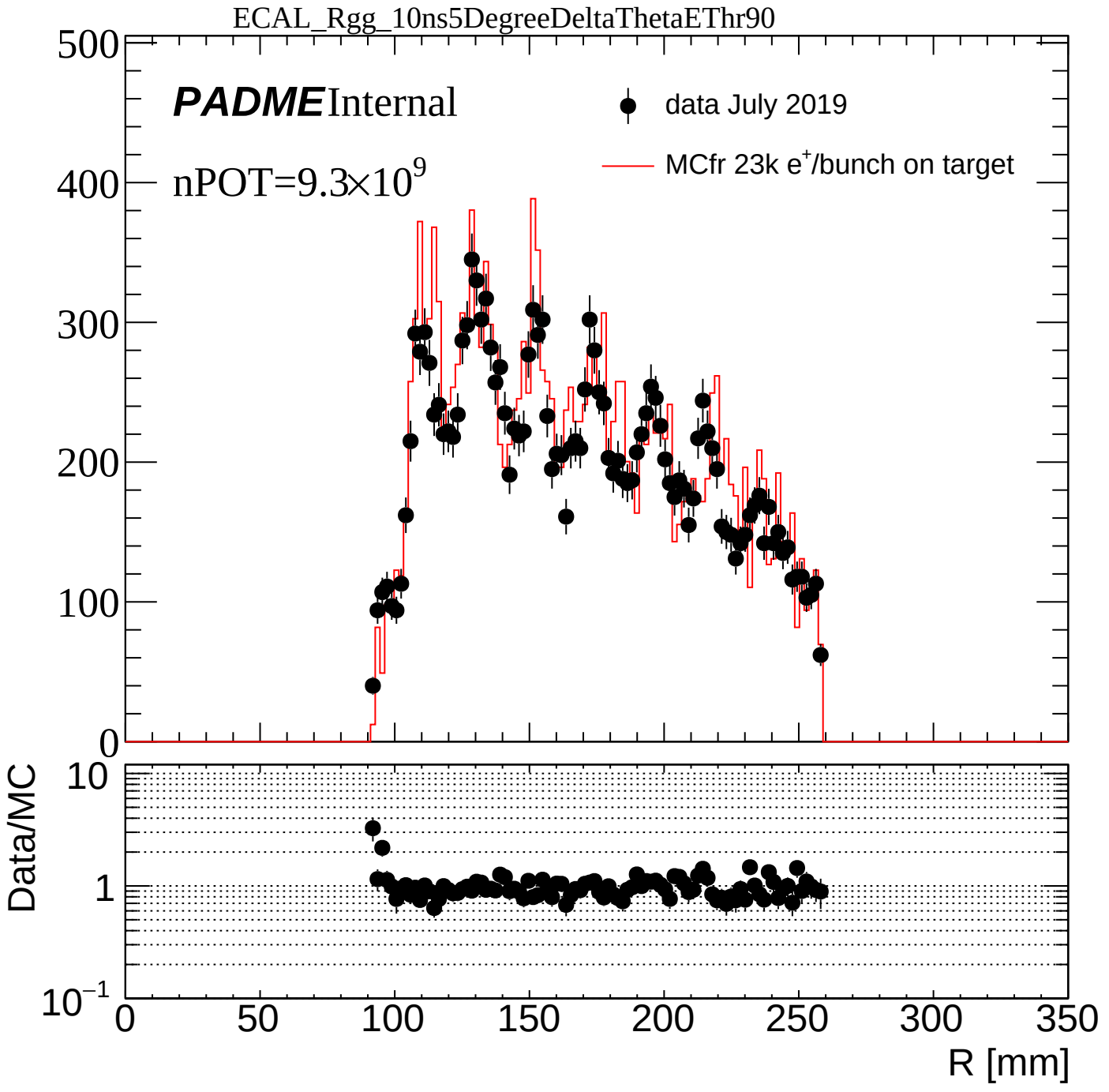
Data/MC
R [mm]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Data/MC
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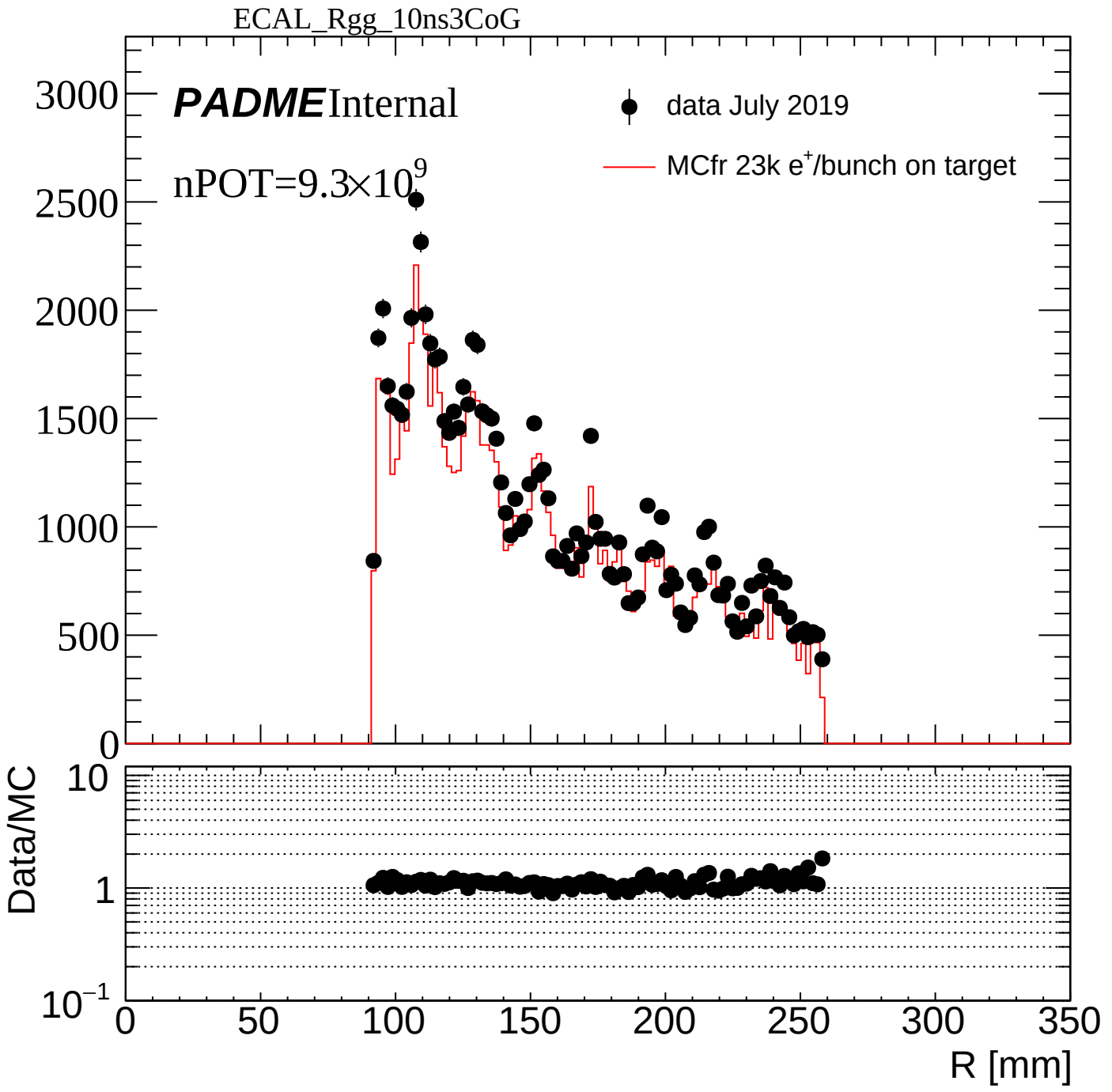
R [mm]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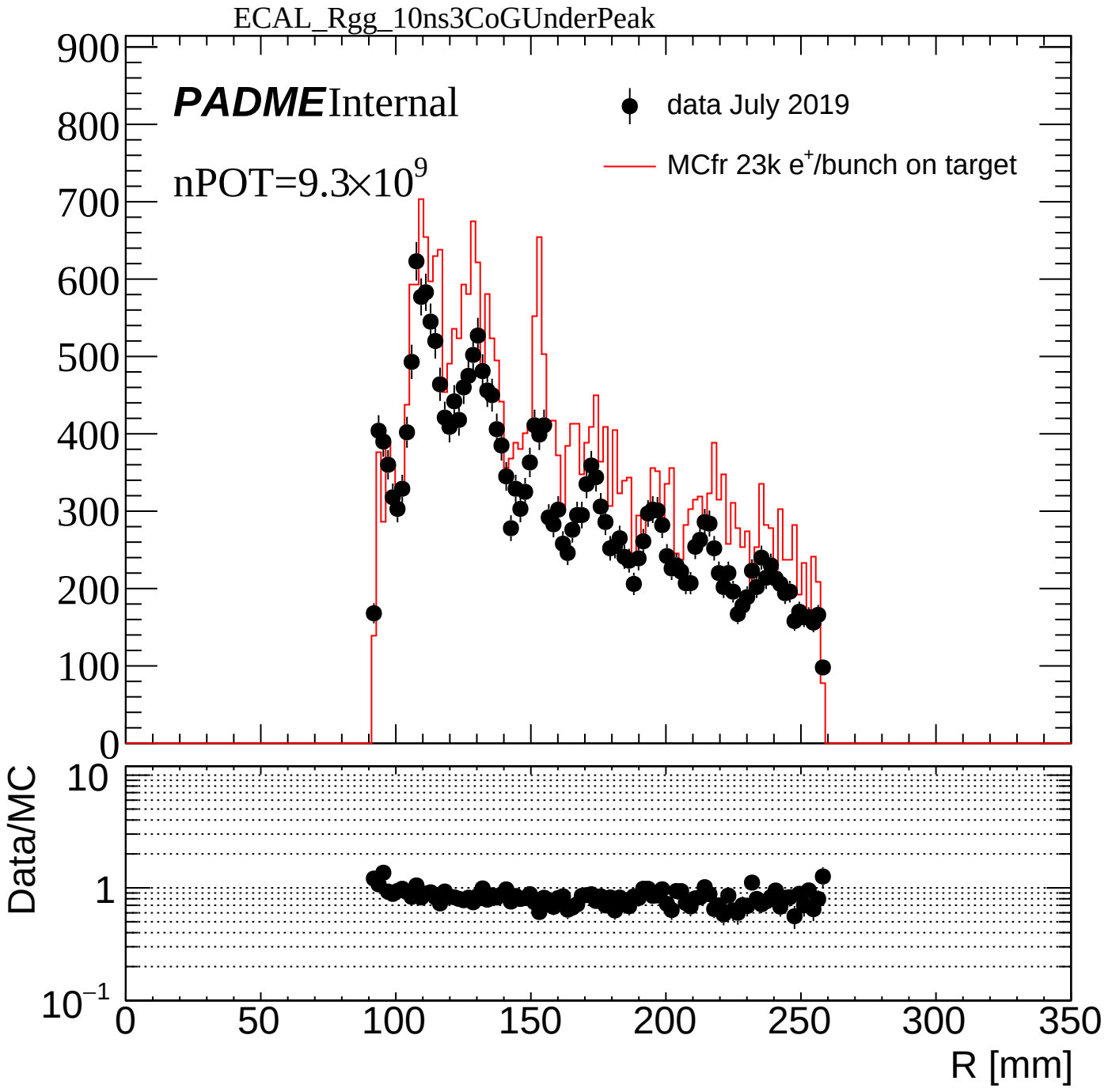
R [mm]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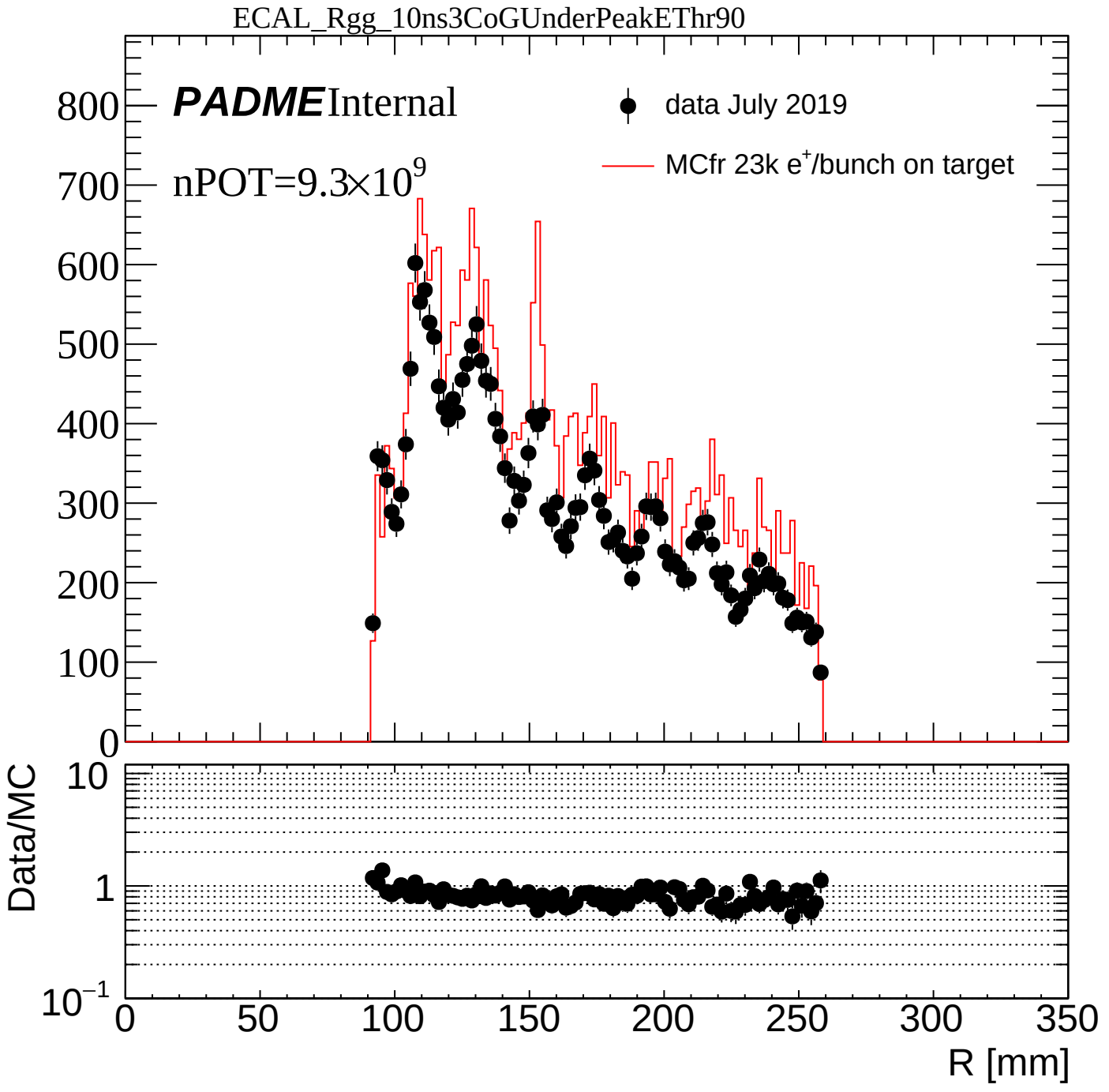
R [mm]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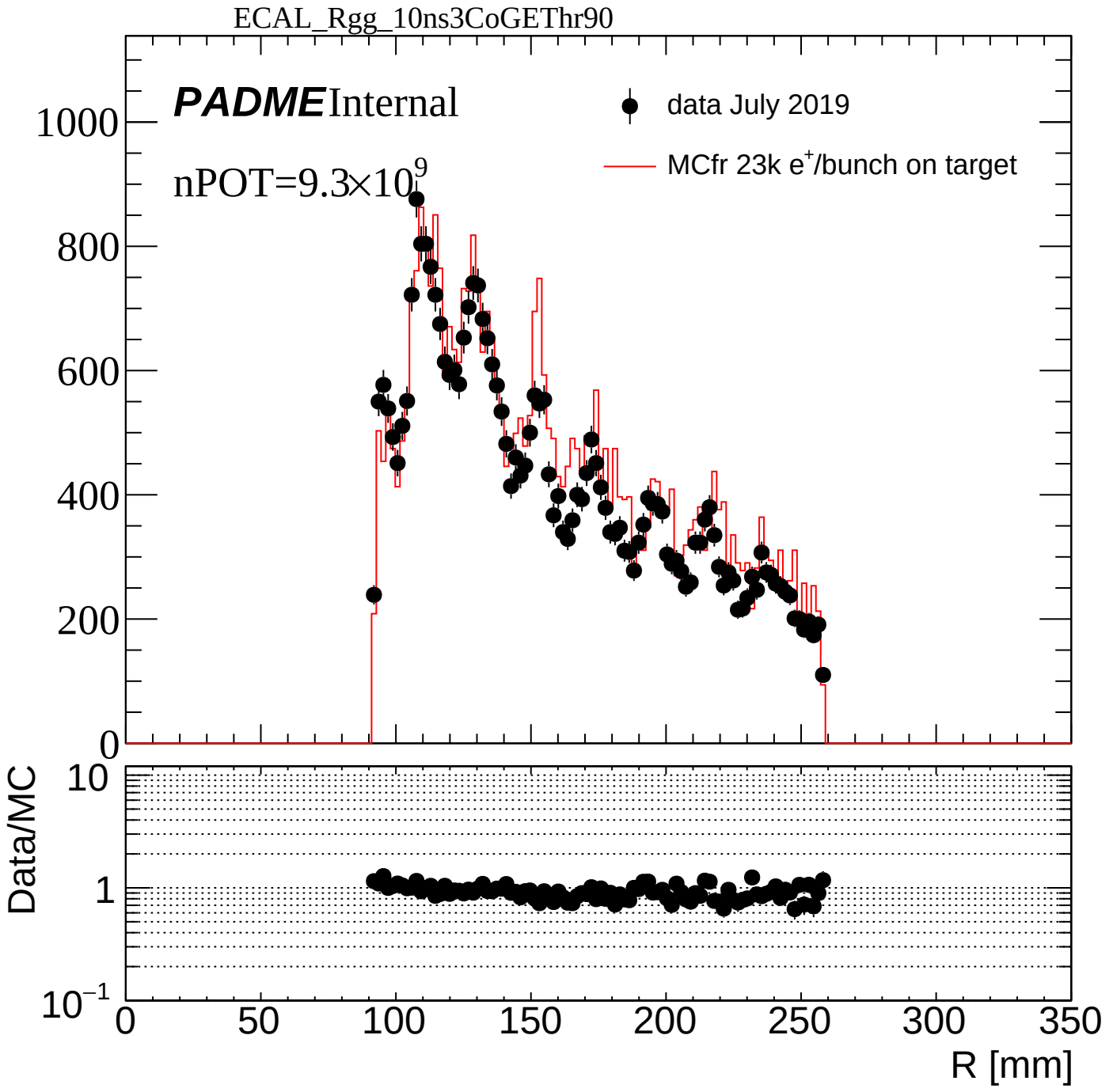
R [mm]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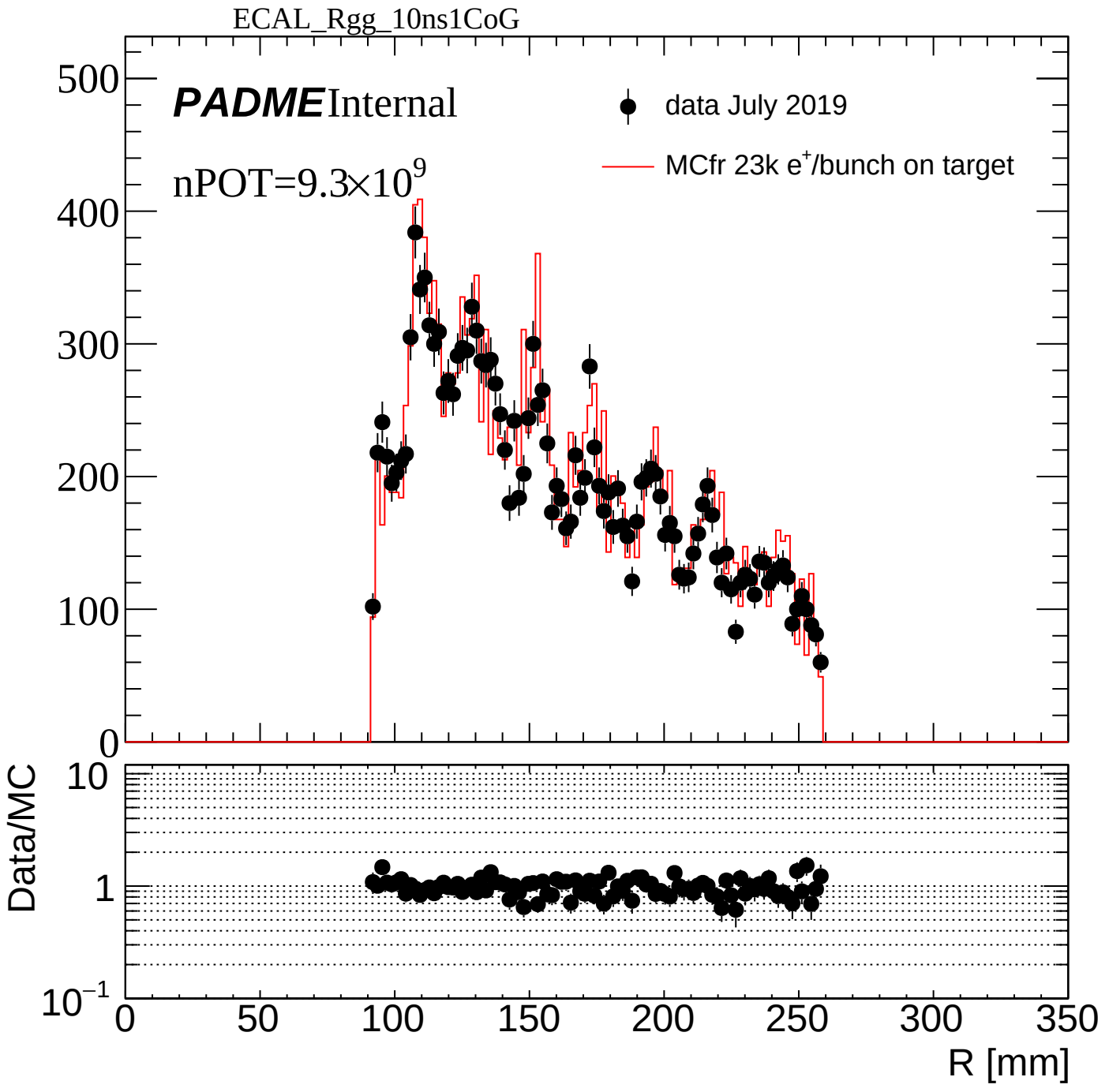
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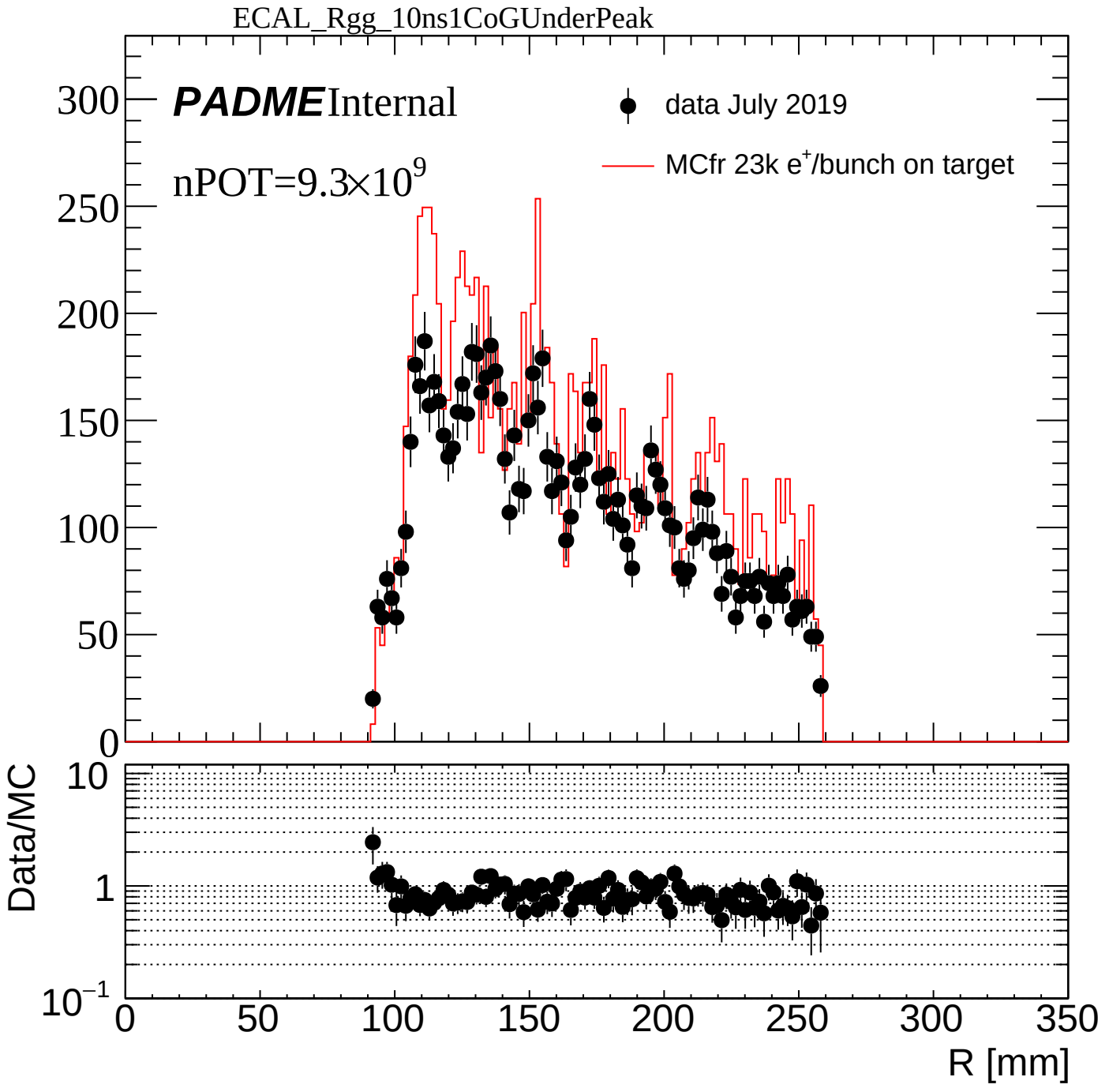
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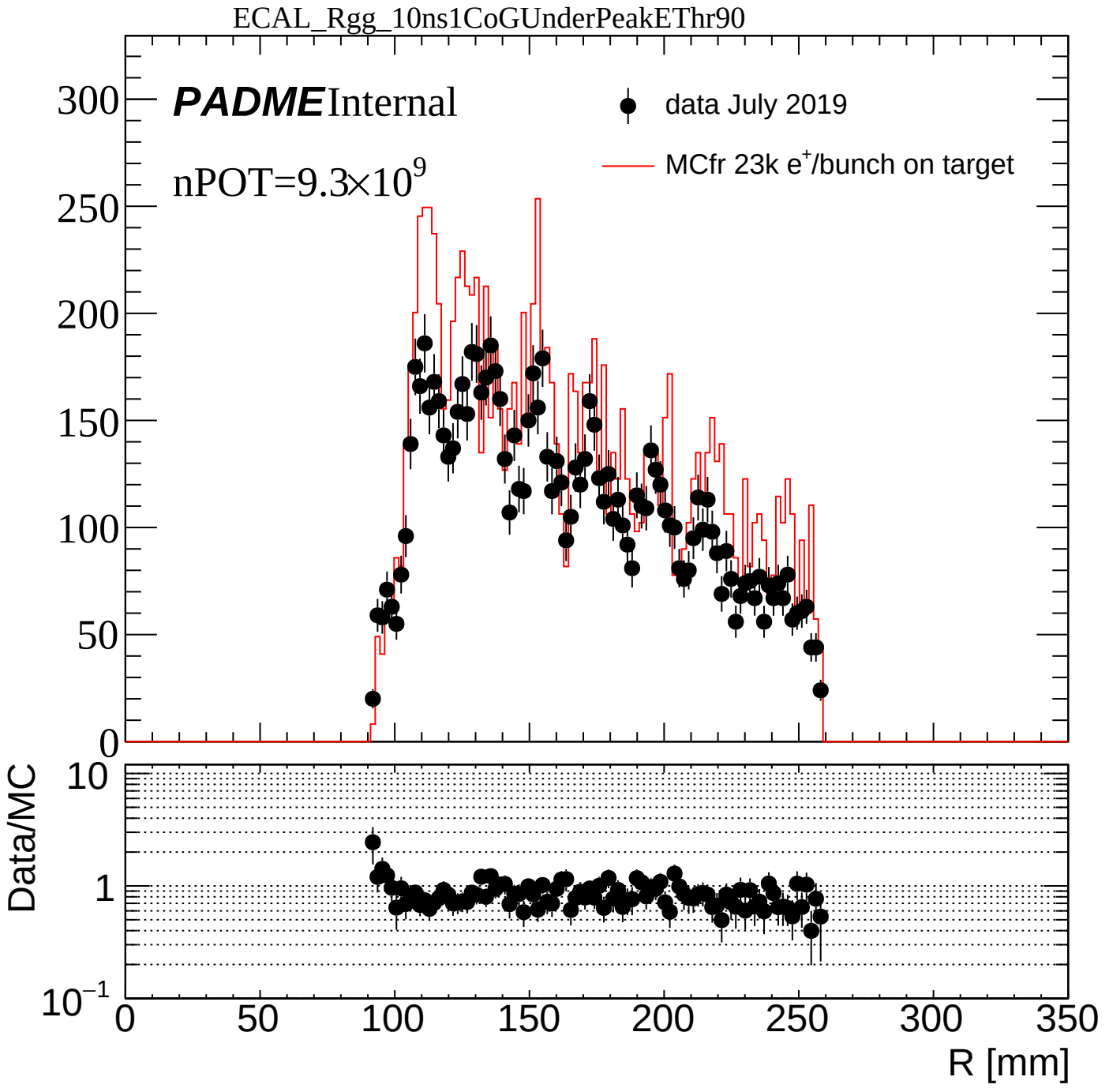
R [mm]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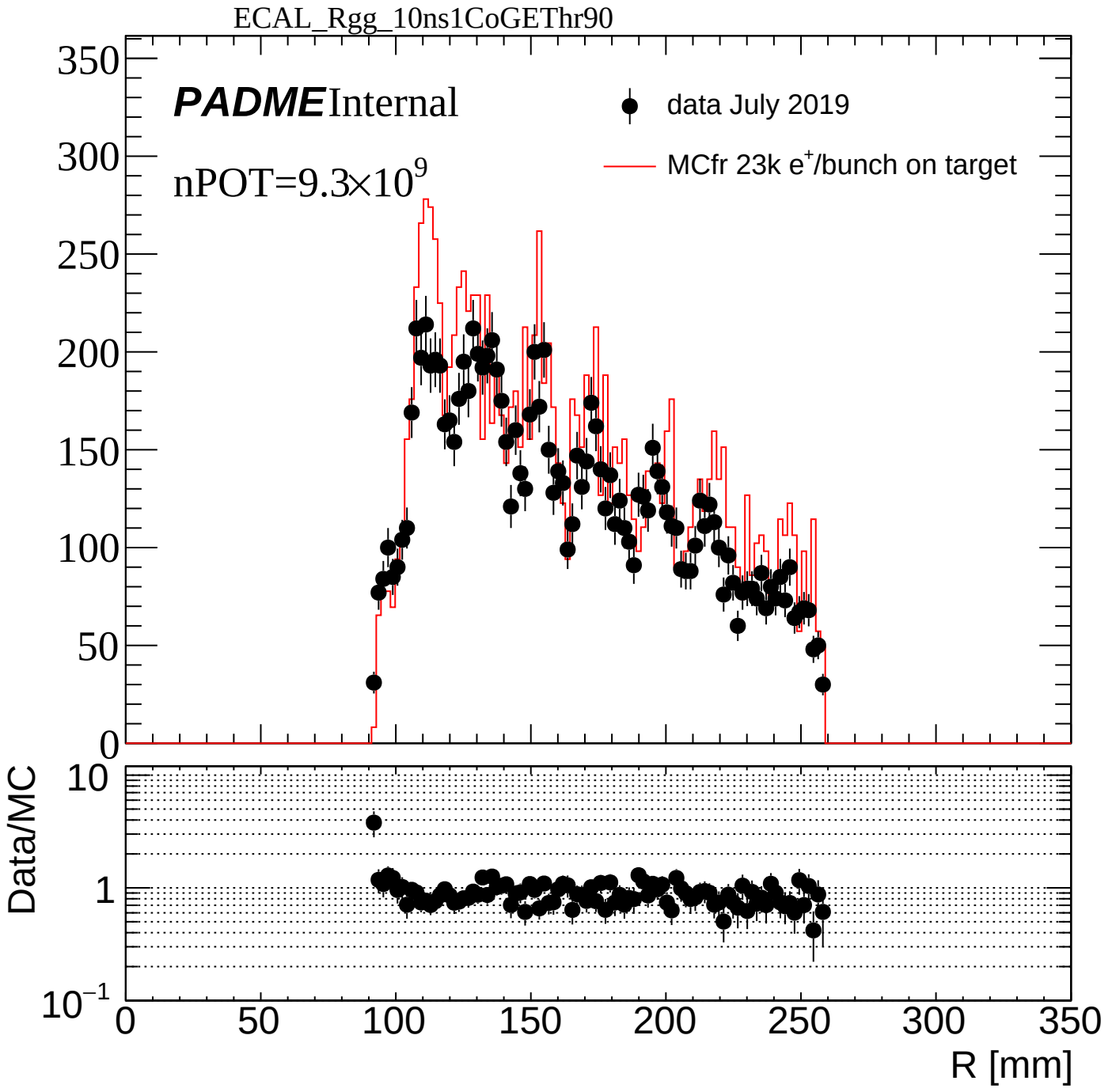
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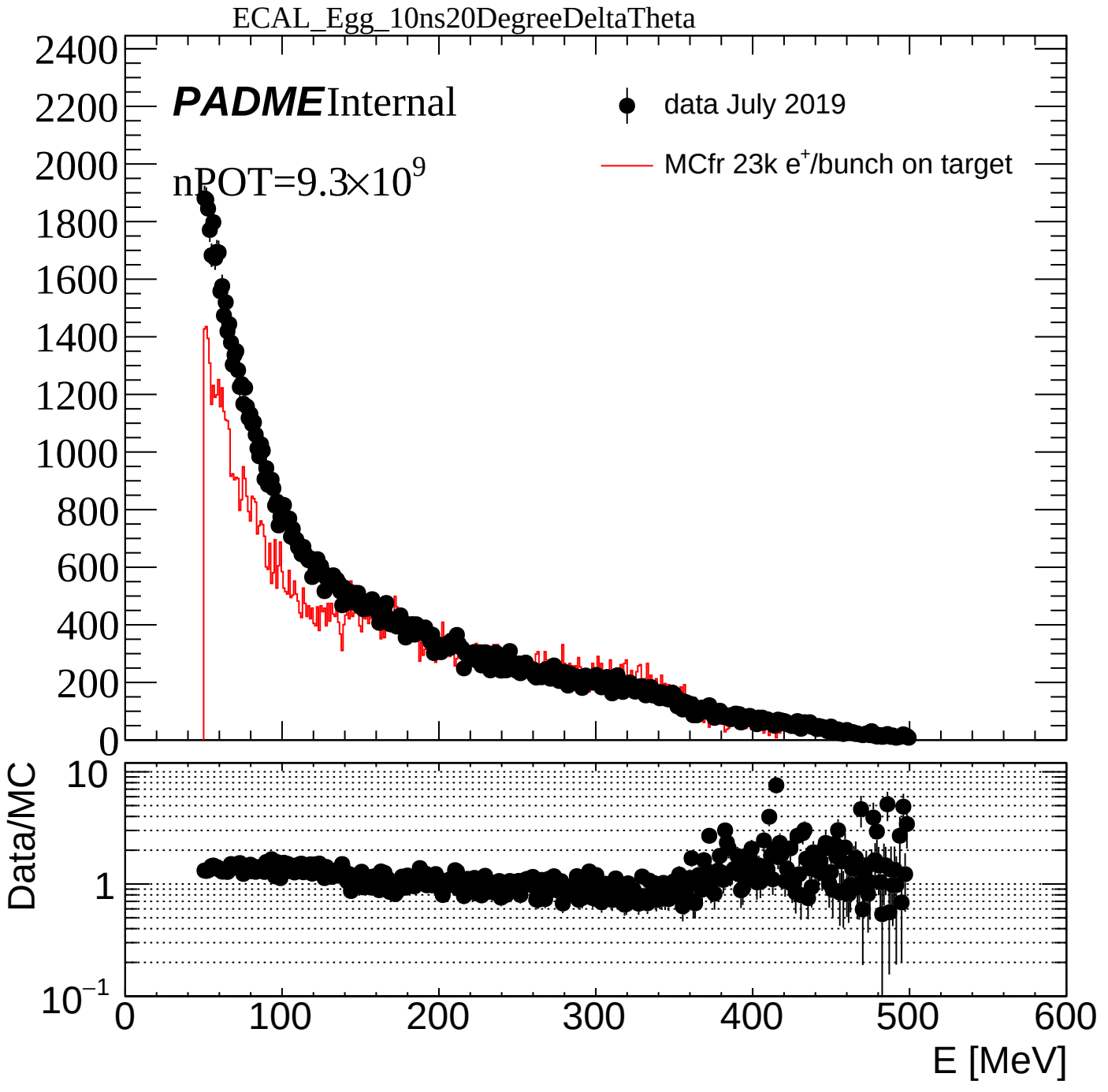
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2400
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1400
1200
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Data/MC
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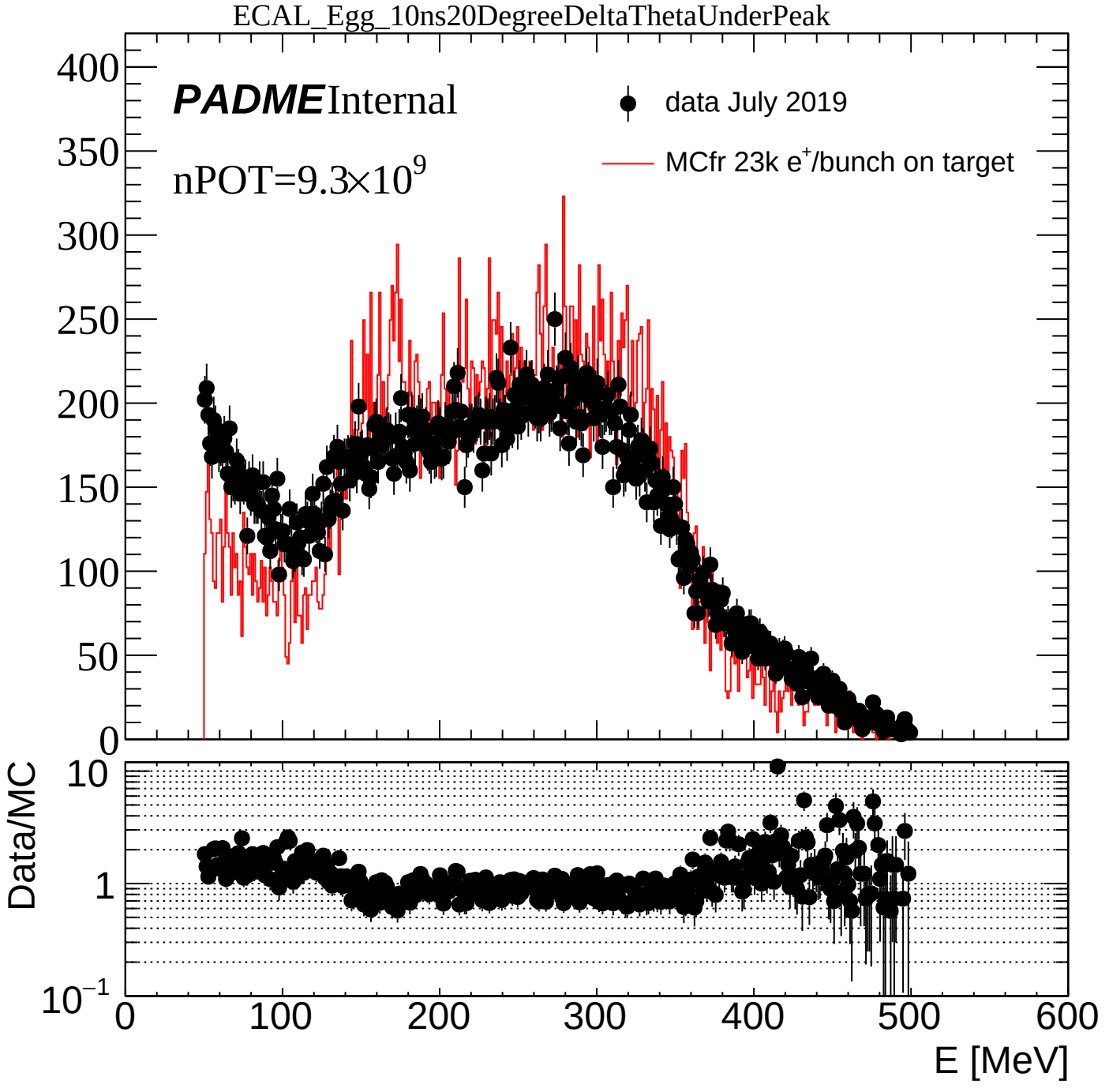
E [MeV]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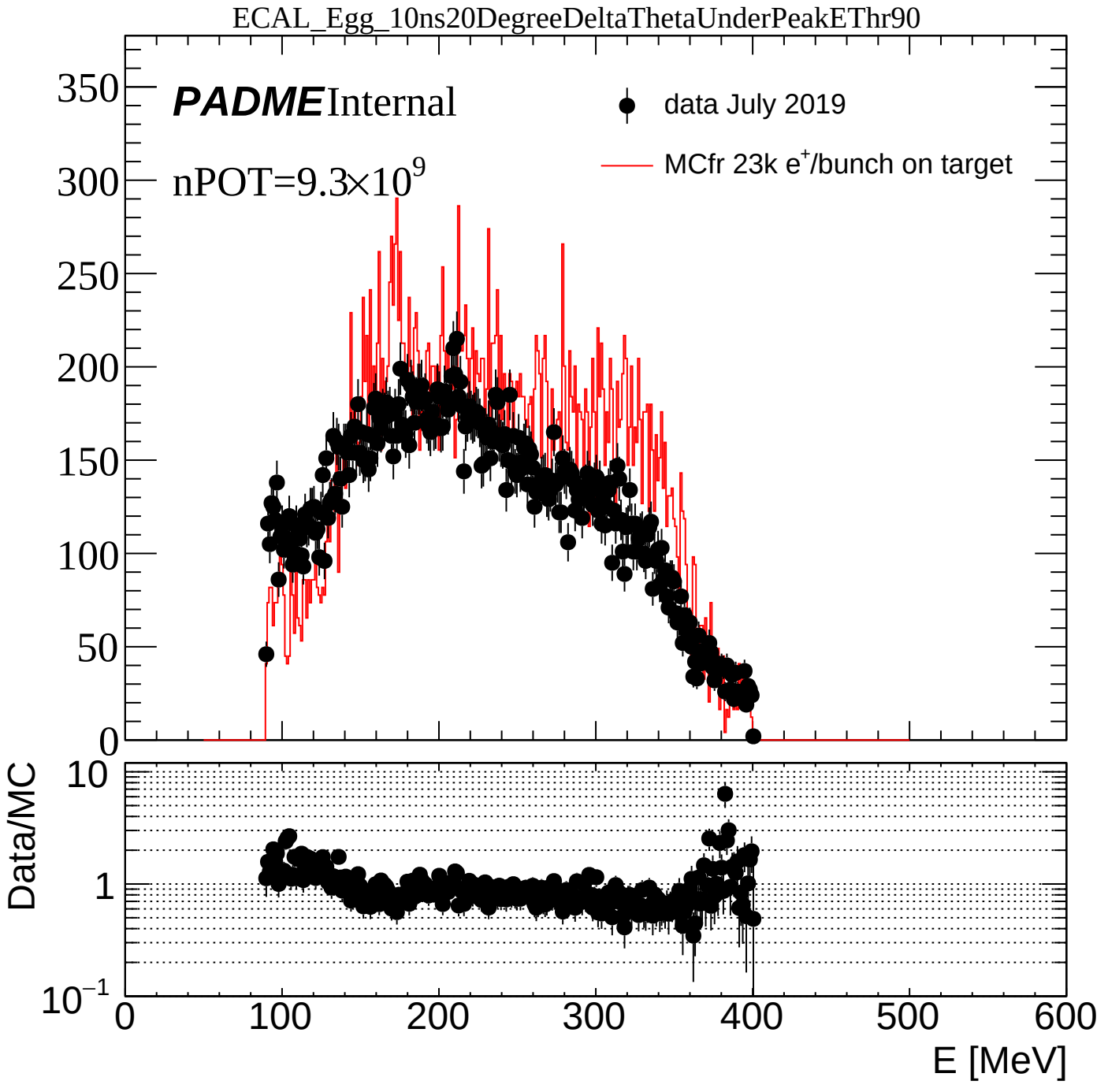
E [MeV]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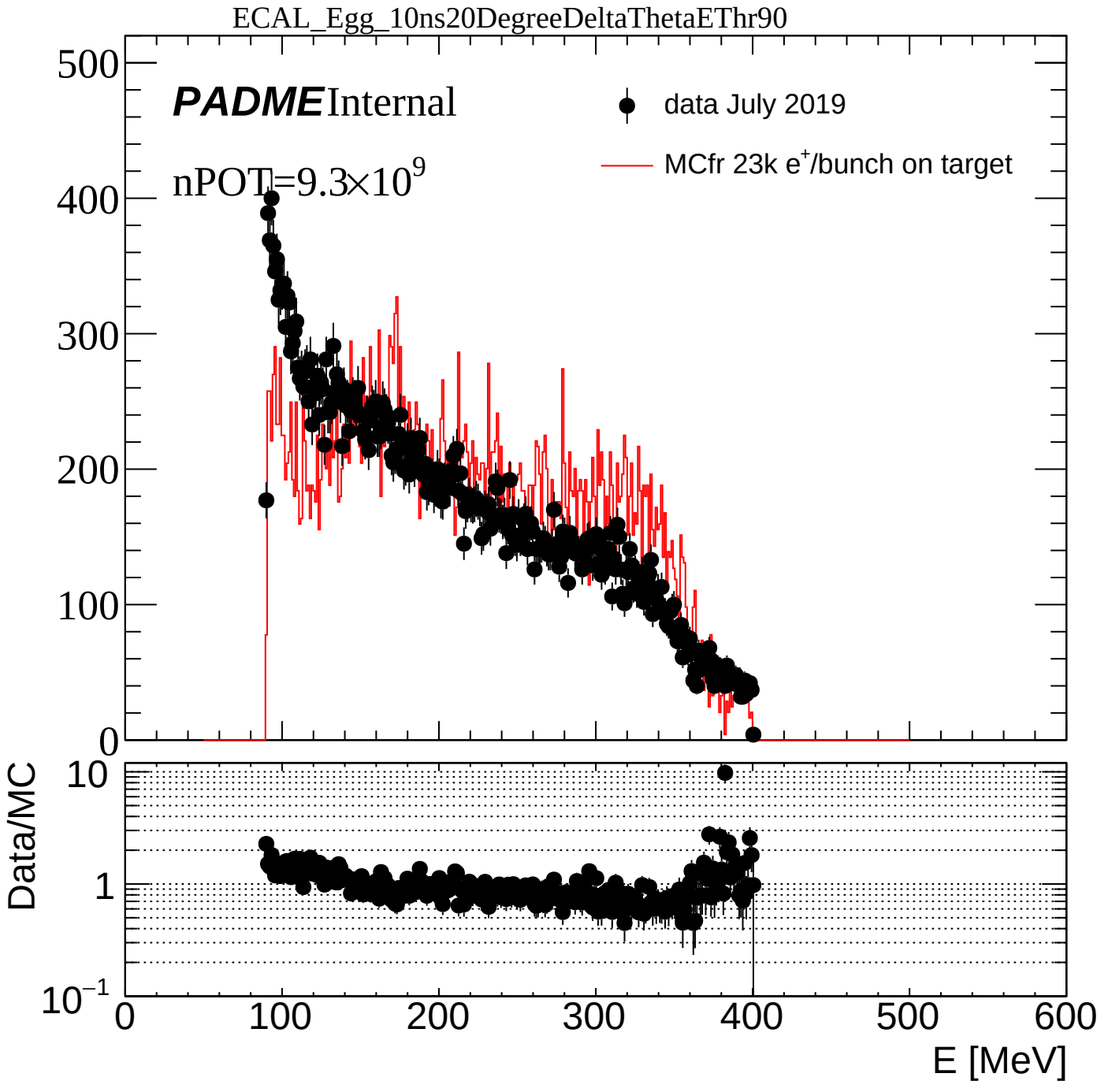
Data/MC
E [MeV]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Data/MC
E [MeV]
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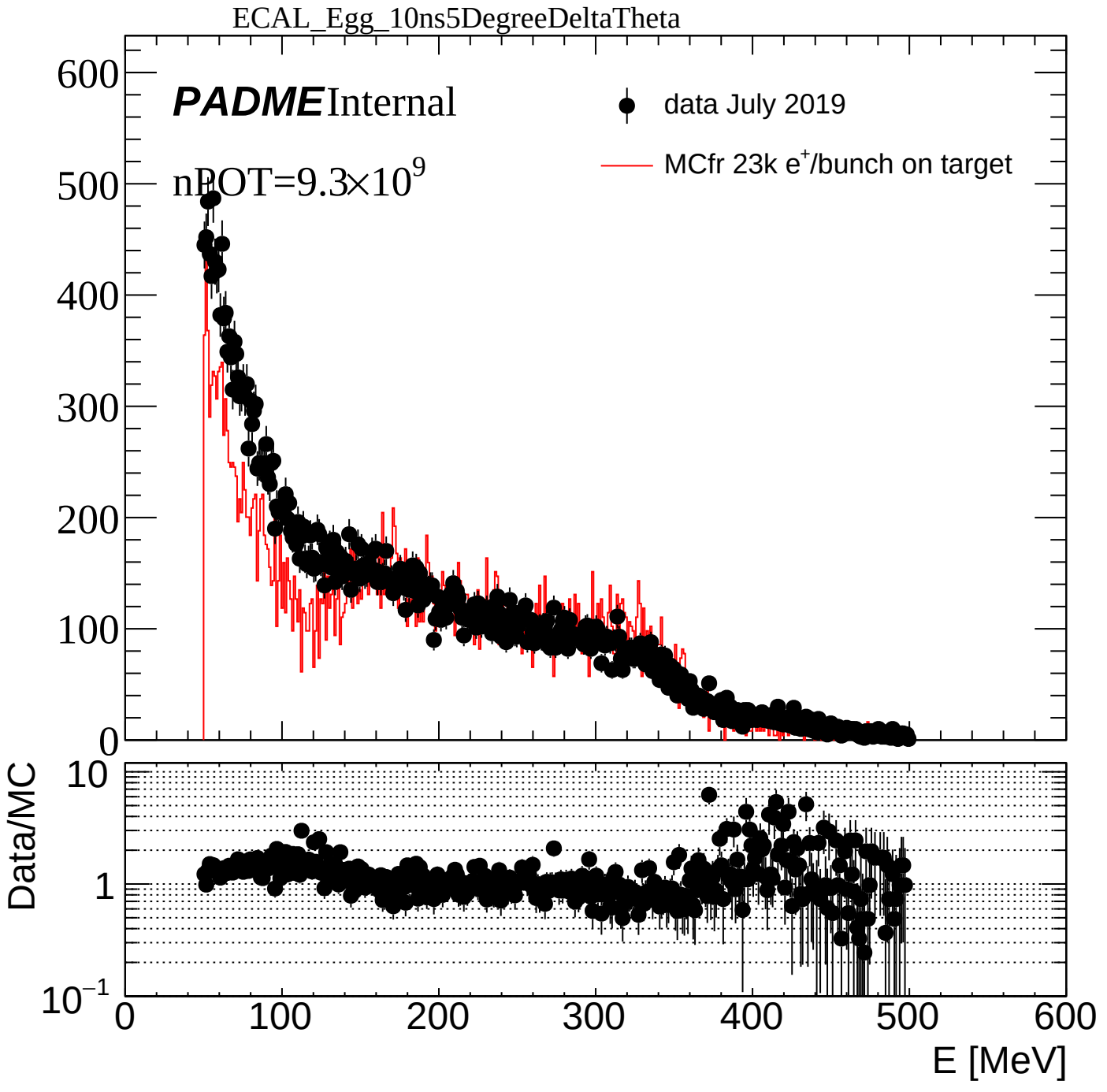
10^−1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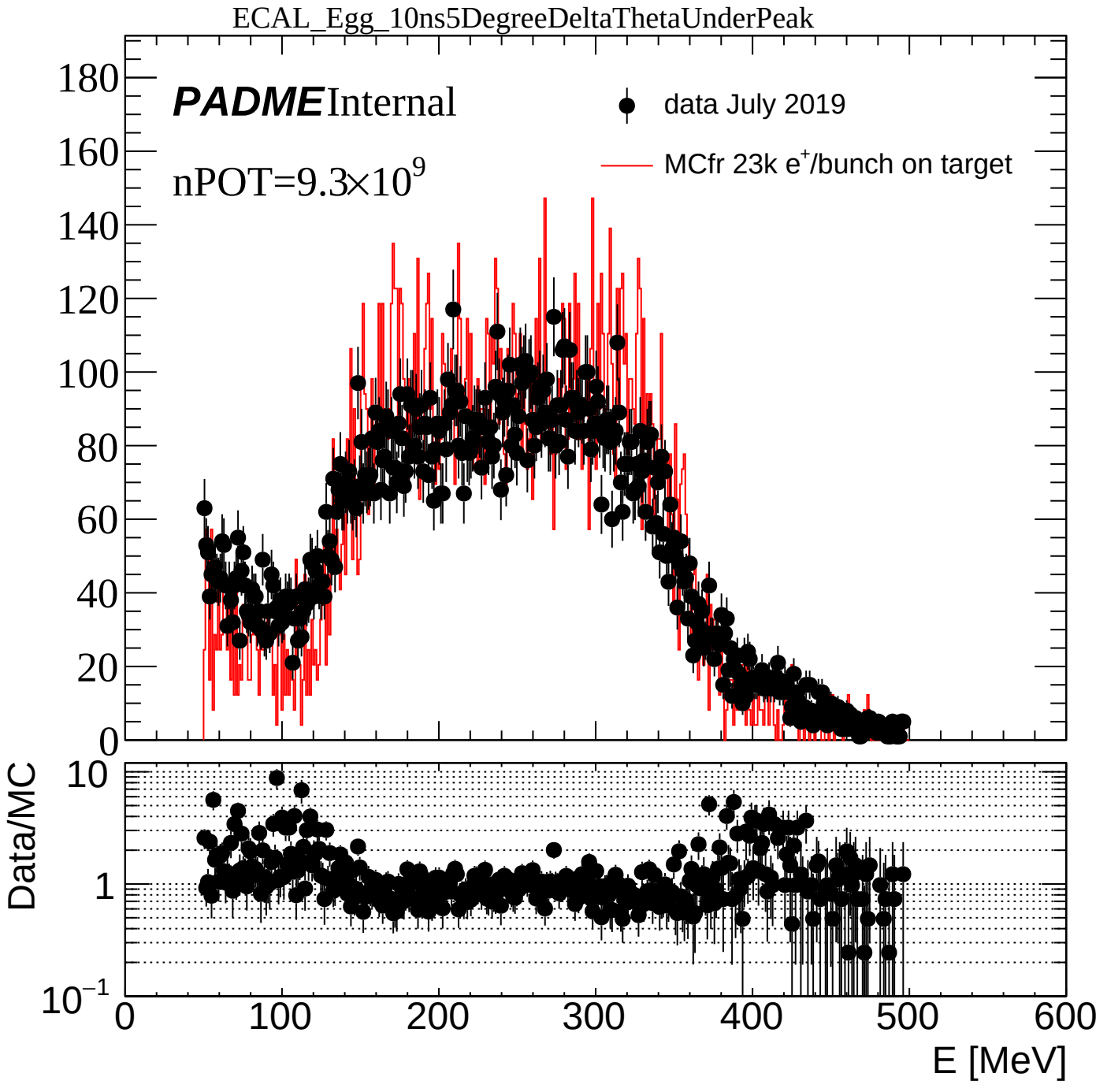
E [MeV]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Data/MC
E [MeV]
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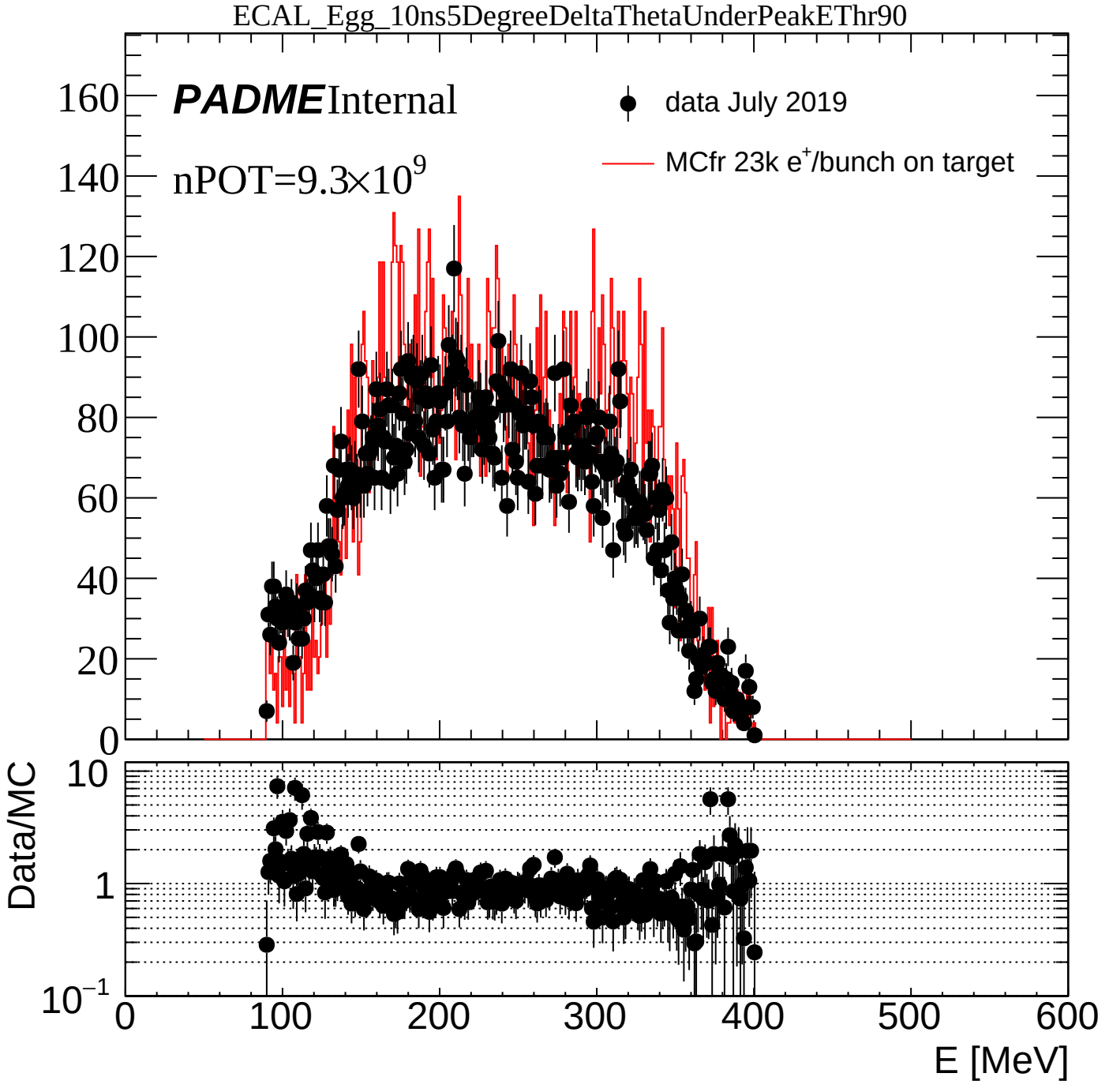
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nPOT=9.3×10^9
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Data/MC
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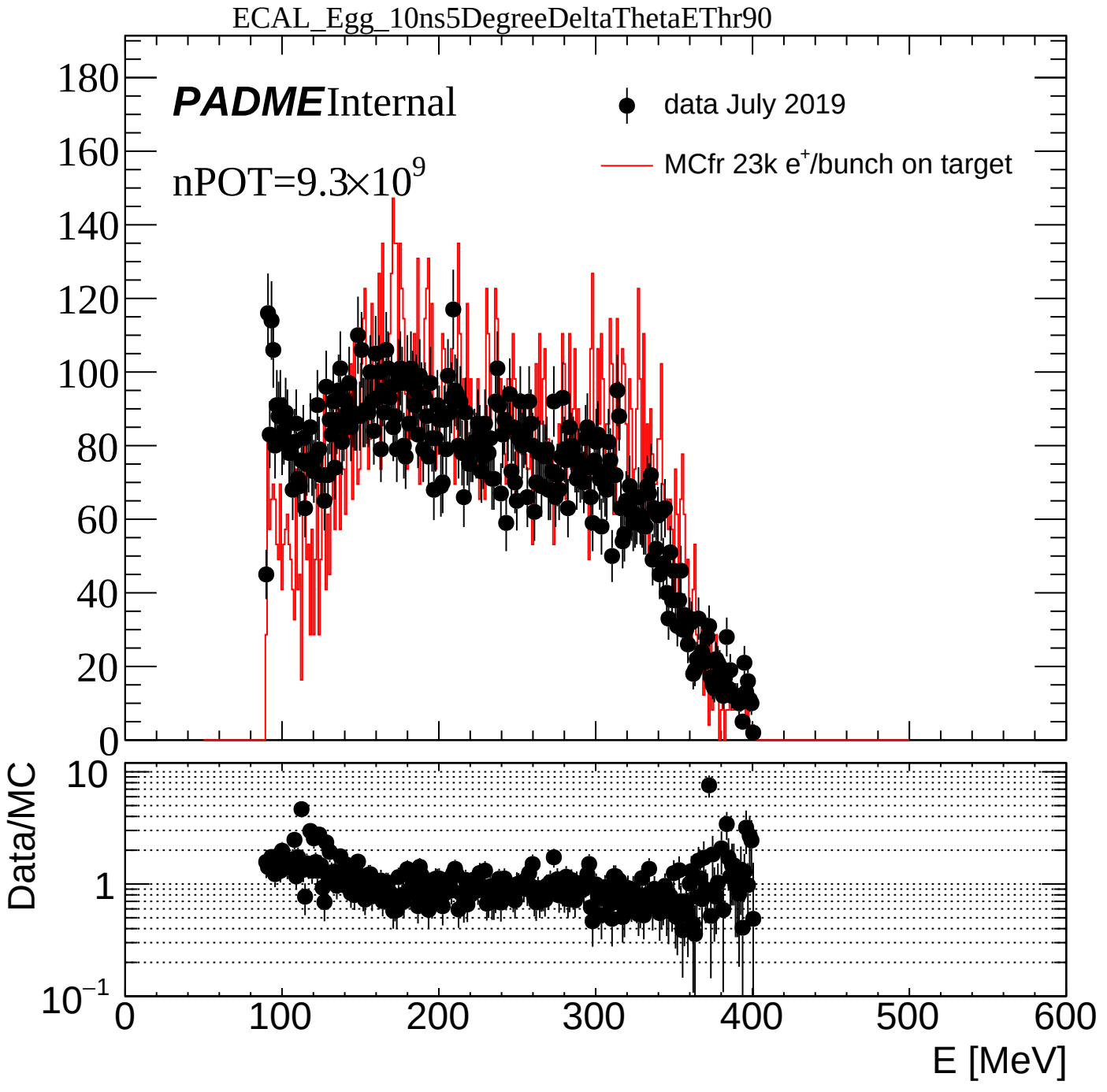
600
E [MeV]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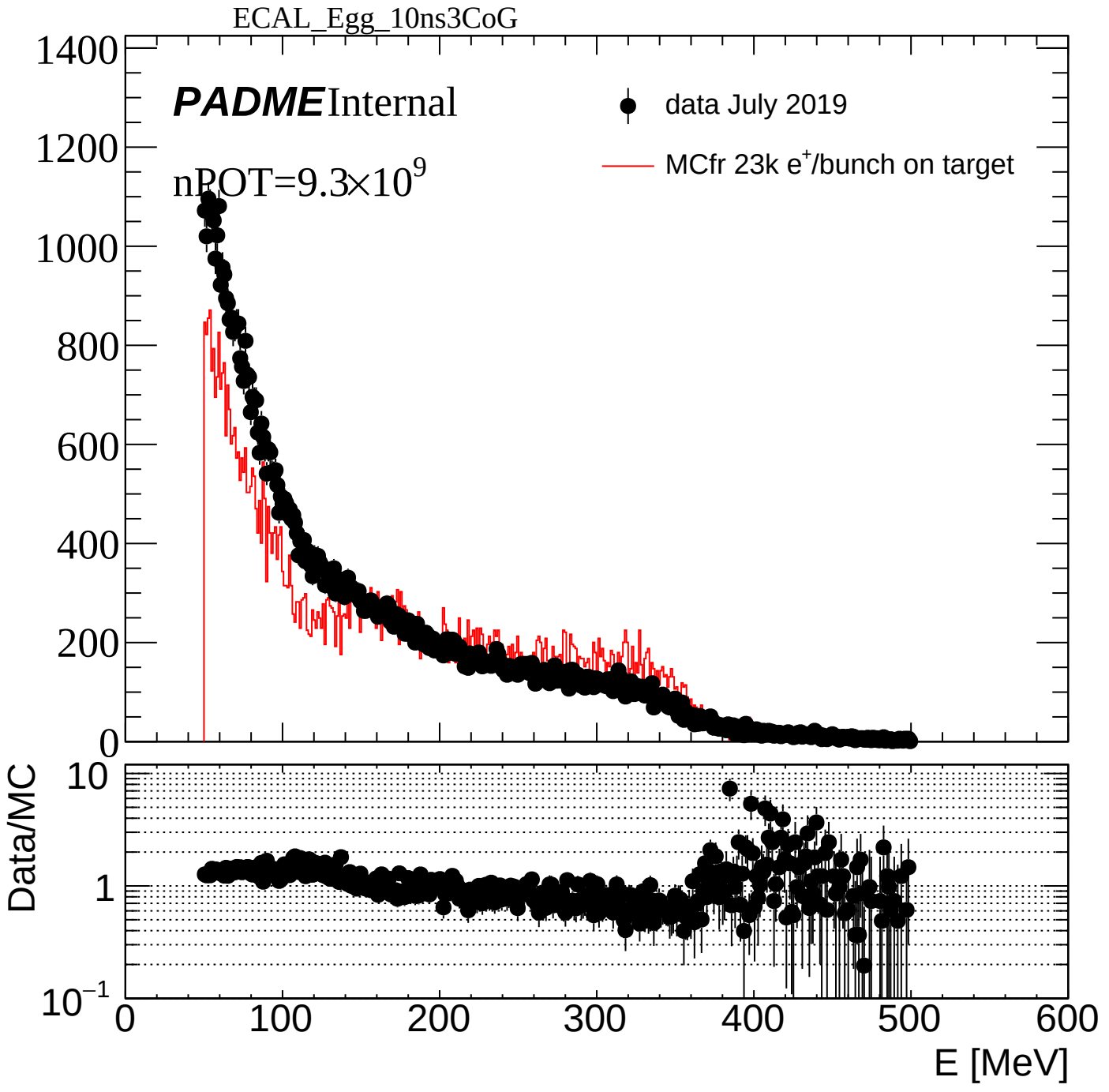
E [MeV]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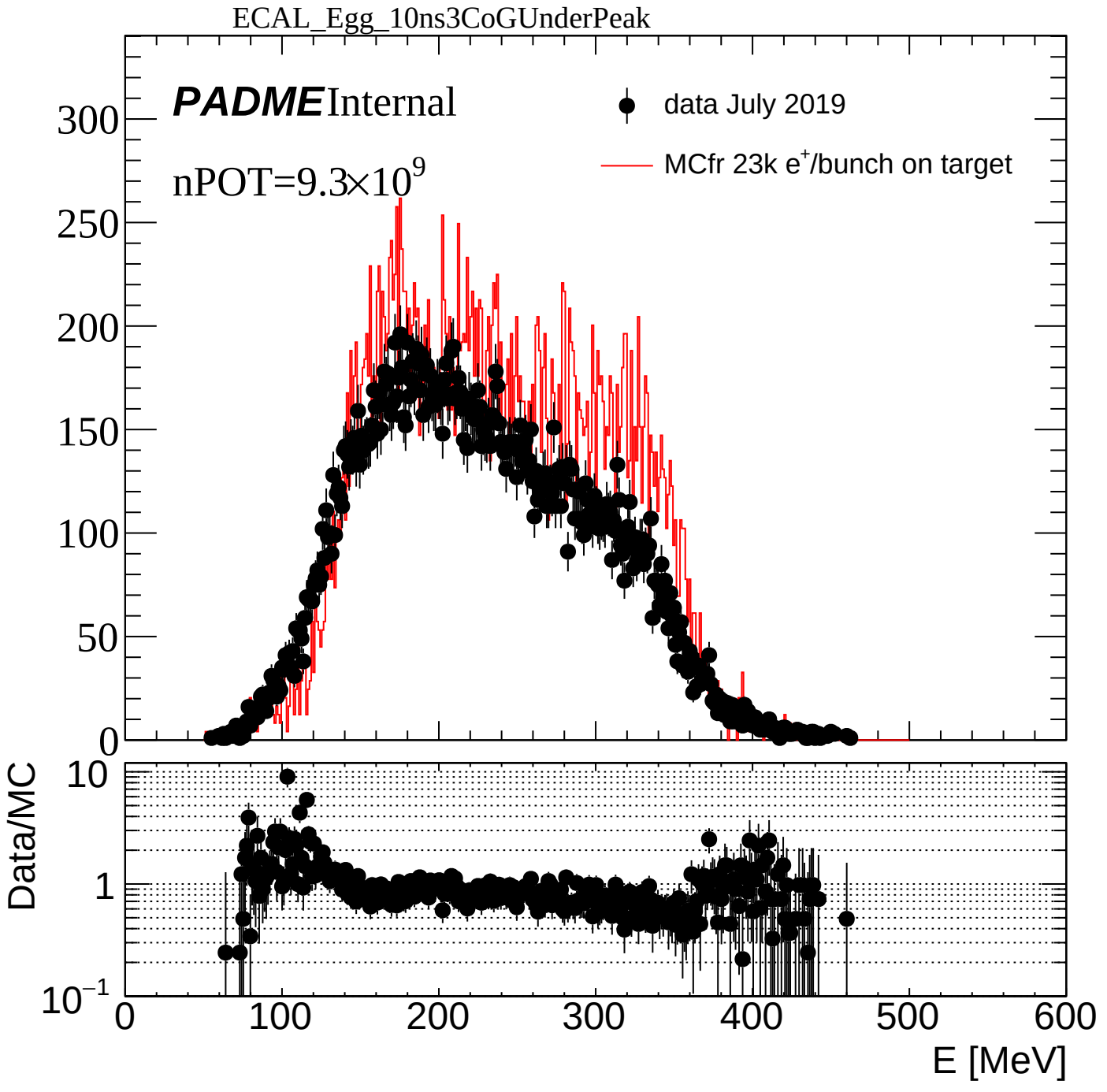
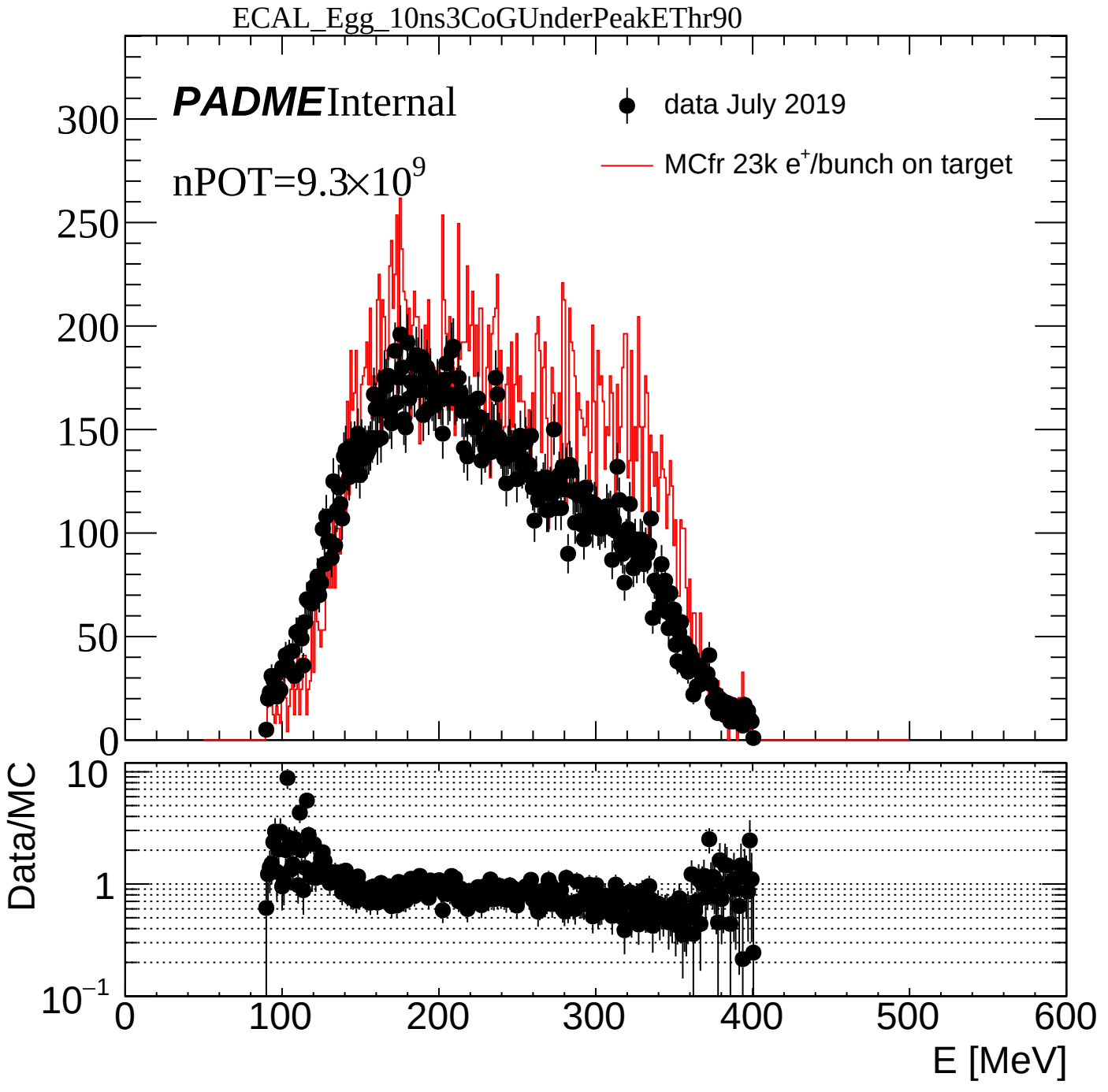
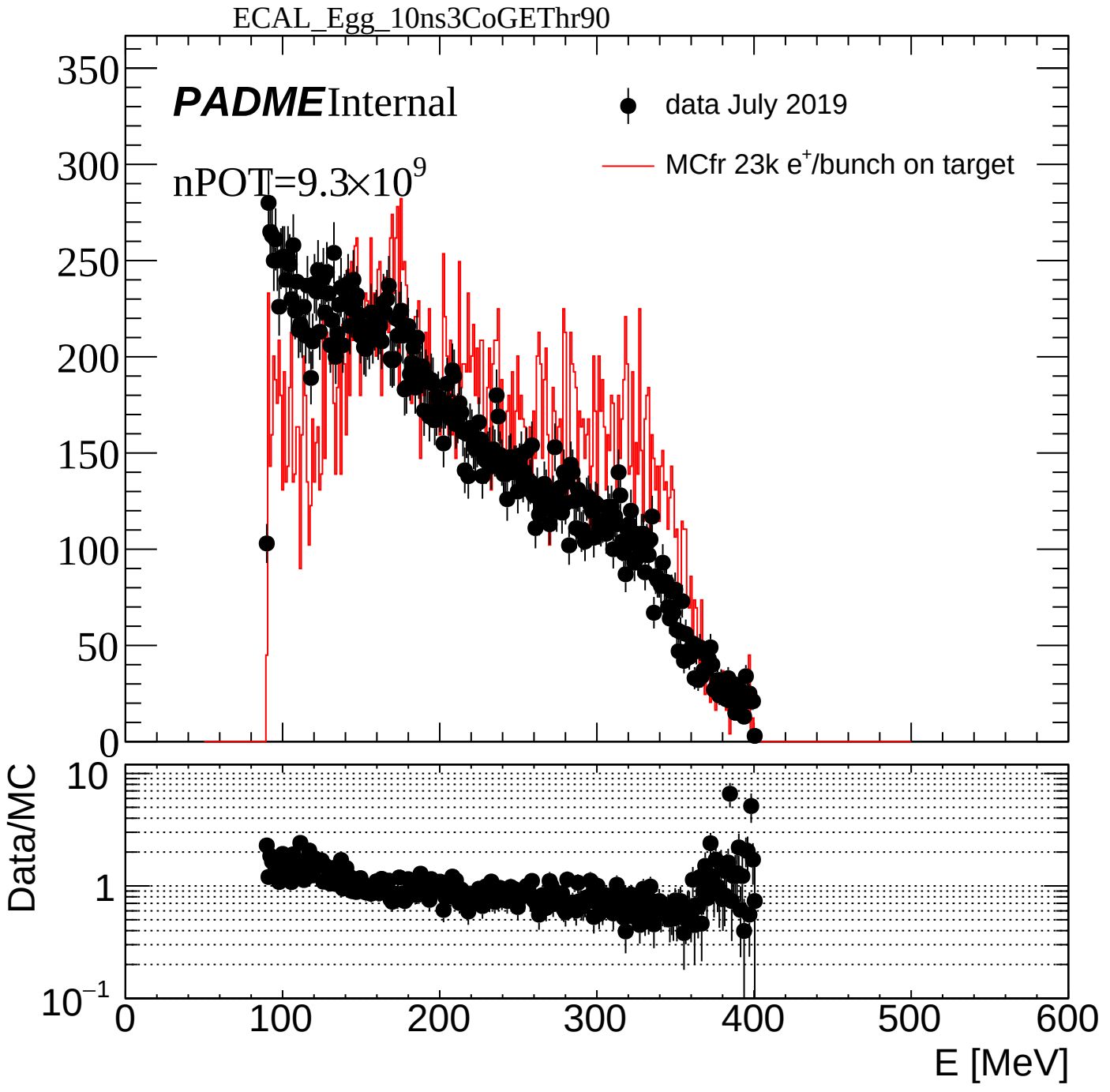
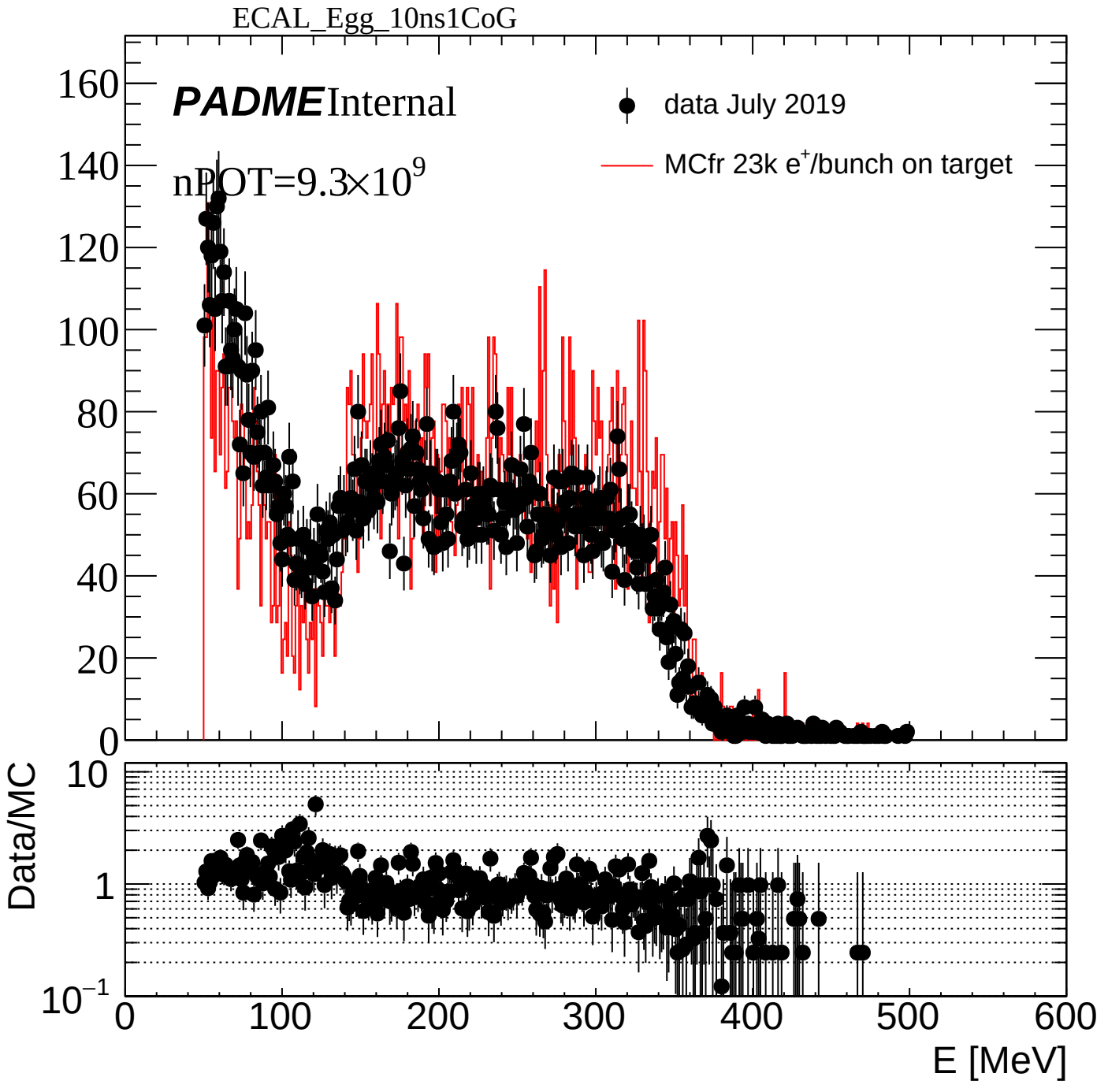
Data/MC
E [MeV]


ECAL_Egg_10ns3CoGUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
300
250
200
150
100
50
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
E [MeV]


ECAL_Egg_10ns3CoGUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
300
250
200
150
100
50
0
Data/MC
10
1
10^−1
0
100
200
300
400
500
600
E [MeV]


ECAL_Egg_10ns3CoGEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E [MeV]


ECAL_Egg_10ns1CoG
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E [MeV]
0
20
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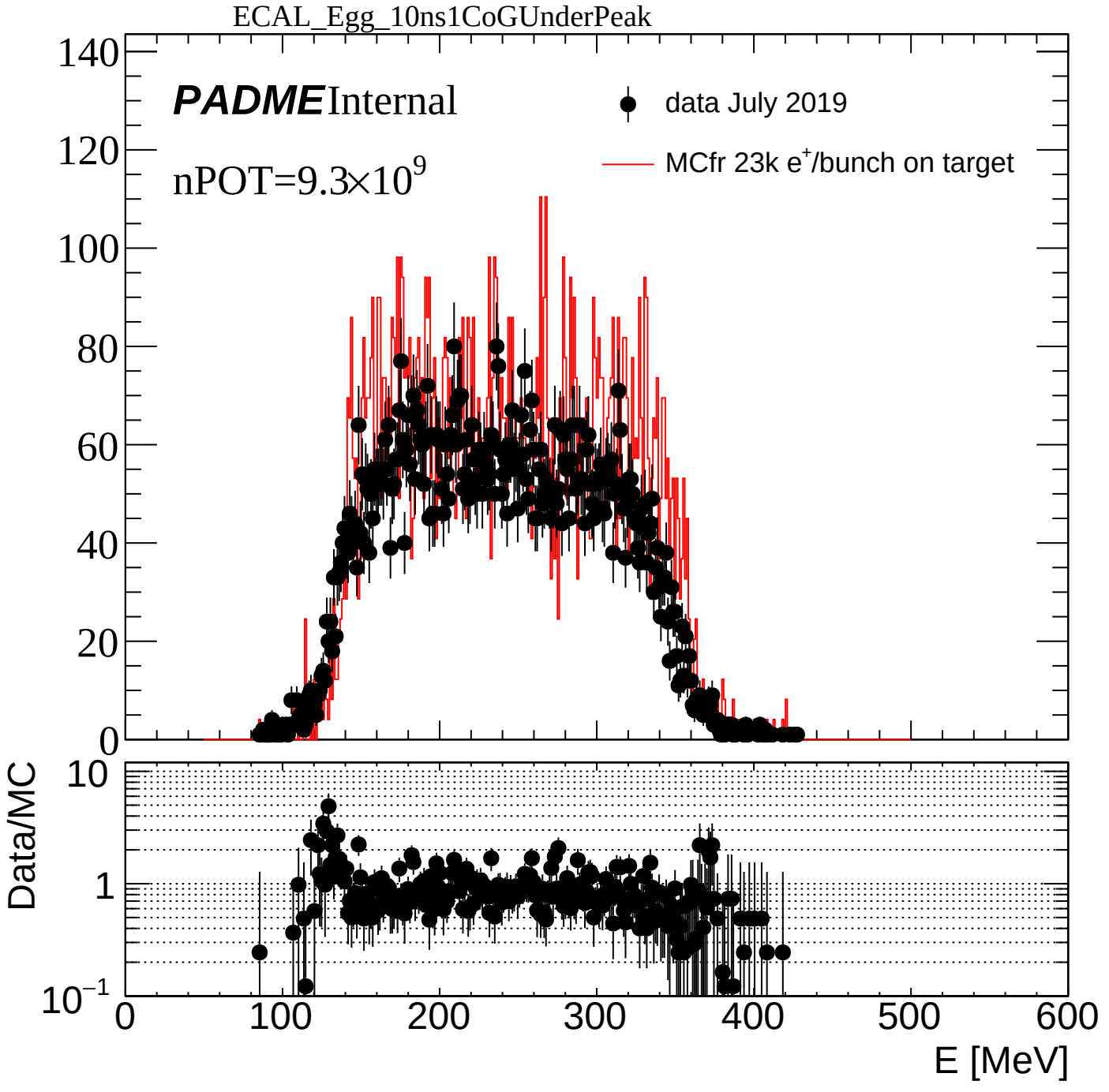
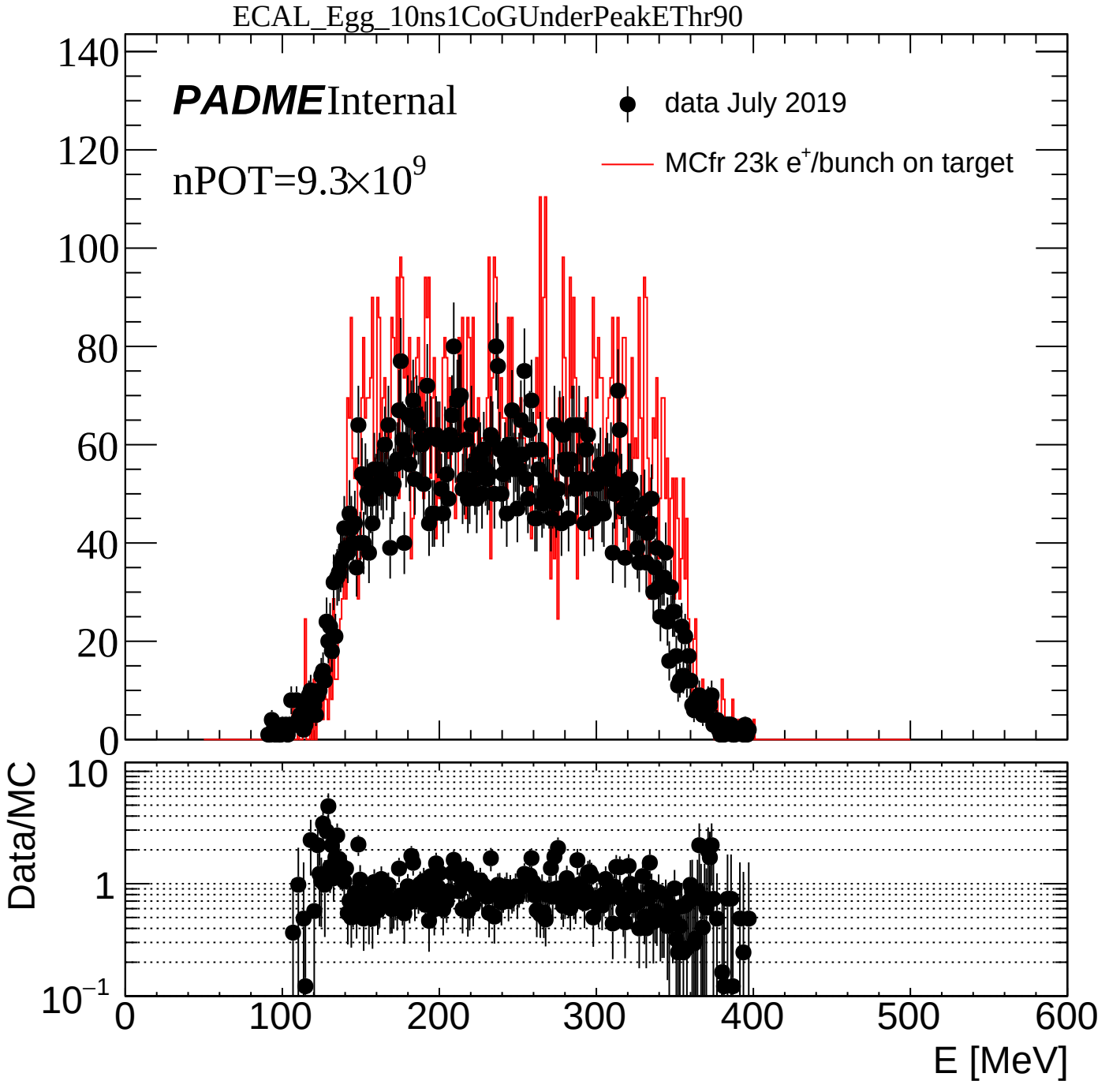
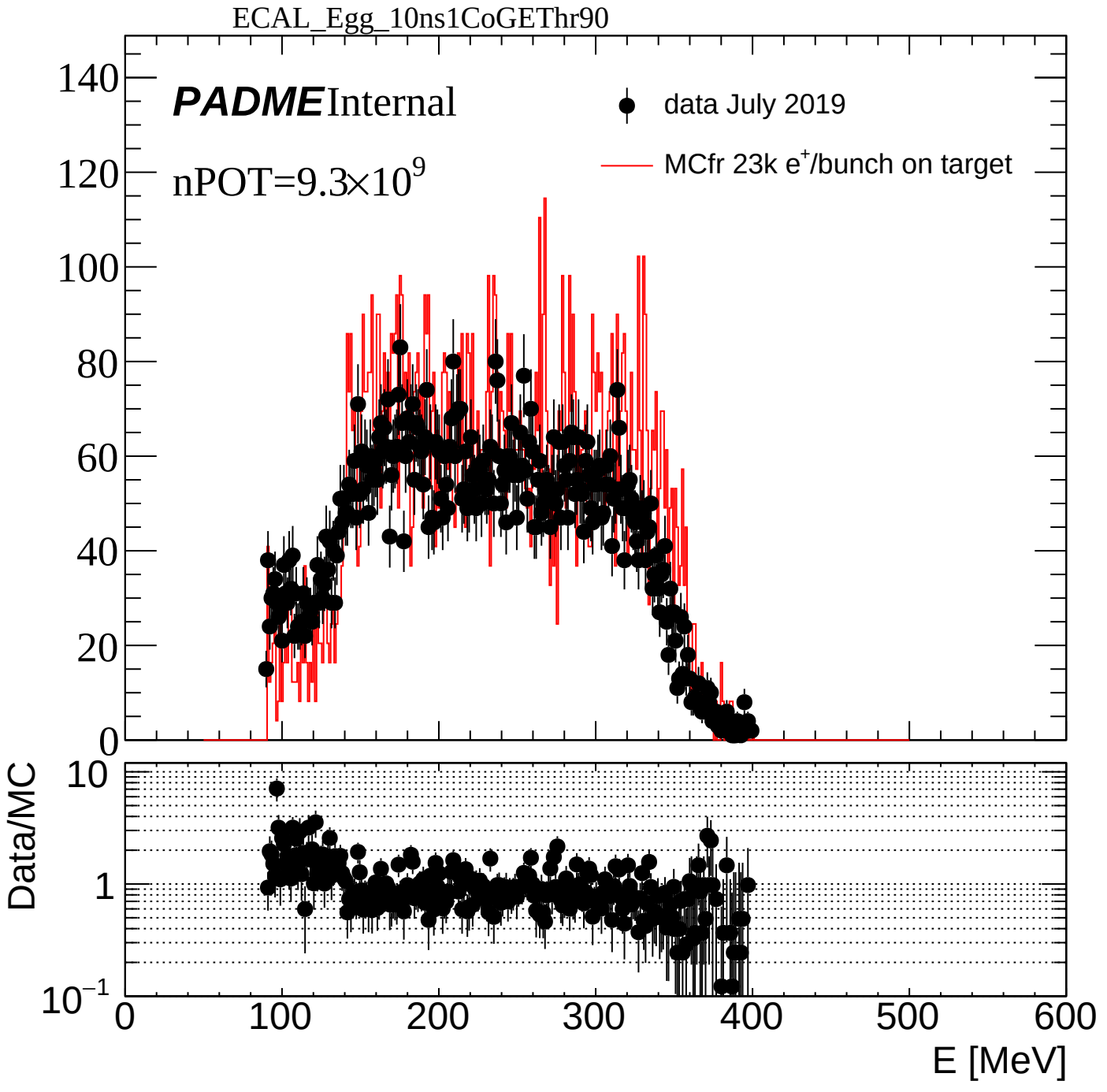
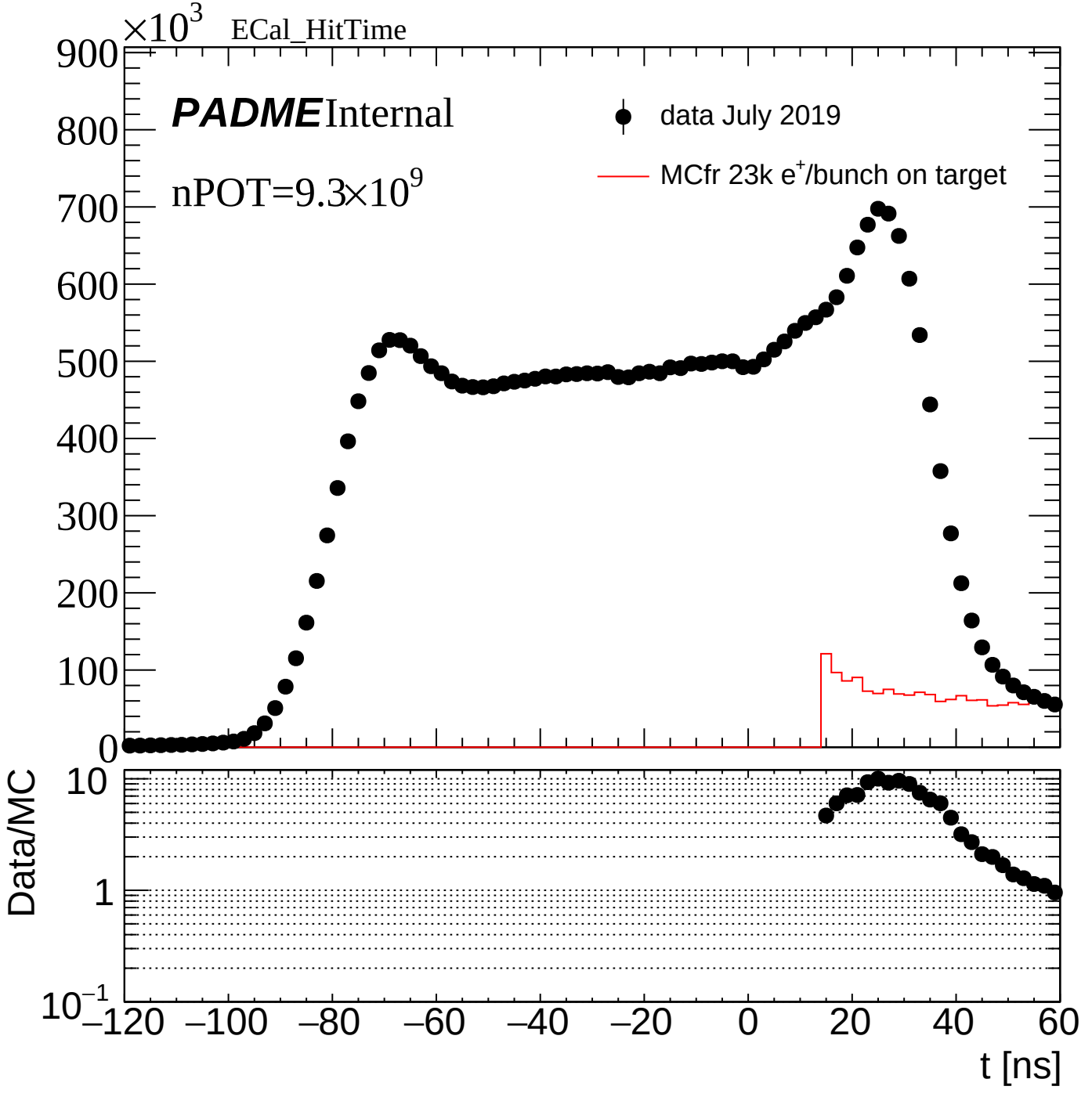
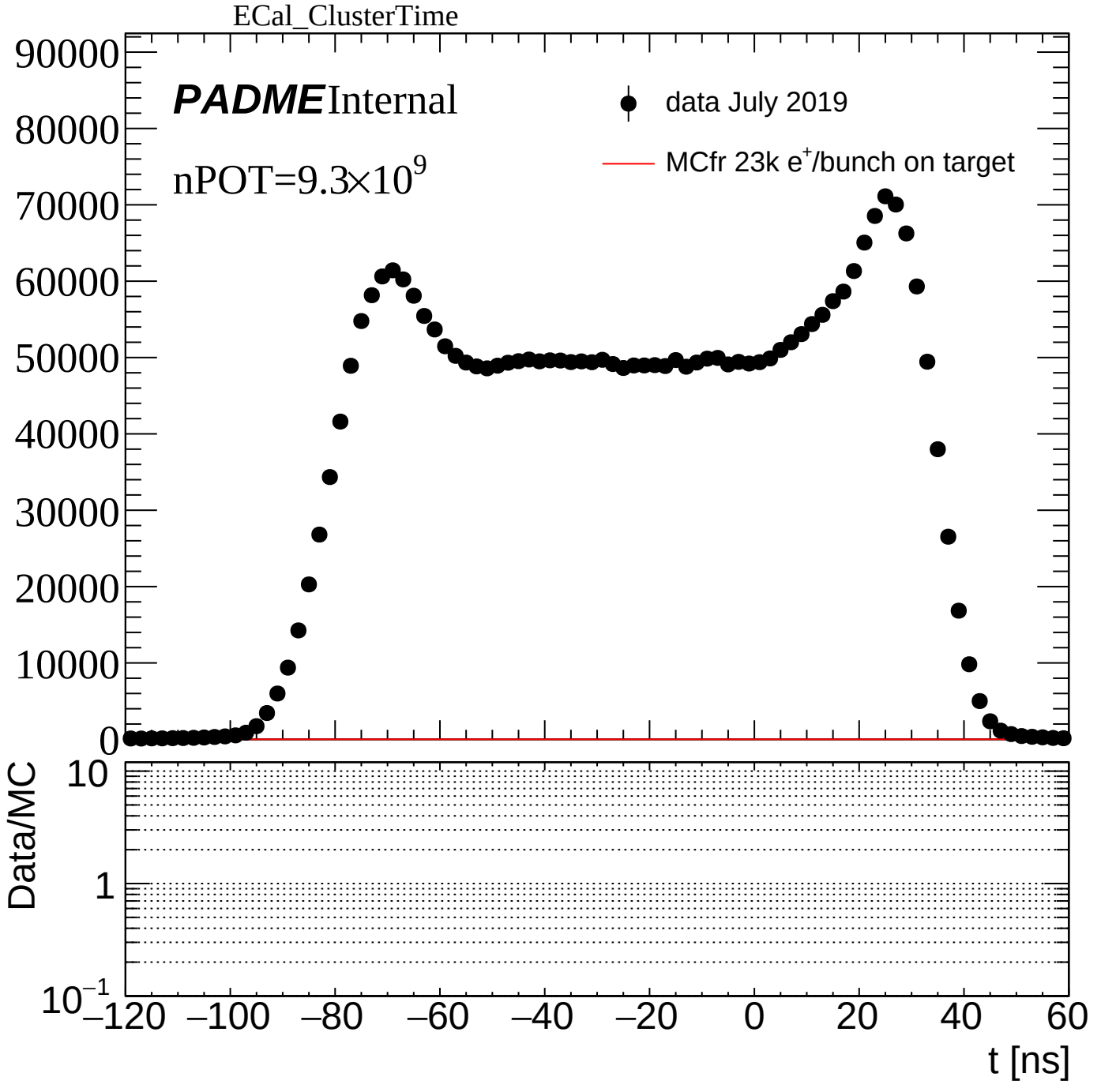
60
80
100
120
140
160
10
1
10^−1
0
100
200
300
400
500
600

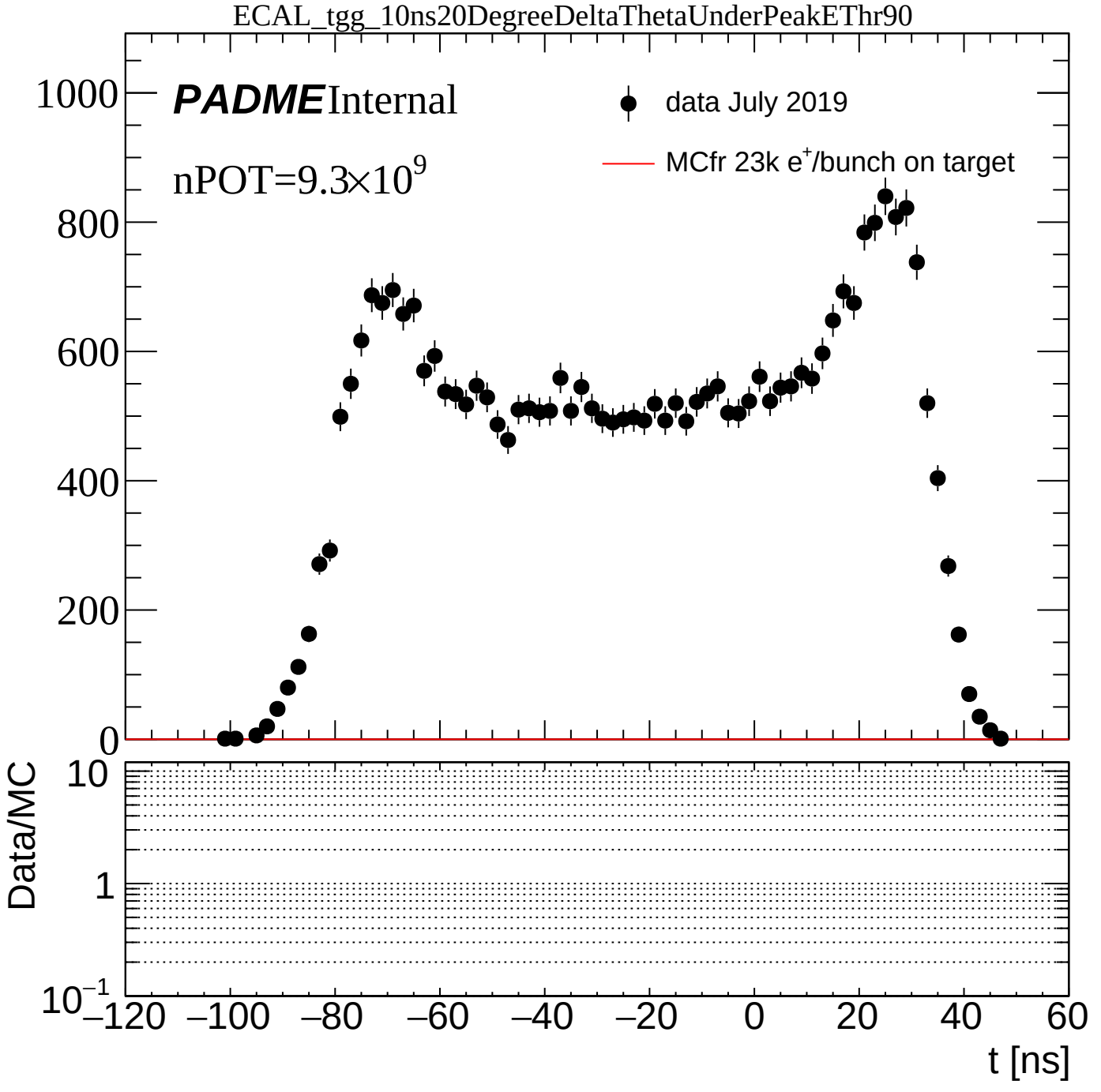

ECAL_Egg_10ns1CoGUnderPeak
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E [MeV]
0
20
40
60
80
100
120
140
10
1
10^−1
0
100
200
300
400
500
600

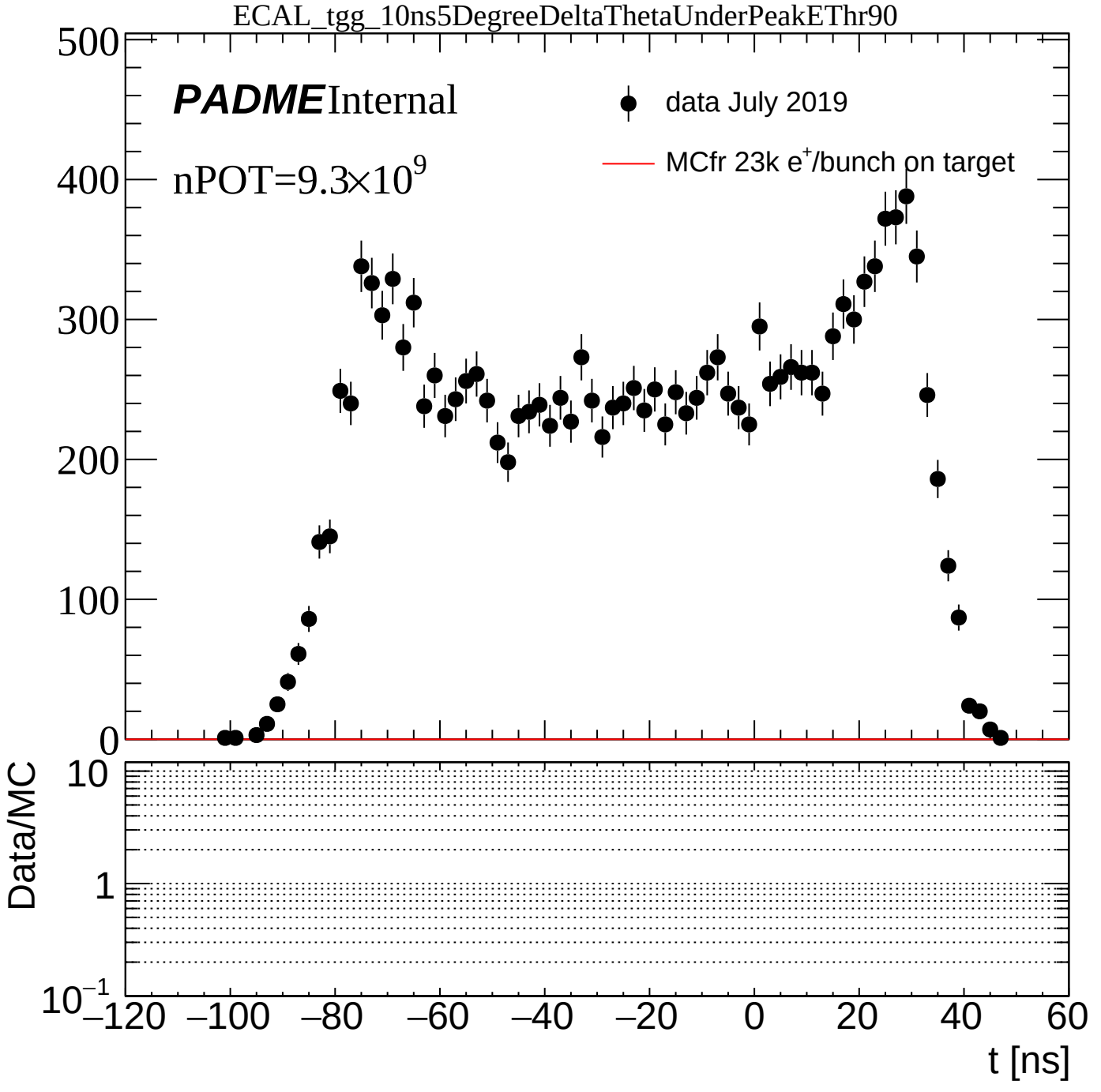

ECAL_Egg_10ns1CoGUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E [MeV]
0
20
40
60
80
100
120
140
10
1
10^−1
0
100
200
300
400
500
600

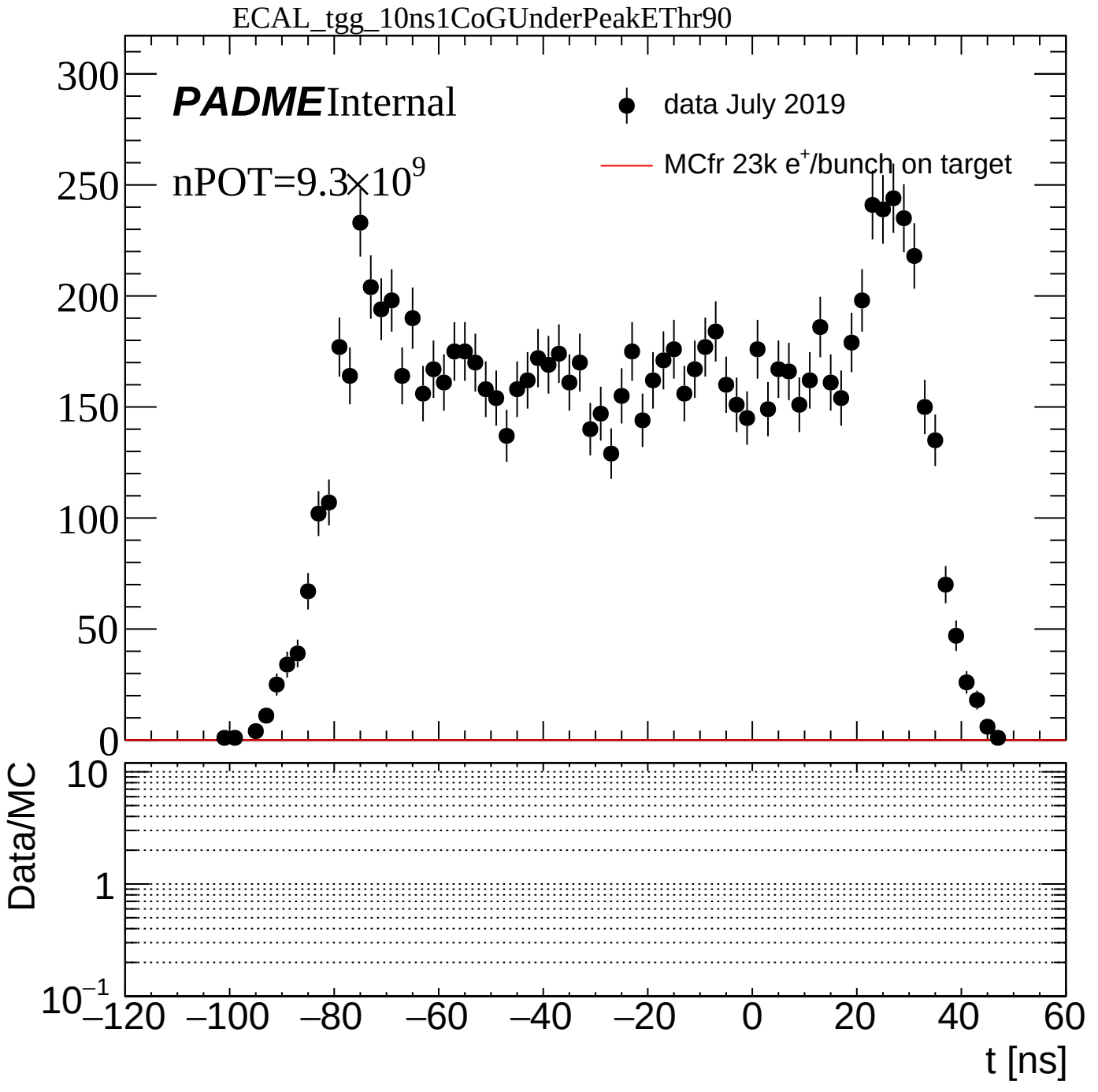

ECAL_Egg_10ns1CoGEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
Data/MC
E [MeV]


×10^3
ECal_HitTime
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
800
700
600
500
400
300
200
100
0
Data/MC
10
1
10^−1
–120
–100
–80
–60
–40
–20
0
20
40
60
t [ns]


ECal_ClusterTime
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
Data/MC
10
1
10^−1
–120
–100
–80
–60
–40
–20
0
20
40
60
t [ns]


ECAL_tgg_10ns20DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
1000
800
600
400
200
0
Data/MC
10
1
10^−1
–120
–100
–80
–60
–40
–20
0
20
40
60
t [ns]


ECAL_tgg_10ns5DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
500
400
300
200
100
0
Data/MC
10
1
10^−1
–120
–100
–80
–60
–40
–20
0
20
40
60
t [ns]


ECAL_tgg_10ns1CoGUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
300
250
200
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50
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Data/MC
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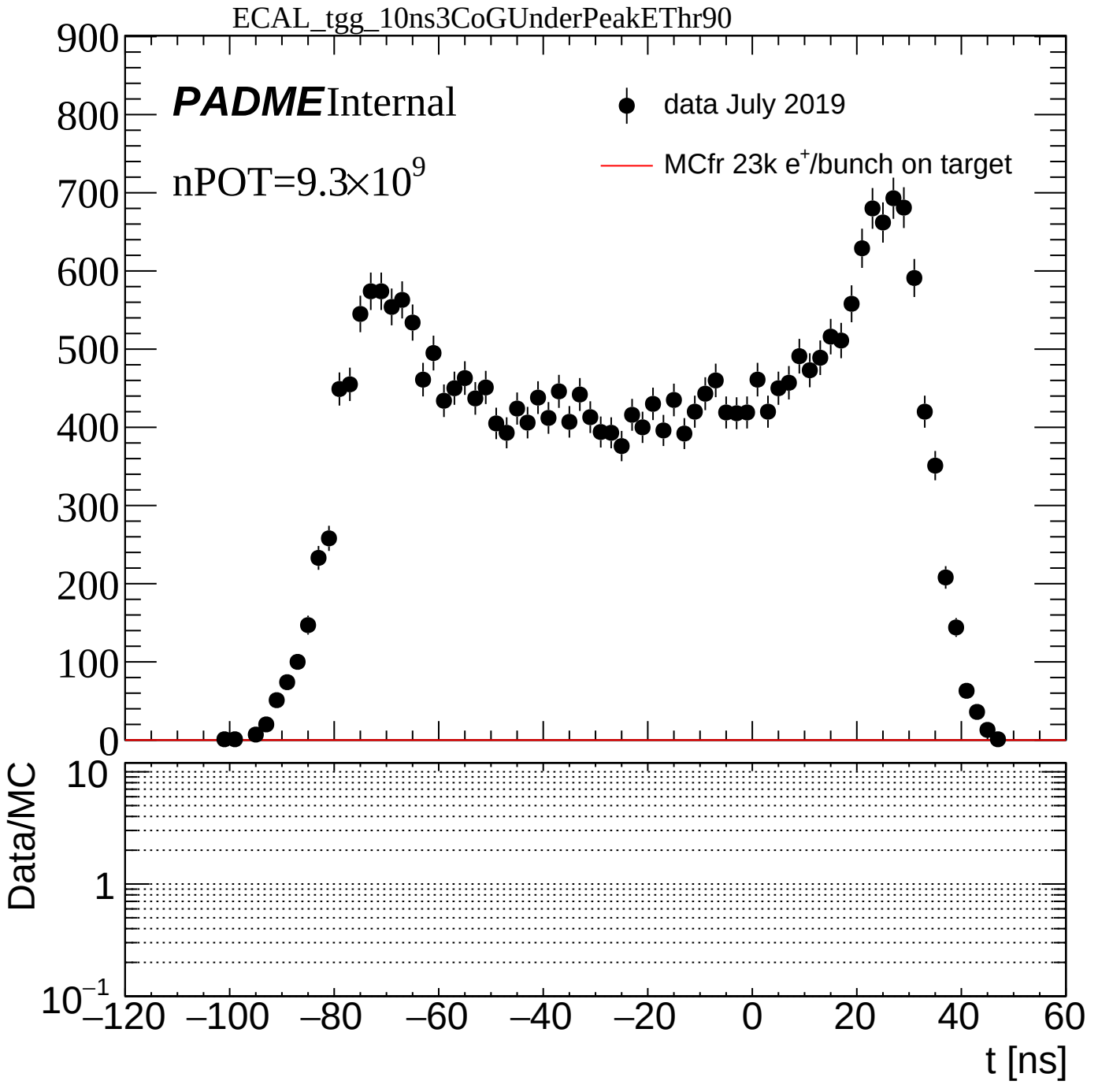
10^−1
–120
–100
–80
–60
–40
–20
0
20
40
60
t [ns]


ECAL_tgg_10ns3CoGUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
800
700
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Data/MC
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–120
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–80
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–40
–20
0
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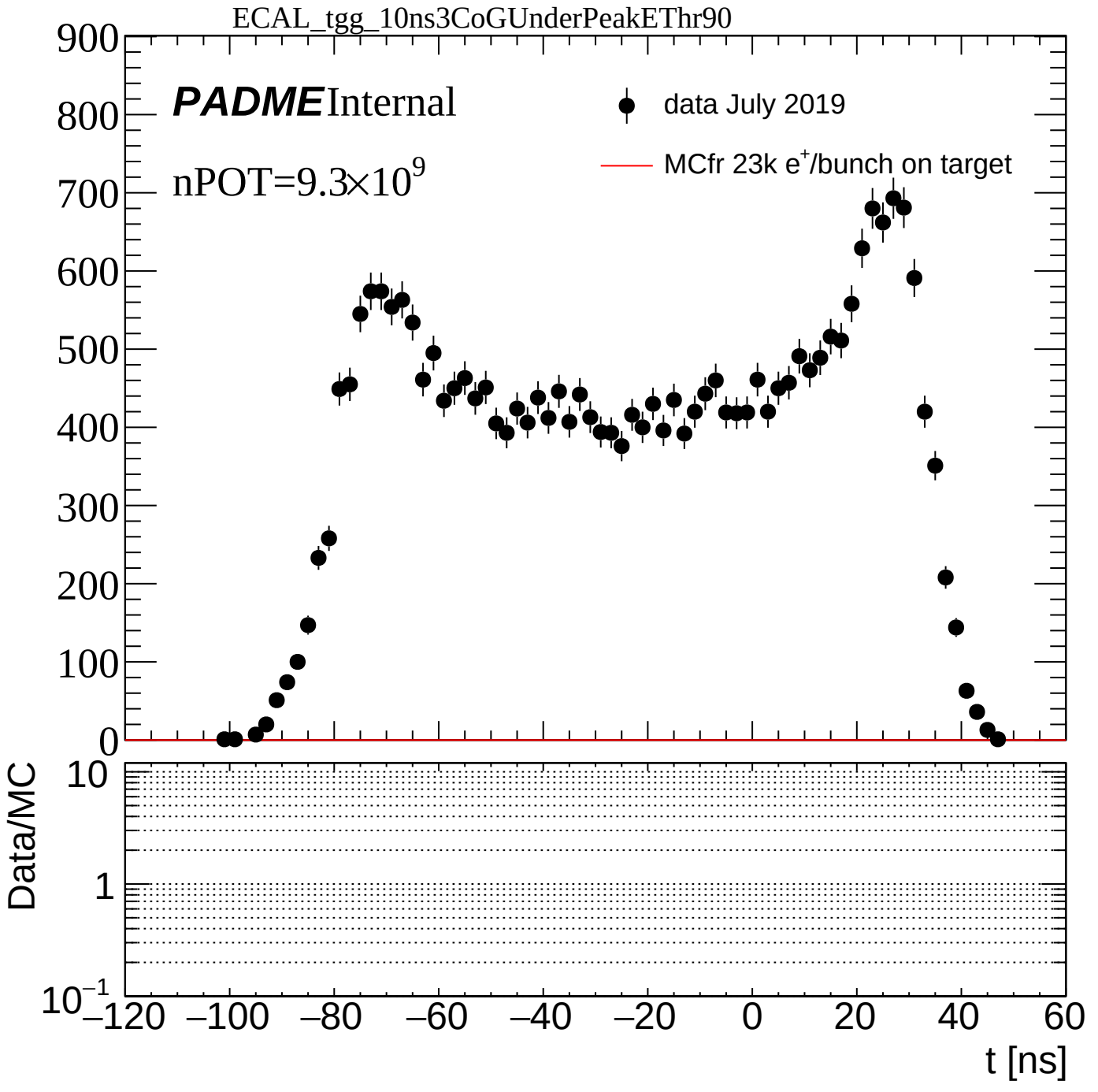
40
60
t [ns]


ECAL_tgg_10ns3CoGUnderPeakEThr90
PADME Internal
nPOT=9.3×10^9
data July 2019
MCfr 23k e+/bunch on target
900
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Data/MC
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10^−1
–120
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–40
–20
0
20
40
60
t [ns]