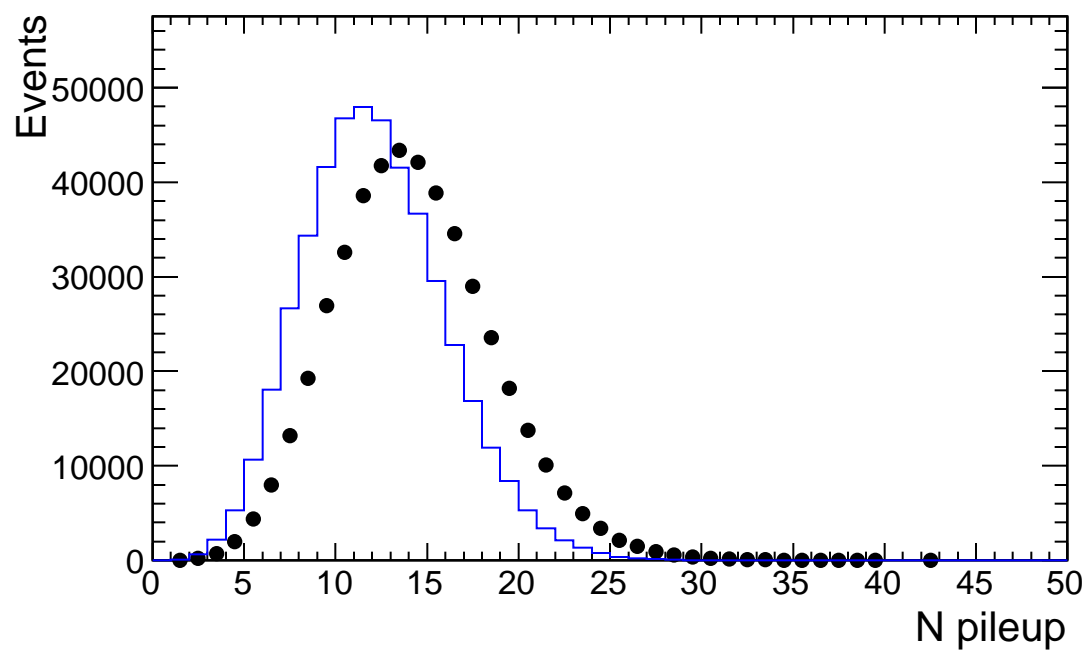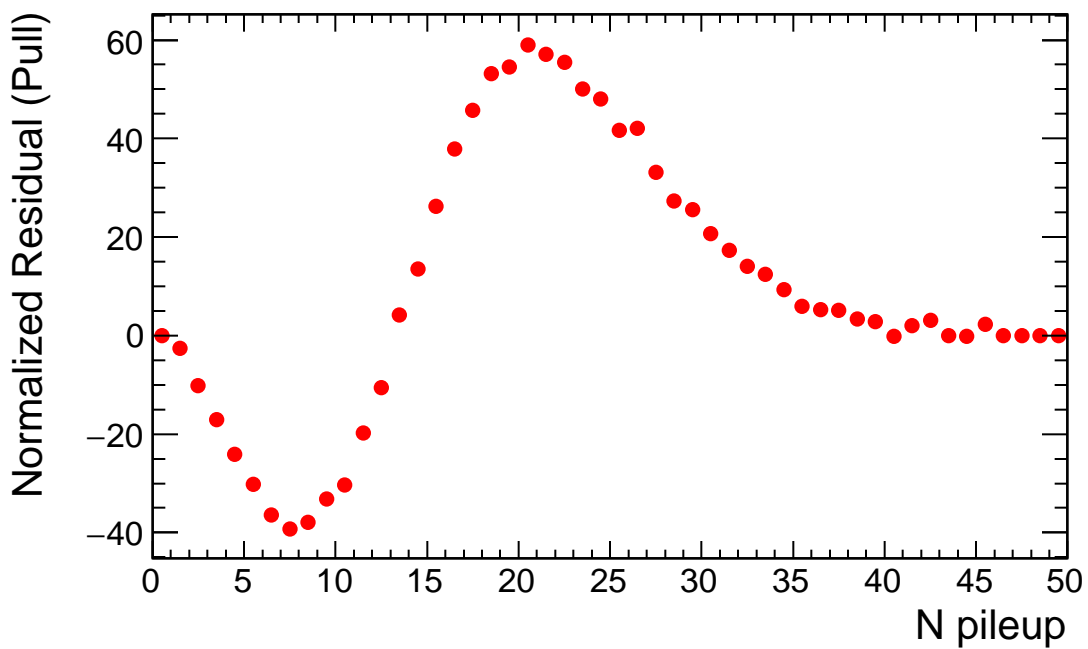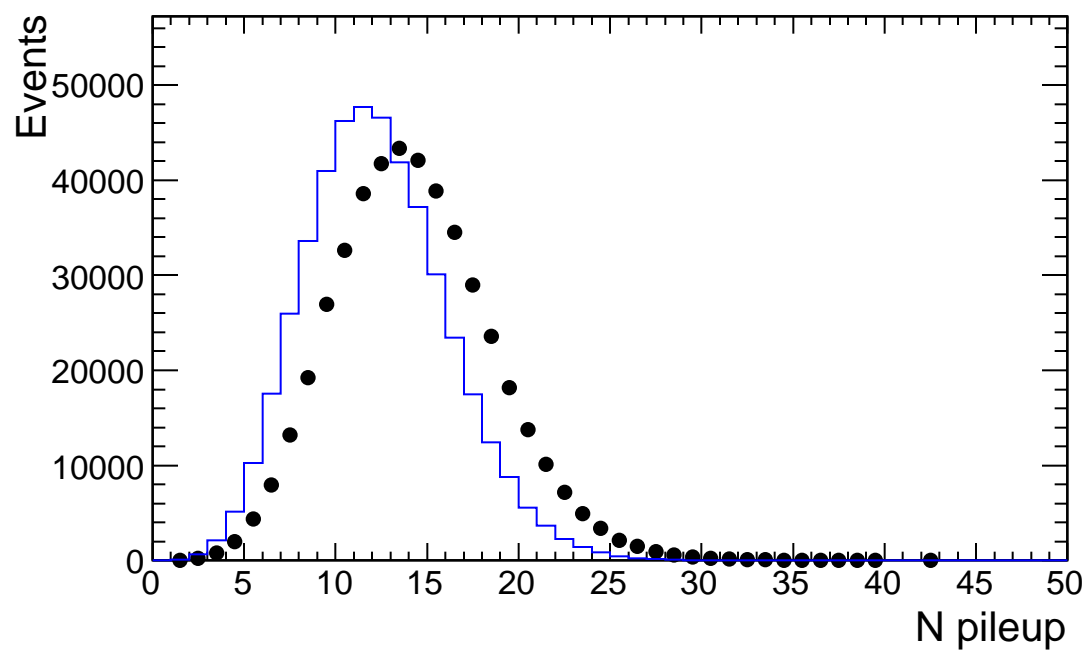nVert: MB xsec=57500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=57500 ub, Chi2/Ndf=1076.16809622, P-value=0.0

nVert: MB xsec=58000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=58000 ub, Chi2/Ndf=987.40052216, P-value=0.0
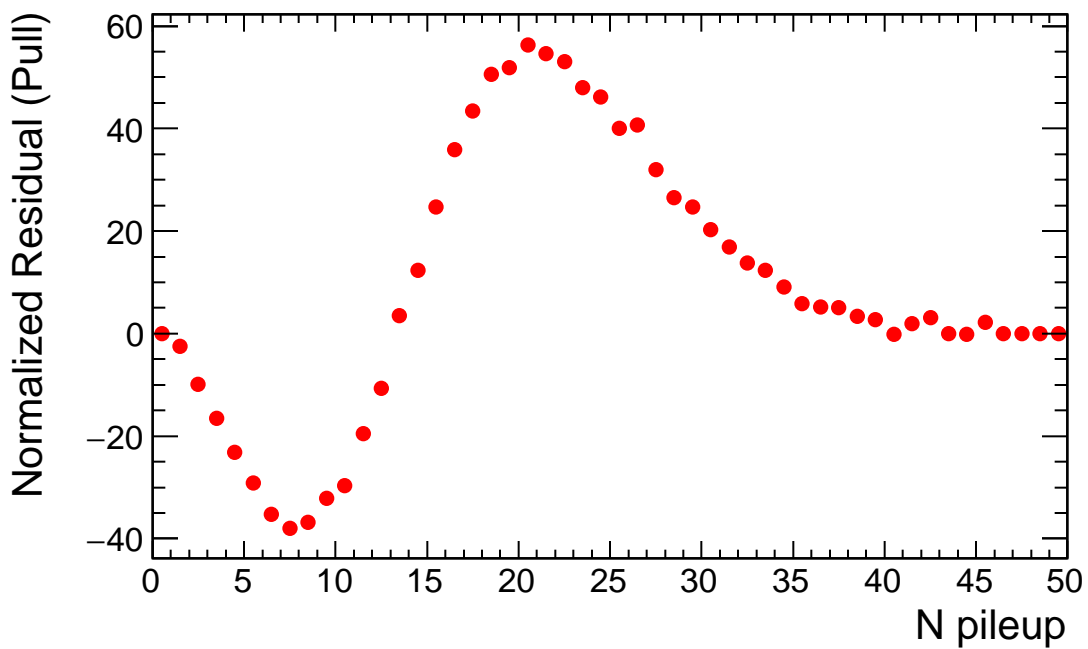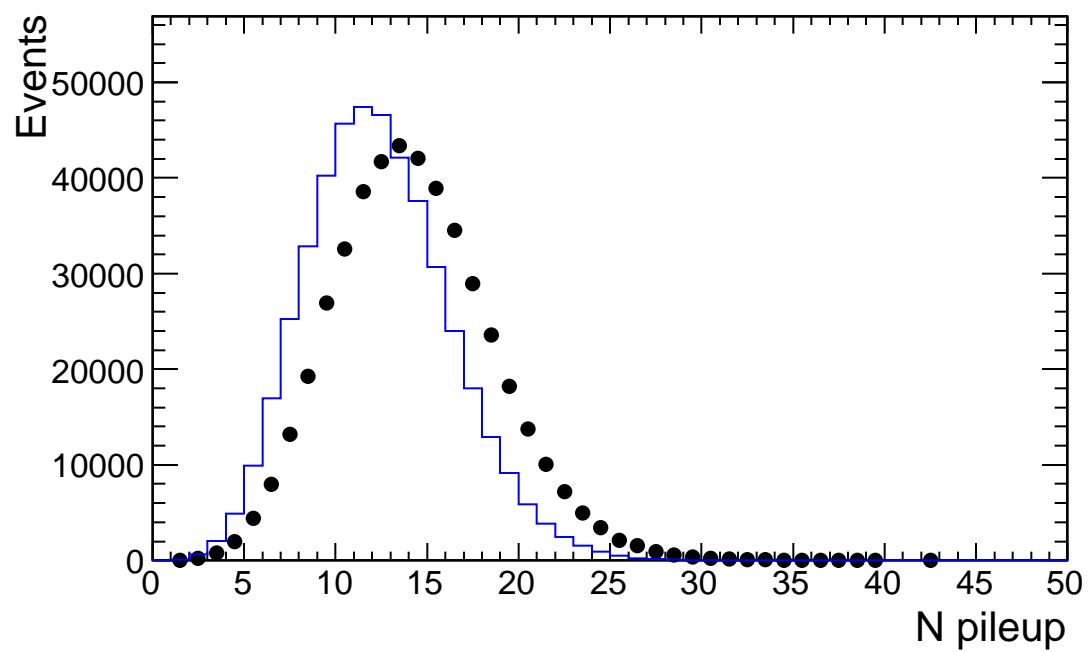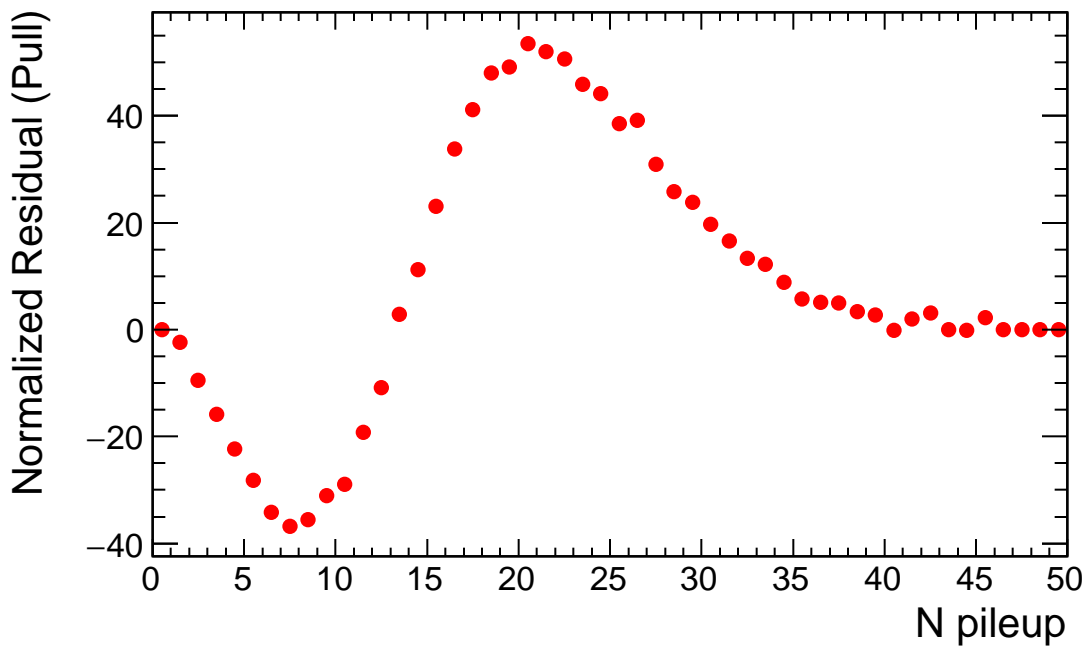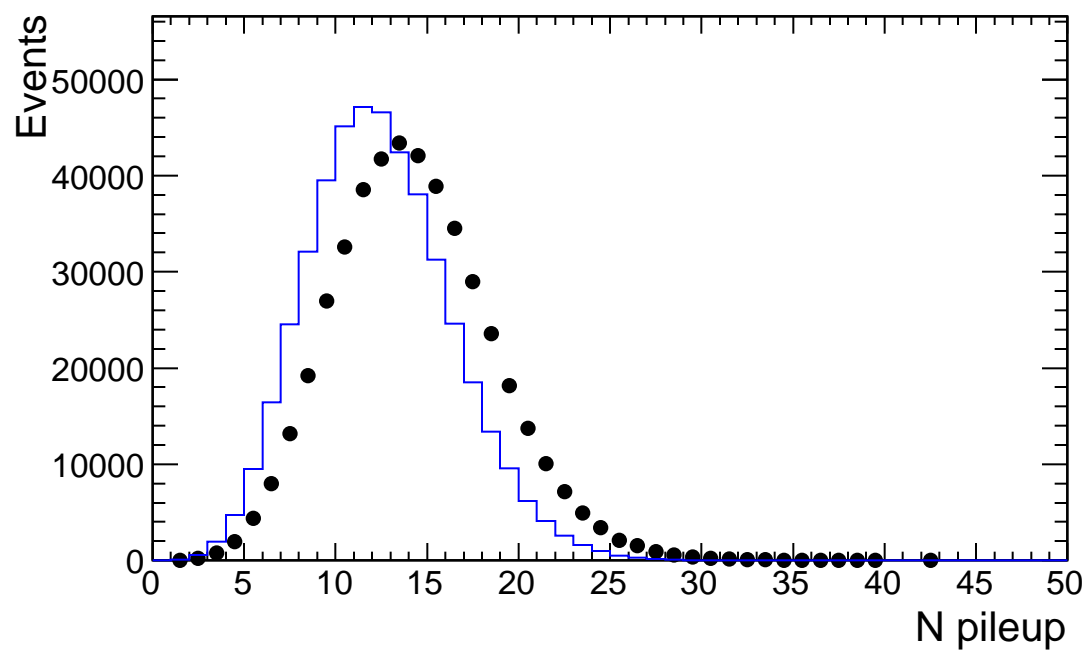
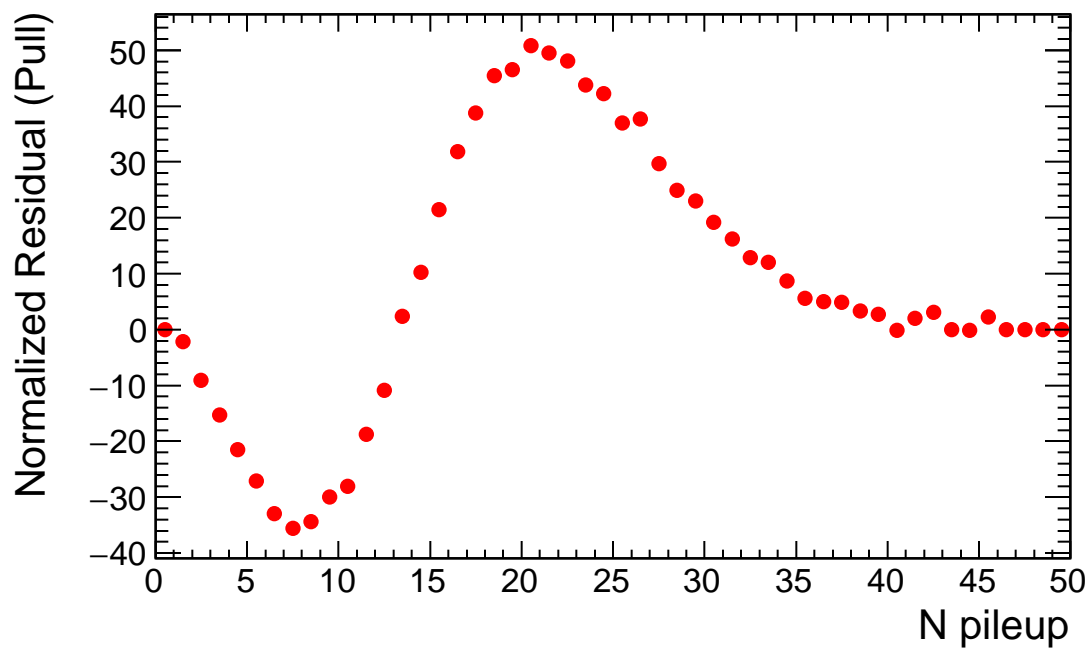nVert: MB xsec=58500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=58500 ub, Chi2/Ndf=903.152569007, P-value=0.0
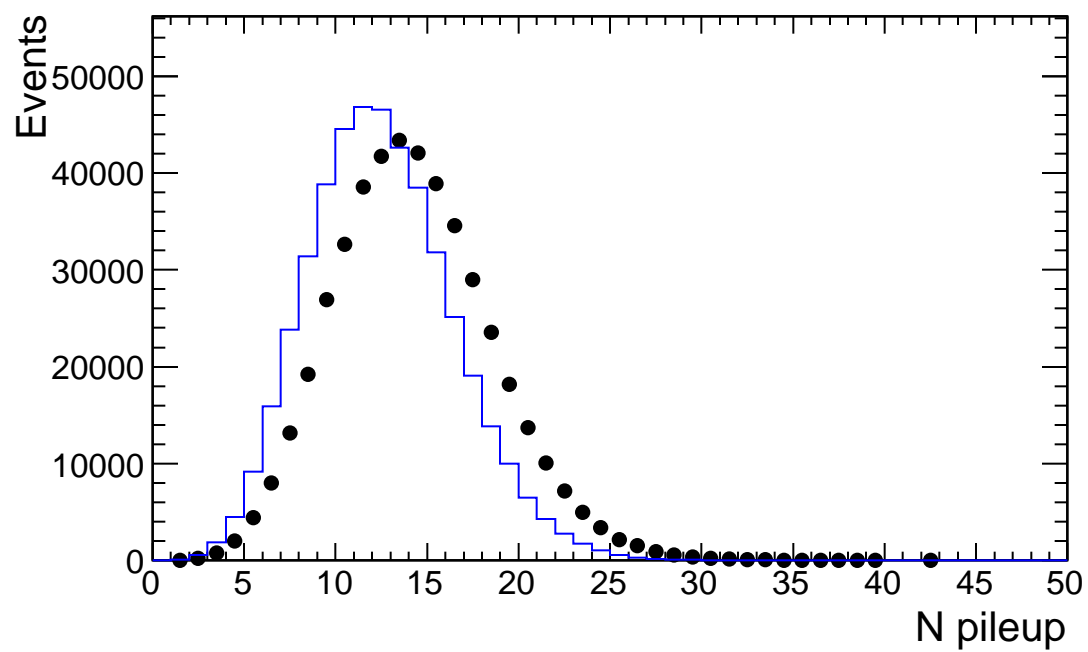
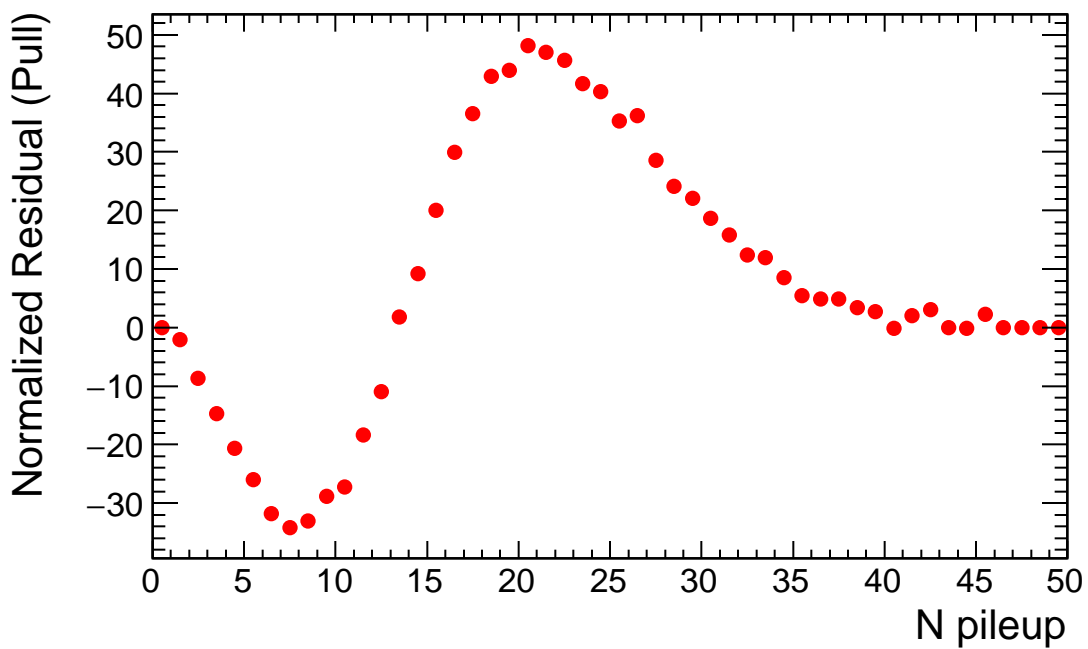nVert: MB xsec=59000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=59000 ub, Chi2/Ndf=823.285656692, P-value=0.0
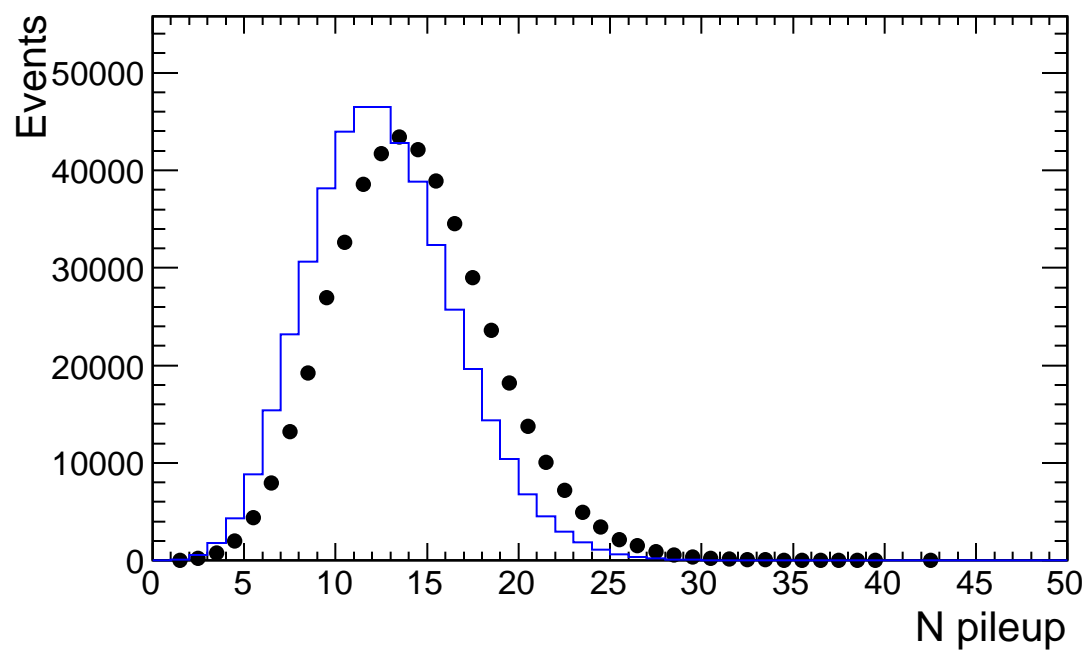
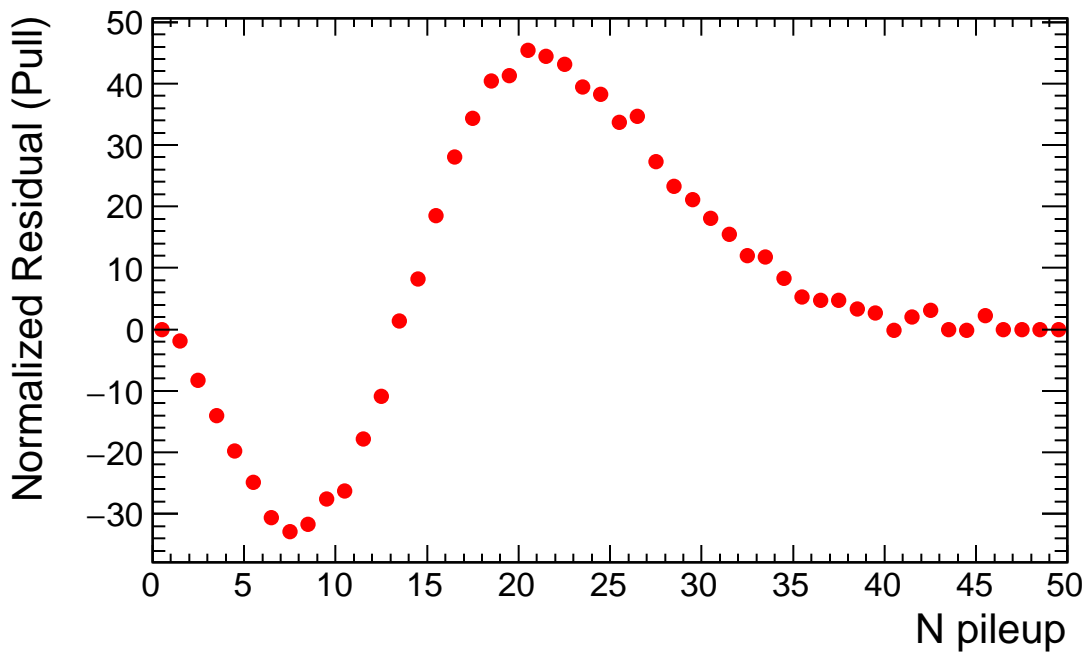nVert: MB xsec=59500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=59500 ub, Chi2/Ndf=747.694258341, P-value=0.0
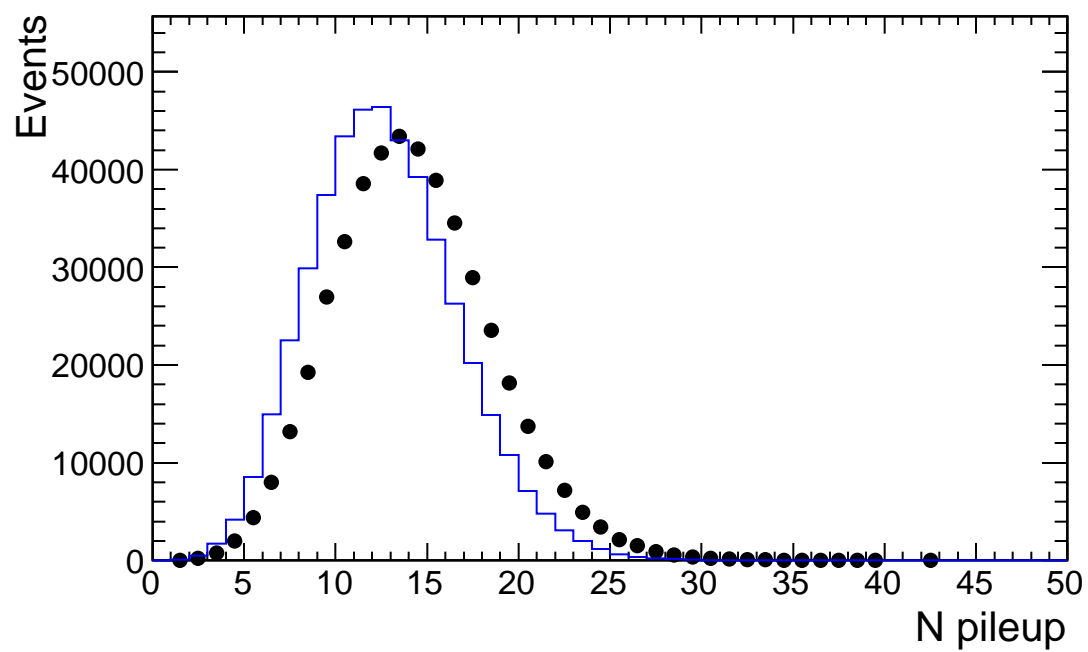
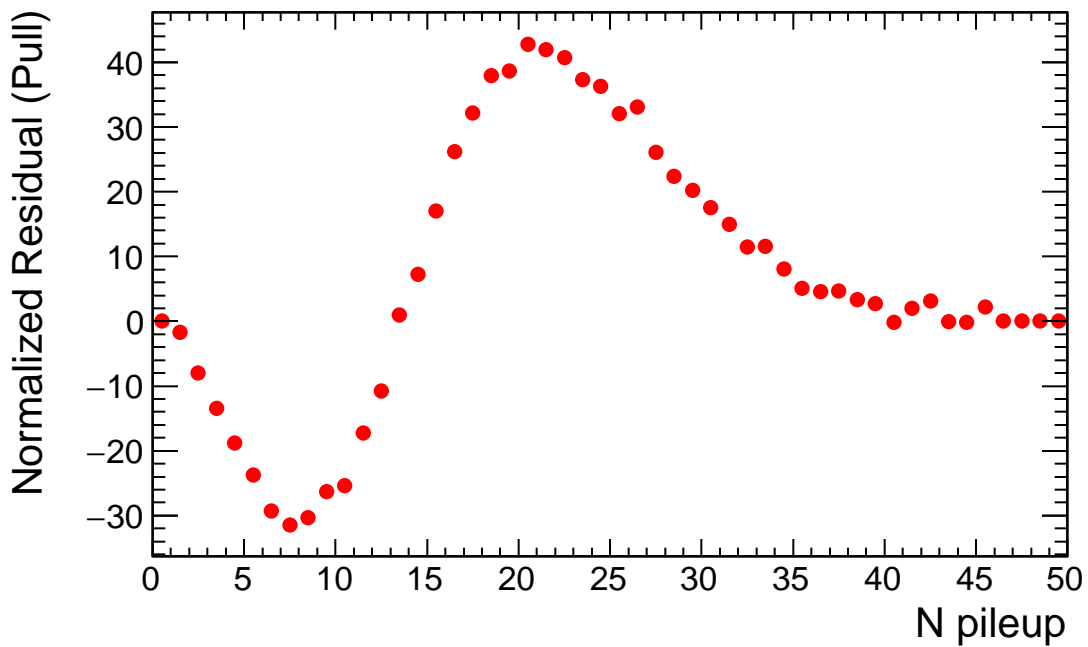nVert: MB xsec=60000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

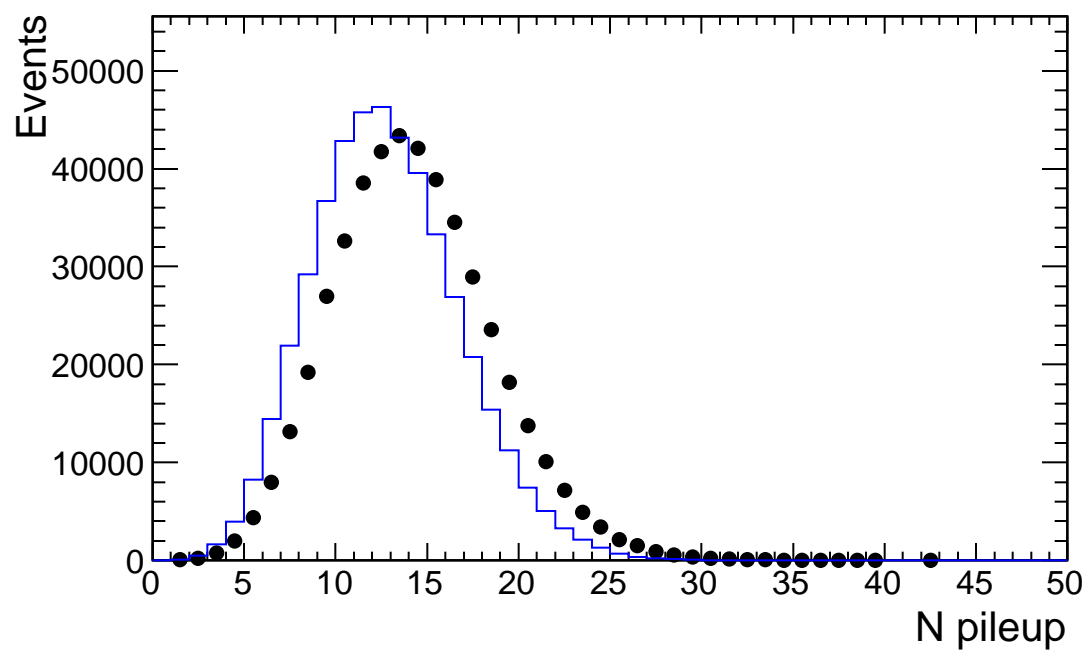Normalized Residual (Pull): MB xsec=60000 ub, Chi2/Ndf=676.289644713, P-value=0.0

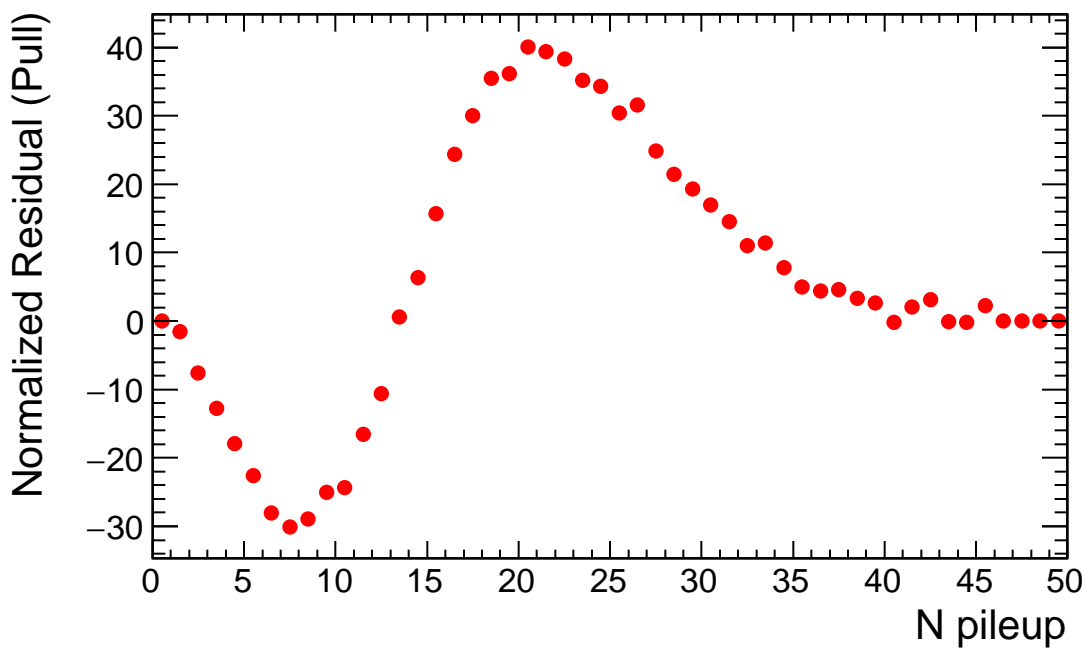nVert: MB xsec=60500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

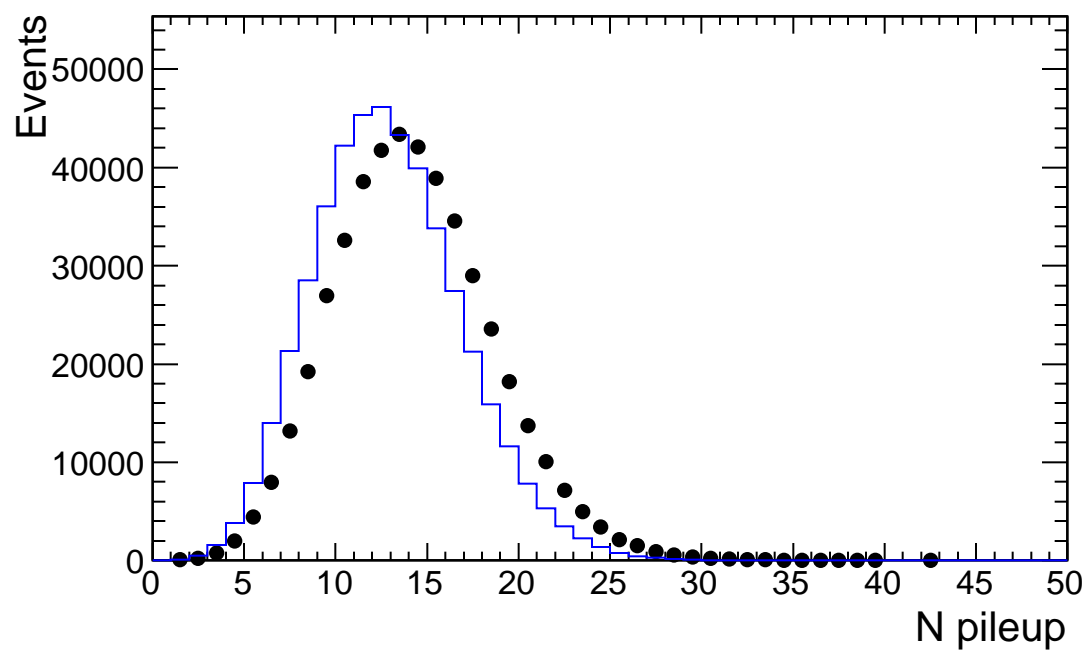Normalized Residual (Pull): MB xsec=60500 ub, Chi2/Ndf=608.988795306, P-value=0.0

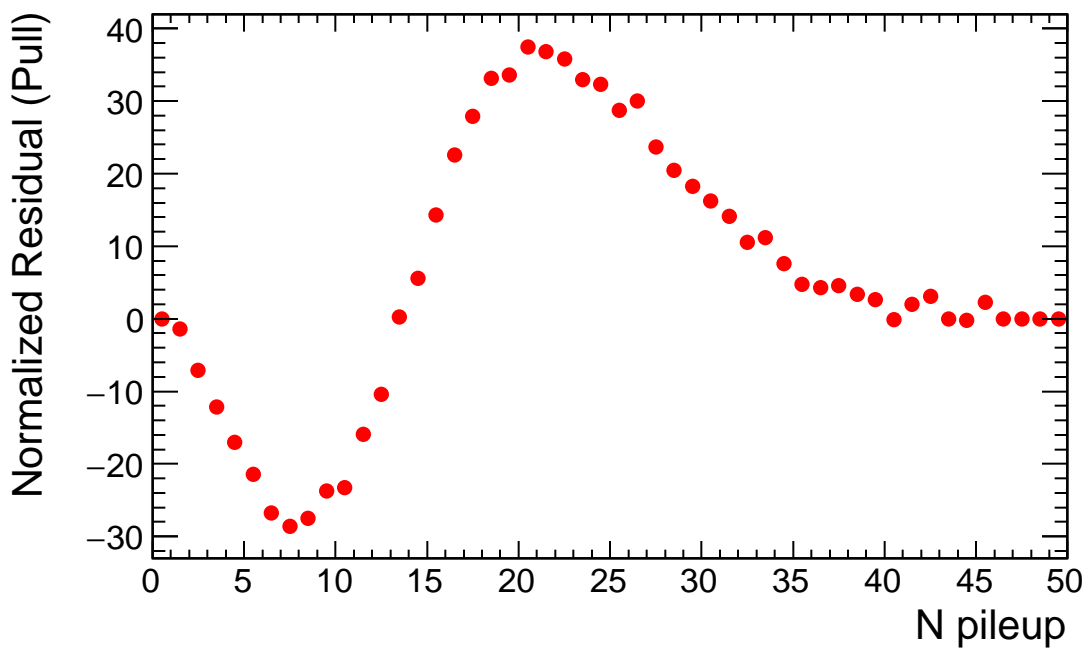# nVert: MB xsec=61000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

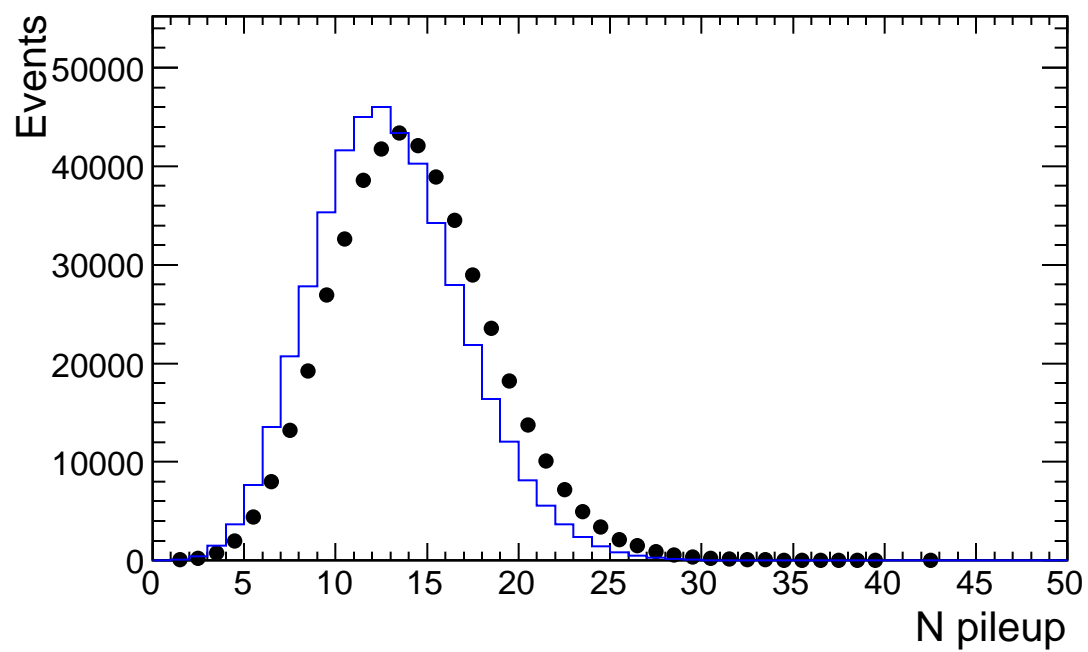Normalized Residual (Pull): MB xsec=61000 ub, Chi2/Ndf=545.70929196, P-value=0.0
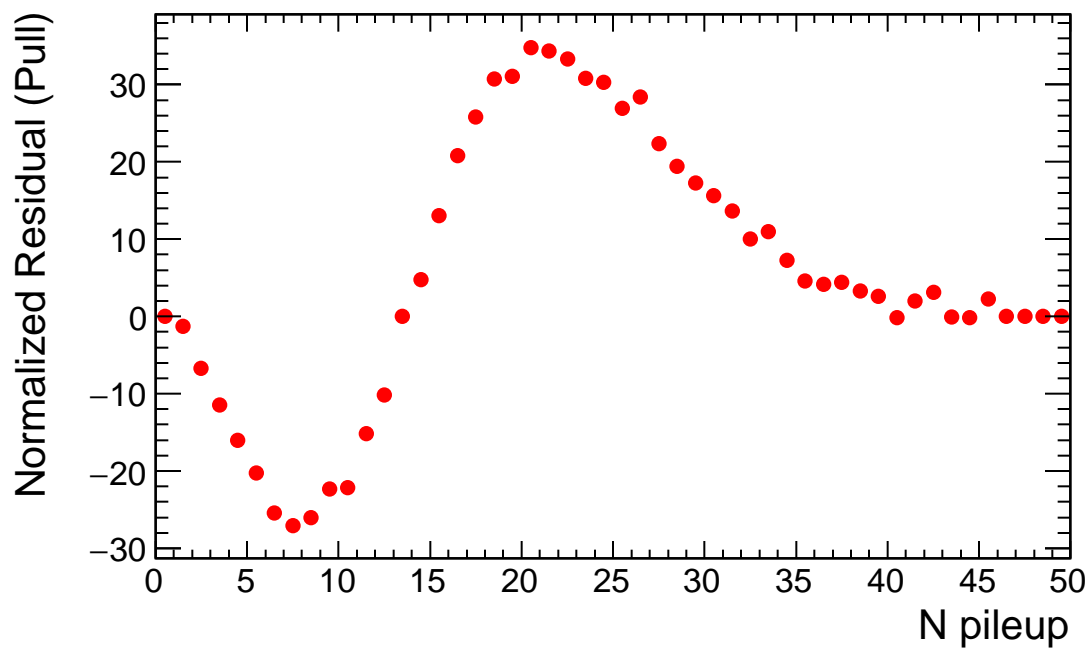
nVert: MB xsec=61500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=61500 ub, Chi2/Ndf=486.367804263, P-value=0.0
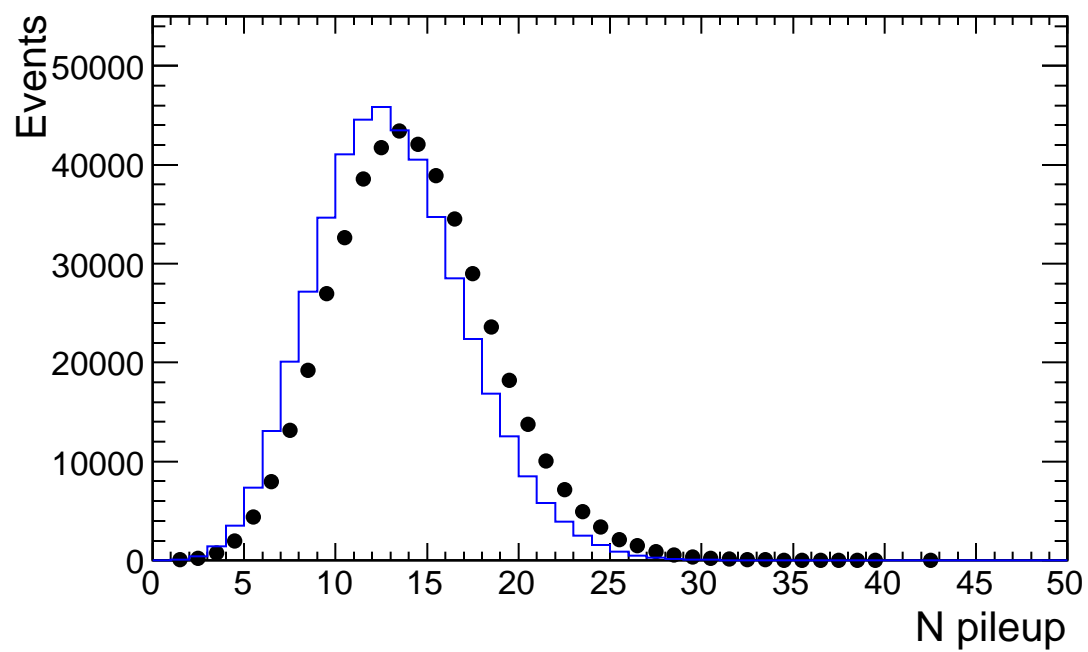
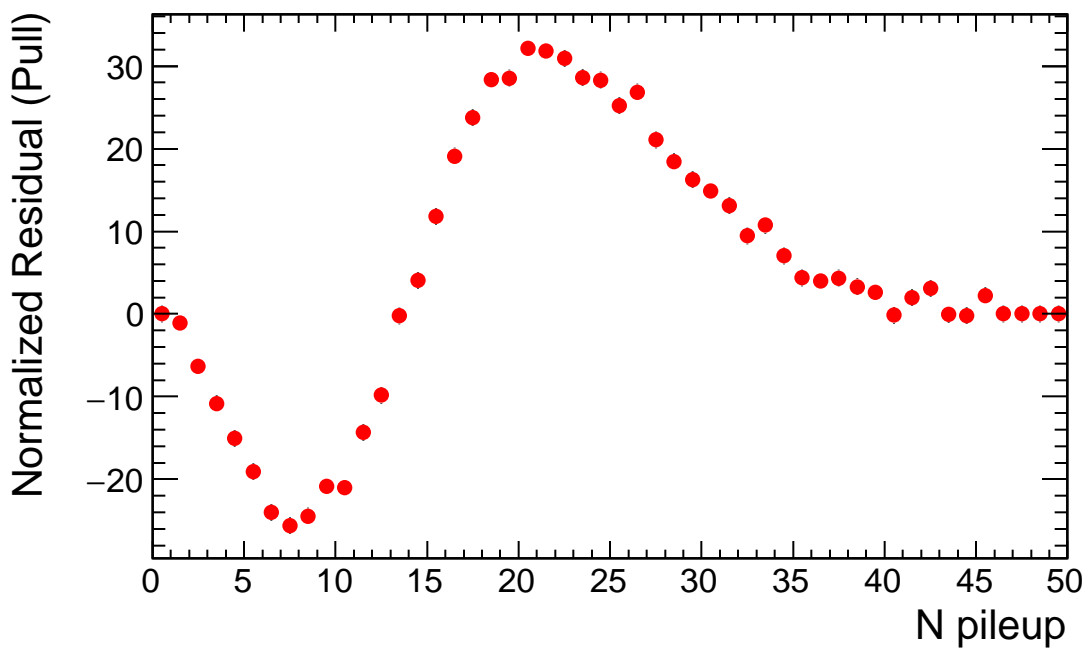**nVert: MB xsec=62000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}**

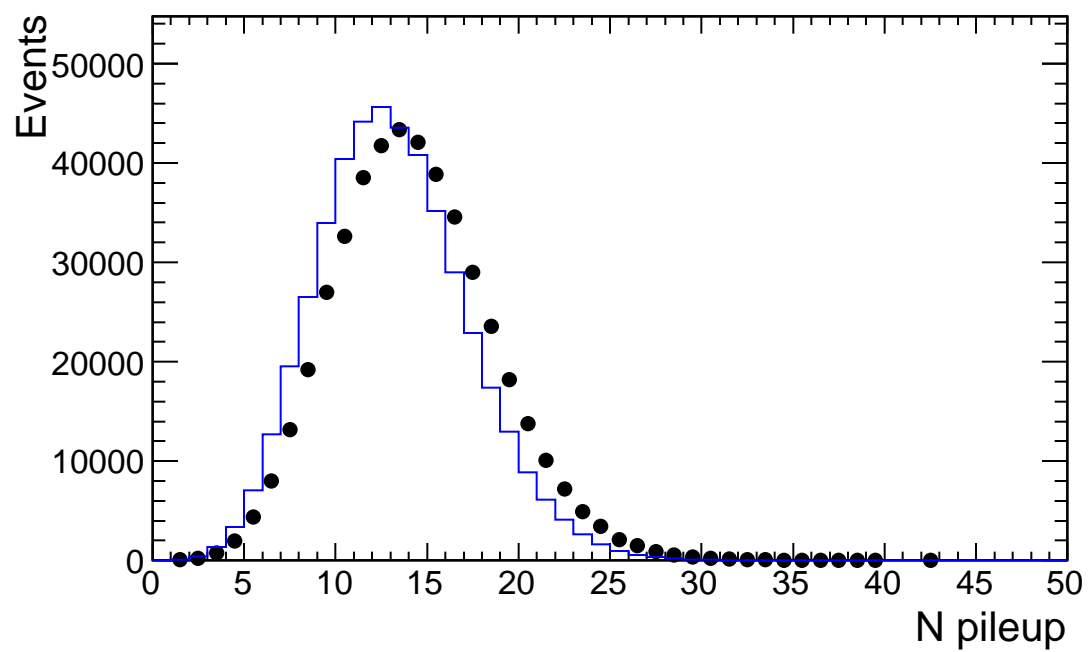**Normalized Residual (Pull): MB xsec=62000 ub, Chi2/Ndf=430.881034043, P-value=0.0**
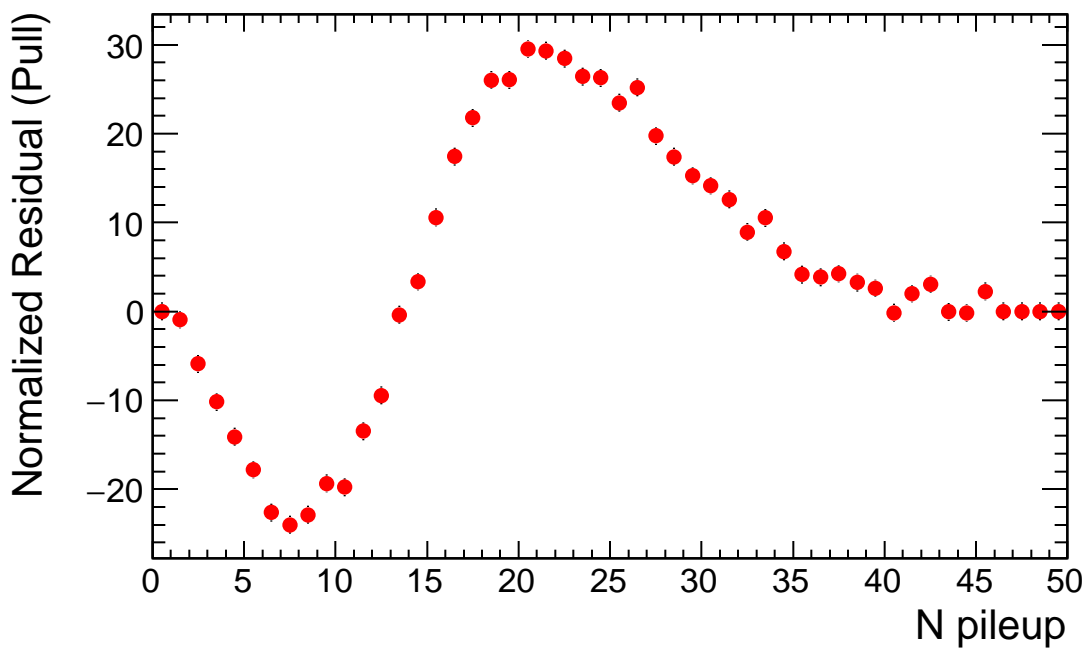
nVert: MB xsec=62500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=62500 ub, Chi2/Ndf=379.167241468, P-value=0.0
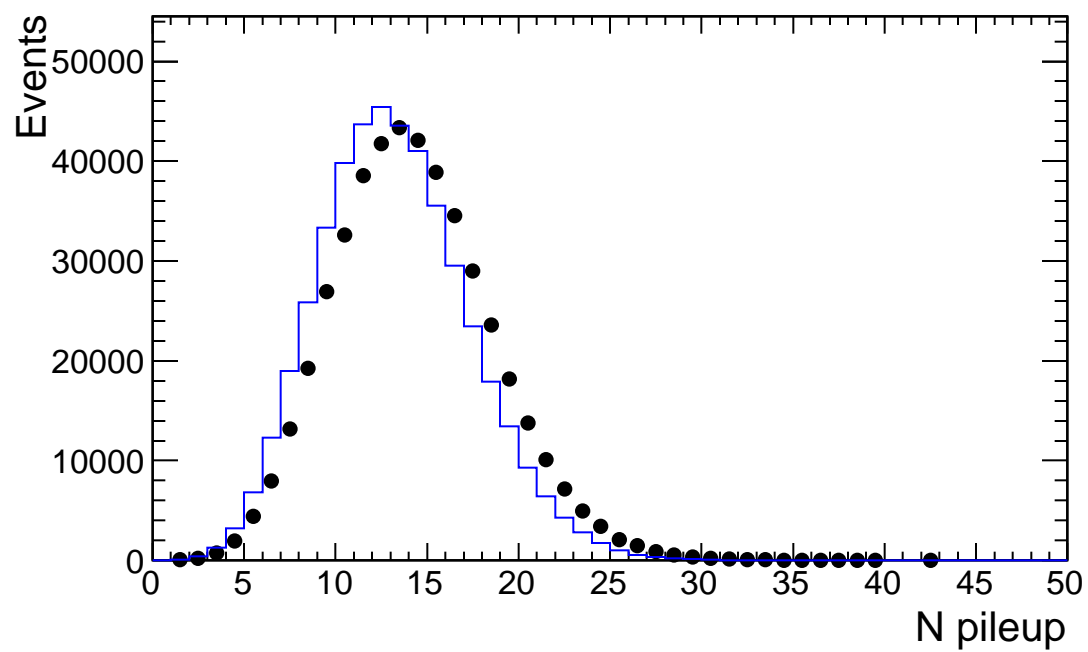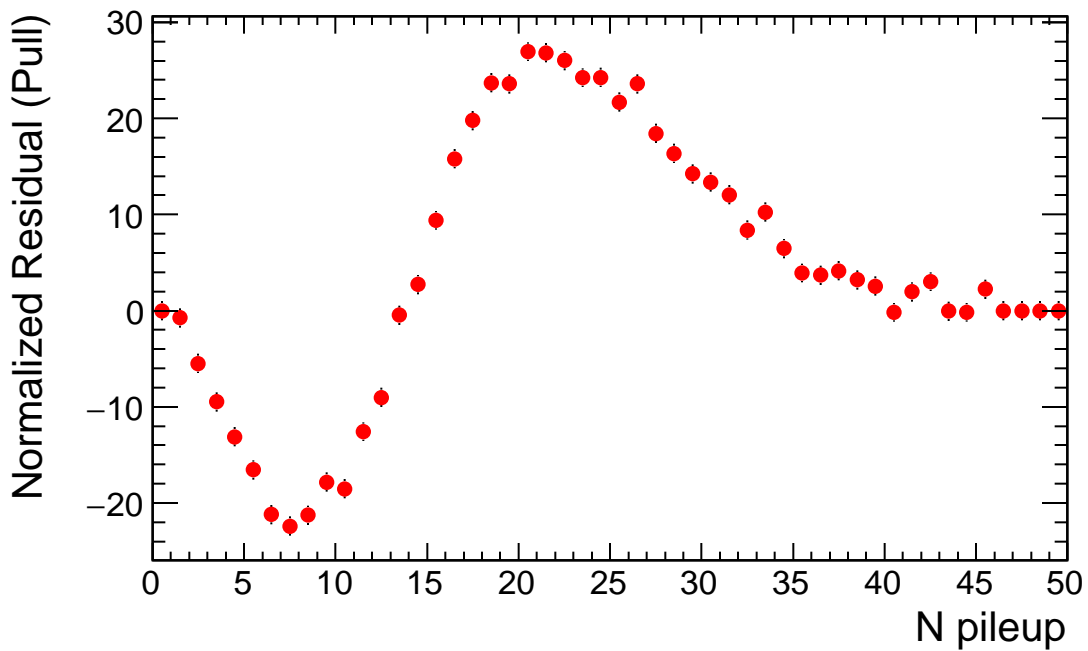
nVert: MB xsec=63000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

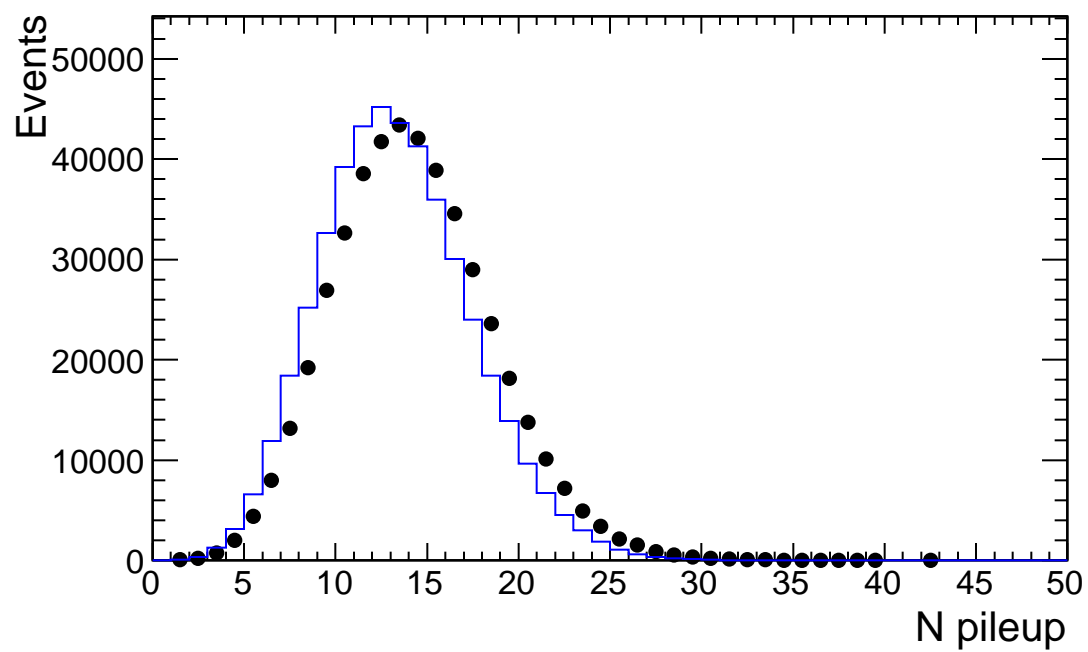### Normalized Residual (Pull): MB xsec=63000 ub, Chi2/Ndf=331.147722509, P-value=0.0
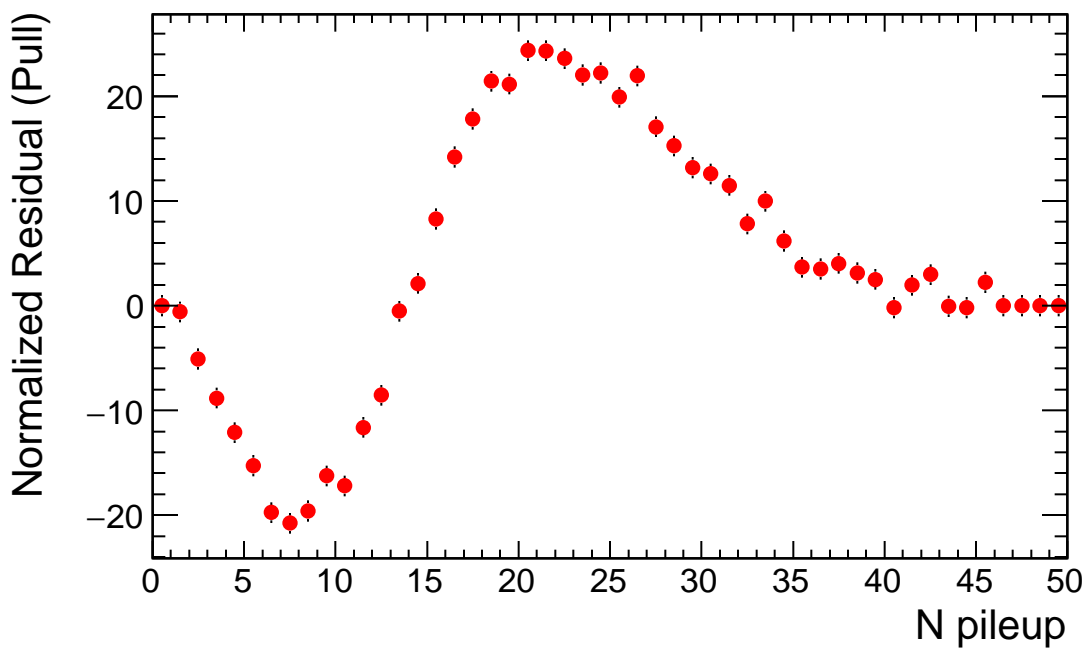
nVert: MB xsec=63500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

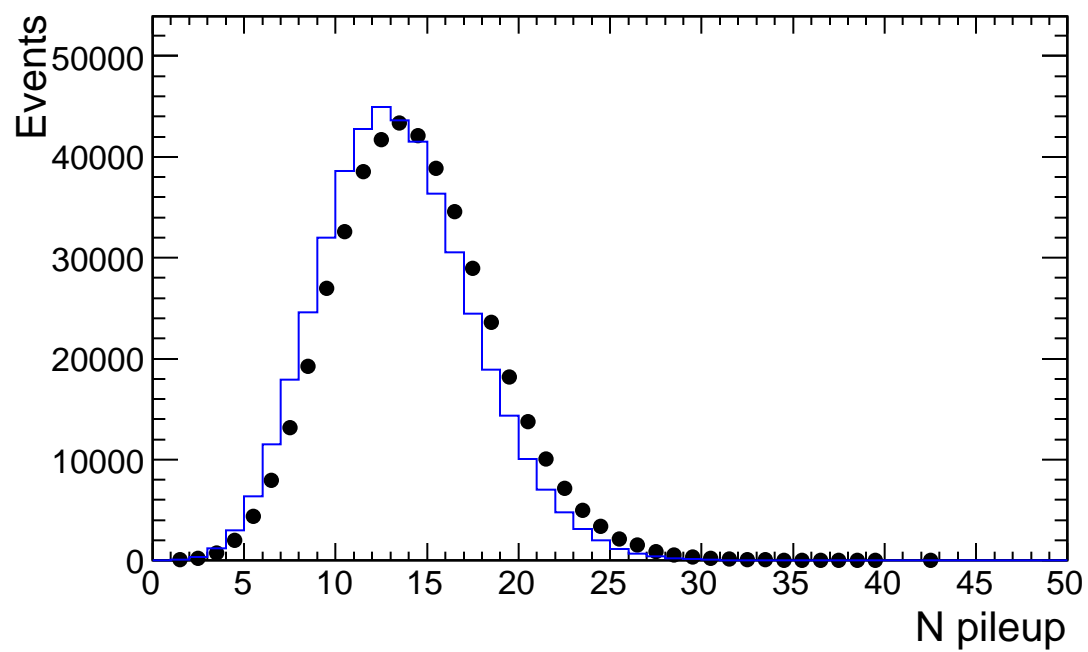**Normalized Residual (Pull): MB xsec=63500 ub, Chi2/Ndf=286.747875471, P-value=0.0**
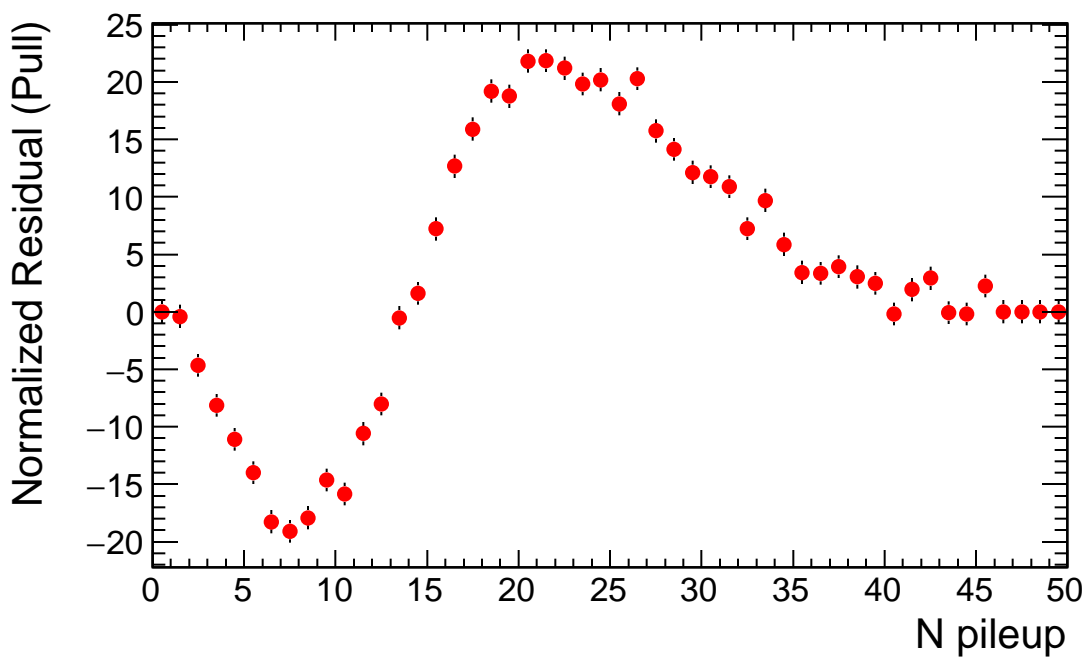
nVert: MB xsec=64000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=64000 ub, Chi2/Ndf=245.898060089, P-value=0.0

nVert: MB xsec=64500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=64500 ub, Chi2/Ndf=208.534450739, P-value=0.0

nVert: MB xsec=65000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=65000 ub, Chi2/Ndf=174.600404606, P-value=0.0
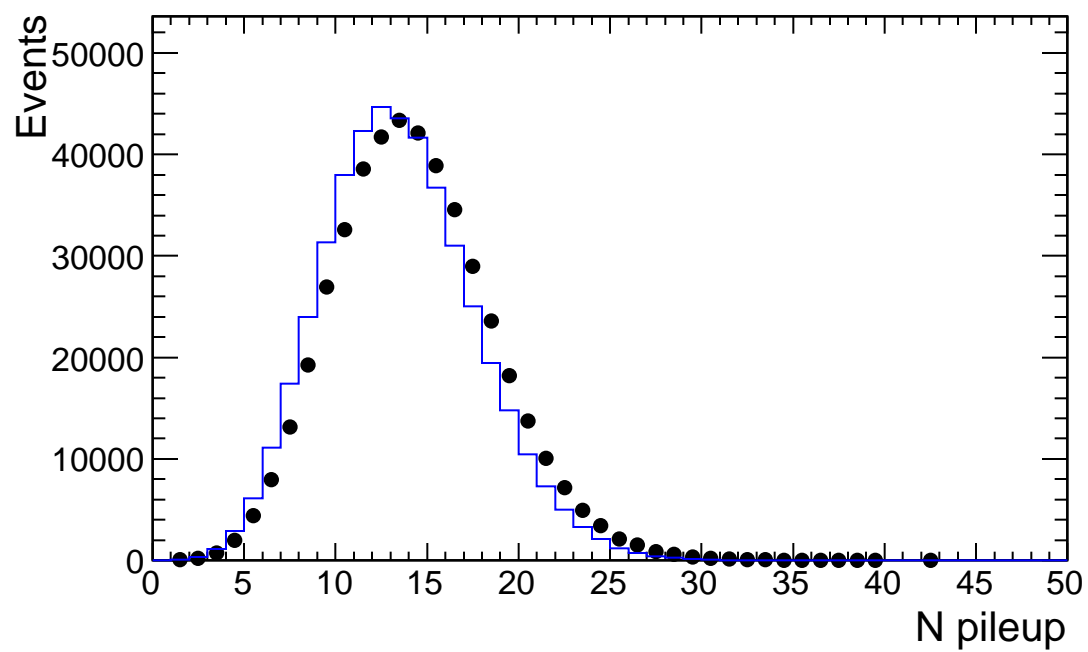
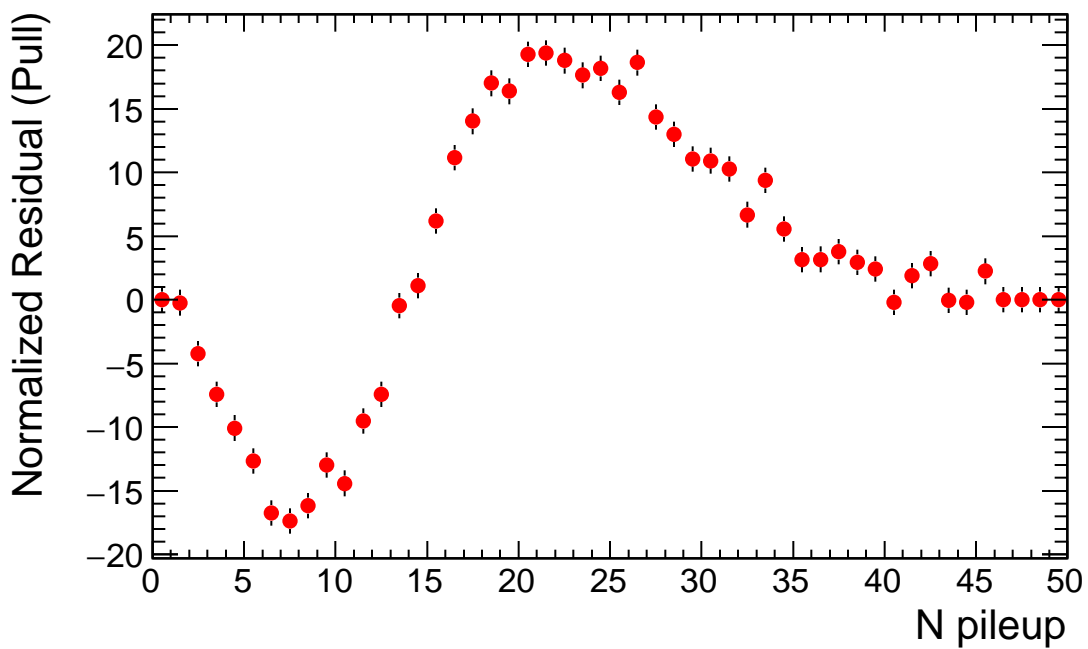# nVert: MB xsec=65500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=65500 ub, Chi2/Ndf=144.048424986, P-value=0.0

nVert: MB xsec=66000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=66000 ub, Chi2/Ndf=116.842552336, P-value=0.0

nVert: MB xsec=66500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

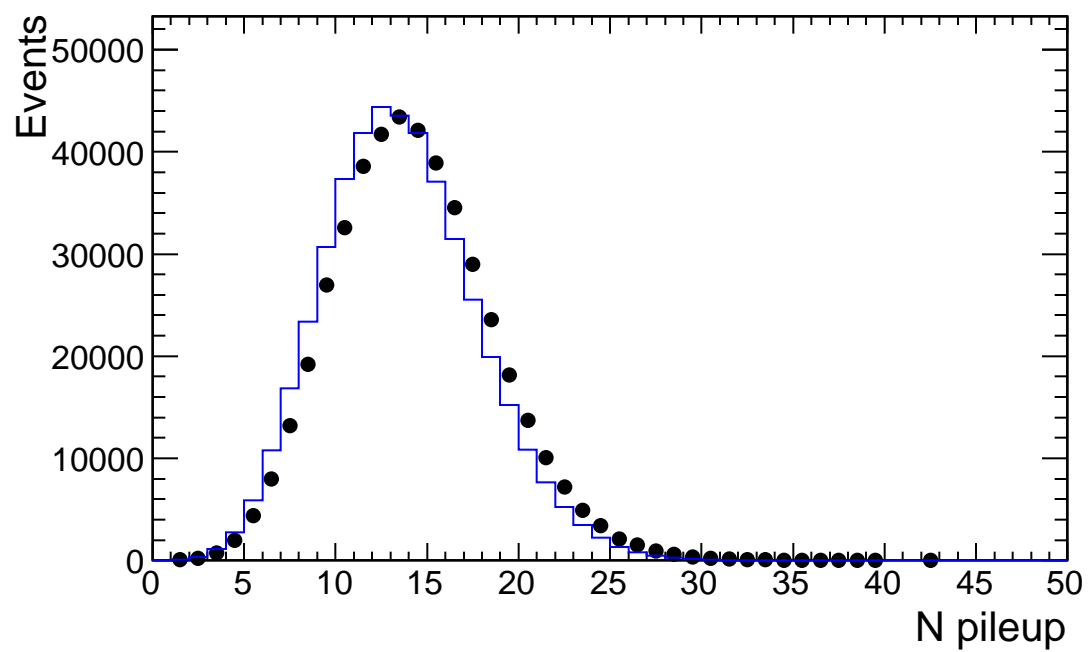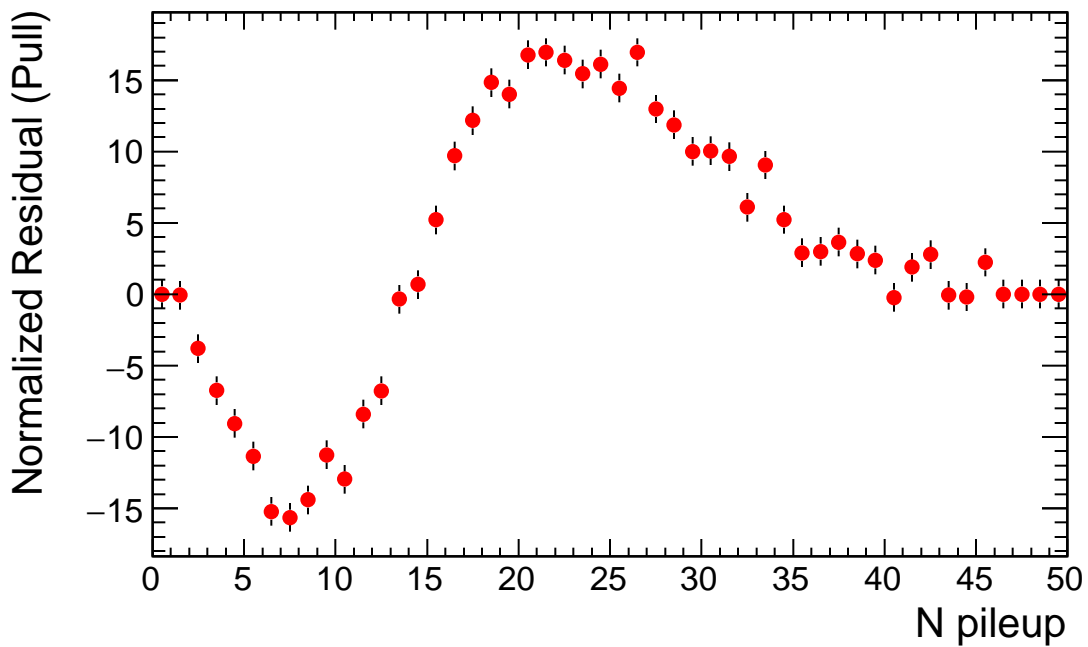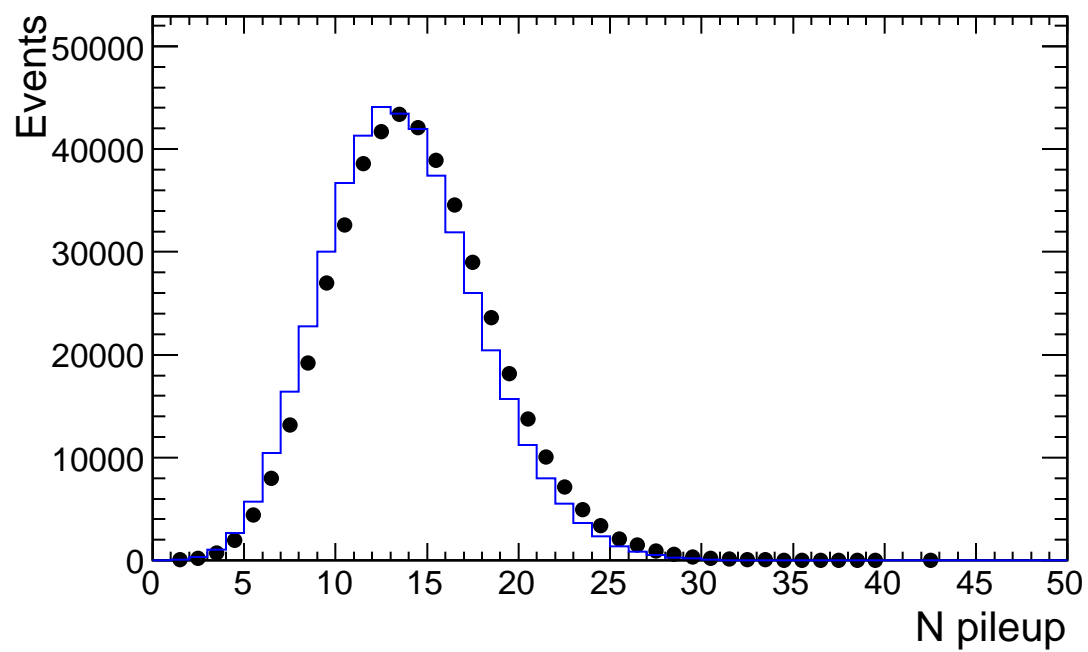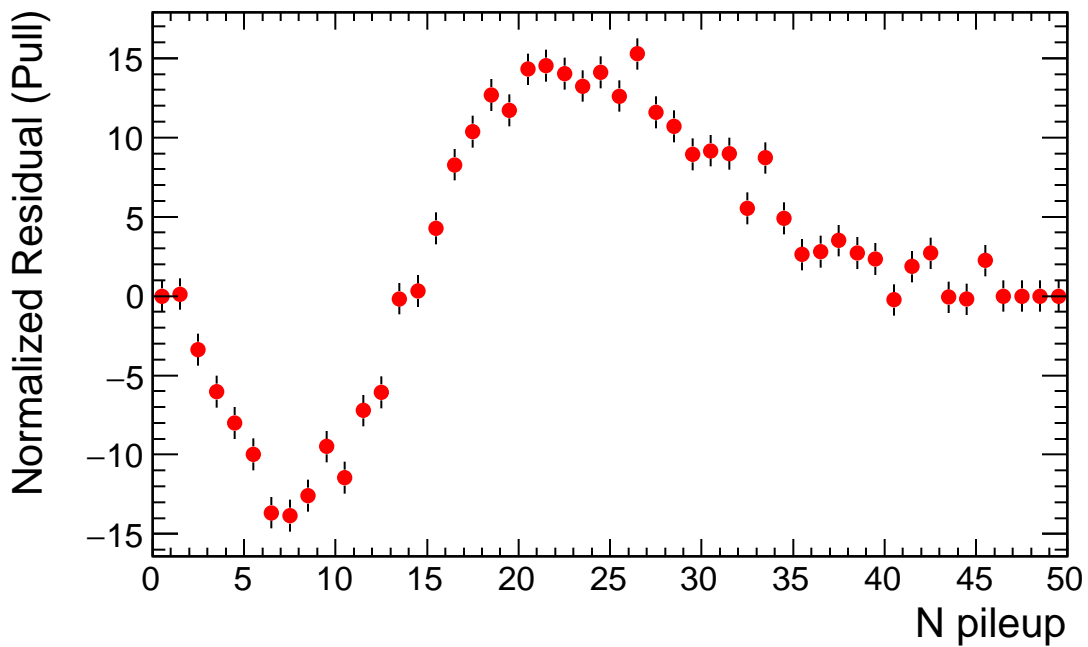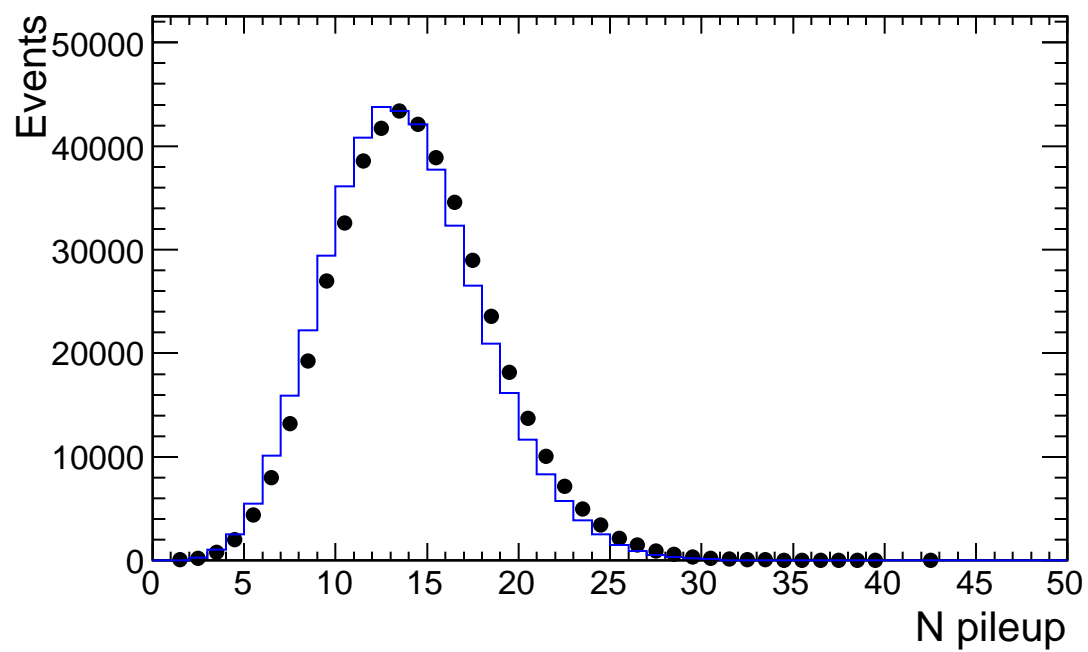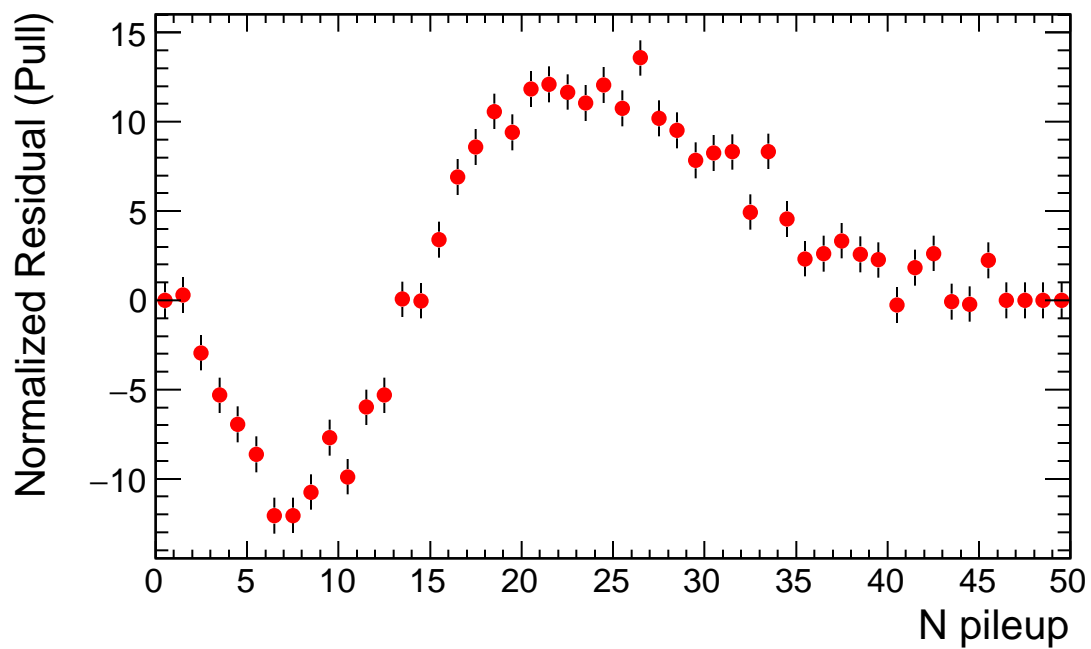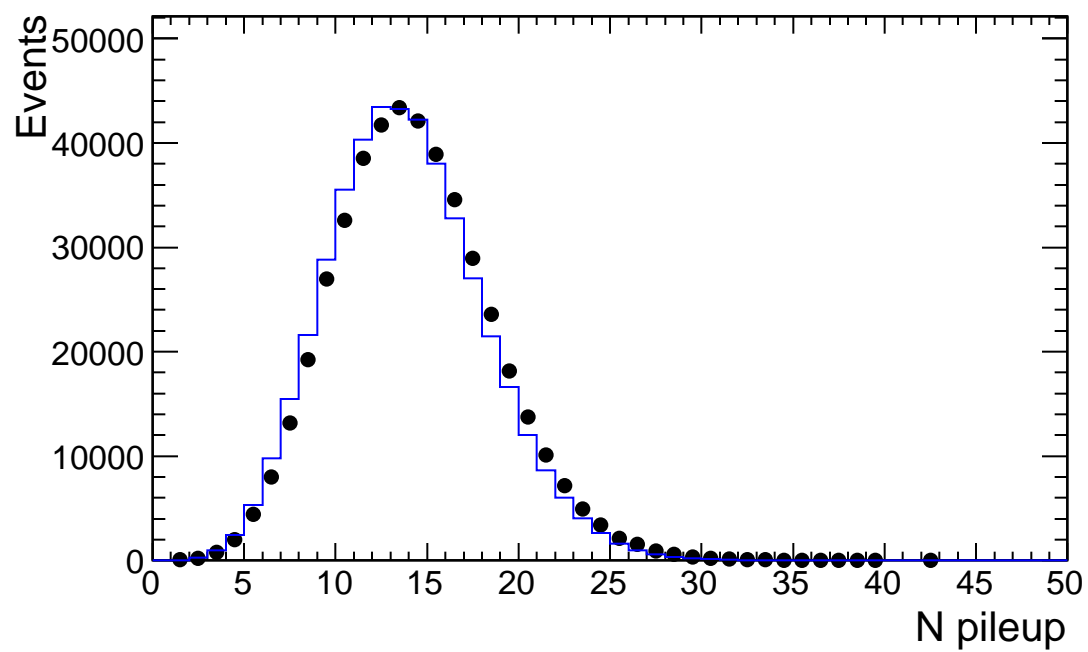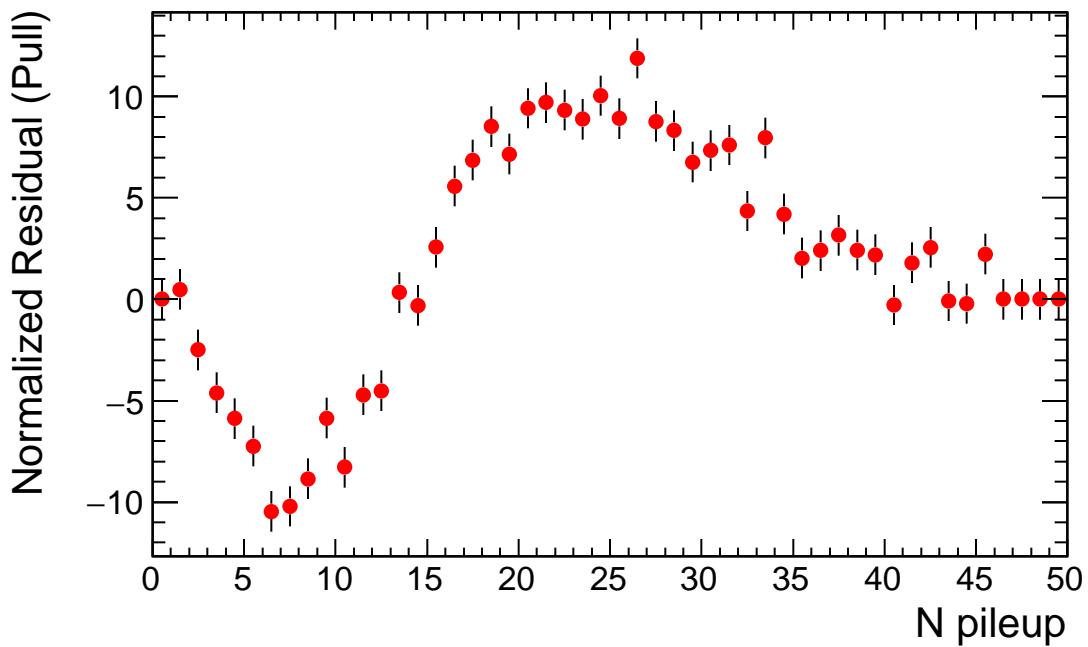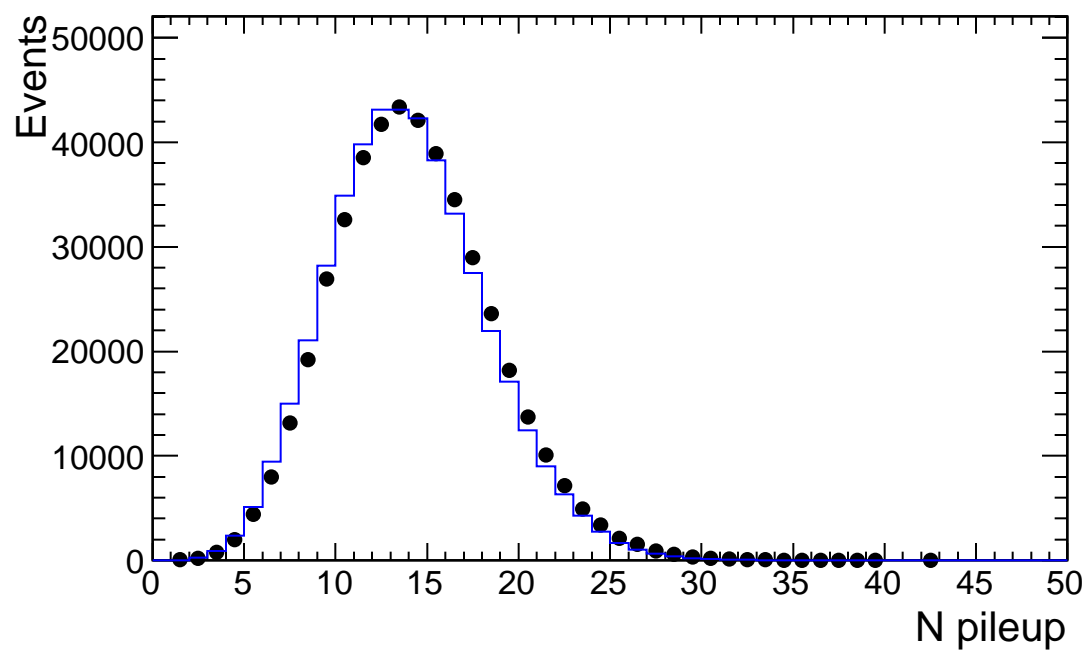Normalized Residual (Pull): MB xsec=66500 ub, Chi2/Ndf=92.96114751, P-value=0.0

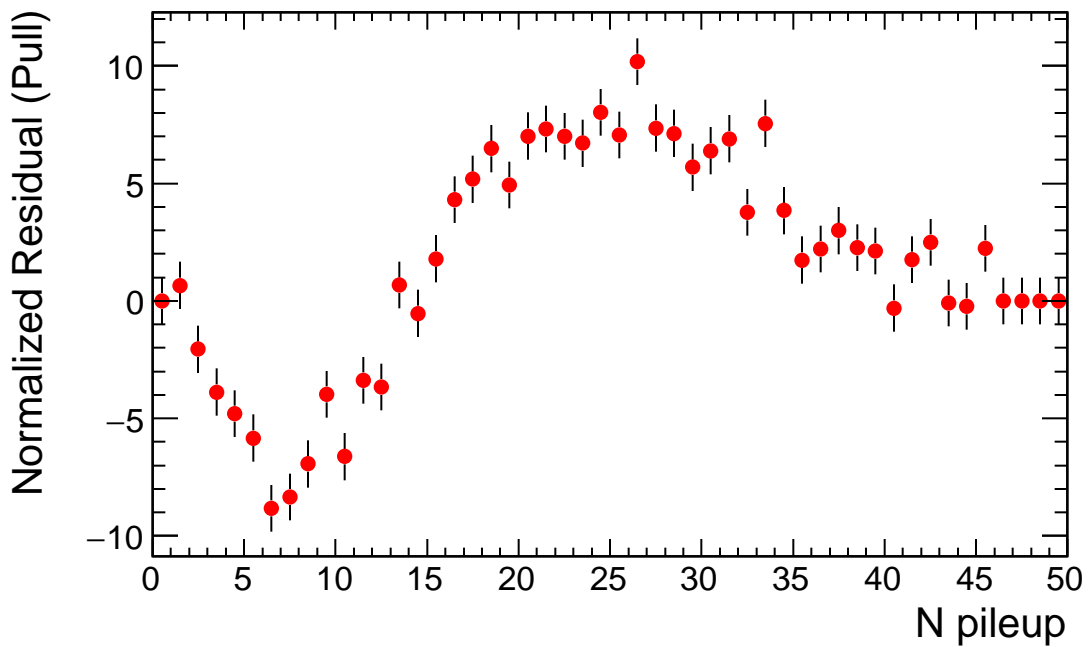nVert: MB xsec=67000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

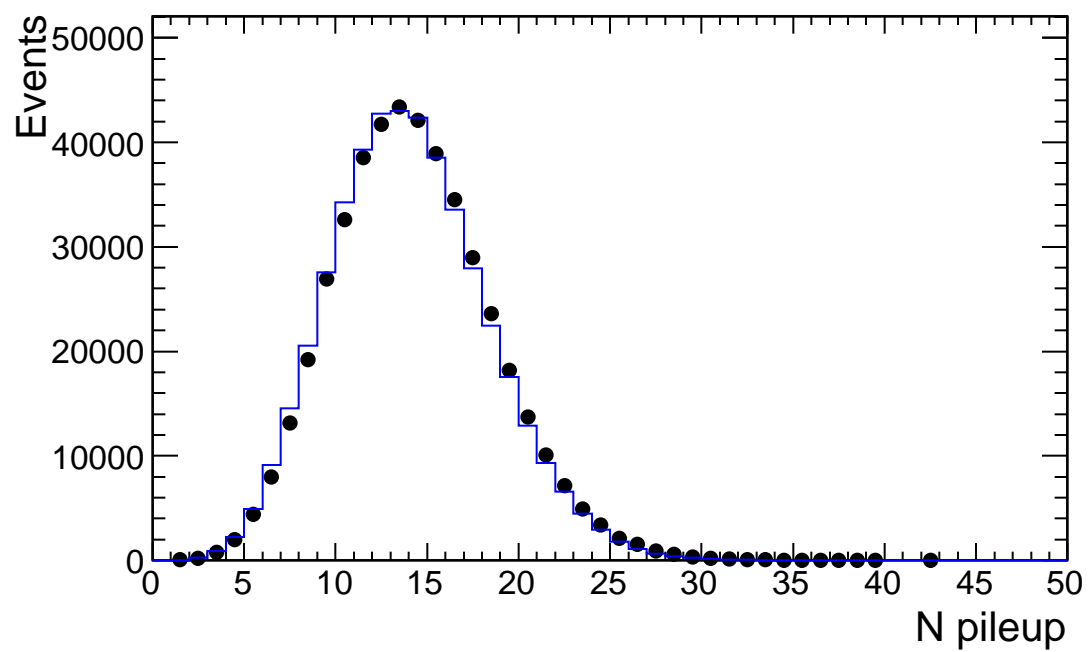Normalized Residual (Pull): MB xsec=67000 ub, Chi2/Ndf=72.3995572837, P-value=0.0

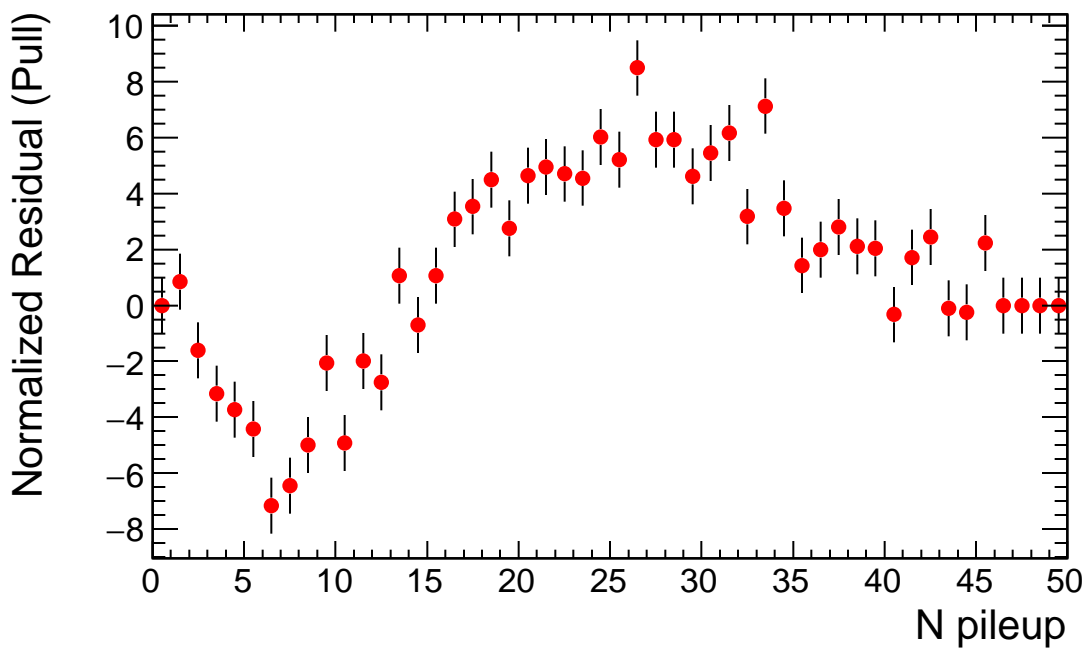nVert: MB xsec=67500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=67500 ub, Chi2/Ndf=55.1718591846, P-value=0.0
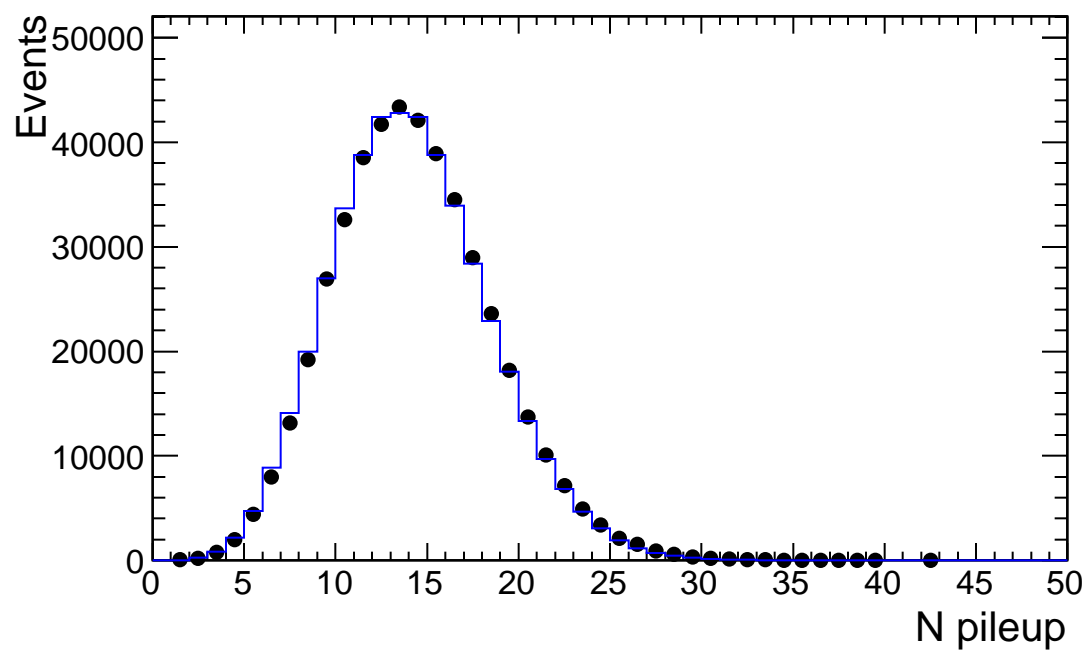
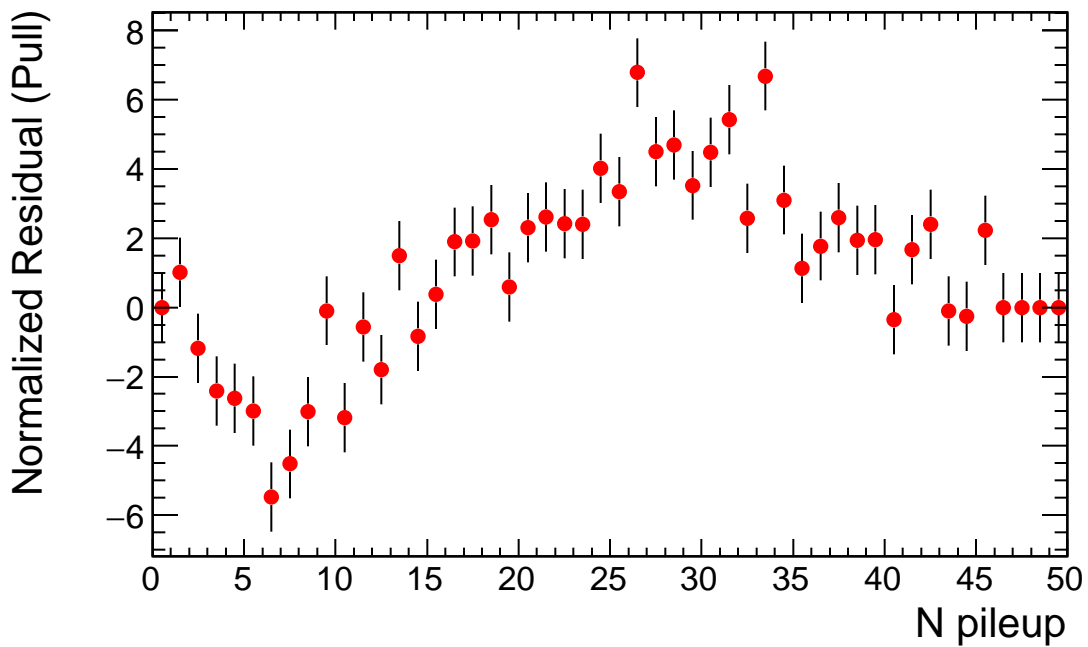**nVert: MB xsec=68000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}**

Normalized Residual (Pull): MB xsec=68000 ub, Chi2/Ndf=41.3103785154, P-value=0.0
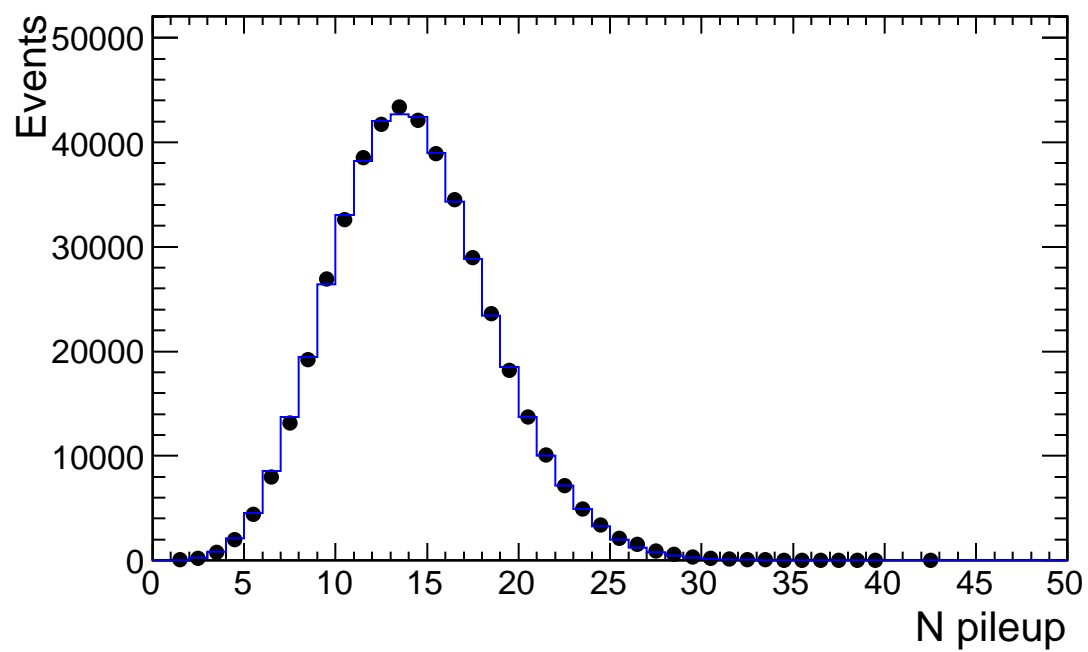
nVert: MB xsec=68500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

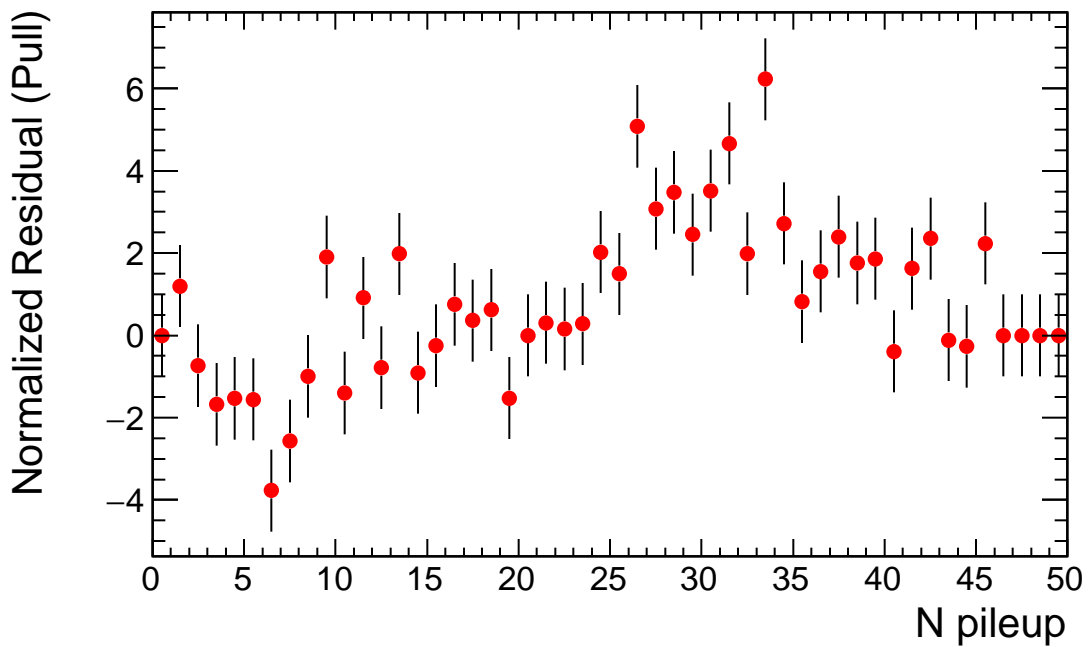
Normalized Residual (Pull): MB xsec=68500 ub, Chi2/Ndf=30.8619412118, P-value=8.02208278346e-256
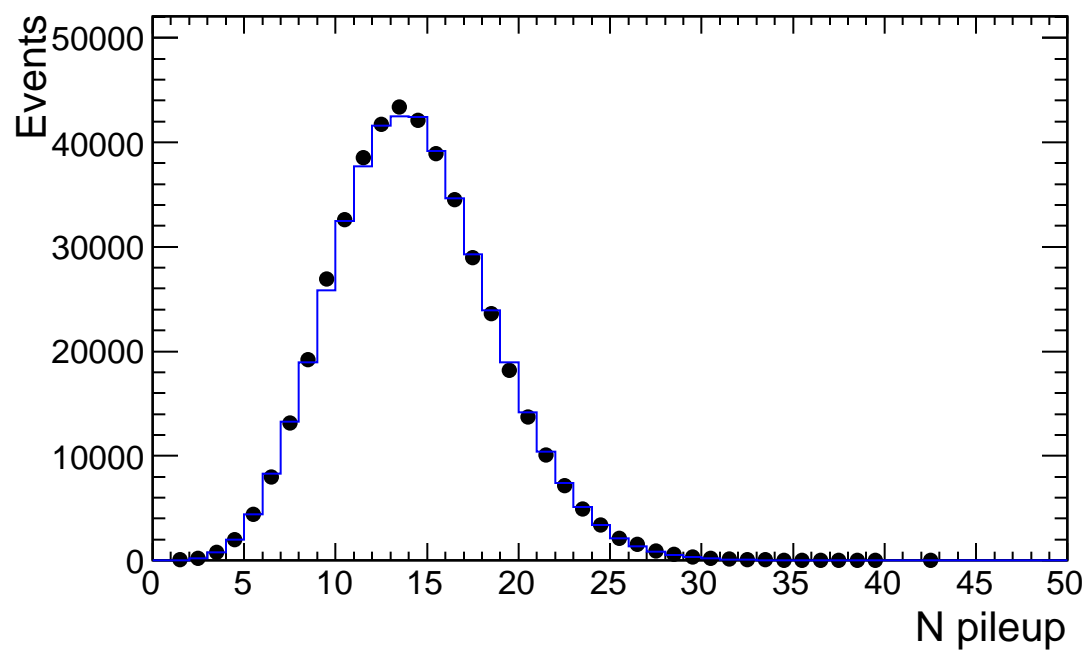
nVert: MB xsec=69000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

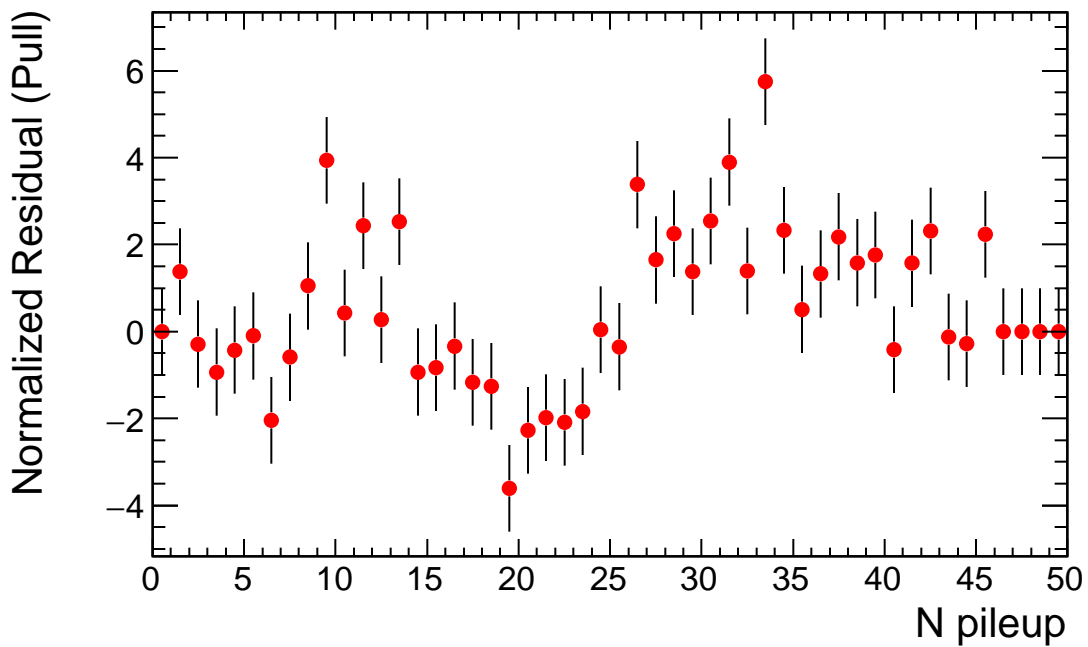
Normalized Residual (Pull): MB xsec=69000 ub, Chi2/Ndf=23.8807628623, P-value=1.86632307938e-191
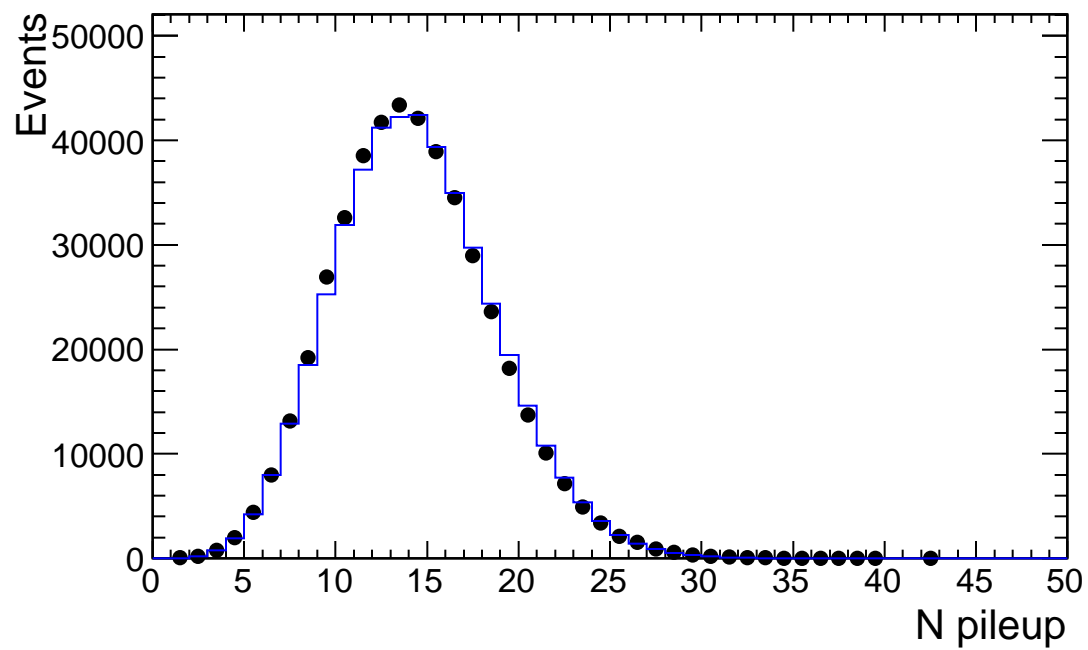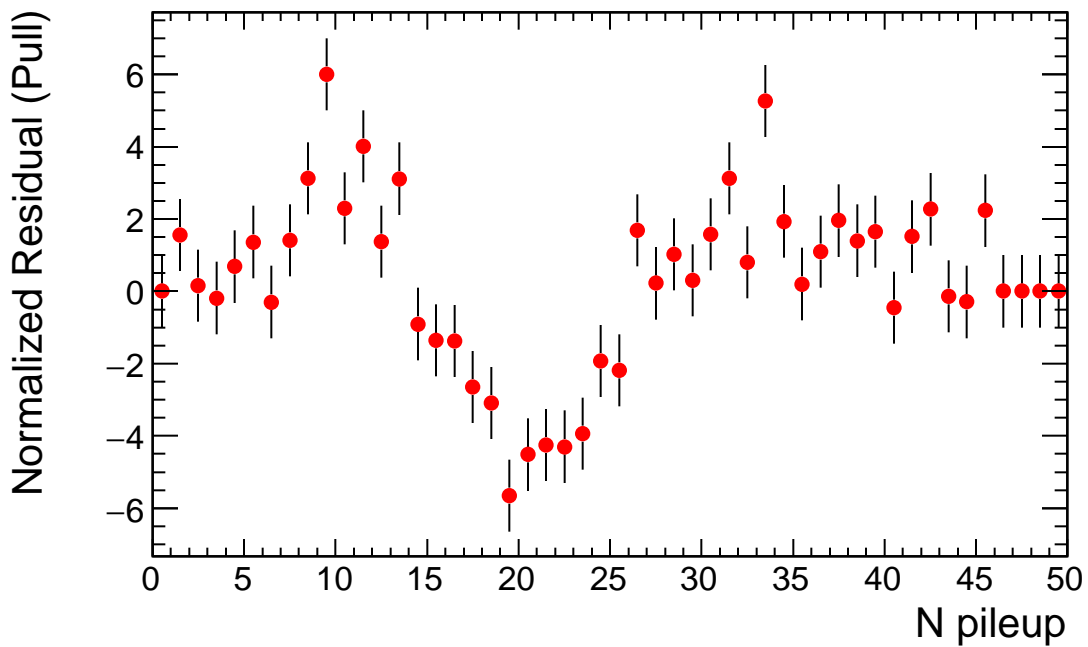
nVert: MB xsec=69500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=69500 ub, Chi2/Ndf=20.4192604913, P-value=8.29330475096e-160
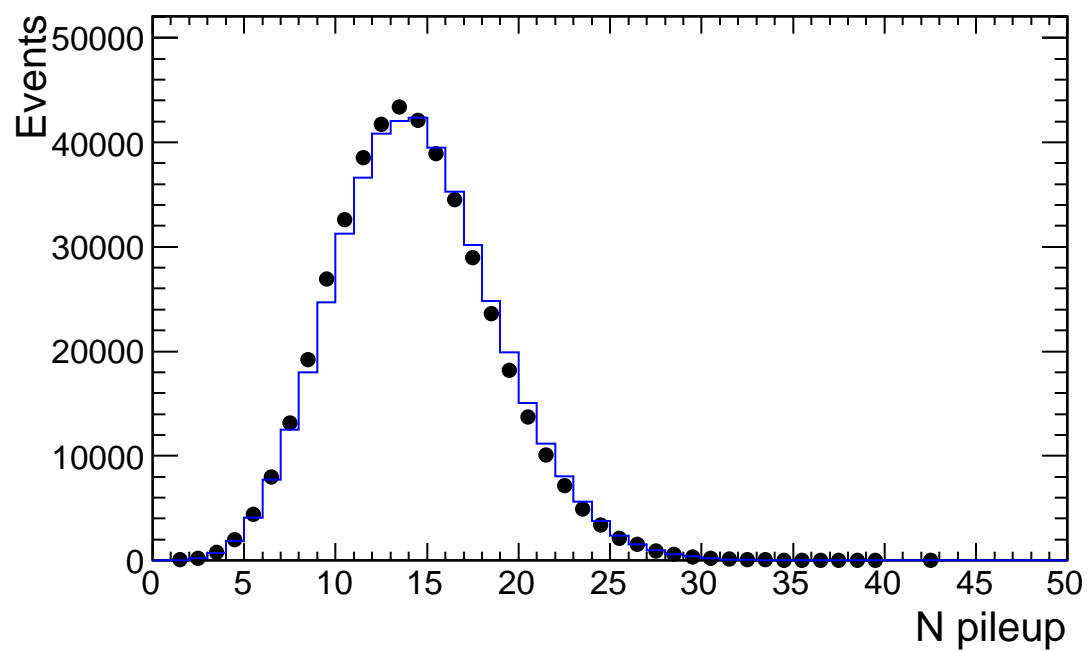
nVert: MB xsec=70000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

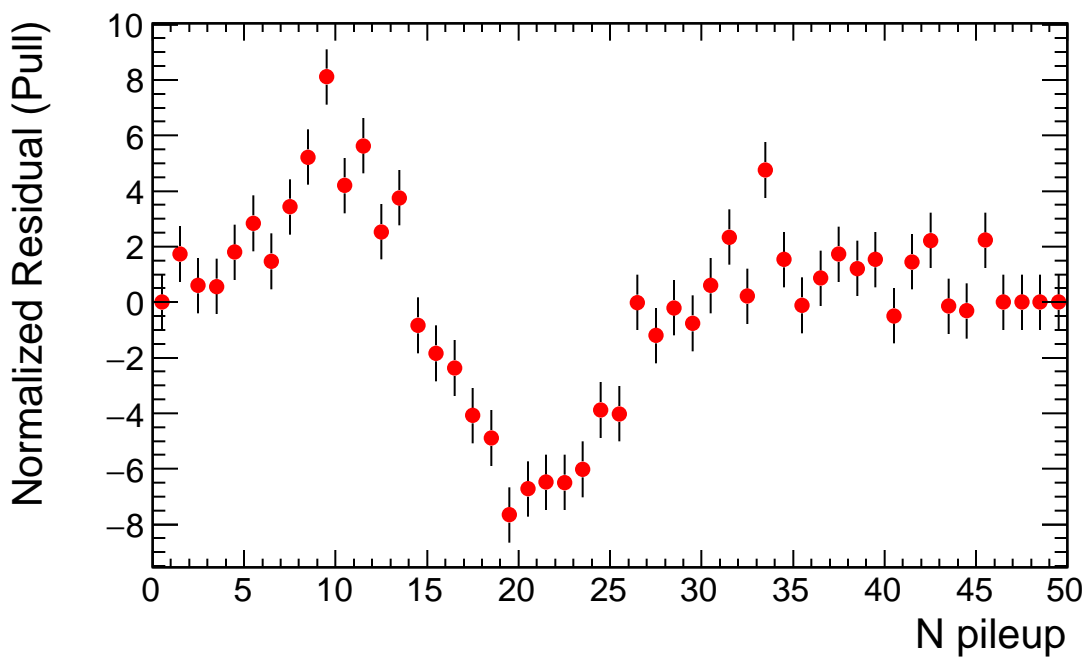
Normalized Residual (Pull): MB xsec=70000 ub, Chi2/Ndf=20.5191370094, P-value=1.02060369617e-160
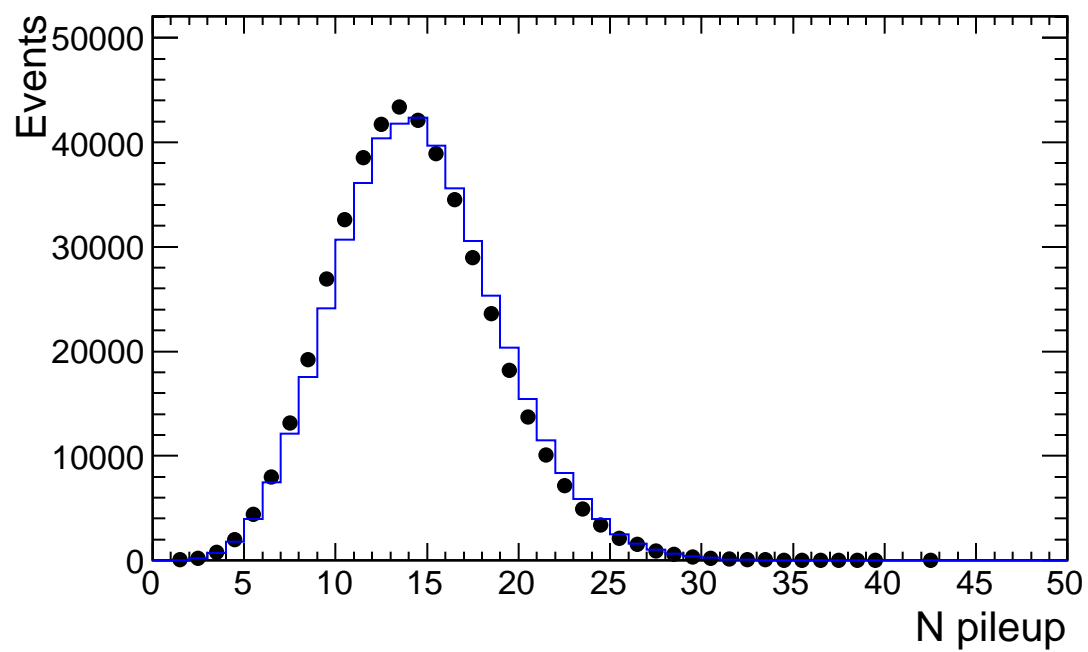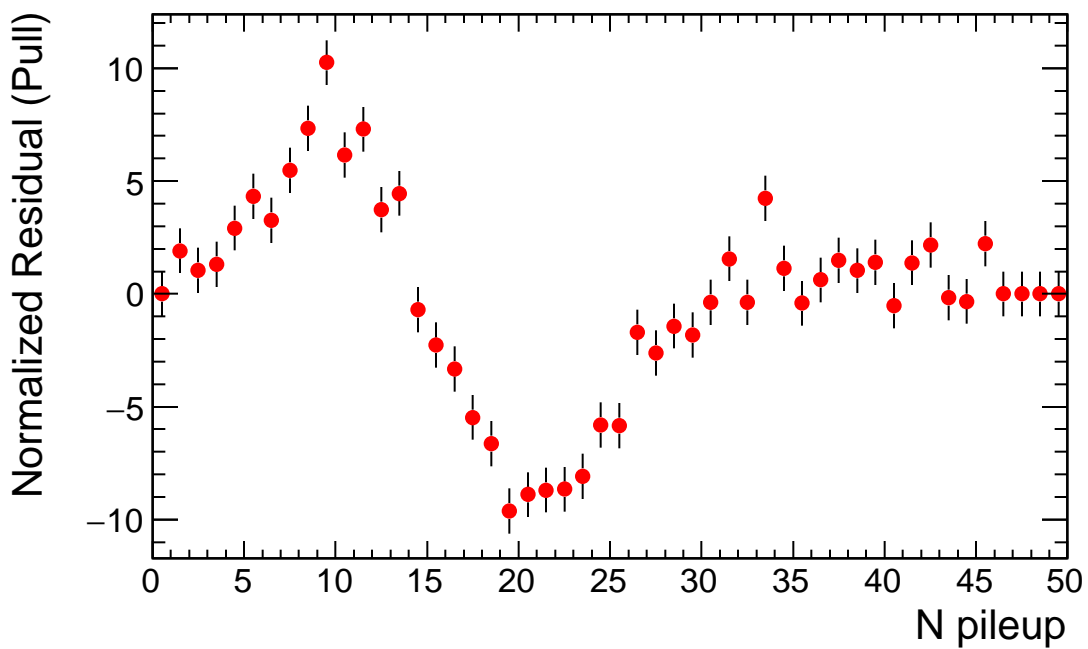
nVert: MB xsec=70500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=70500 ub, Chi2/Ndf=24.2050332995, P-value=1.97477645721e-194
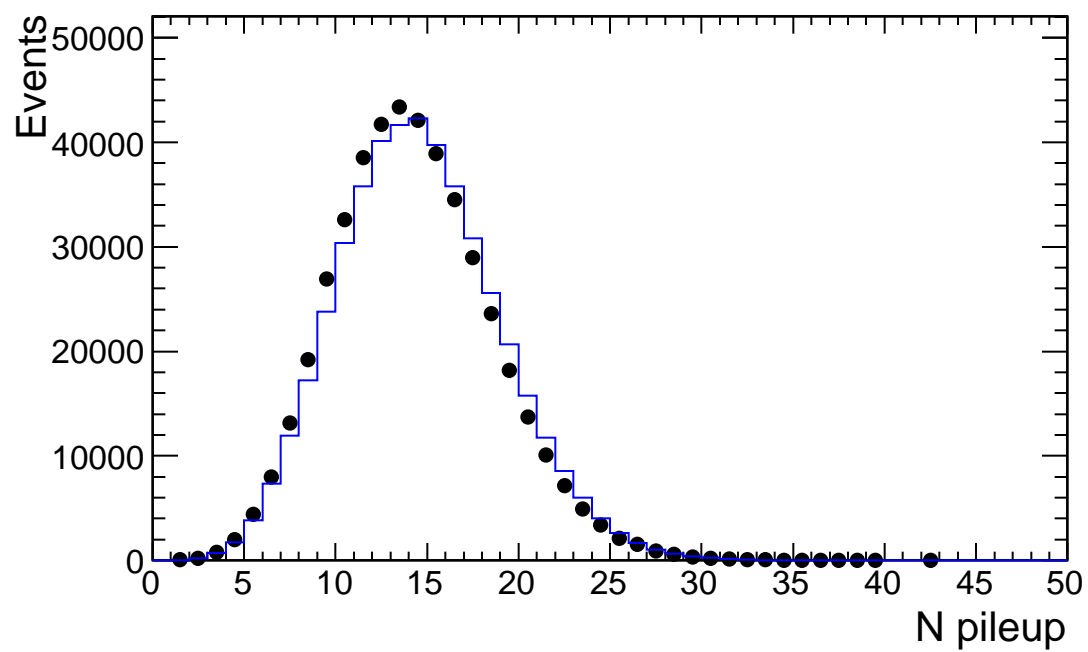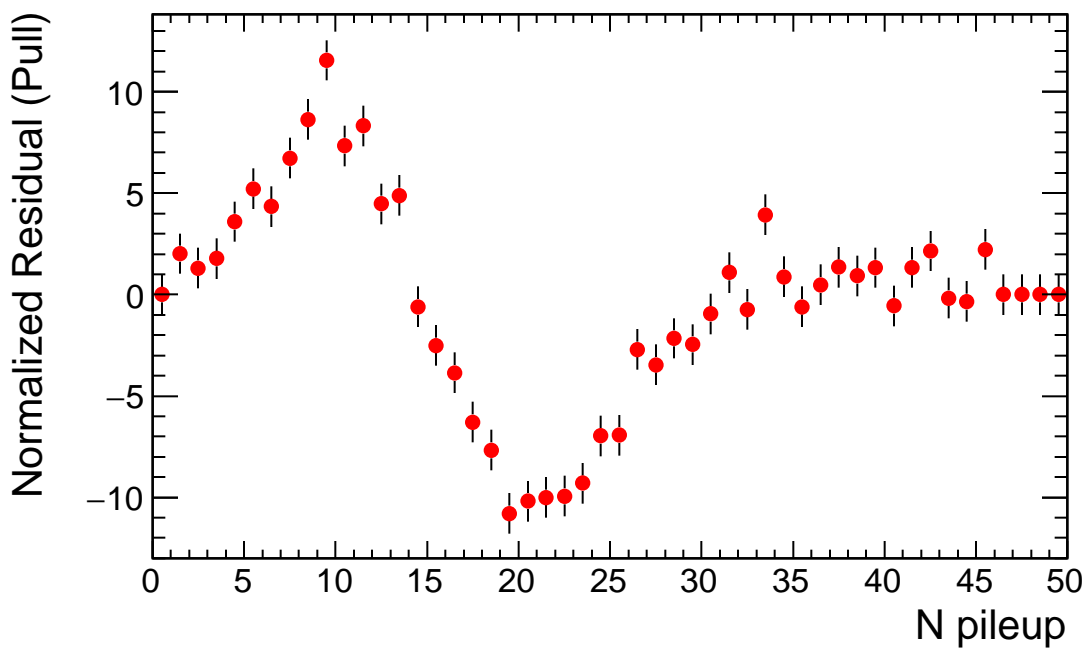
nVert: MB xsec=71000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=71000 ub, Chi2/Ndf=31.4819425506, P-value=1.45087331454e-261
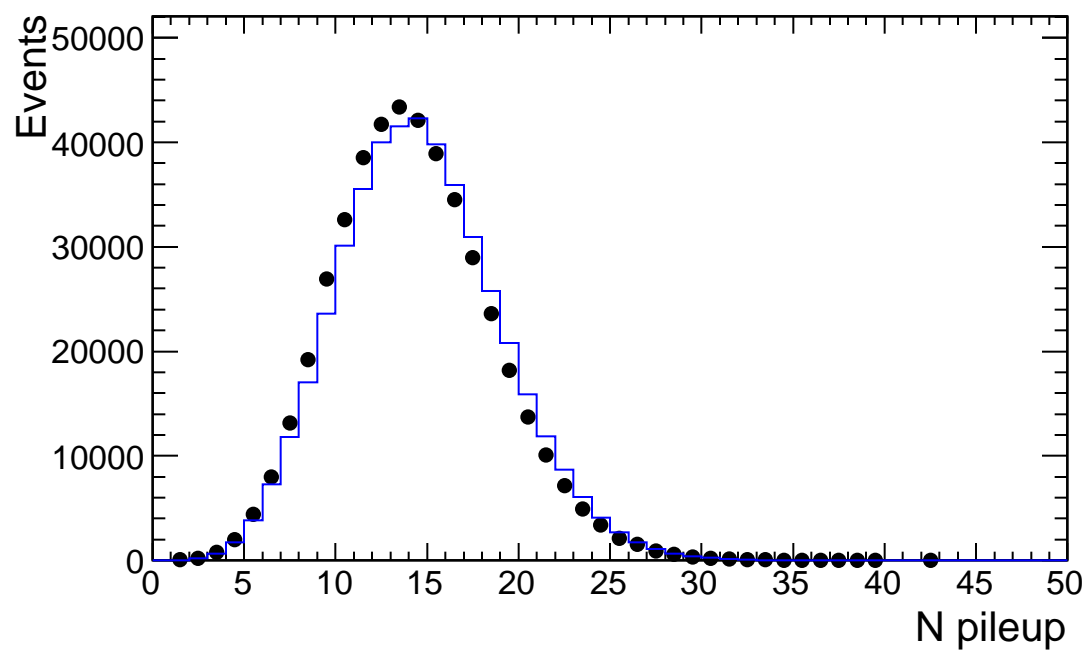
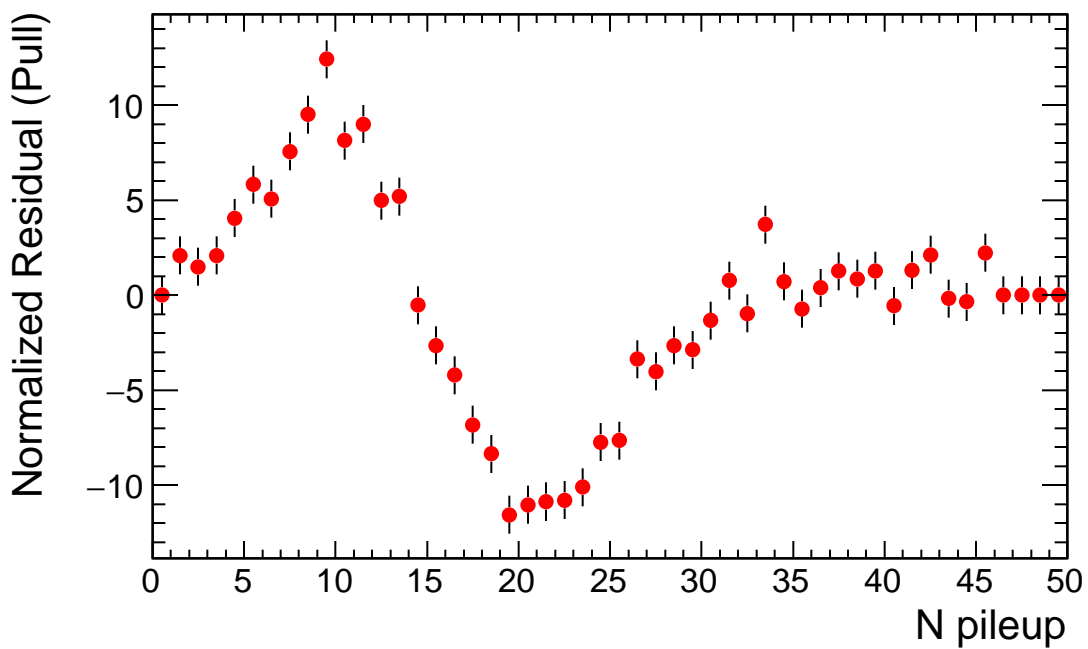# nVert: MB xsec=71300 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=71300 ub, Chi2/Ndf=37.5667762465, P-value=0.0
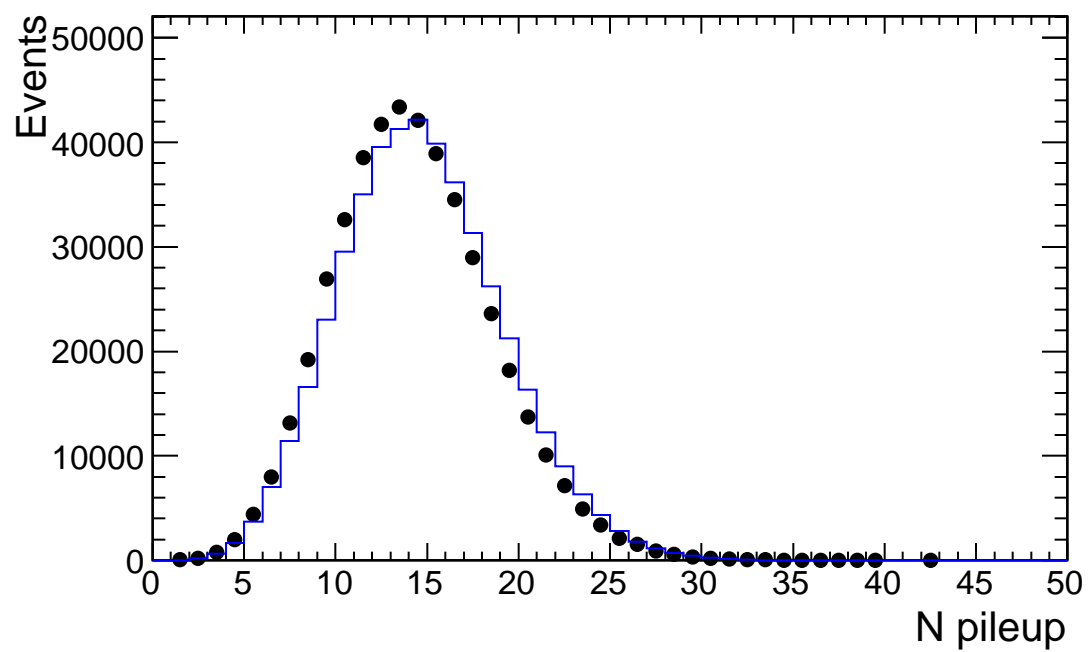
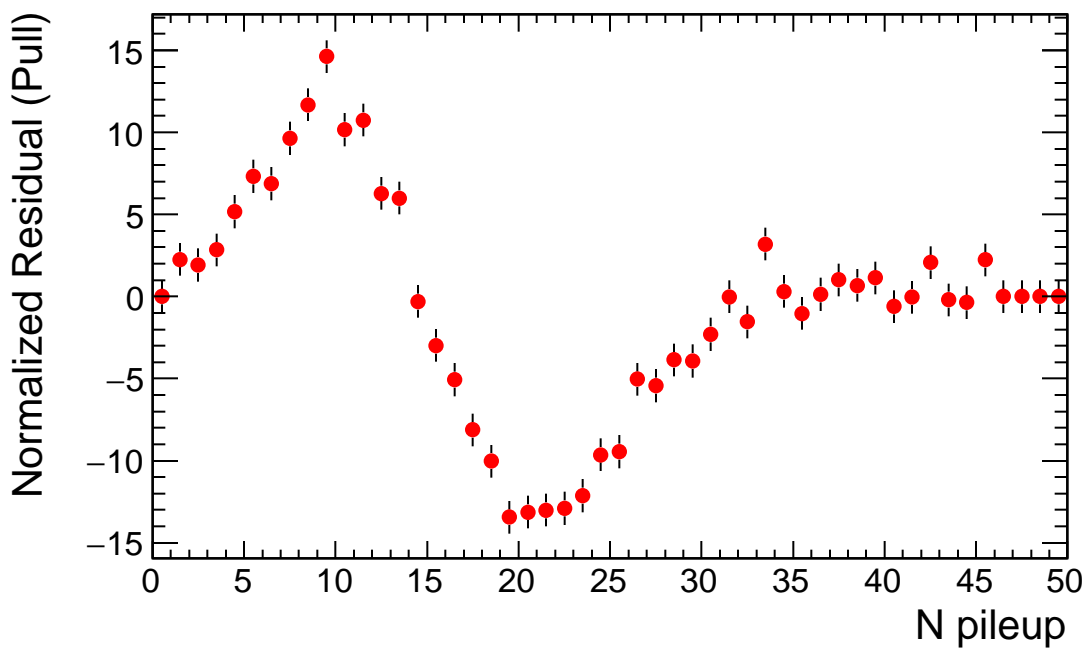nVert: MB xsec=71500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=71500 ub, Chi2/Ndf=42.3362072219, P-value=0.0
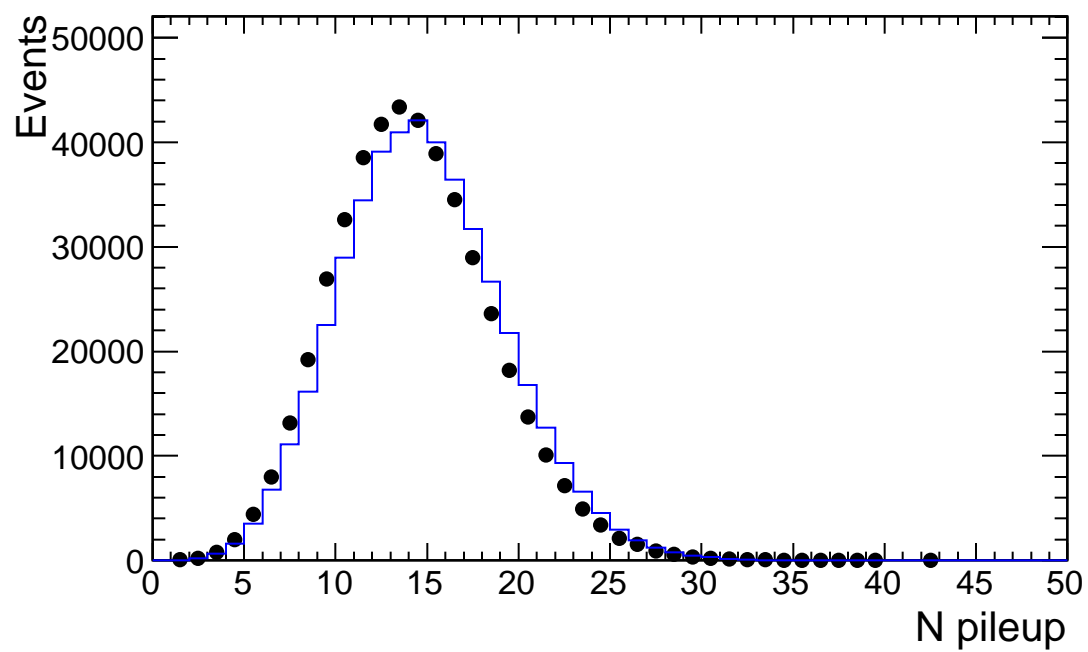
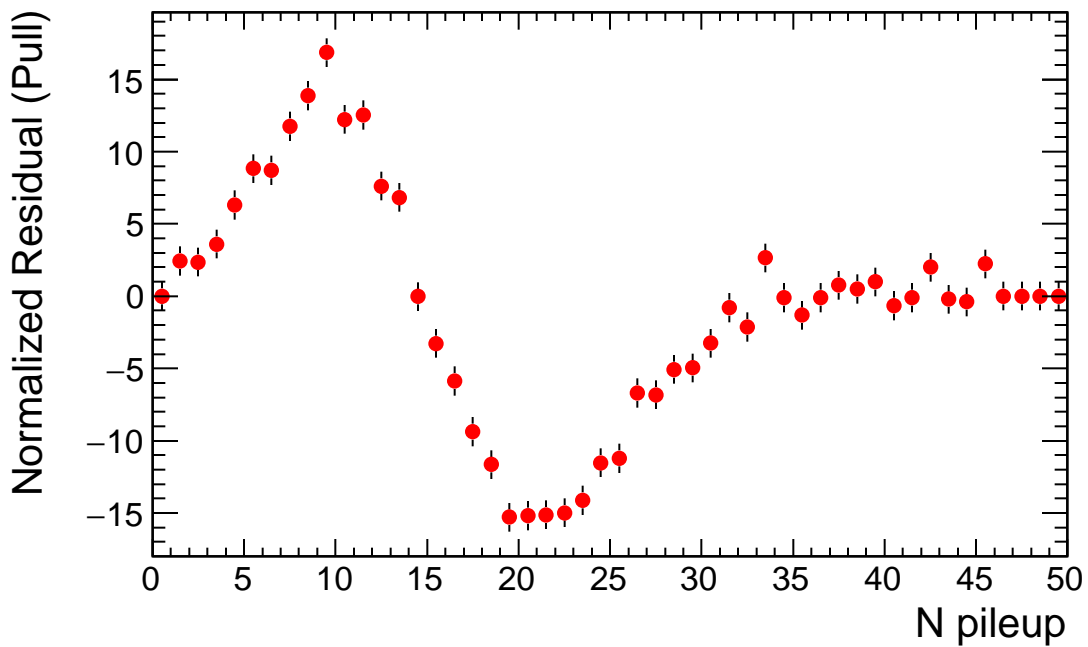nVert: MB xsec=72000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=72000 ub, Chi2/Ndf=56.6915610115, P-value=0.0
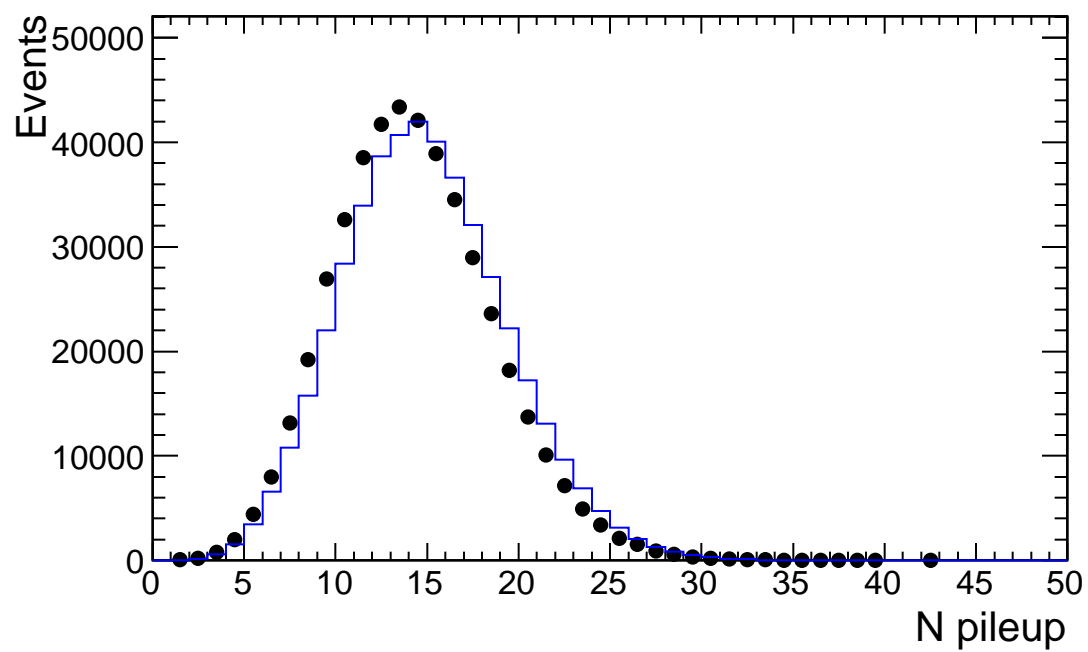
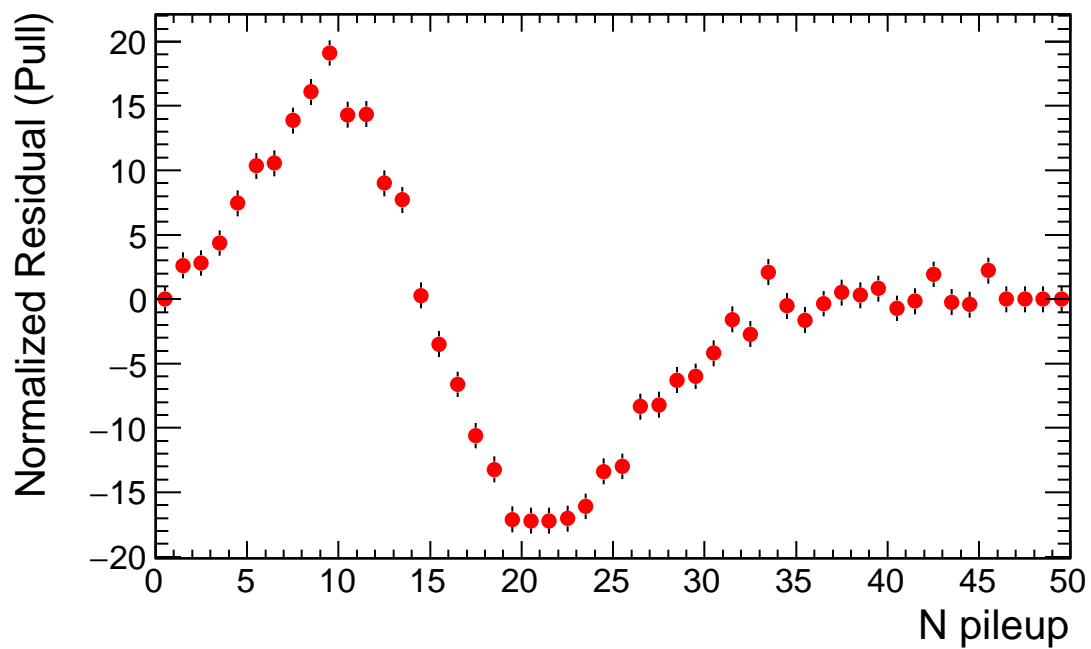nVert: MB xsec=72500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

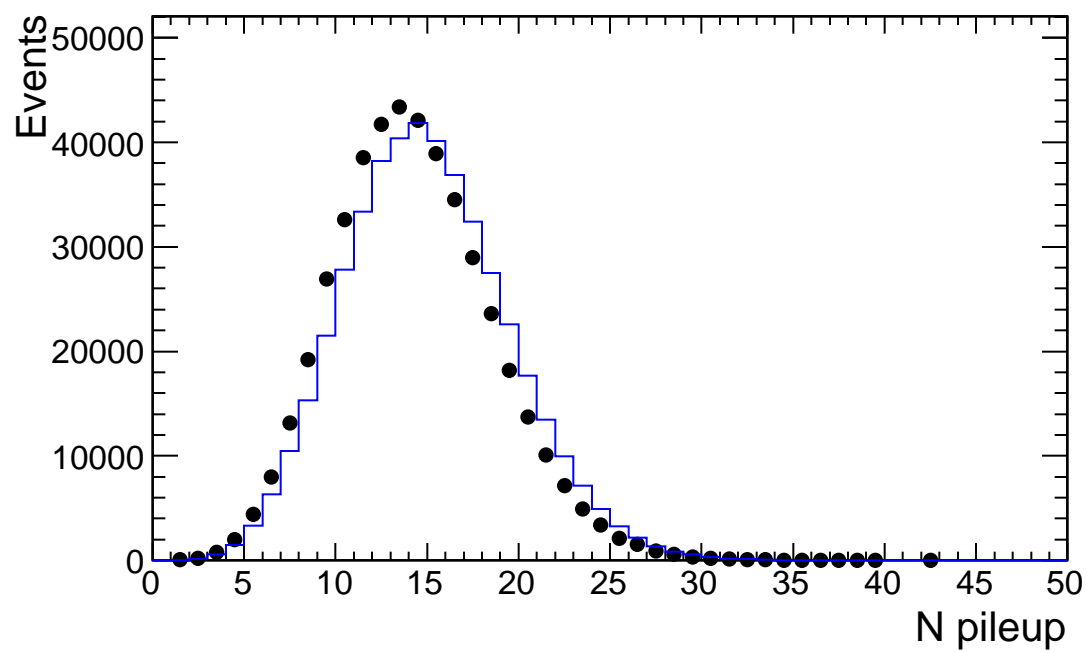Normalized Residual (Pull): MB xsec=72500 ub, Chi2/Ndf=74.6122420357, P-value=0.0

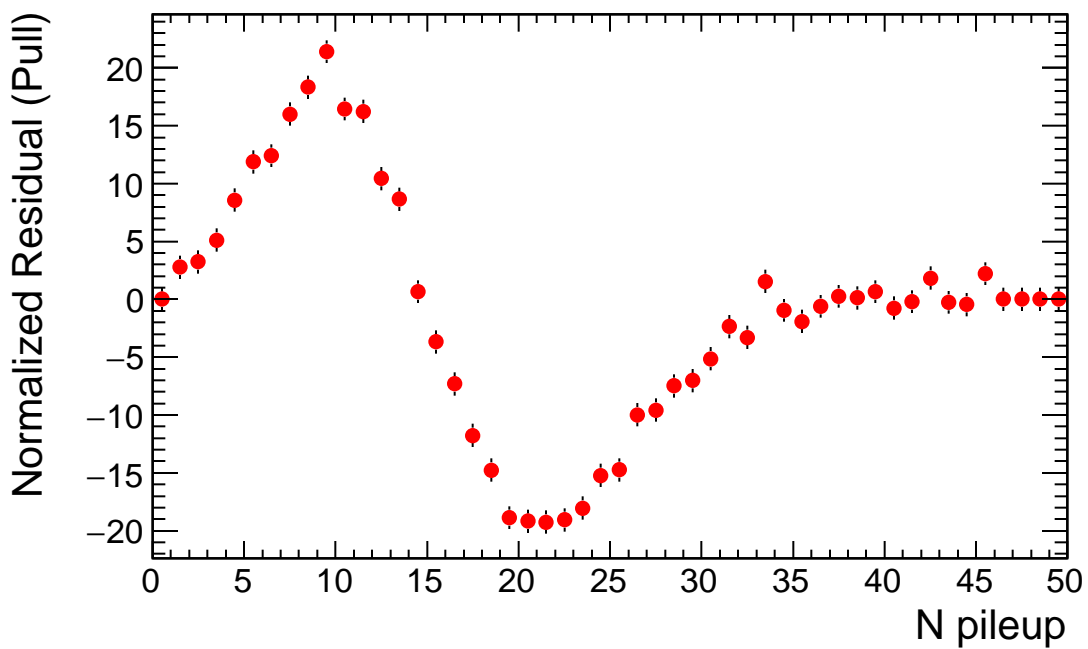nVert: MB xsec=73000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

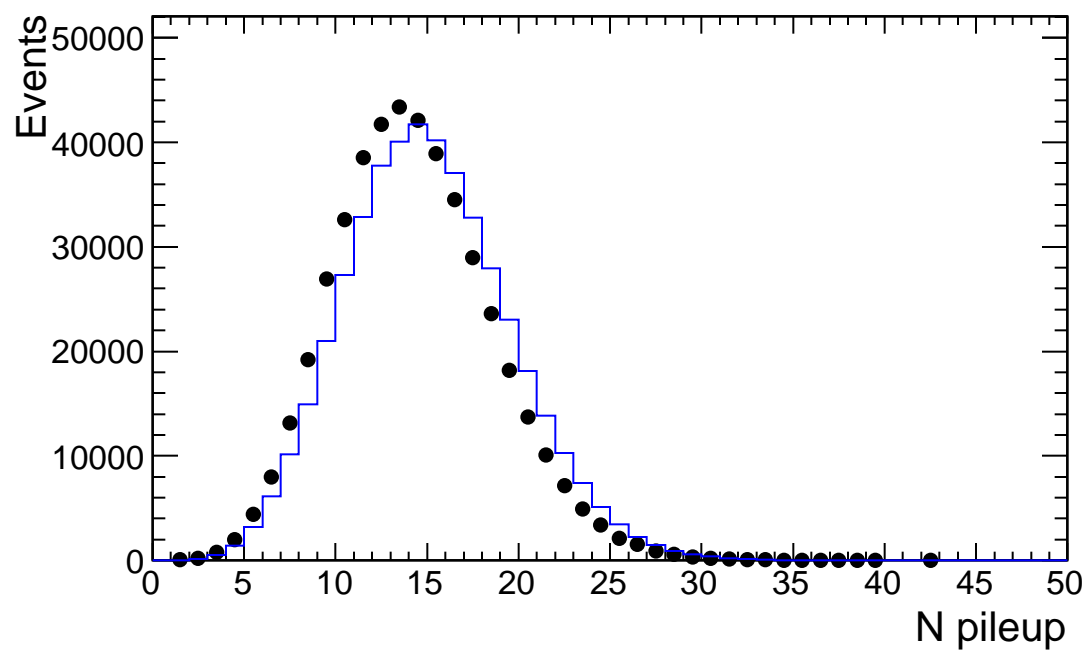Normalized Residual (Pull): MB xsec=73000 ub, Chi2/Ndf=95.994262005, P-value=0.0

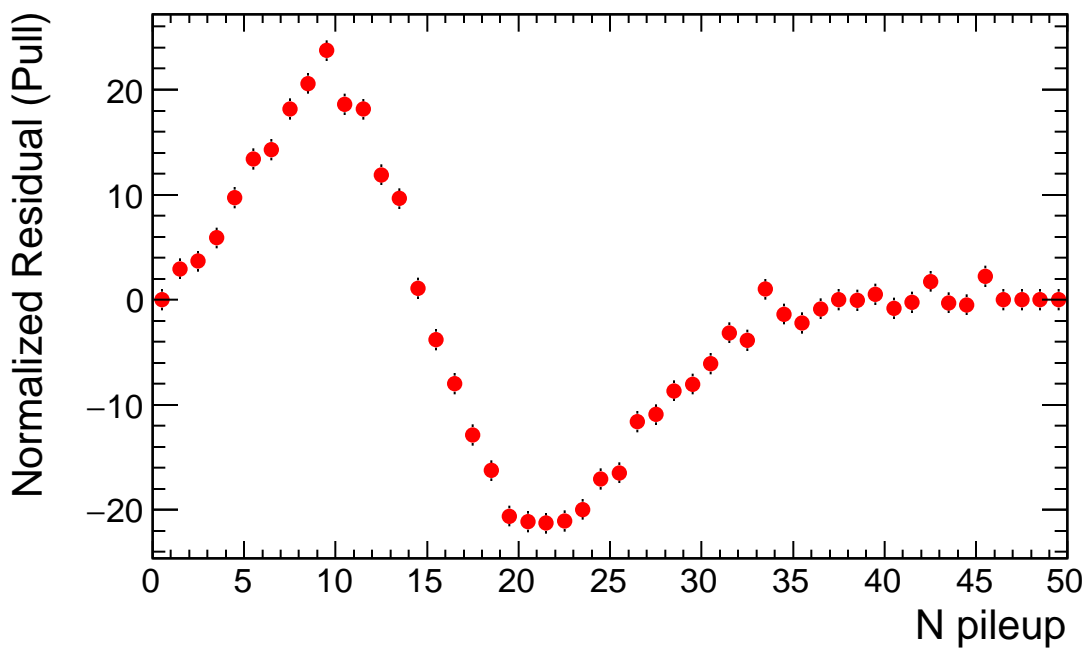nVert: MB xsec=73500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

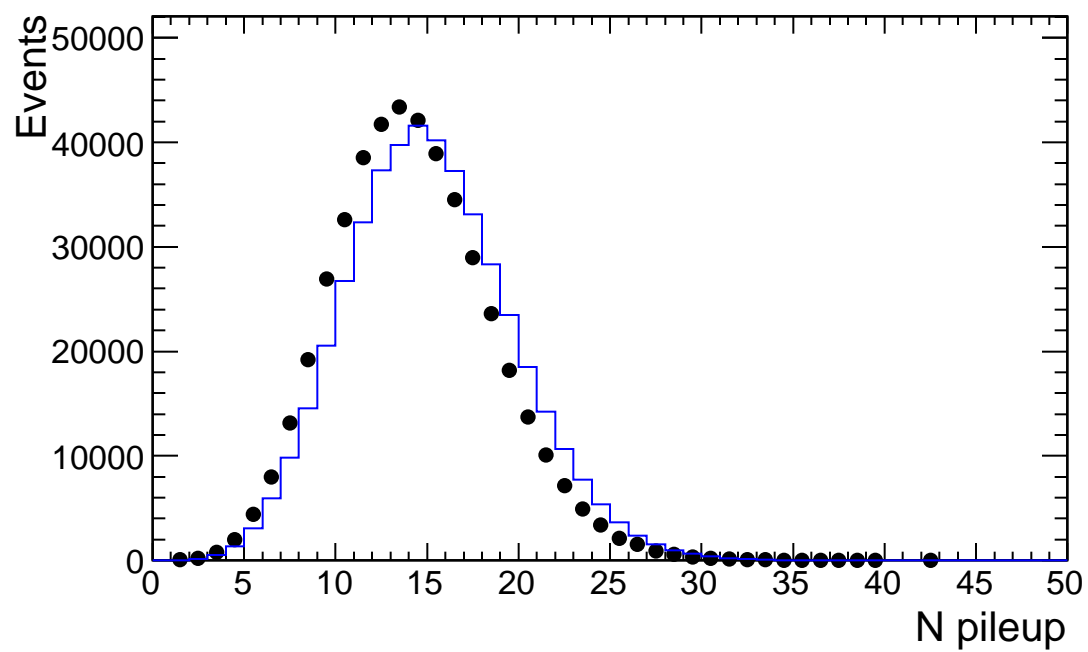Normalized Residual (Pull): MB xsec=73500 ub, Chi2/Ndf=120.788182333, P-value=0.0

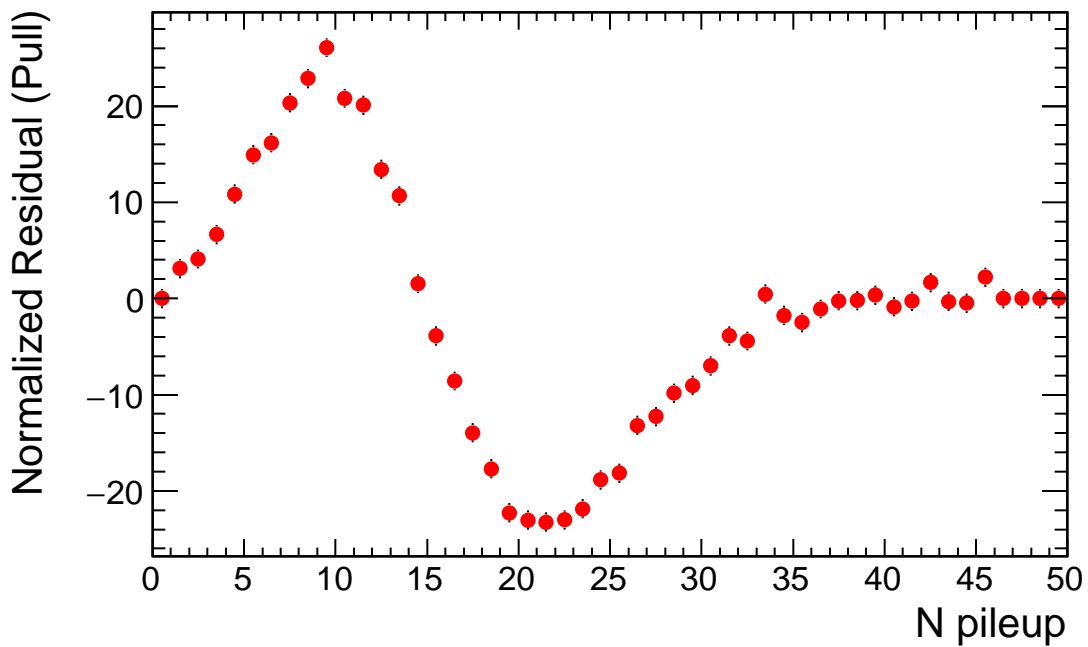nVert: MB xsec=74000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=74000 ub, Chi2/Ndf=148.943724529, P-value=0.0
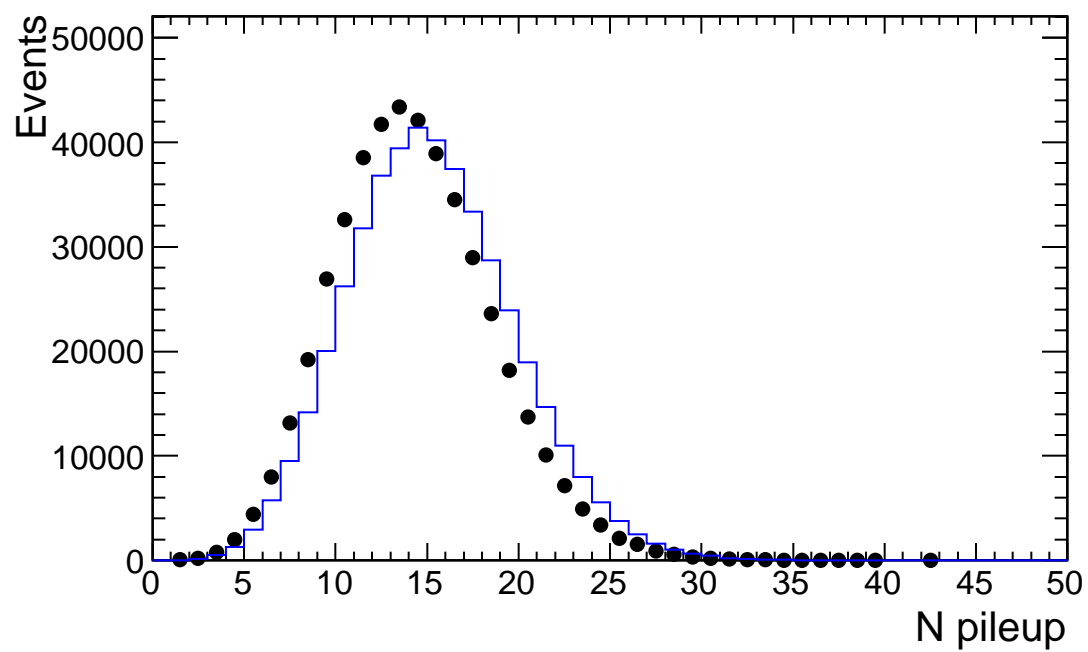
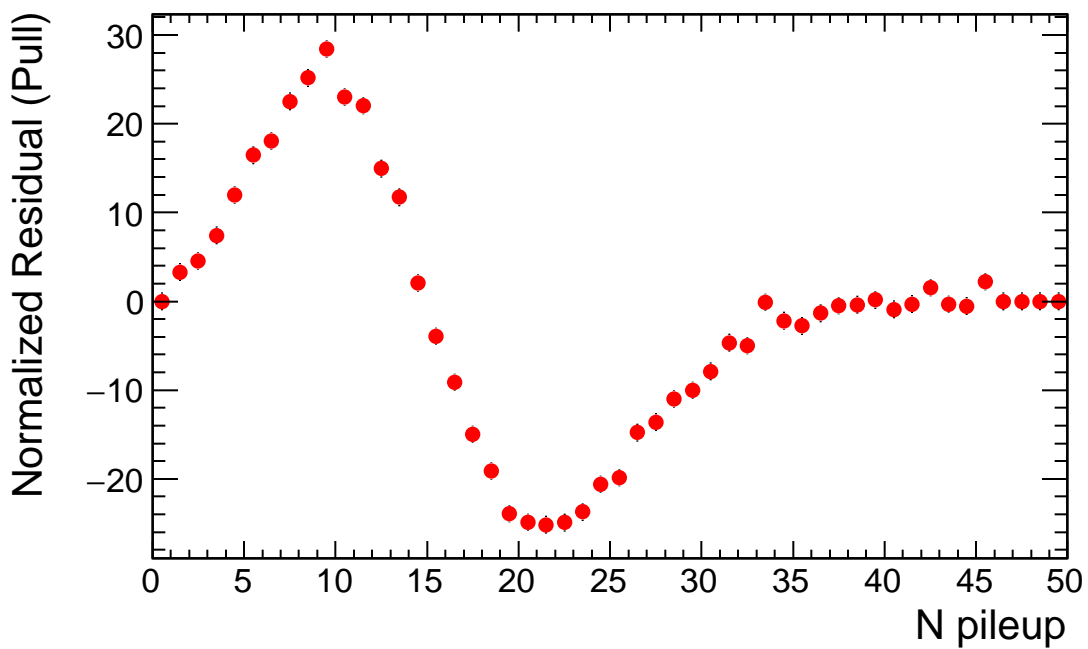# nVert: MB xsec=74500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

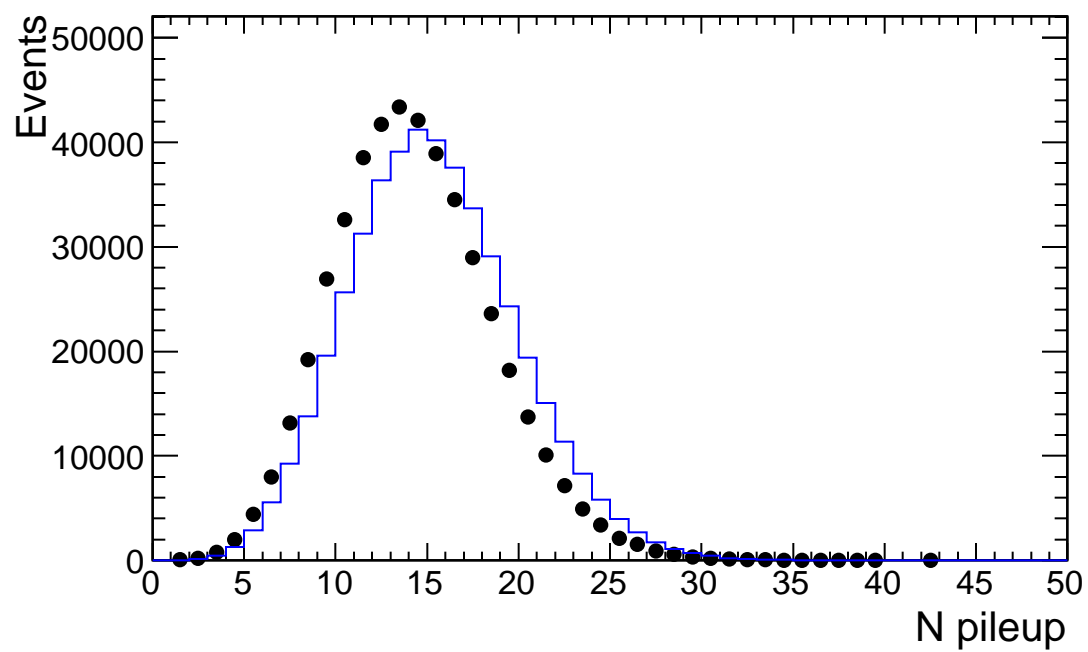### Normalized Residual (Pull): MB xsec=74500 ub, Chi2/Ndf=180.411257601, P-value=0.0

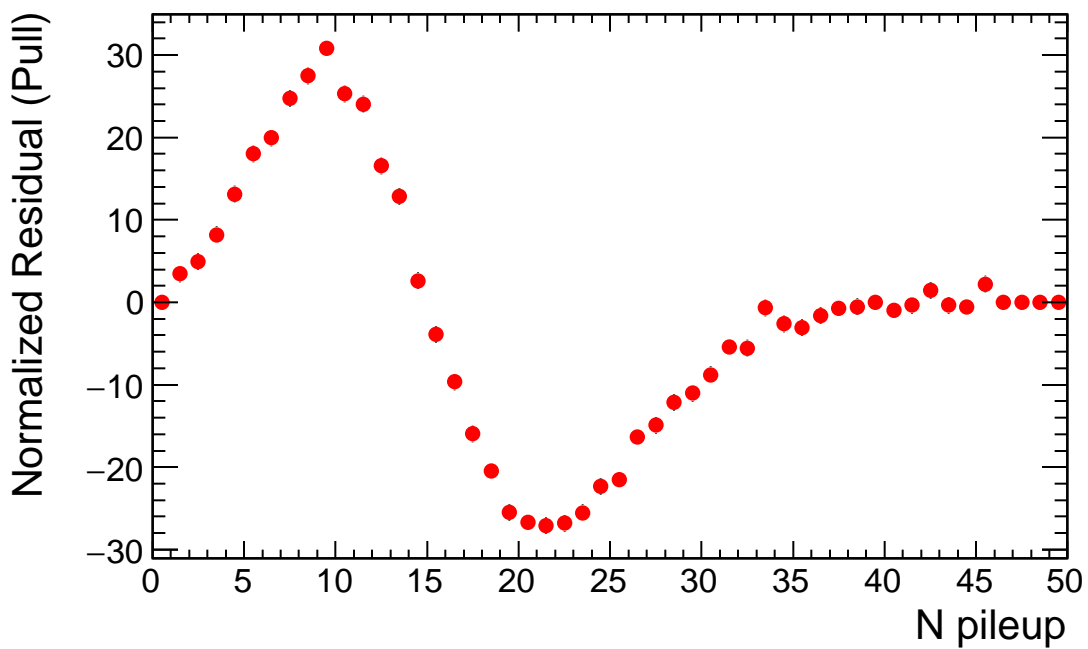nVert: MB xsec=75000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

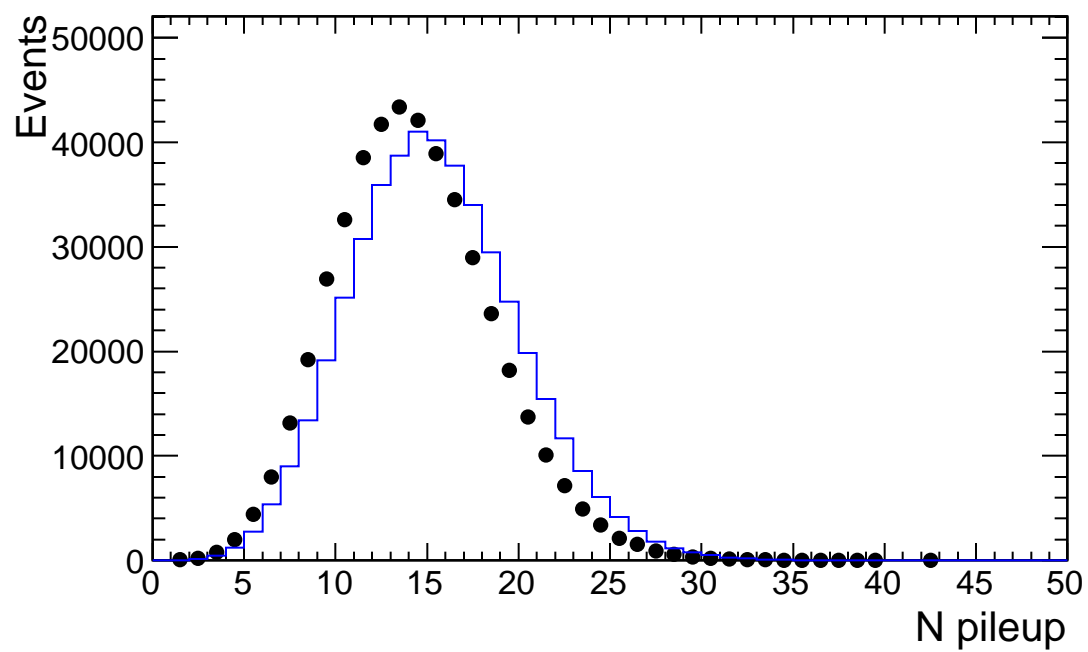Normalized Residual (Pull): MB xsec=75000 ub, Chi2/Ndf=215.142593905, P-value=0.0

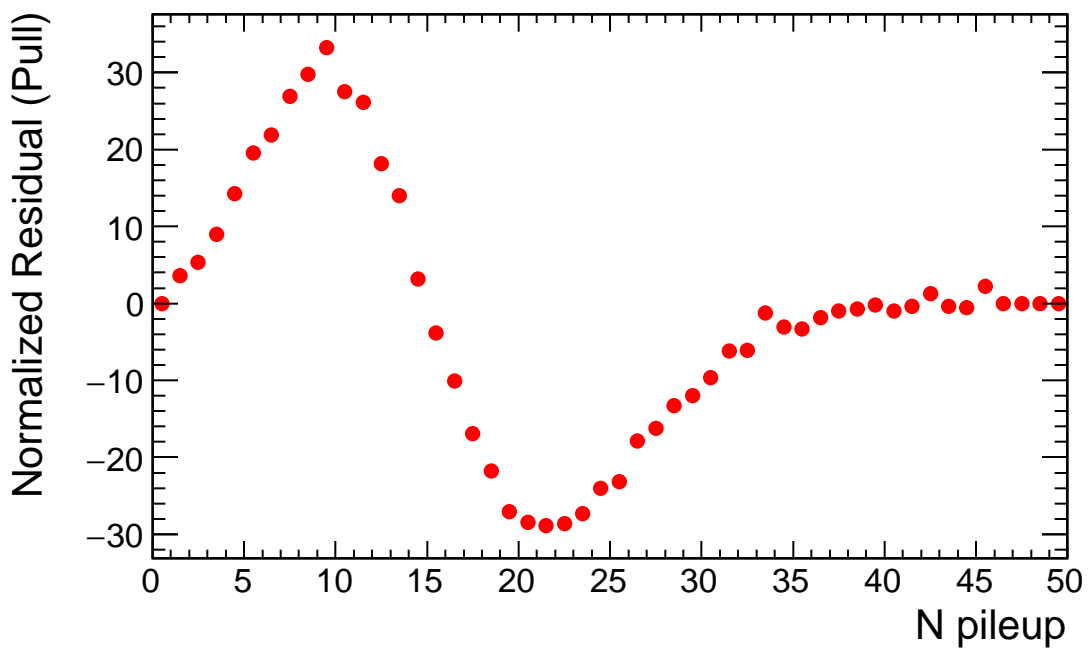**nVert: MB xsec=75500 ub CMS 13 TeV 2016B L=2.6 fb⁻¹**

Normalized Residual (Pull): MB xsec=75500 ub, Chi2/Ndf=253.091282695, P-value=0.0
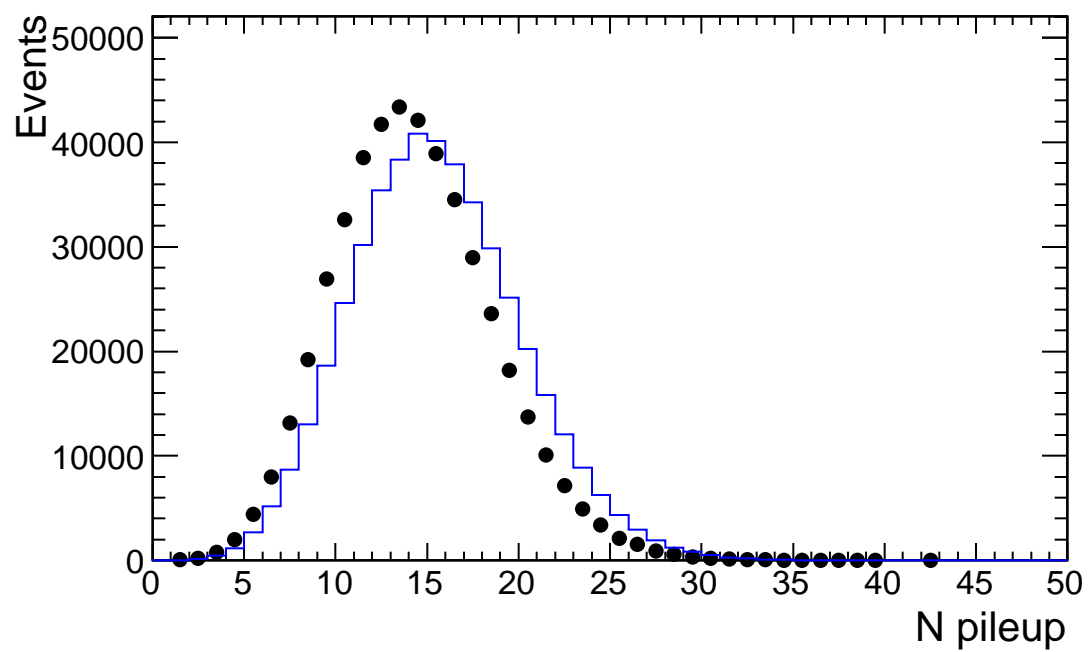
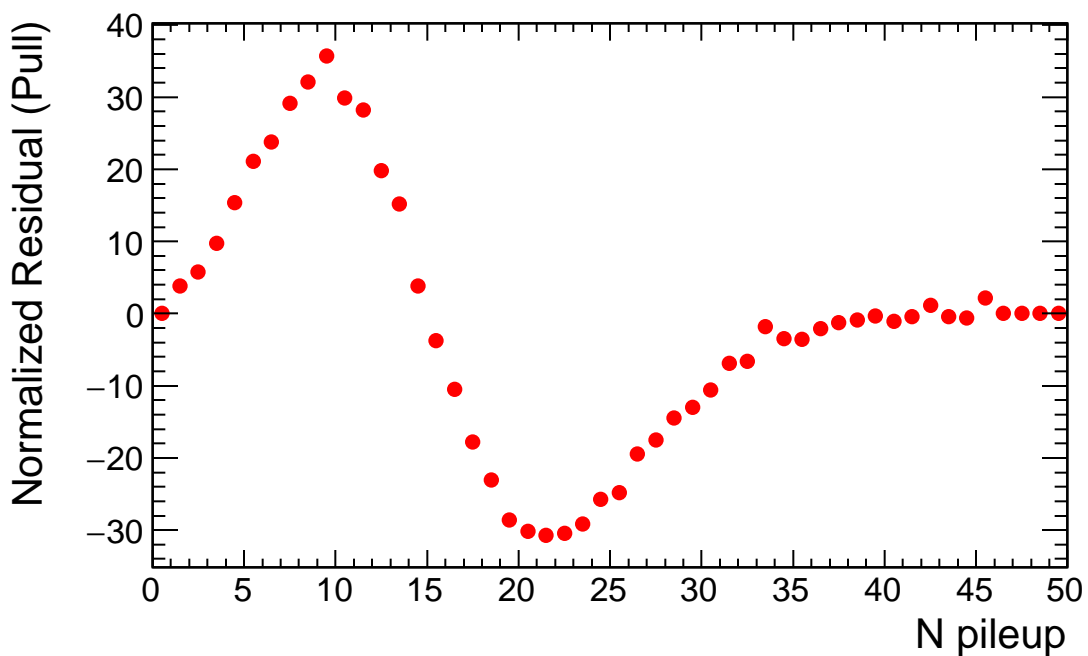# nVert: MB xsec=76000 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

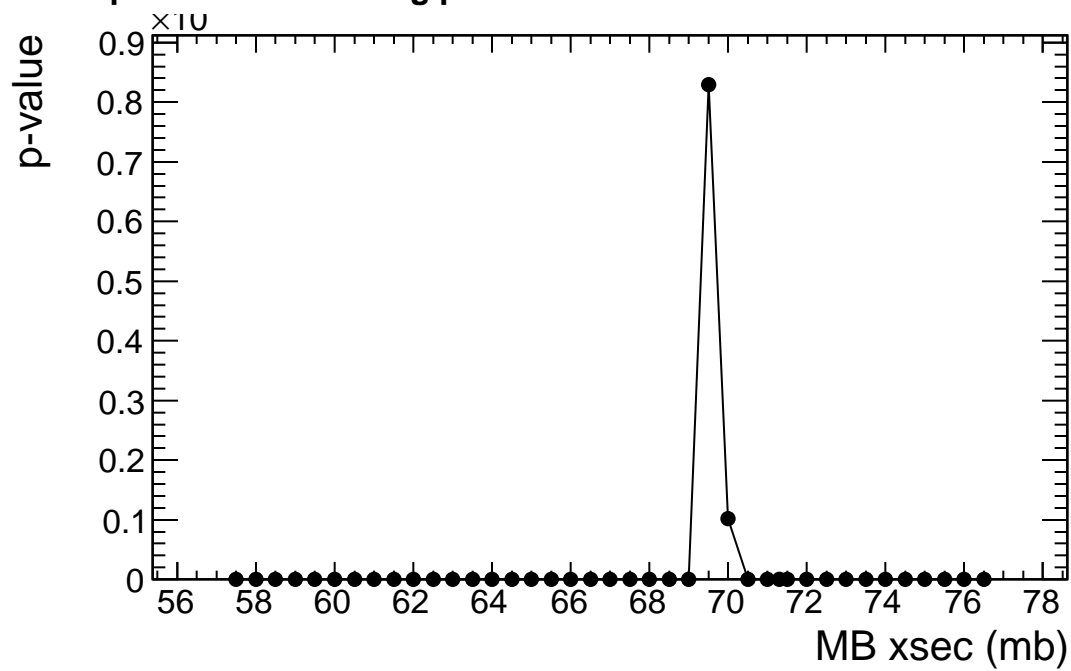## Normalized Residual (Pull): MB xsec=76000 ub, Chi2/Ndf=294.212561824, P-value=0.0

nVert: MB xsec=76500 ub CMS 13 TeV 2016B L=2.6 fb^{-1}

Normalized Residual (Pull): MB xsec=76500 ub, Chi2/Ndf=338.463165813, P-value=0.0

Pileup Data/MC matching p-value vs. MB xsec

p-value

×10

MB xsec (mb)

Pileup Data/MC matching Chi2/Ndf vs. MB xsec, mini at 69.705

Chi2/Ndf

MB xsec (mb)