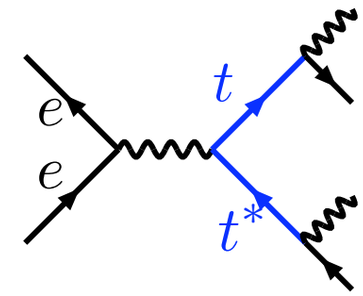
Measuring the W-t-b coupling at the ILC (P. Batra, T. Tait)

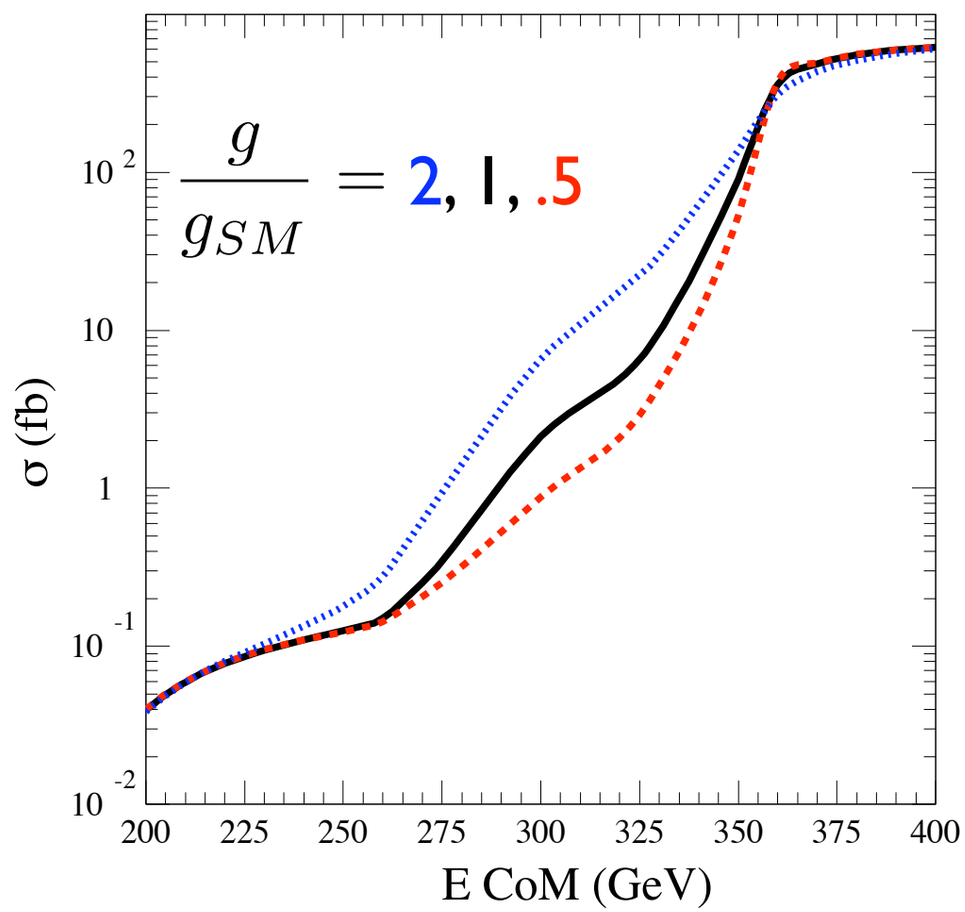
Above threshold, $t\bar{t}$ production is insensitive to the W-t-b coupling

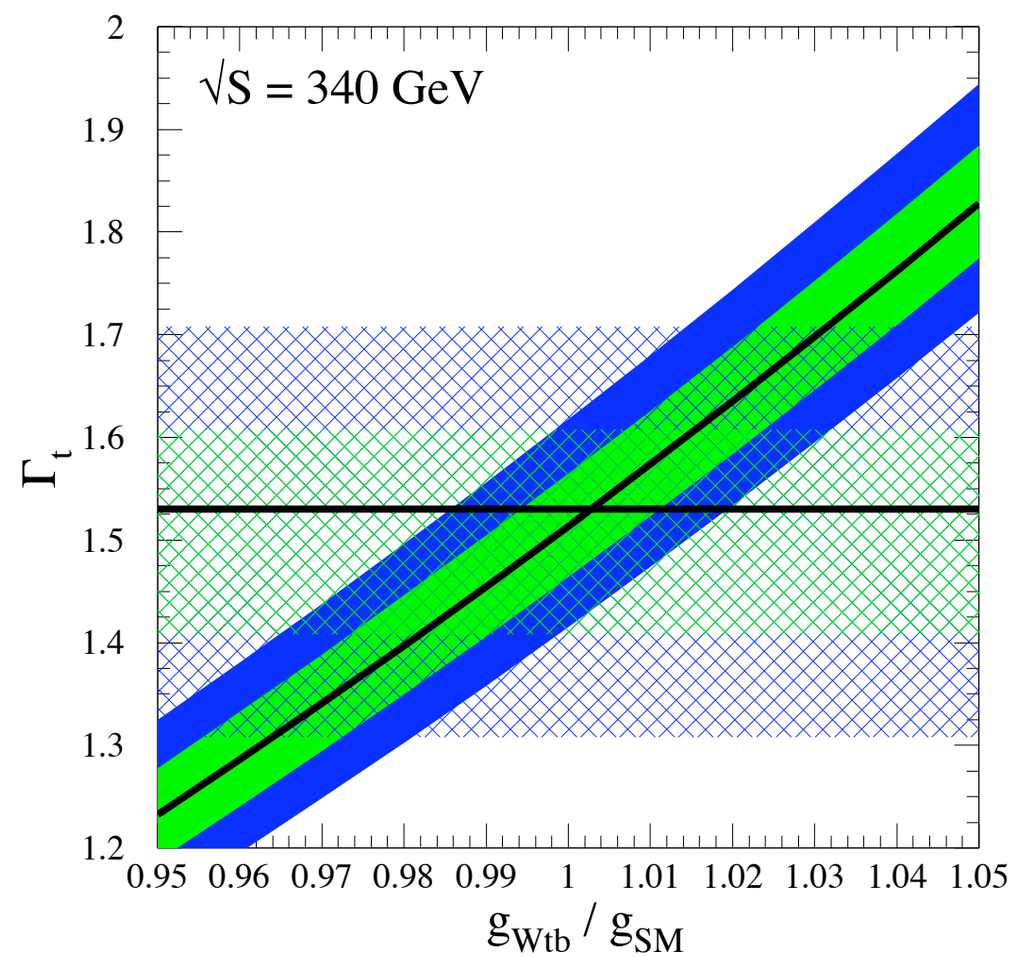


An extended top sector can shift this coupling wtihout opening up new decay channels!
(4th generation, Little Higgs models, Top seesaw, ...)

Crucial test of the Standard Model Electroweak interaction $g\ \bar{t_L}\ \not{W} b_L$

Can go to virtual $t\bar{t}$ production, below threshold, to gain sensitivity.





A few percent measurement of the W-t-b coupling is possible!