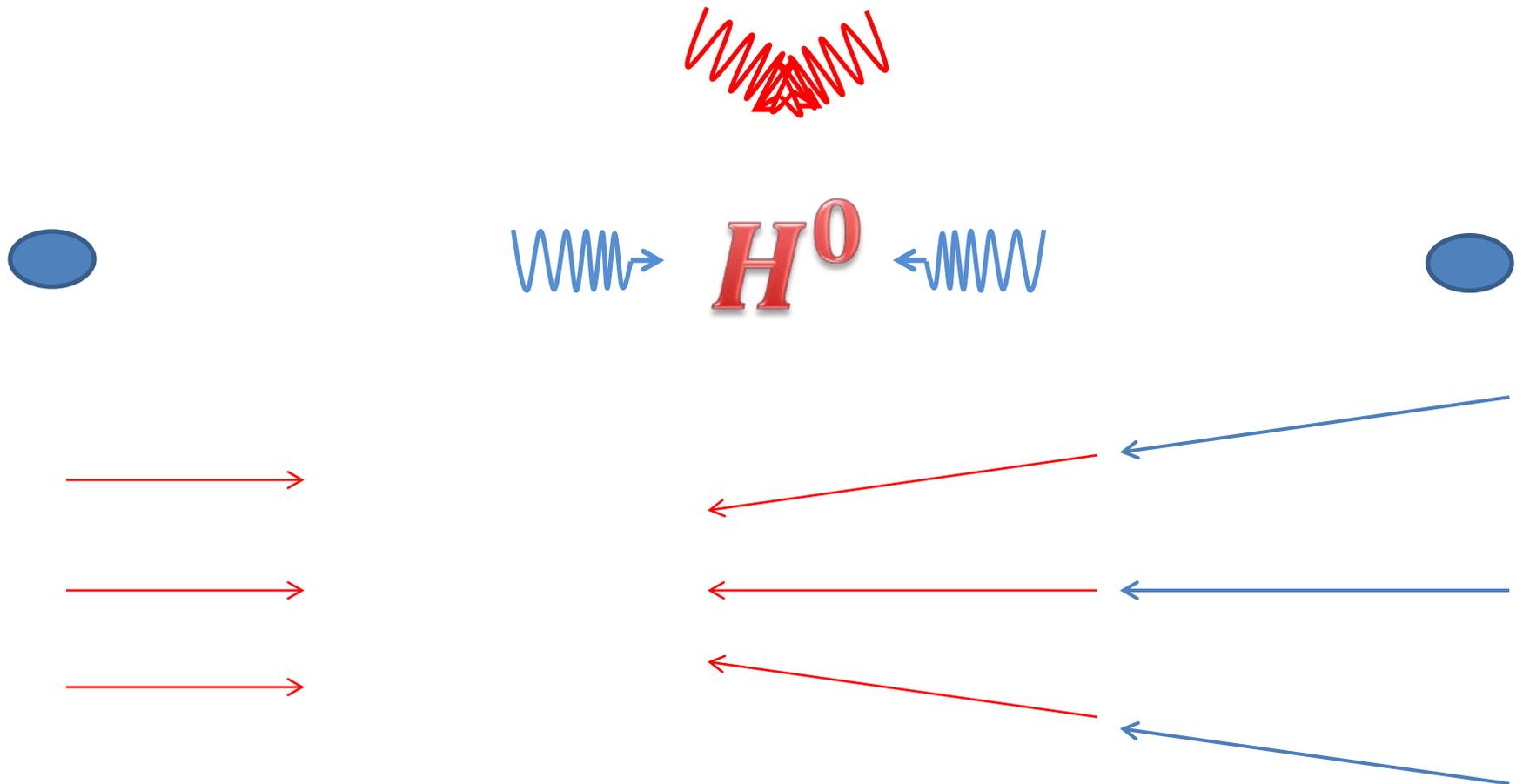


$\gamma\gamma$ Collider at J-Lab

By Edward Nissen

Town Hall meeting Dec 19 2011



Background

$$x = \frac{12.3 E_e (\text{TeV})}{\lambda_\gamma (\mu\text{m})}$$

$$\hbar\omega_\gamma = \frac{x}{1+x} E_e$$

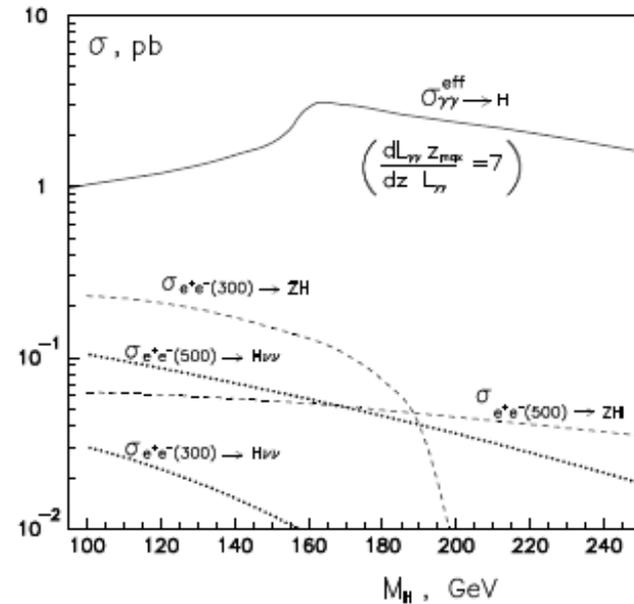
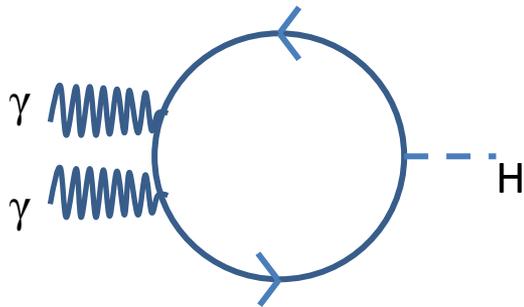


Figure 5: Cross sections for the Standard model Higgs in $\gamma\gamma$ and e^+e^- collisions.

arXiv:hep-ex/9802003v2

Possible Configurations



85 GeV Electron energy
 γ c.o.m. 141 GeV



103 GeV Electron energy
 γ c.o.m. 170 GeV