Systematical Errors

(preliminary)

- I Absolute procedure
  - efficiency
  - number of events overall $\sim$15% for m <0.2
  - charged multiplicity

  analysis cuts (S/B$\ll$1) addit.10-20% for m >0.2

  $\Rightarrow$ $\underline{\leq 25\ \%\ \text{for}\ m > 0.2\ \text{GeV/c}^2}$

- II Relative procedure
  - fit measured data to decay cocktail for $m < 0.2$
    $\rightarrow$ lower bound to high mass region

  N_{π^0}/N_{ch}
  p_T-distrib. overall $\sim$8% for $m < 0.2$
  y-distrib,
  η-and ω Dal. contrib.

  analysis cuts (S/B$\ll$1) as above

  $\Rightarrow$ $\underline{\leq 20\ \%\ \text{for}\ m > 0.2\ \text{GeV/c}^2}$

- Conclusion
  - statistical error at 40 AGeV ($\sim$30%) dominant