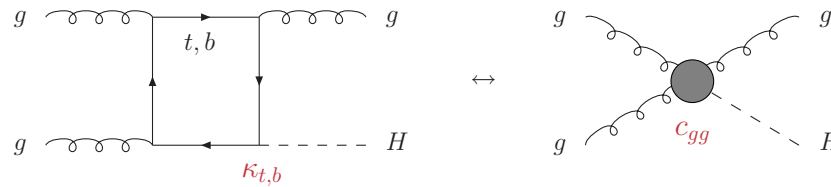
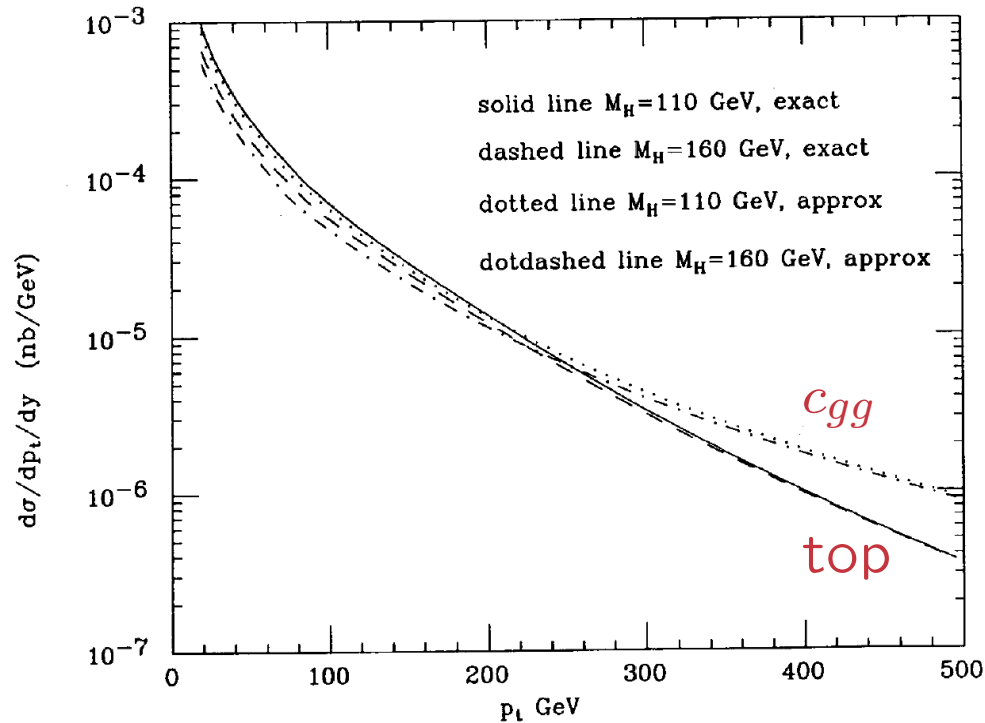


Higgs p_T (or how to prove that ggF is loop-mediated)

$$\mathcal{L} = - \sum_{\psi=u,d,l} m_{\psi^{(i)}} \bar{\psi}^{(i)} \psi^{(i)} \left(1 + \kappa_{\psi} \frac{h}{v} + \dots \right) + \frac{c_{gg}}{2} G_{\mu\nu}^a G^{a\mu\nu} \frac{h}{v} + \dots$$



- distinction dim4 \leftrightarrow dim5: shape of p_T distribution



$m_t = 160 \text{ GeV}$

Ellis, Hinchliffe, Soldate, van der Bij (1987!)

- implementation of dim5 $G^{a\mu\nu} G_{\mu\nu}^a H$ in HIGLU (σ_{tot}, p_{TH}) planned

- QCD corrections only known for $m_t > M_H, p_{TH}$
- Glosser, Schmidt
de Florian, Grazzini, Kunszt
Anastasiou, Melnikov, Petriello
Boughezal, Caola, Melnikov
Chen, Gehrmann, Glover, Jaquier
Harlander, Neumann, Ozeren, Wiesemann