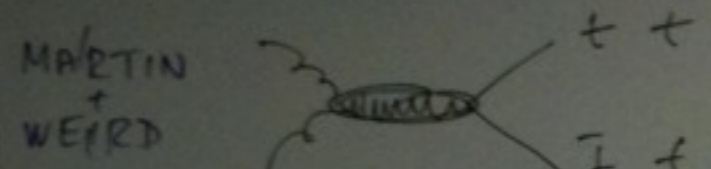


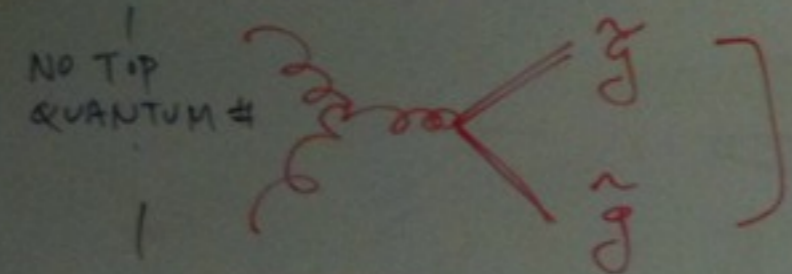
Heavy Flavor: Progress Report

$t-t, b-$
 $t\bar{t} \phi_{t\bar{t}}^c$
 $t\bar{b} H^{+c}$
 $t\bar{t} \phi_{0,3}^{j=0,1c}$
 $t\bar{t} \Delta_{tt}^c$
 $t\bar{b} \Delta_{t\bar{b}}^c$
 $t\bar{t} \tilde{T}^c$

 $t X_t X_B$

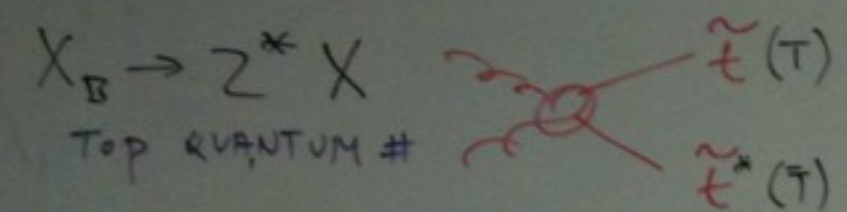


$\phi, W', Z', \Delta_{tt}$ "double" top



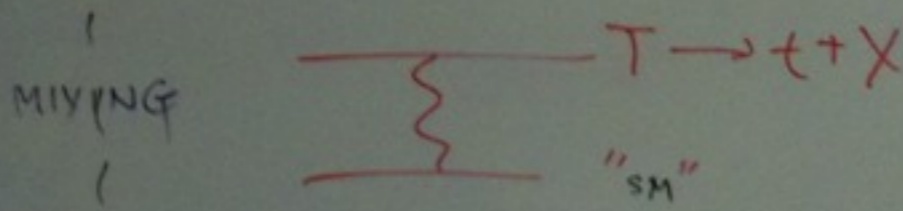
$t\bar{t}\bar{t}\bar{t}$
 SUSY
 $t\bar{t}b\bar{b} + X_{LL}$

colored singlets



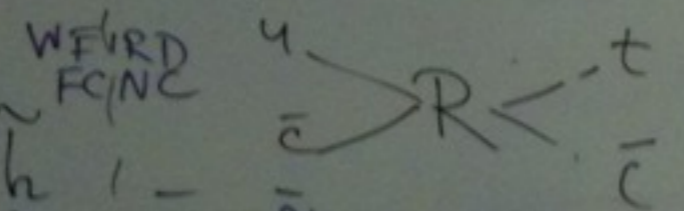
$T \rightarrow t\bar{t}t$
 4th gen SUSY

$t^* \rightarrow t g$

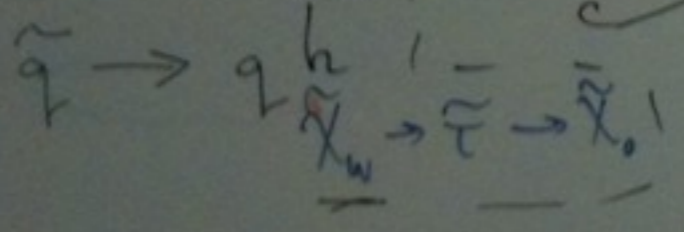


$T \rightarrow t + X$
 4th gen mixing

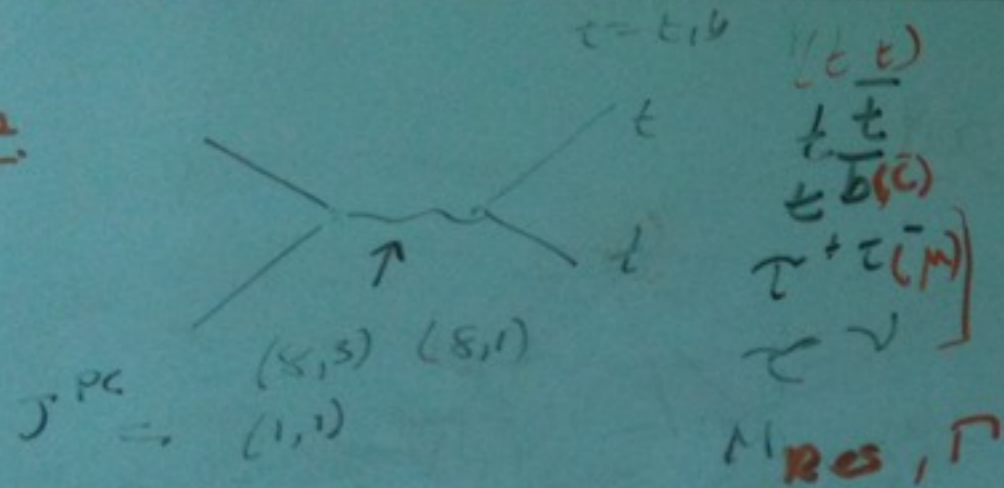
$j j z^+ z^- \tilde{E}_T$



HORIZONTAL SYMM.
 single top



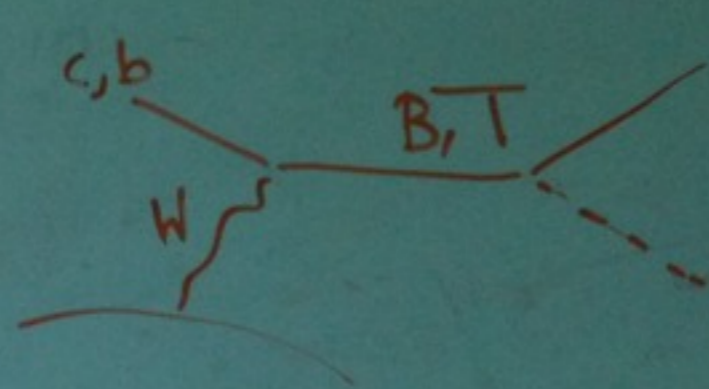
Resonances



HFR = "heavy flavor Resonance"

$W^+ \rightarrow$
 $C^+ \rightarrow$

Γ_{RES}, Γ
 $\sigma \cdot BR$



$t Z/W$
 $b Z/W + j$
 $b, t h$

single heavy quarks

$b^+ Z B$

$\sigma \cdot Br, M$