Background Suppression

- Improved Mass resolution in M_{D^0} and δM win more than a factor of 5 over CLEO-II
  - Background scales with area of signal region
- $D^0 \to KK, \pi\pi$ + 1 mis-ID $\to 8\sigma$ between M_{D^0} and reflection.
- $D^0 \to K^-\pi^+$ + 2 mis-ID $\to \sim 75\%$ of decays are *asymmetric enough* to provide $>4\sigma$ kinematic separation.
- $D^{*+} \to {\pi^+}_s D^0$, $D^0 \to \pi^\pm$ X + random $\pi^\mp$ + 1 mis-ID:
  - Bad Vertex χ^2's
  - Lower(higher) density when mis-ID is slow(fast)
  - Suppressed by upgraded CLEO particle ID