PU Reconstructed vs. Simulated Z-Position Position Difference **CMS Simulation**  $\sqrt{s} = 14 \text{ TeV}$ 70000 60000 TTbar no blocks # 50000 11 40000 11 : 1 30000 11 : : 20000 10000 -0.2-0.10.1 0.2 0.3 Distance between Recon. and Sim. Vertex Z-Position [cm]