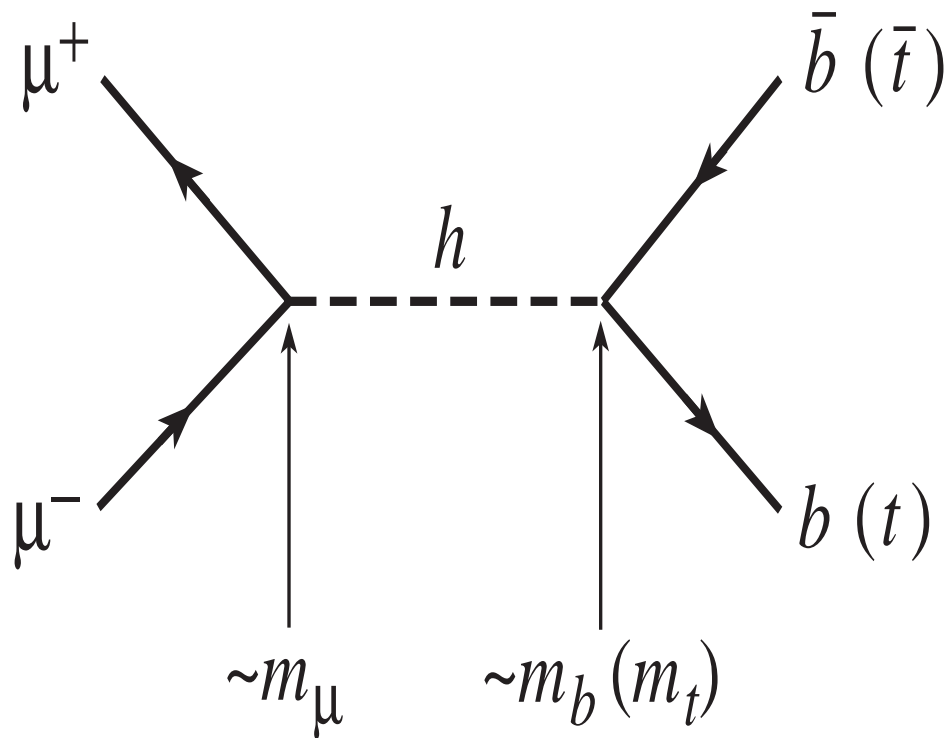


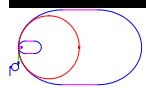
S-CHANNEL HIGGS PHYSICS:*

Standard Model (SM) → one Higgs boson (h)

Minimal Super Symmetric Model (MSSM) →
5 Higgs bosons (h^0, H^0, A^0, H^\pm)



*



$\mu^+ \mu^-$ COLLIDER

- Energy of machine has to be adjusted to m_h
- Energy spread of machine R . The \sqrt{s} rms Gaussian spread $\sigma_{\sqrt{s}}$ (natural spread) has to be smaller or order of m_h
to be sensitive to $h_{SM} \rightarrow R \approx 0.01 \%$
- Requirements:
 1. Luminosity $\mathcal{L} > 10^{33} [cm^{-2}s^{-1}]$ at $\sqrt{s} \approx m_h$
 2. Excellent energy resolution $R \approx 0.01 \%$
 3. Ability to adjust machine energy accurately and quickly over an interval of several GeV