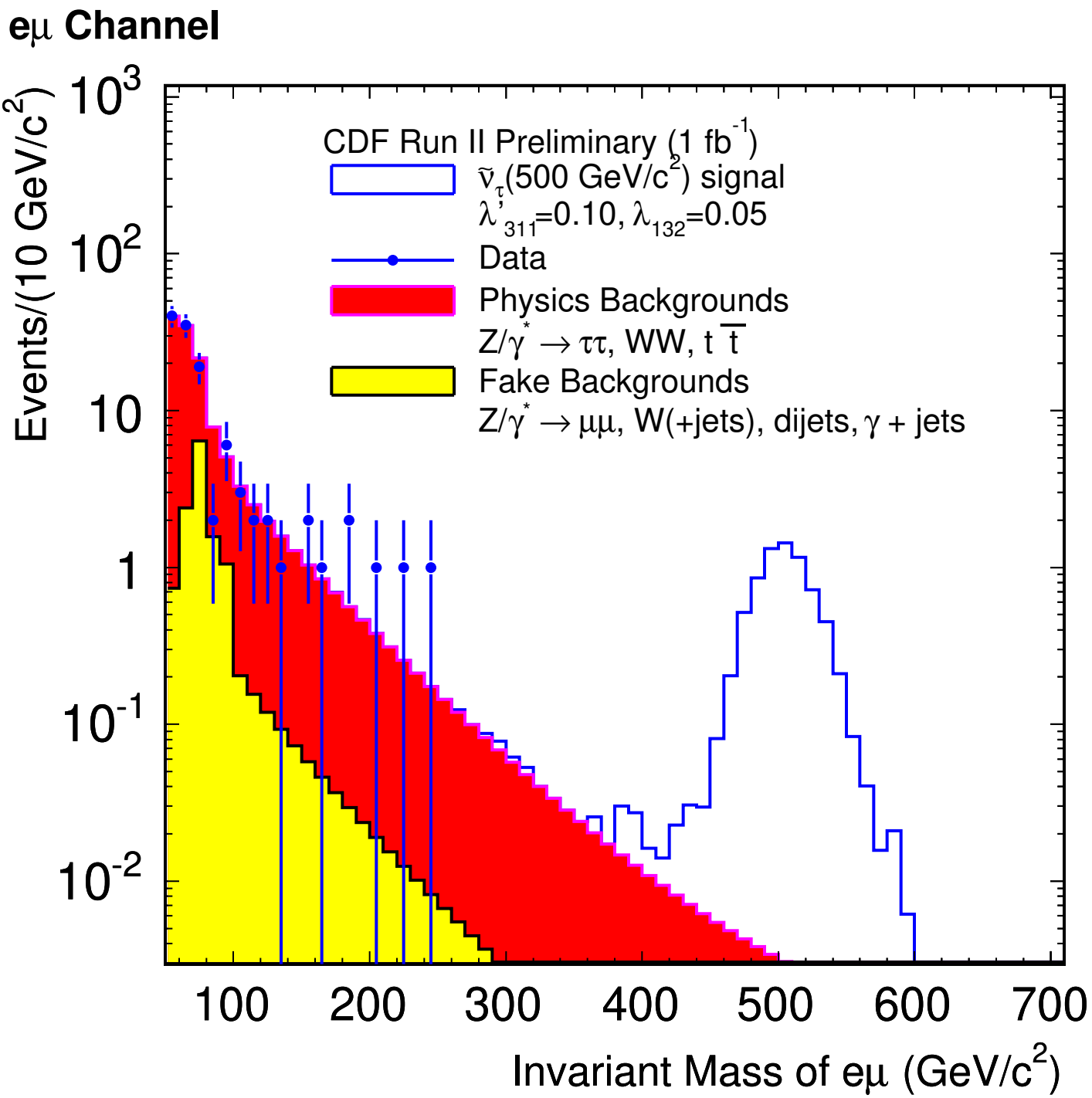
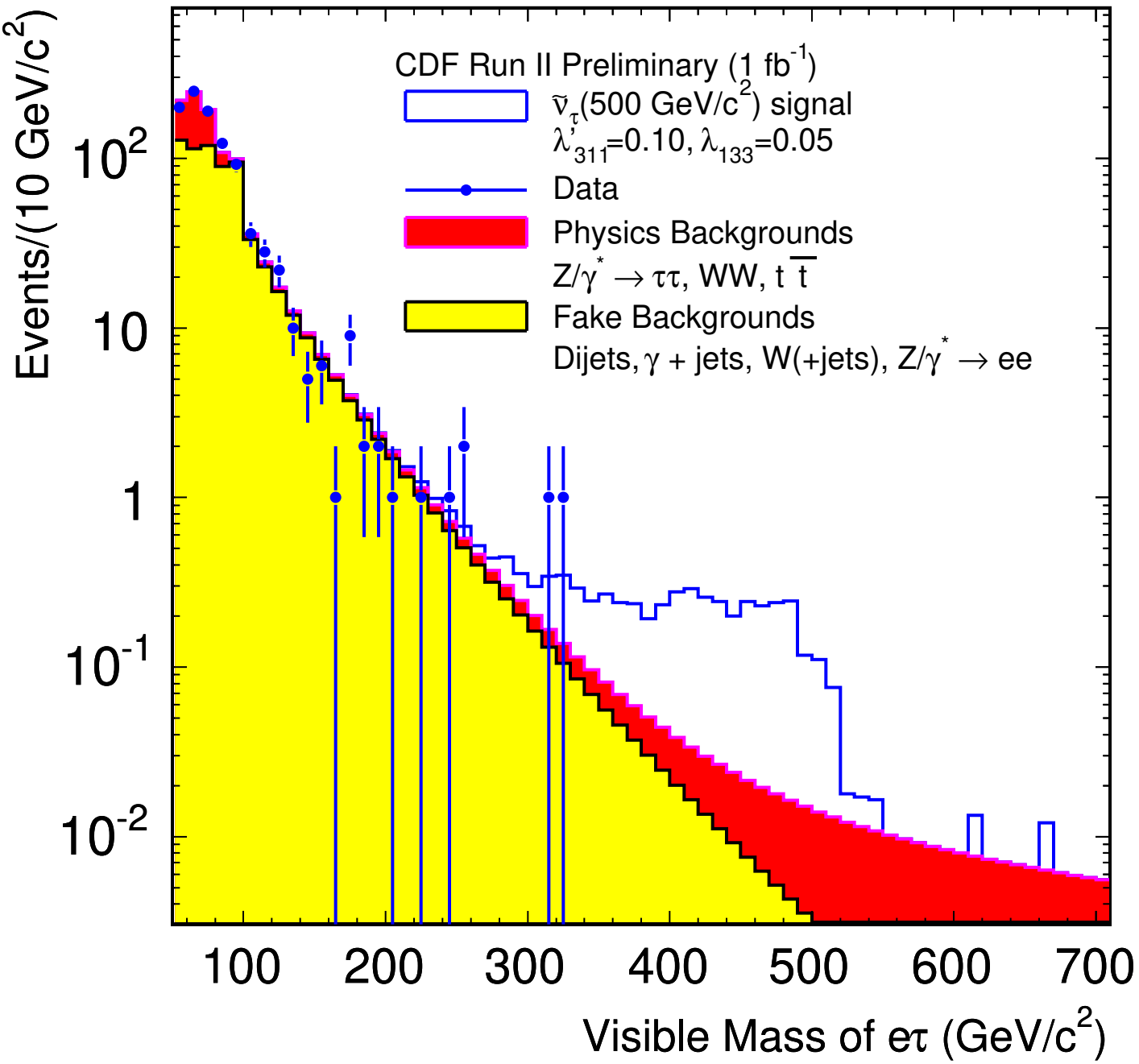
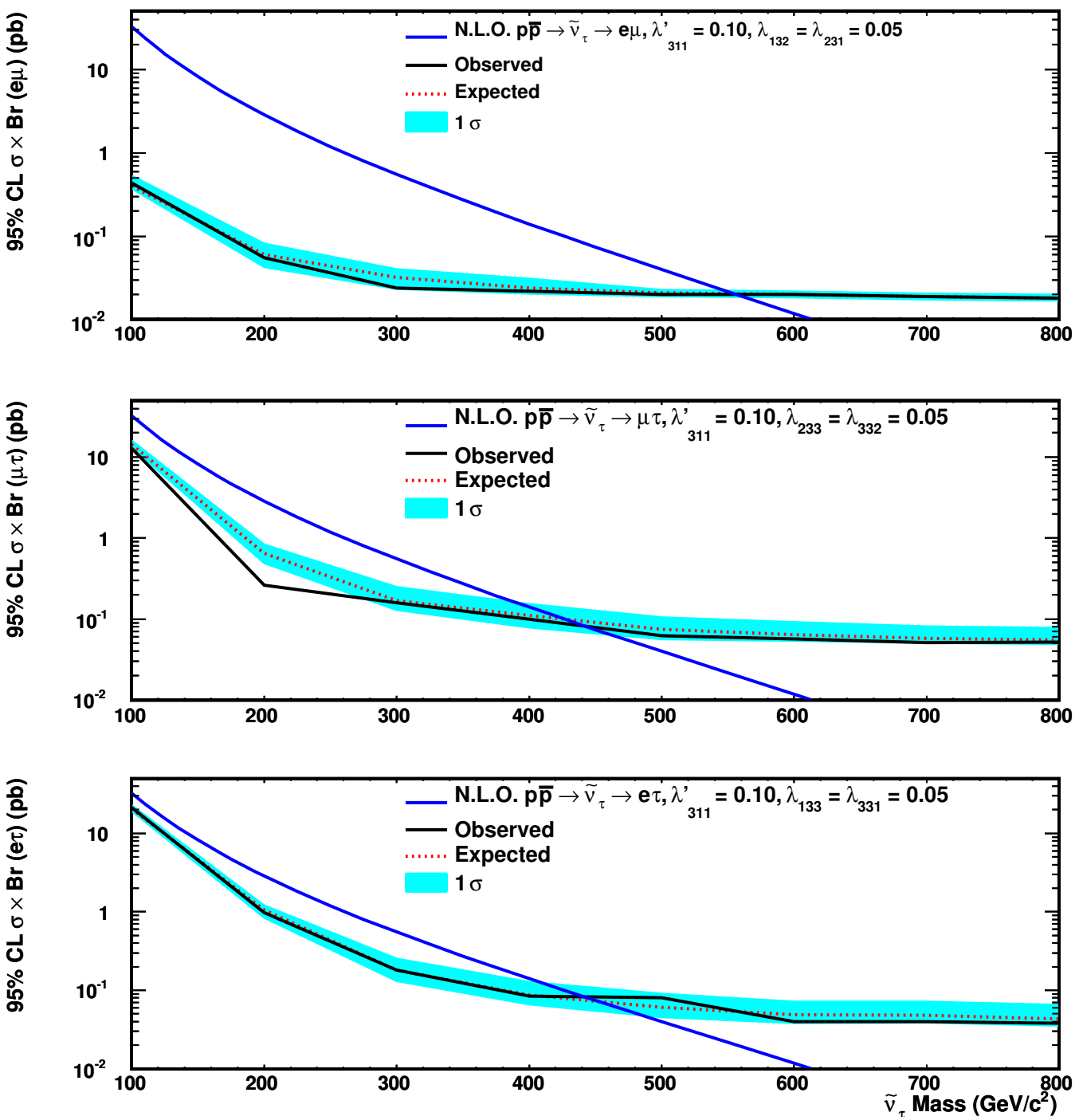
ov 2009 fig


eμ Channel
CDF Run II Preliminary (1 fb-1)
ν̃τ(500 GeV/c2) signal
λ'311=0.10, λ132=0.05
Data
Physics Backgrounds
Z/γ* → ττ, WW, t t̄
Fake Backgrounds
Z/γ* → μμ, W(+jets), dijets, γ + jets
Events/(10 GeV/c2)
Invariant Mass of eμ (GeV/c2)
10^3
10^2
10
1
10^-1
10^-2
100
200
300
400
500
600
700

eτ Channel


CDF Run II Preliminary (1 fb^{-1})
$\tilde{\nu}_\tau$(500 GeV/c^2) signal
λ'_{311}=0.10, λ_{133}=0.05
Data
Physics Backgrounds
$Z/\gamma^* \rightarrow \tau\tau$, WW, $t\bar{t}$
Fake Backgrounds
Dijets, γ + jets, W(+jets), $Z/\gamma^* \rightarrow ee$
Events/(10 GeV/c^2)
10^2
10
1
10^{-1}
10^{-2}
100
200
300
400
500
600
700
Visible Mass of eτ (GeV/c^2)


95% CL σ × Br (eμ) (pb)
N.L.O. pp̄ → ν̃τ → eμ, λ'311 = 0.10, λ132 = λ231 = 0.05
Observed
Expected
1 σ
95% CL σ × Br (μτ) (pb)
N.L.O. pp̄ → ν̃τ → μτ, λ'311 = 0.10, λ233 = λ332 = 0.05
Observed
Expected
1 σ
95% CL σ × Br (eτ) (pb)
N.L.O. pp̄ → ν̃τ → eτ, λ'311 = 0.10, λ133 = λ331 = 0.05
Observed
Expected
1 σ
10
1
10-1
10-2
100
200
300
400
500
600
700
800
ν̃τ Mass (GeV/c2)