

# Hard Susy (1)

- $C_1 \rightarrow N_1 W$  and  $N_2 \rightarrow N_1 Z$ 
  - BRs and backgrounds
  - $R(W/Z)$  vs  $N_{\text{jet}}$ ?
- $\tilde{\ell} \rightarrow \ell N_1$  and  $\Delta M \rightarrow 0$
- $\tilde{q} \rightarrow q N_1, \tilde{g} \rightarrow q \bar{q} N_1$  and  $\Delta M \rightarrow 0$ 
  - ISR tags have large systematics
- Wino or Higgsino LSP
  - leptonic decays lost
  - difficult if just ino production
- $\tilde{\tau}$  is NLSP or dominates decays
  - “tau”  $\simeq$  skinny jet
- superheavy  $\tilde{q}, \tilde{g}$ , all else light
  - SUSY normalized away?



# Hard Susy (2)

Increased pile-up will weaken effectiveness of triggers

- soft leptons  $\Rightarrow$  high- $p_T$  jet trigger
- soft jets  $\Rightarrow$  high- $p_T$  lepton trigger

