

Pythia 8

Heatmap showing the probability  $\text{Pr}(Z|\Delta R)$  as a function of  $\Delta R$  (x-axis, ranging from 0.2 to 0.7) and  $Z$  (y-axis, ranging from 0 to 0.5). The color scale represents the probability, ranging from 0.05 (dark blue) to 0.35 (yellow). The plot shows a clear trend where the probability increases with  $Z$  and decreases with  $\Delta R$ . The highest probability is in the bottom-left region (low  $\Delta R$ , low  $Z$ ) and decreases towards the top-right region (high  $\Delta R$ , high  $Z$ ).

 $\Delta R$