Signal vs Background at  $\sqrt{s} = 91 \text{ GeV}$ Num. of secondary vertices in max hem. 0.40  $B_s \rightarrow \tau^+ \tau^- (\tau \rightarrow 3\pi \nu_\tau)$  $B_s \rightarrow \tau^+ \tau^- (inclusive)$ 0.35  $Z^0 \rightarrow b\bar{b}(bkg)$  $Z^0 \rightarrow c\bar{c}(bkg)$ 0.30  $Z^0 \rightarrow s\bar{s}(bkg)$ Normalized events 0.20 - 0.15 - 0.15  $Z^0 \rightarrow u\bar{d}(bkg)$ 0.10 0.05 0.00 Num. of secondary vertices in max hem.