

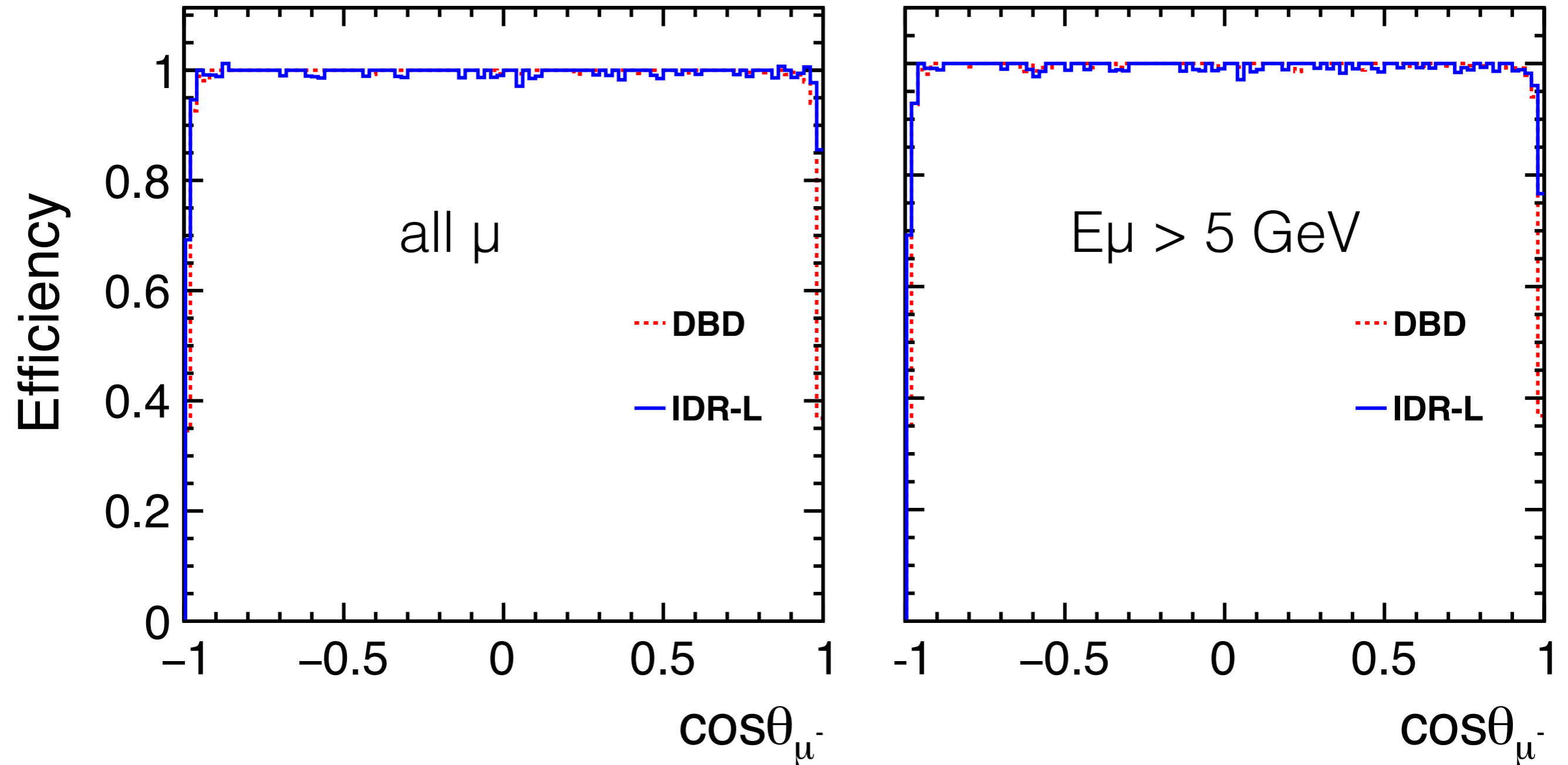
# $\mu$ -ID in new test sample

e2e2h, I401006, ilcsoft v02-01  
compared with DBD one

Junping Tian (U. Tokyo)

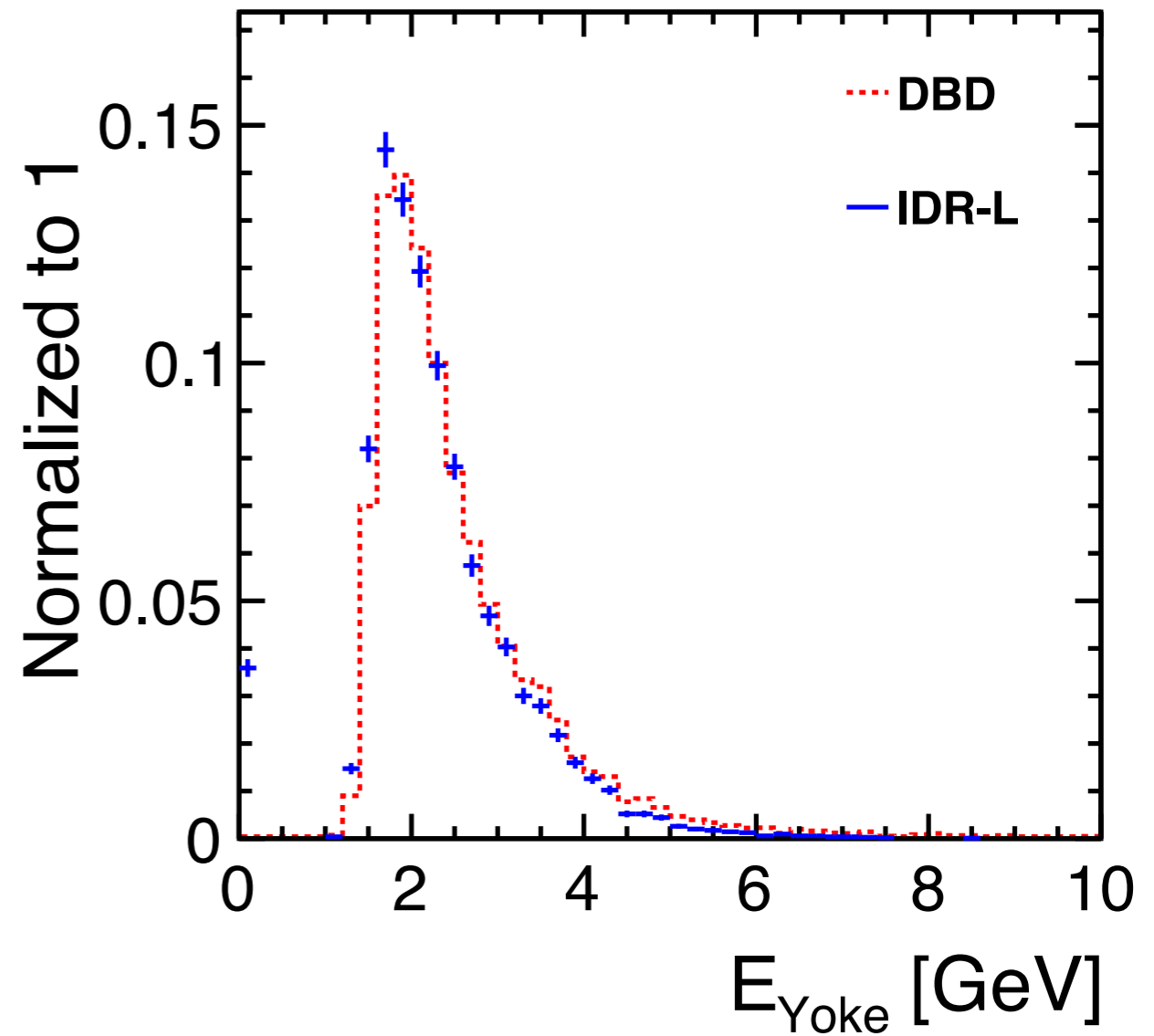
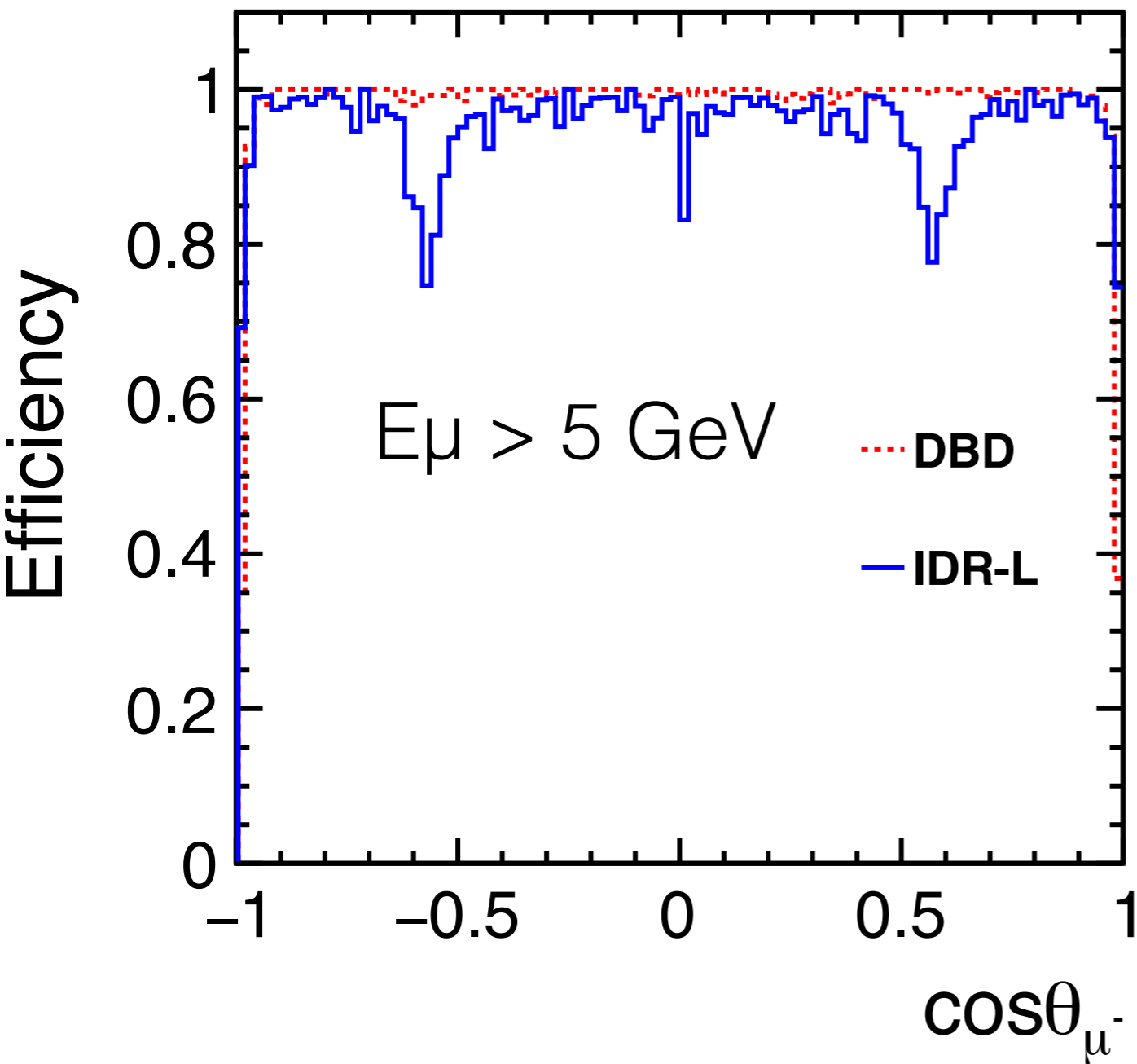
ILD Analysis & Software Meeting, May 6, 2020

# Efficiency from PFA $\mu$ -reconstruction



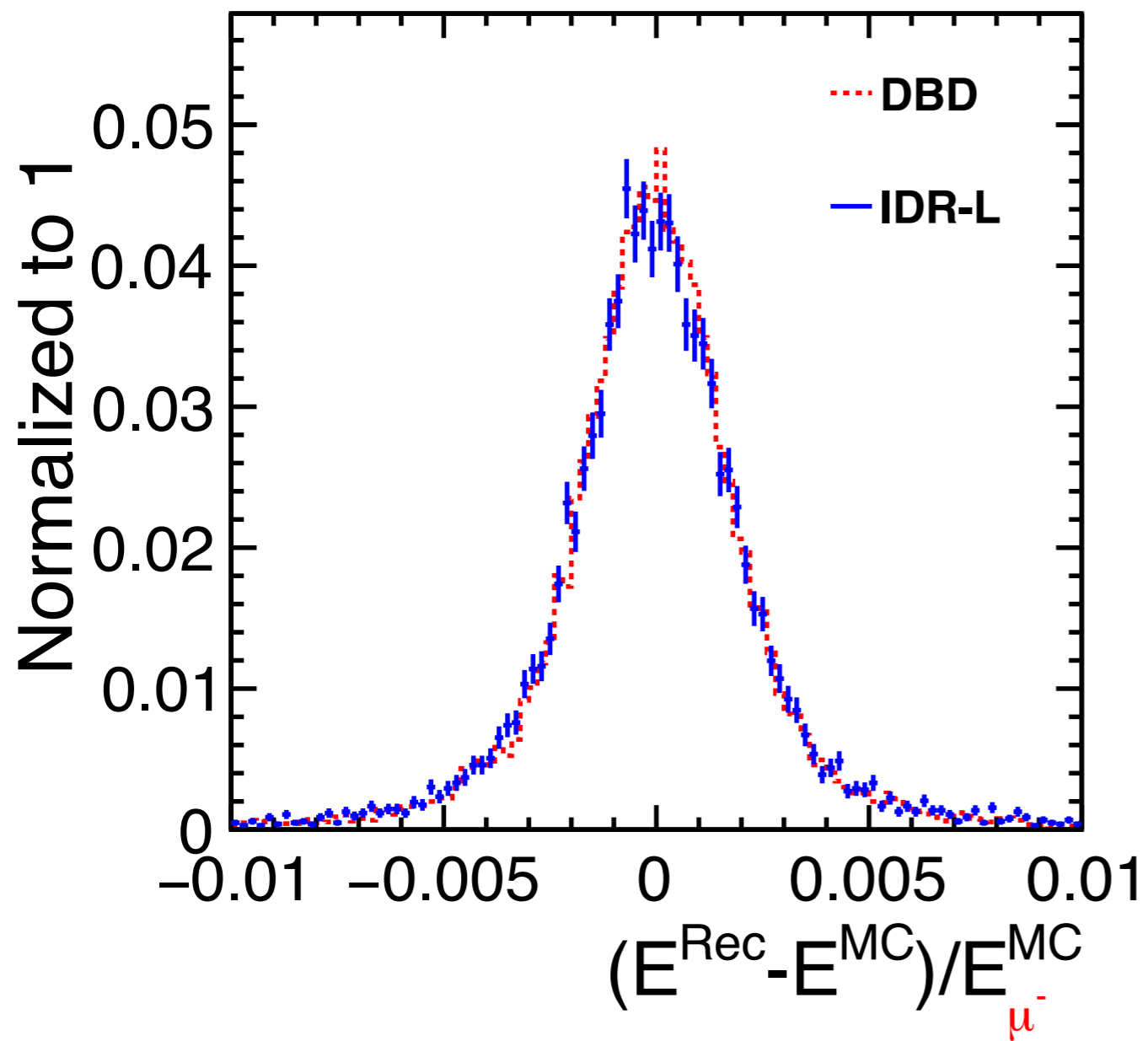
in the very forward regions, significantly better than DBD

+Efficiency from yoke energy cut

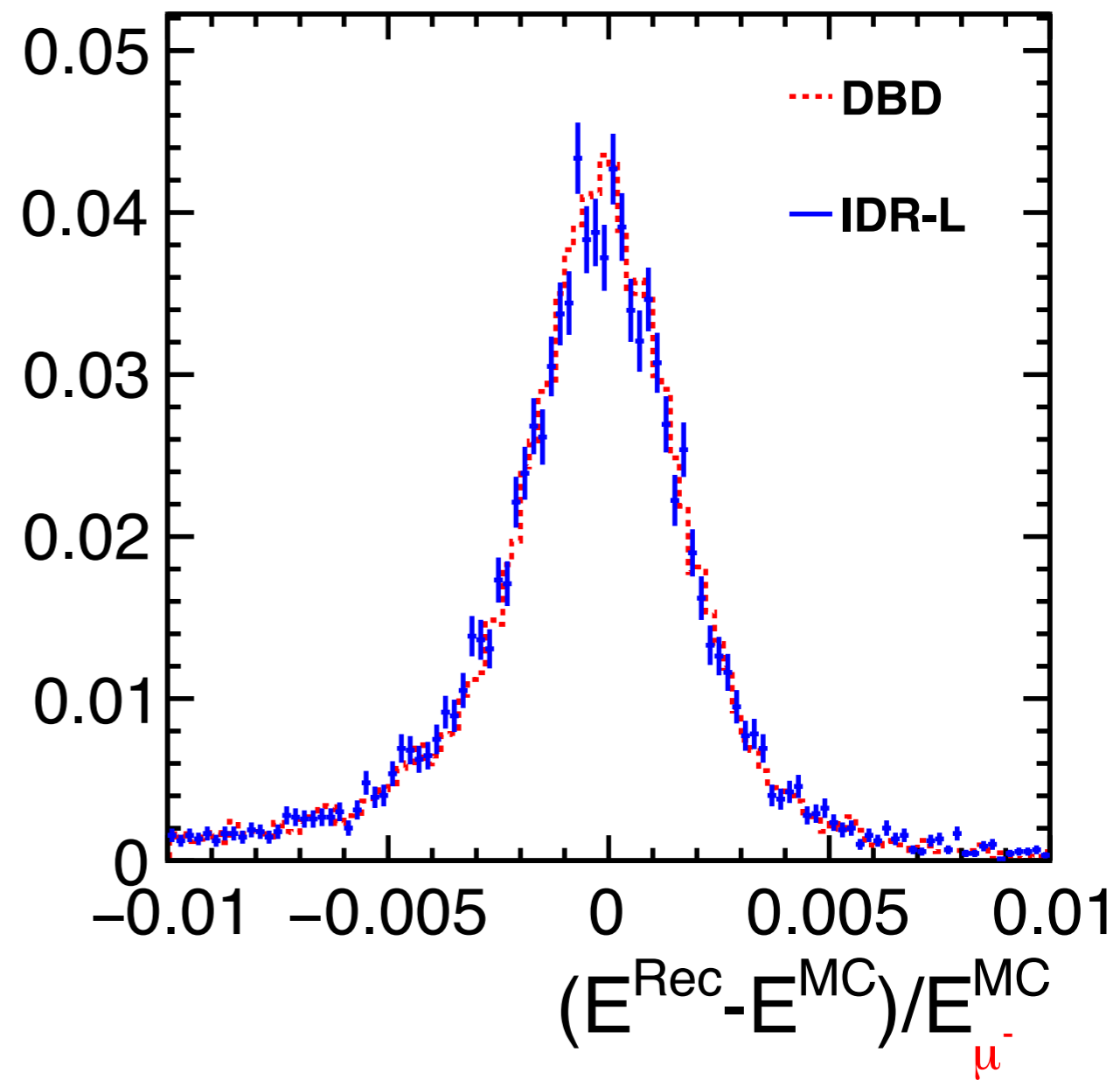


deficits at  $|\cos\theta| \sim 0.6, 0$

# momentum resolution

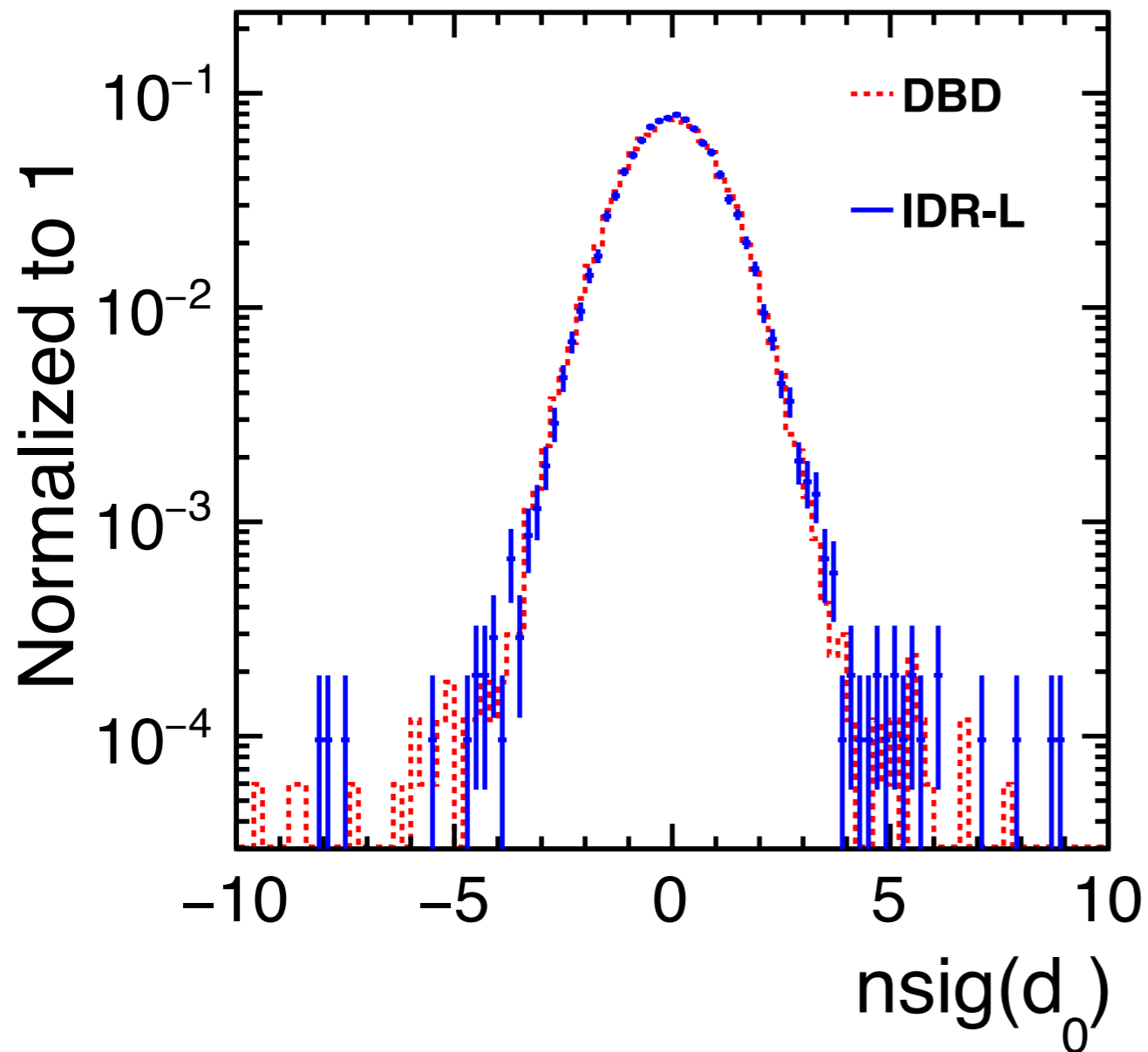


MC: after FSR

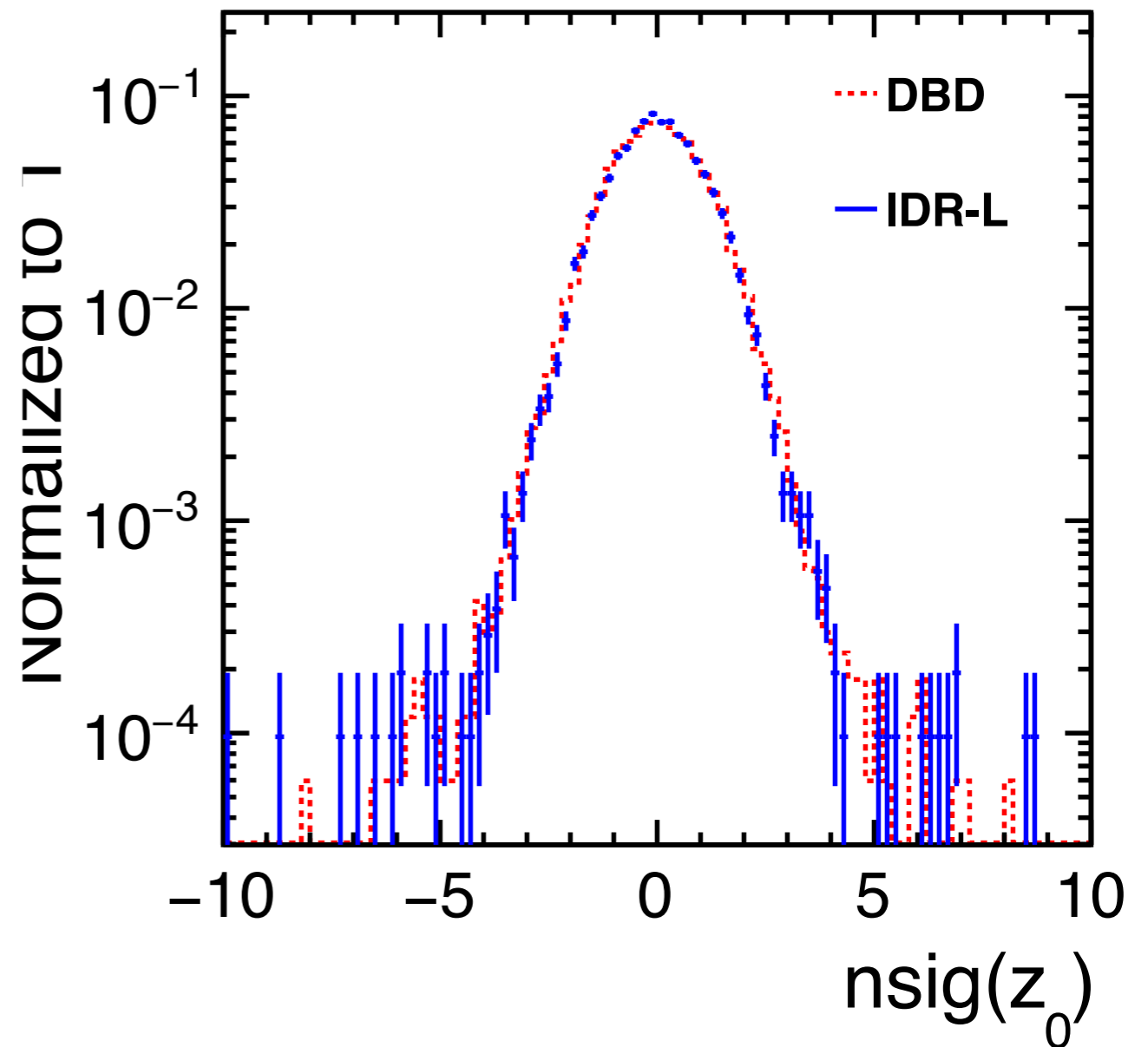


MC: before FSR

# a few other for IsolatedLeptonTagging

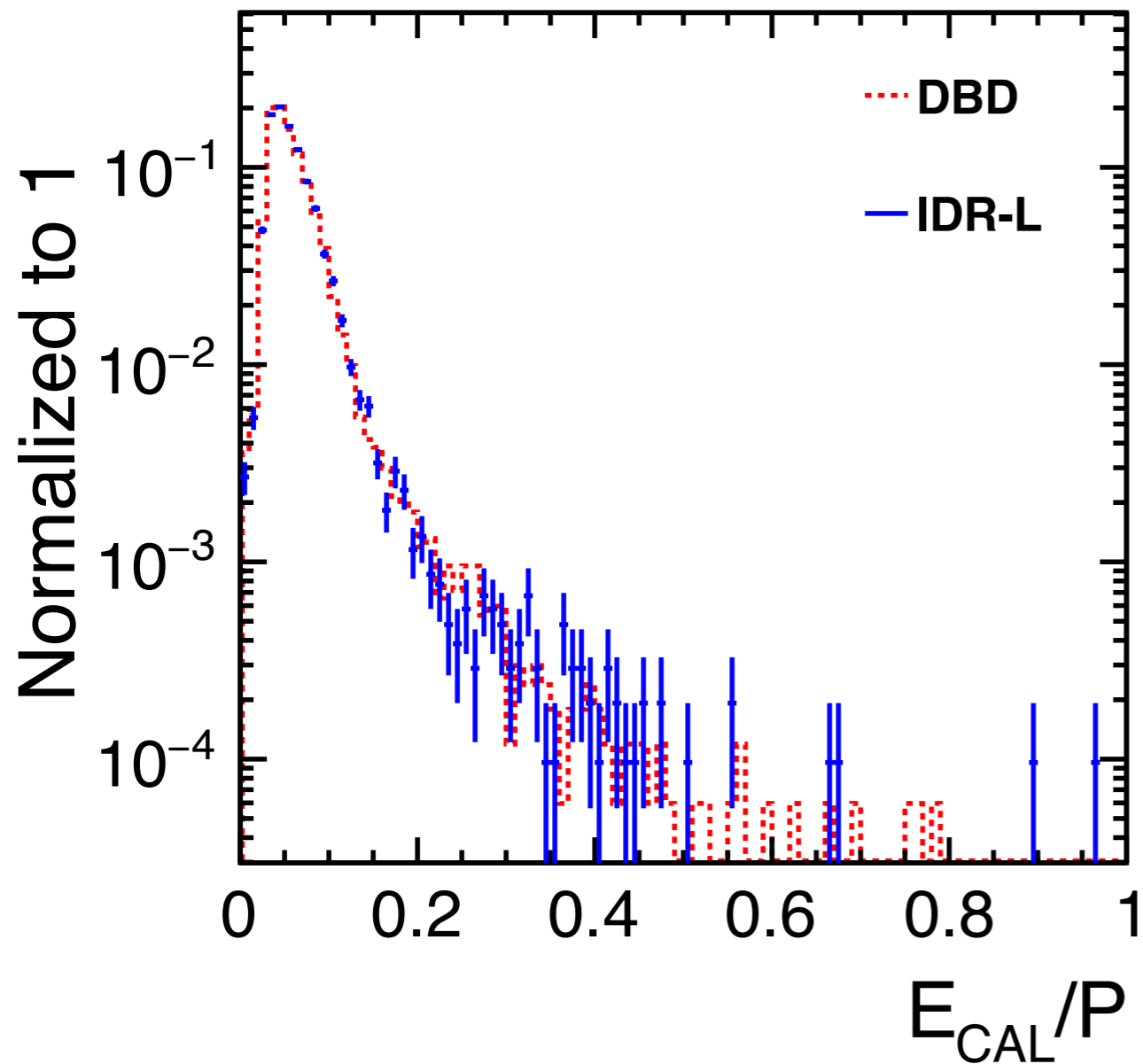


$$nsig(d_0) = \frac{d_0}{\Delta d_0}$$

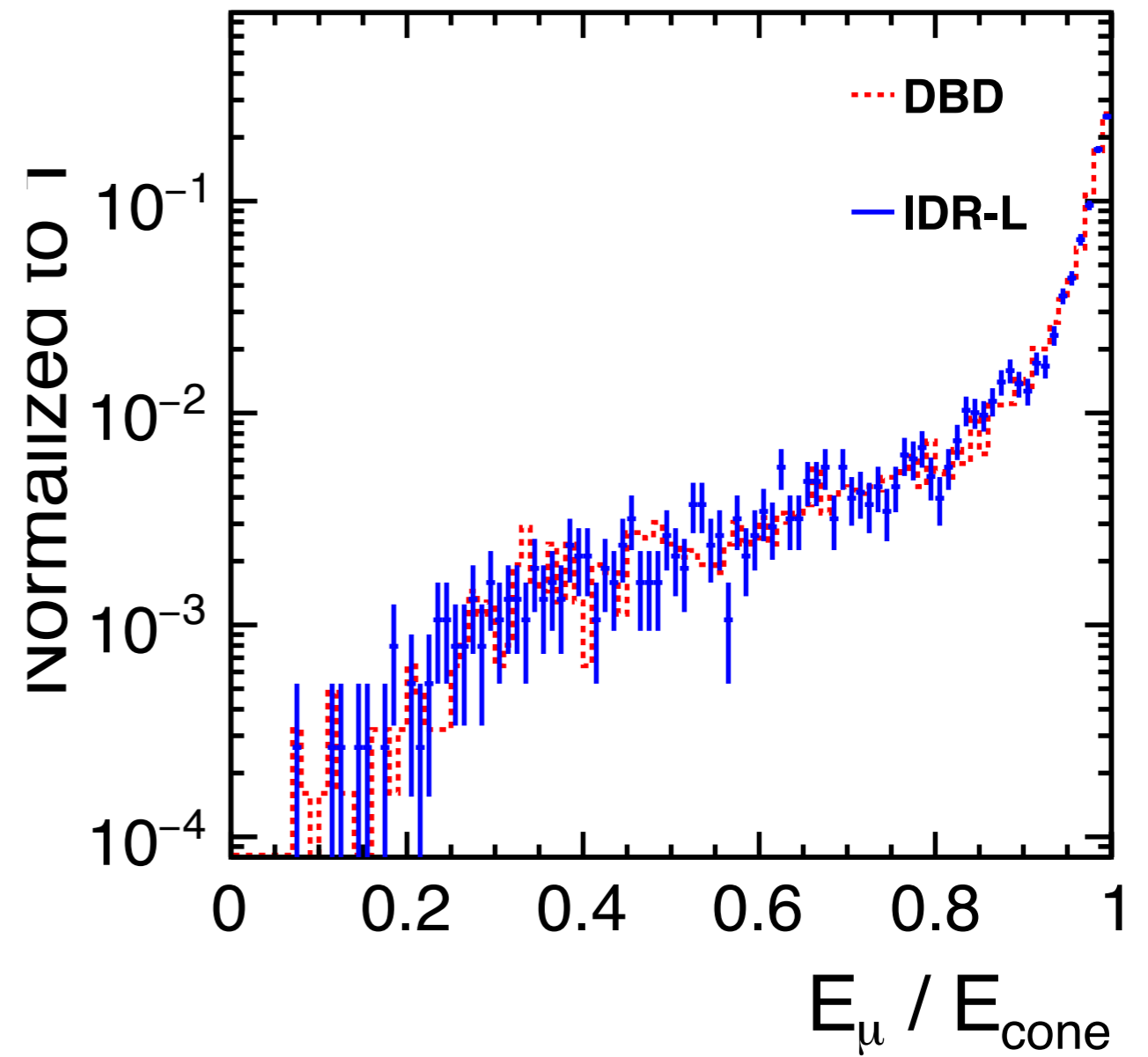


$$nsig(z_0) = \frac{z_0 - z_{IP}^{MC}}{\Delta z_0}$$

# a few other for IsolatedLeptonTagging



$E_{CAL}$ : energies in ECAL+HCAL



$E_{cone}$ : energies inside cone

# MVA weight files for IsolatedLeptonTagging

there are no new weight files trained for new samples

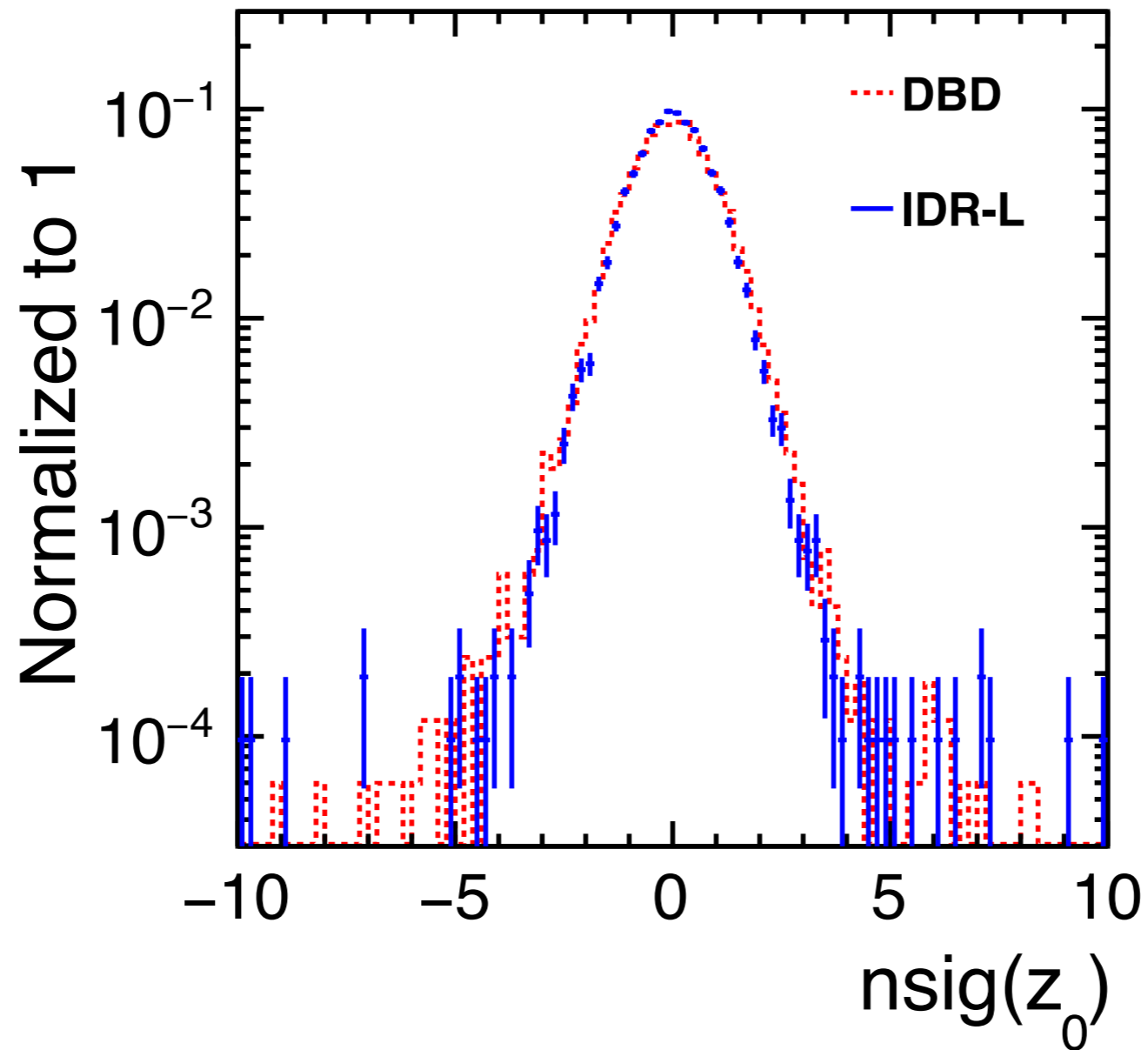
one can use the old ones in the package

in principle recommend “e2e2h\_gg\_qqqq”

feedback from S.Kawada (many thanks!):

the old ones used for benchmark analyses also work  
either w/ or w/o the option to use yoke energy

backup



$$nsig(z_0) = \frac{z_0 - z_{IP}^{Rec}}{\Delta z_0}$$