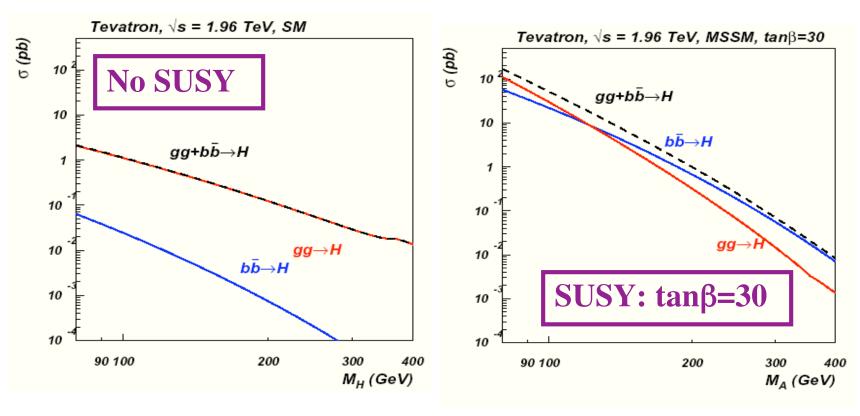
## Some Slides for Pier's Information

## SUSY enhances Higgs Cross Sections with tan<sup>2</sup>β



- Enhancement due to larger coupling to down-type quarks
- "Reasonable" values of tanβ are 5-50
- Limits from LEP: ≈90 GeV

## Higgs: A->bb vs A->ττ

- The two searches are complementary
- bA->bbb:
  - BR(A->bb) = 90%
  - Backgrounds large => require another b-jet in event (>15 GeV
  - Smaller cross section but larger branching ratio
- A->ττ
  - BR(A->tt) = 8%
  - No requirements of additional jets necessary
  - Larger cross section but smaller branching ratio
- Will gain from combination:
  - Different datasets and different systematics => nearly uncorrelated

