## **CMS** simulation Resolution in $d_0 (\mu m)$ $\mu^{\pm}$ , $\mathbf{p}_{\mathsf{T}}$ = 1 GeV $\mu^{\pm}$ , $\mathbf{p}_{\mathsf{T}}$ = 10 GeV $\mu^{\pm}$ , $p_{\pm} = 100 \text{ GeV}$ 10 -2.5 -2 -1.5 -1 -0.5 1.5 0.5