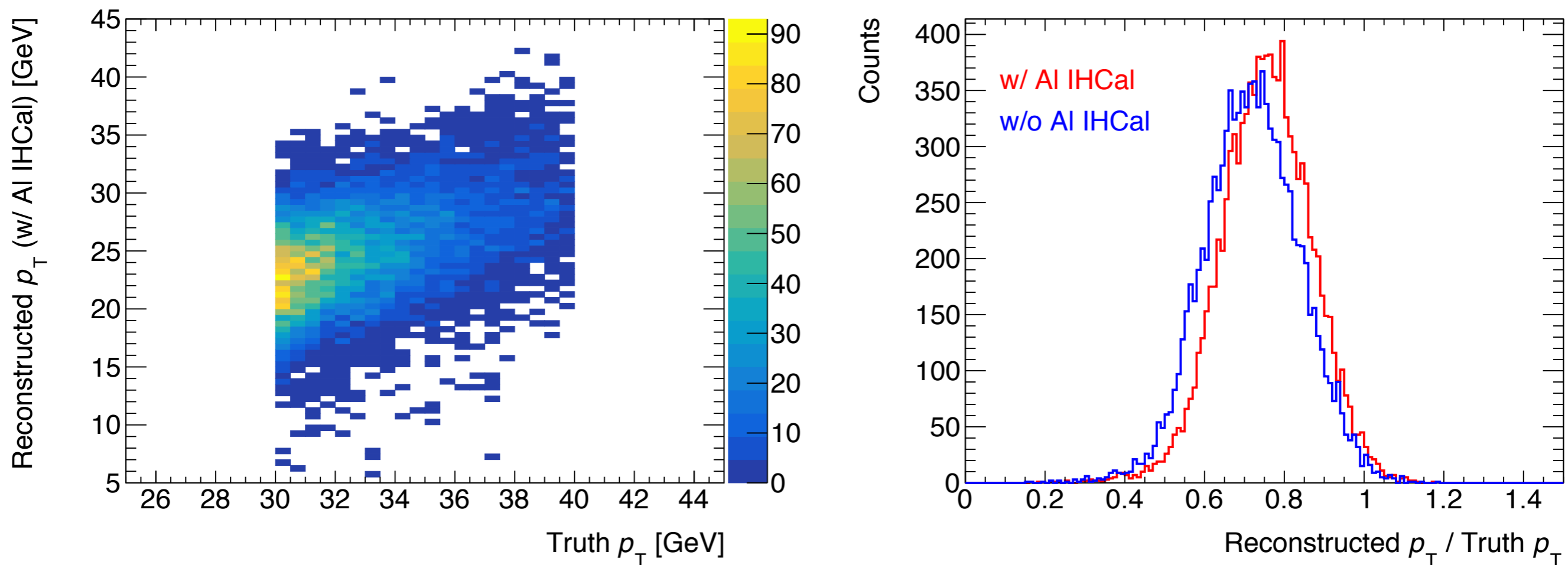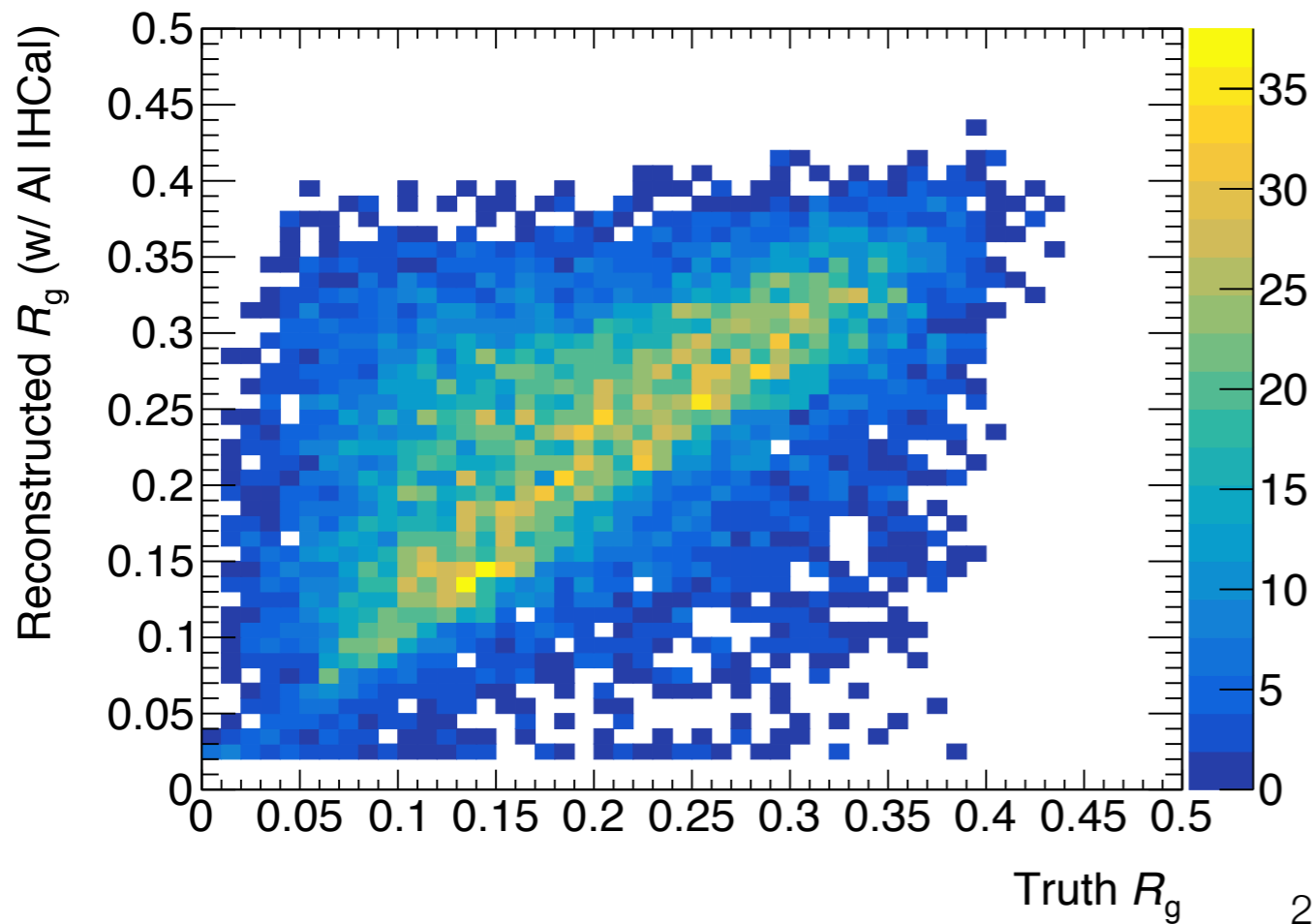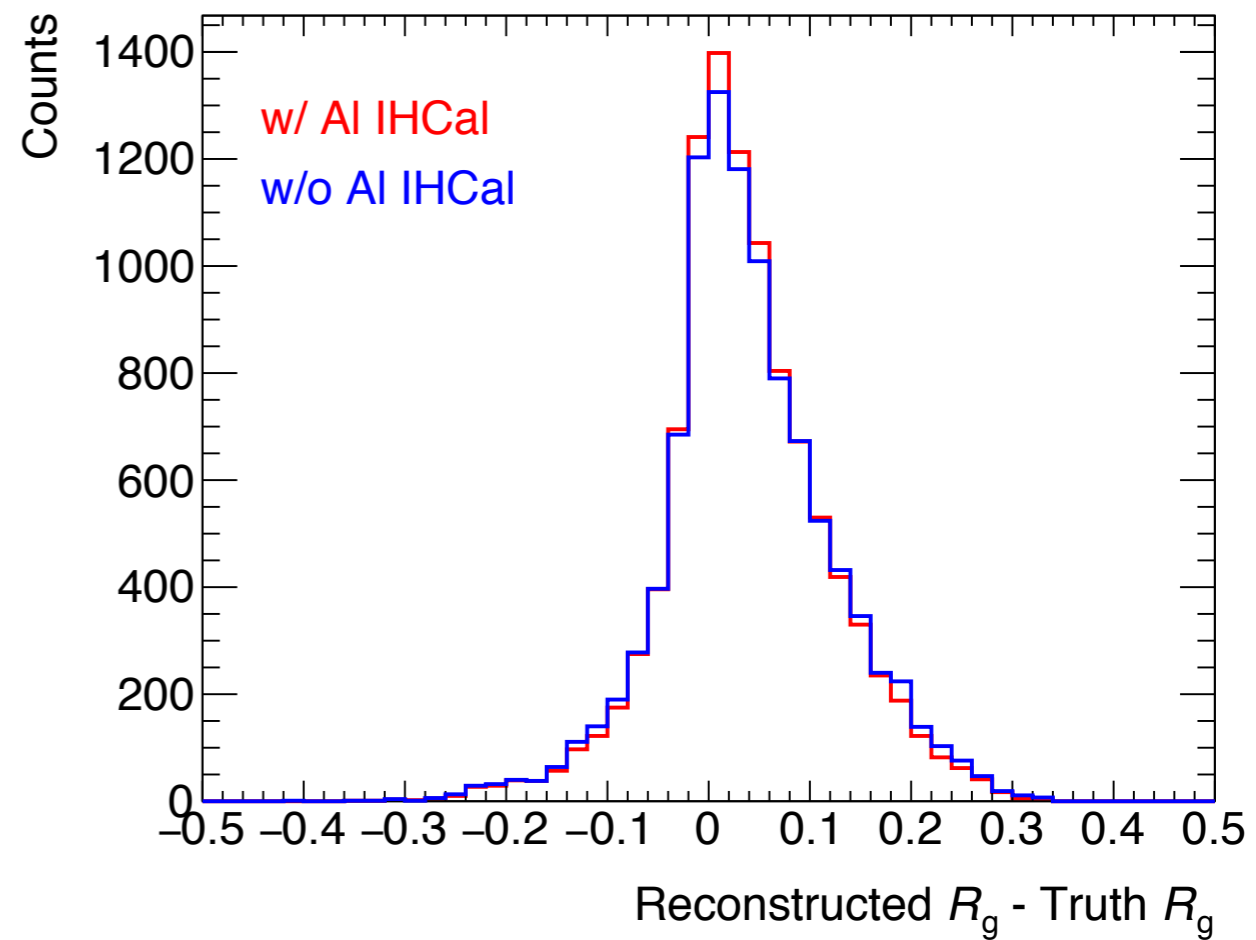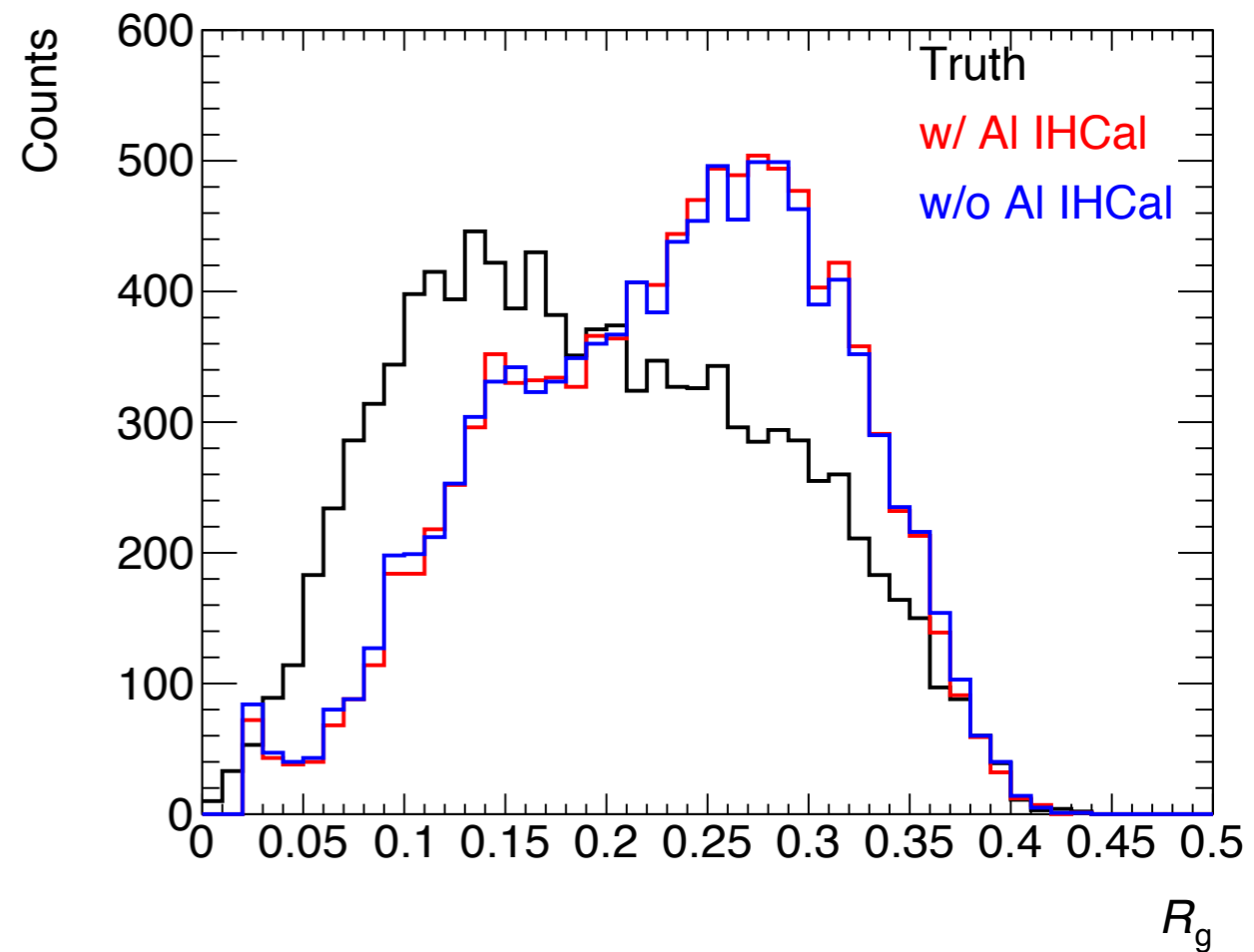# Simulation overview

- Pure Pythia, 30-40 GeV R=0.4 truth jets within $|\eta|$<0.45, full G4 Sim w/ Al IHCal

- Note: no layer-by-layer energy calibration, just "EM-scale"

  ➡ above: check the p_T response to make sure including/excluding IHCal working properly

- Next slides: now do SoftDrop reconstruction using RecursiveTools in fastjet-contrib, z_{cut} = 0.1 (~HCal tower size), β = 0, at truth and reco levels

R_g performance

Truth
w/ Al IHCal
w/o Al IHCal

R_g

Counts

Reconstructed R_g (w/ Al IHCal)

Truth R_g

w/ Al IHCal
w/o Al IHCal

Counts

Reconstructed R_g - Truth R_g

2

z_g performance