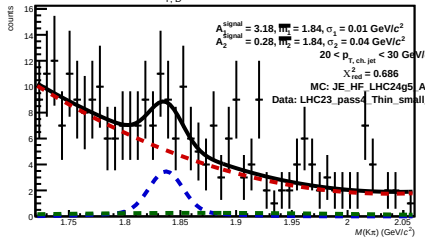
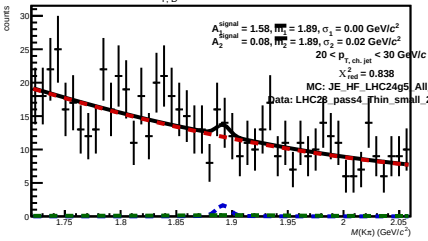
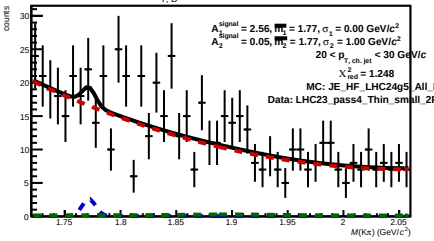
5 < p_{T,D^0} < 6 GeV/c (Fit failed)



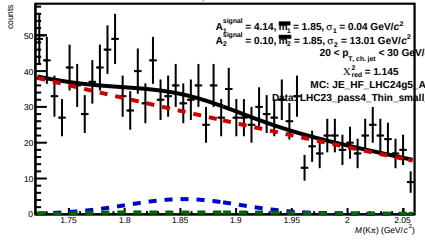
6 < p_{T,D^0} < 7 GeV/c (Fit failed)



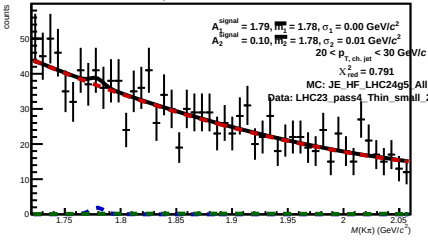
7 < p_{T,D^0} < 8 GeV/c (Fit failed)



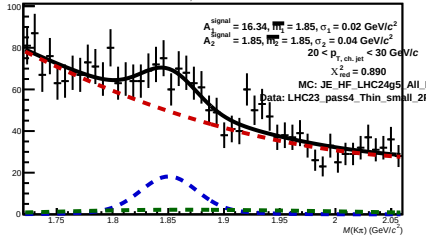
8 < p_{T,D^0} < 9 GeV/c



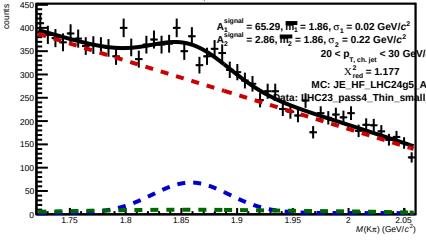
9 < p_{T,D^0} < 10 GeV/c (Fit failed)



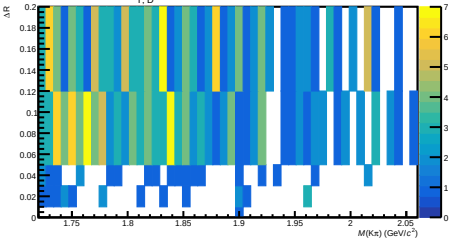
10 < p_{T,D^0} < 12 GeV/c



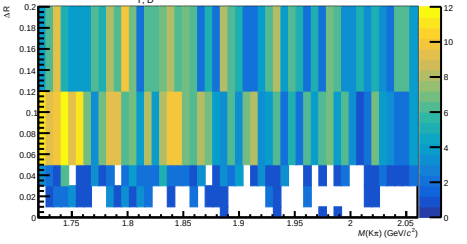
12 < p_{T,D^0} < 20 GeV/c



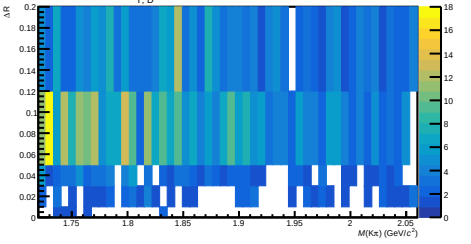
5 < p_{T,D^0} < 6 GeV/c (Fit failed) (Fit failed)



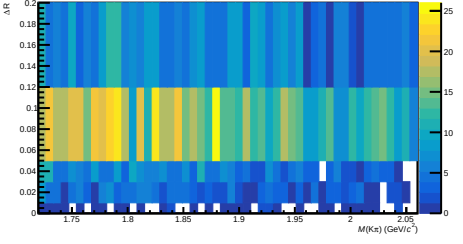
6 < p_{T,D^0} < 7 GeV/c (Fit failed) (Fit failed)



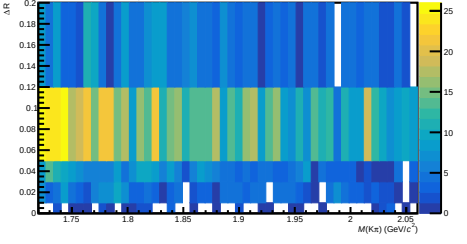
7 < p_{T,D^0} < 8 GeV/c (Fit failed) (Fit failed)



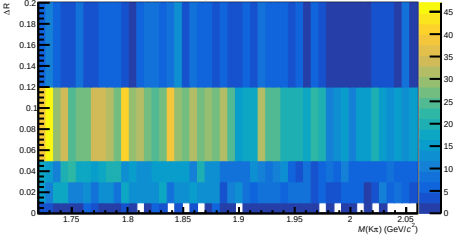
8 < p_{T,D^0} < 9 GeV/c



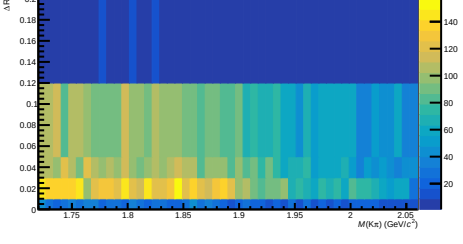
9 < p_{T,D^0} < 10 GeV/c (Fit failed) (Fit failed)

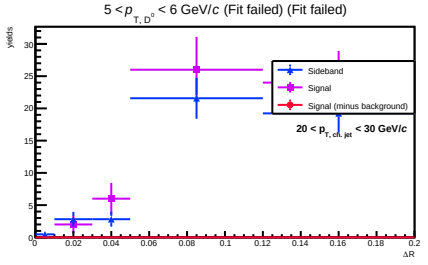


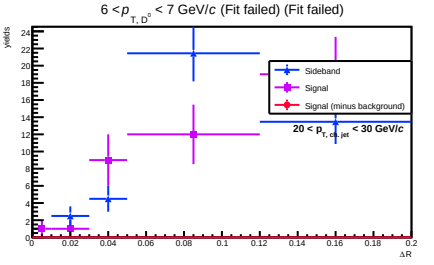
10 < p_{T,D^0} < 12 GeV/c

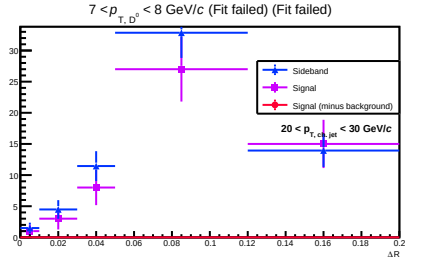


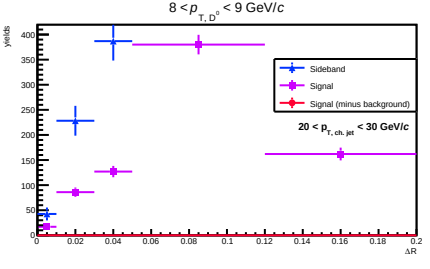
12 < p_{T,D^0} < 20 GeV/c

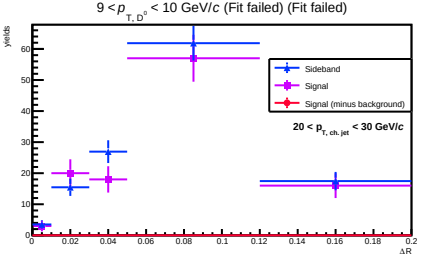


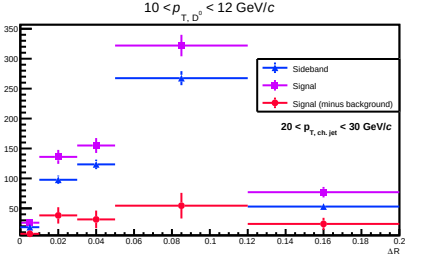

5 < p T, D° < 6 GeV/c (Fit failed) (Fit failed)
yields
ΔR
Sideband
Signal
Signal (minus background)
20 < p T, ch. jet < 30 GeV/c

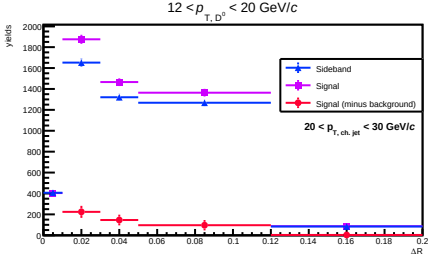

6 < p T, D° < 7 GeV/c (Fit failed) (Fit failed)
yields
ΔR
Sideband
Signal
Signal (minus background)
20 < p T, ch. jet < 30 GeV/c

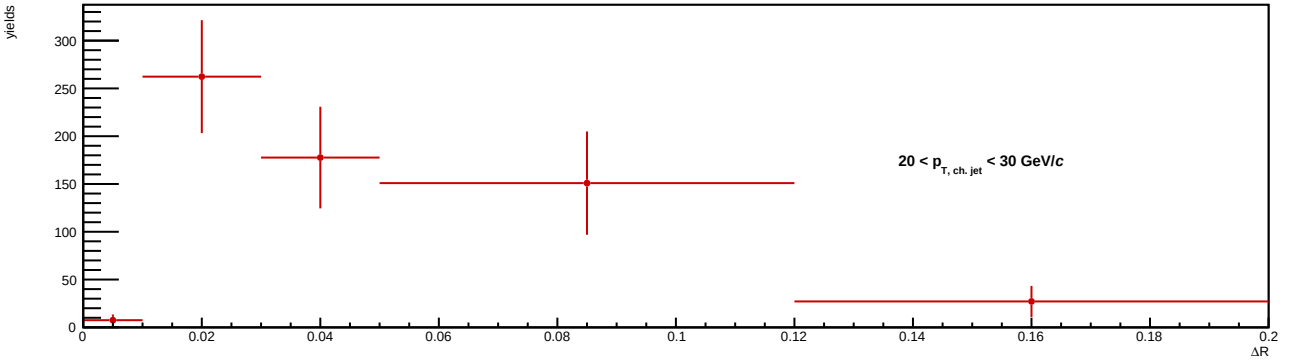

7 < p T, D° < 8 GeV/c (Fit failed) (Fit failed)
yields
ΔR
Sideband
Signal
Signal (minus background)
20 < p T, ch. jet < 30 GeV/c


8 < p T, D° < 9 GeV/c
yields
ΔR
Sideband
Signal
Signal (minus background)
20 < p T, ch. jet < 30 GeV/c

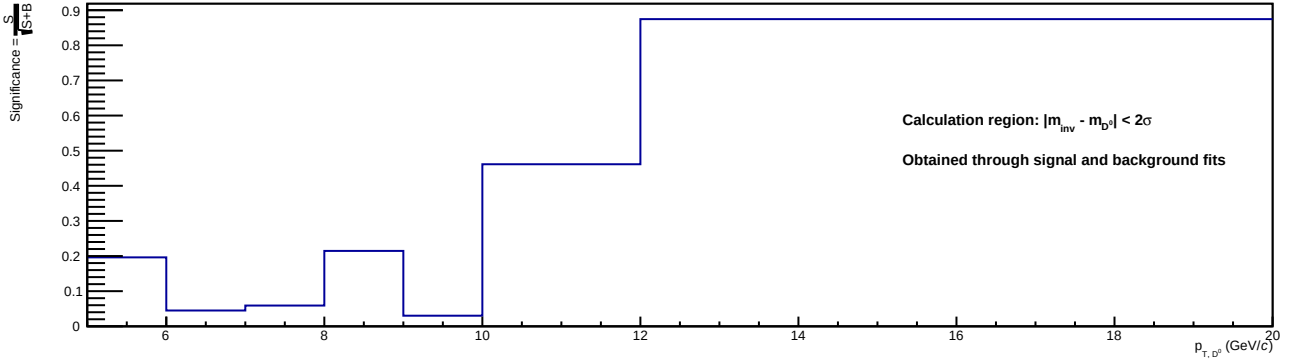

9 < p T, D° < 10 GeV/c (Fit failed) (Fit failed)
yields
ΔR
Sideband
Signal
Signal (minus background)
20 < p T, ch. jet < 30 GeV/c

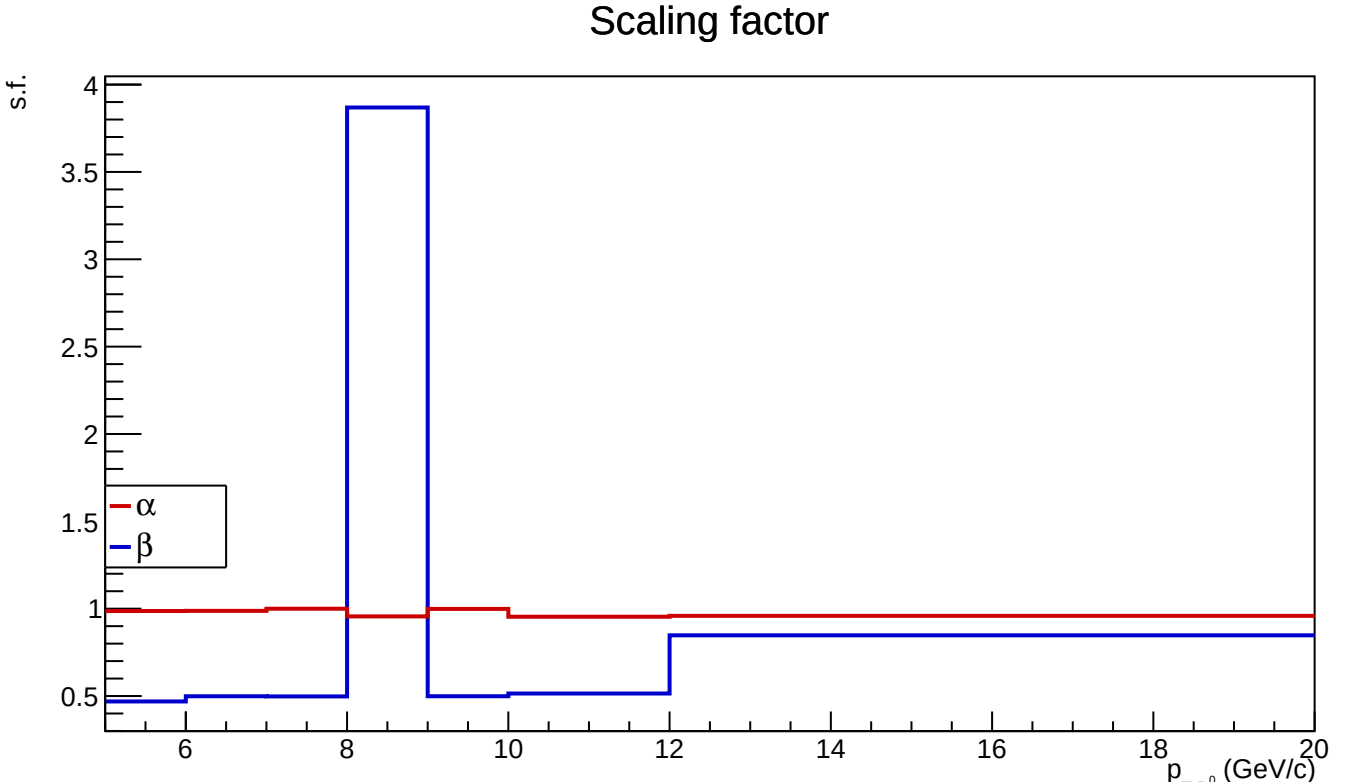

10 < p T, D° < 12 GeV/c
yields
ΔR
Sideband
Signal
Signal (minus background)
20 < p T, ch. jet < 30 GeV/c


12 < p T, D° < 20 GeV/c
yields
ΔR
Sideband
Signal
Signal (minus background)
20 < p T, ch. jet < 30 GeV/c



Estimated significance for each $m_{invariant}$ distribution bin




Scaling factor
s.f.
4
3.5
3
2.5
2
1.5
1
0.5
α
β
6
8
10
12
14
16
18
20
p_{T,D^0} (GeV/c)