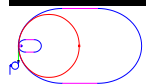


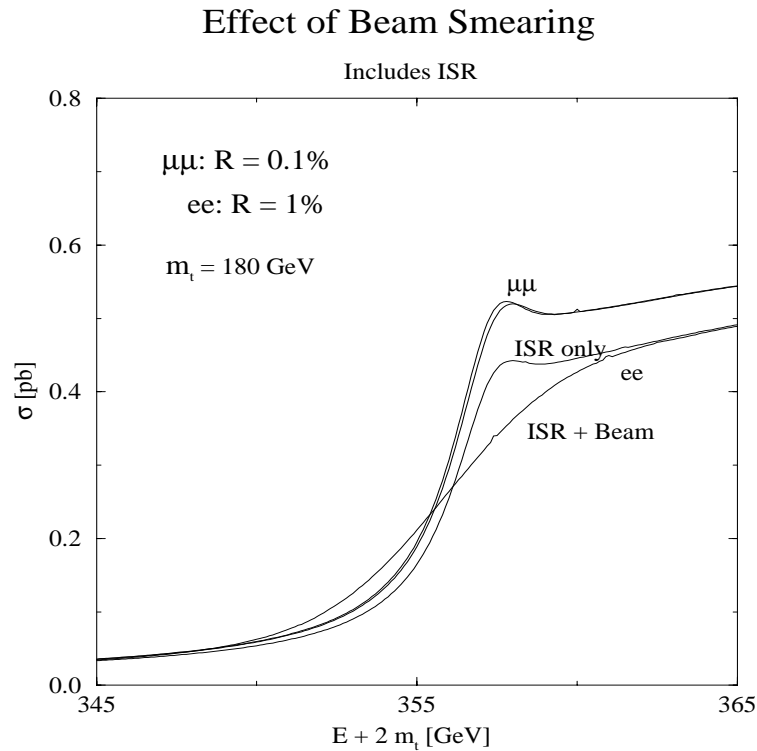
PRECISION THRESHOLD STUDIES TOP QUARK:*

- The $t\bar{t}$ threshold SHAPE determines m_t and $\sigma_{t\bar{t}}$
- Even a conservative natural beam resolution $R \approx 0.1\%$ will increase precision compared with other machines (e^+e^- collider $\rightarrow R \approx 1\%$) Initial state radiation (ISR) is reduced

*



$\mu^+\mu^-$ COLLIDER



The threshold curves are shown for $\mu^+\mu^-$ and e^+e^- machines including ISR and with and without beam smearing. Beam smearing has only a small effect at a muon collider, whereas at an electron collider the threshold region is significantly smeared. The strong coupling is taken to be $\alpha_s(m_Z) = 0.12$.

- Both measurements of m_h , m_t and results for top quark will allow consistency tests of EWSB theory