single PV - LHC23d1f allisionTimeResysEt0PosZ single 1000 fFt0PosZ Entries 449 Mean x 665.2 800 Mean y -888.2Std Dev x 341.4 600 Std Dev y 312.7 400  $10^{-2}$ 200 -20010<sup>-3</sup> -400-600-800 -1000600 100012001400160018002000 **fCollisionTimeRes** 

## duplicated PV - LHC23d1f

