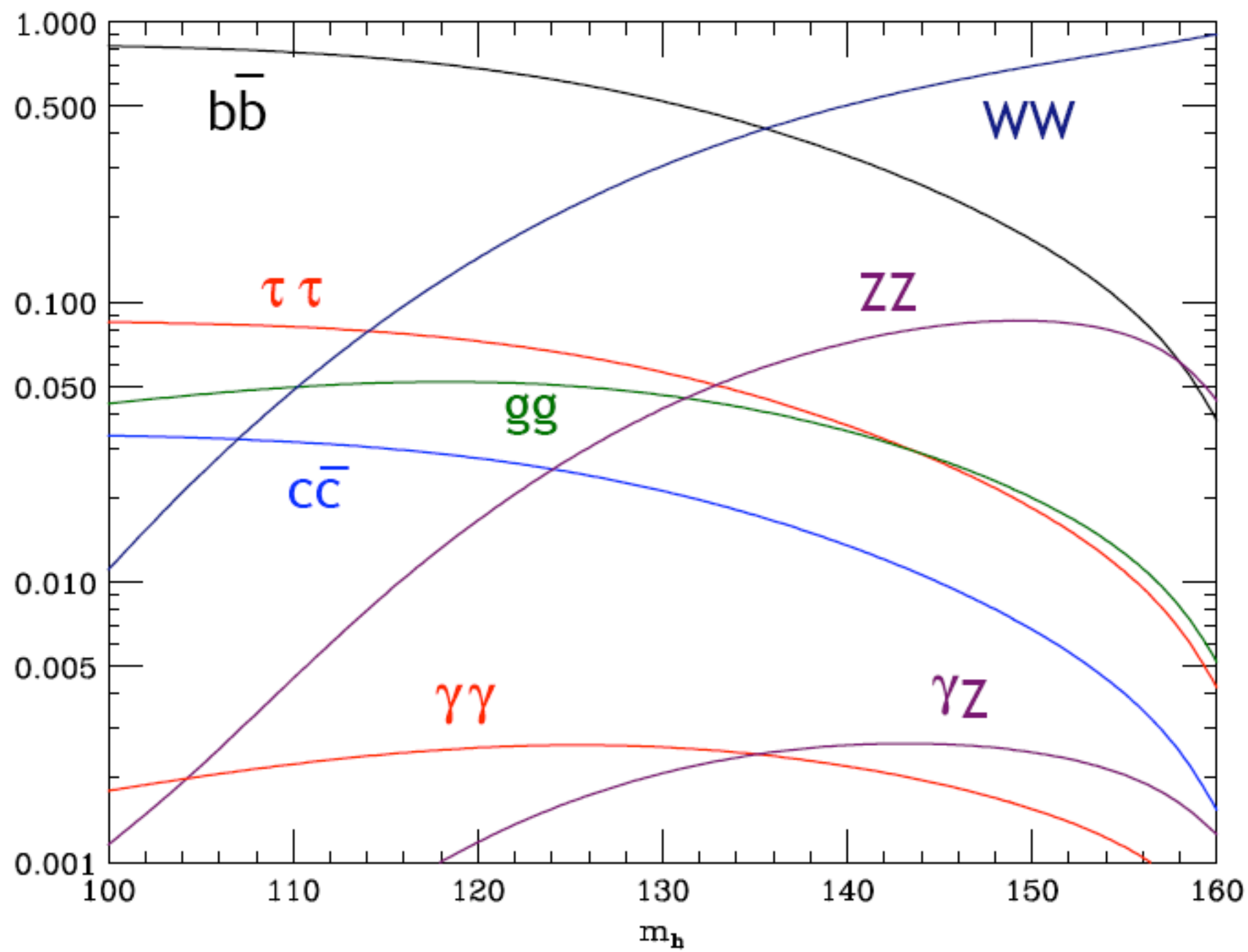
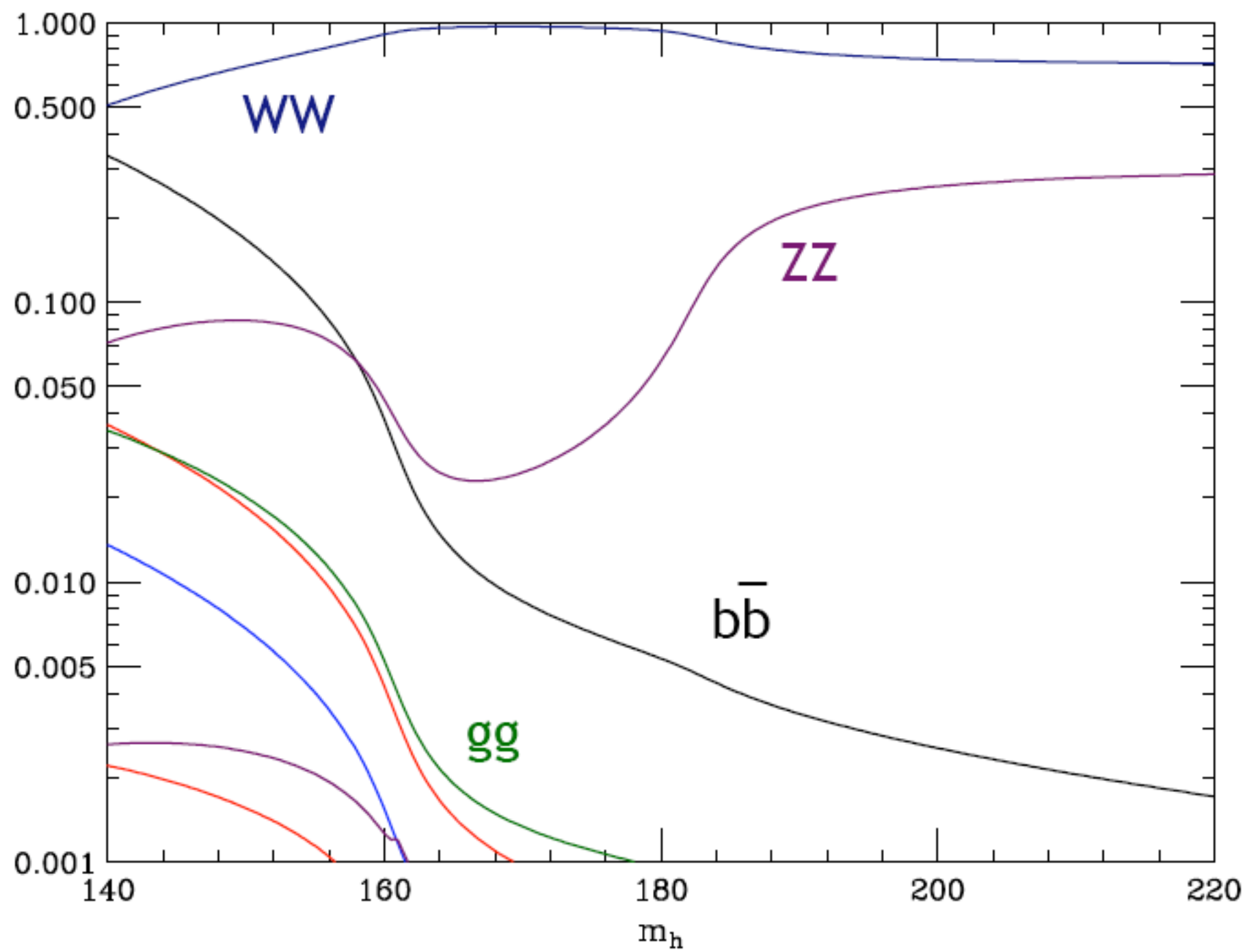


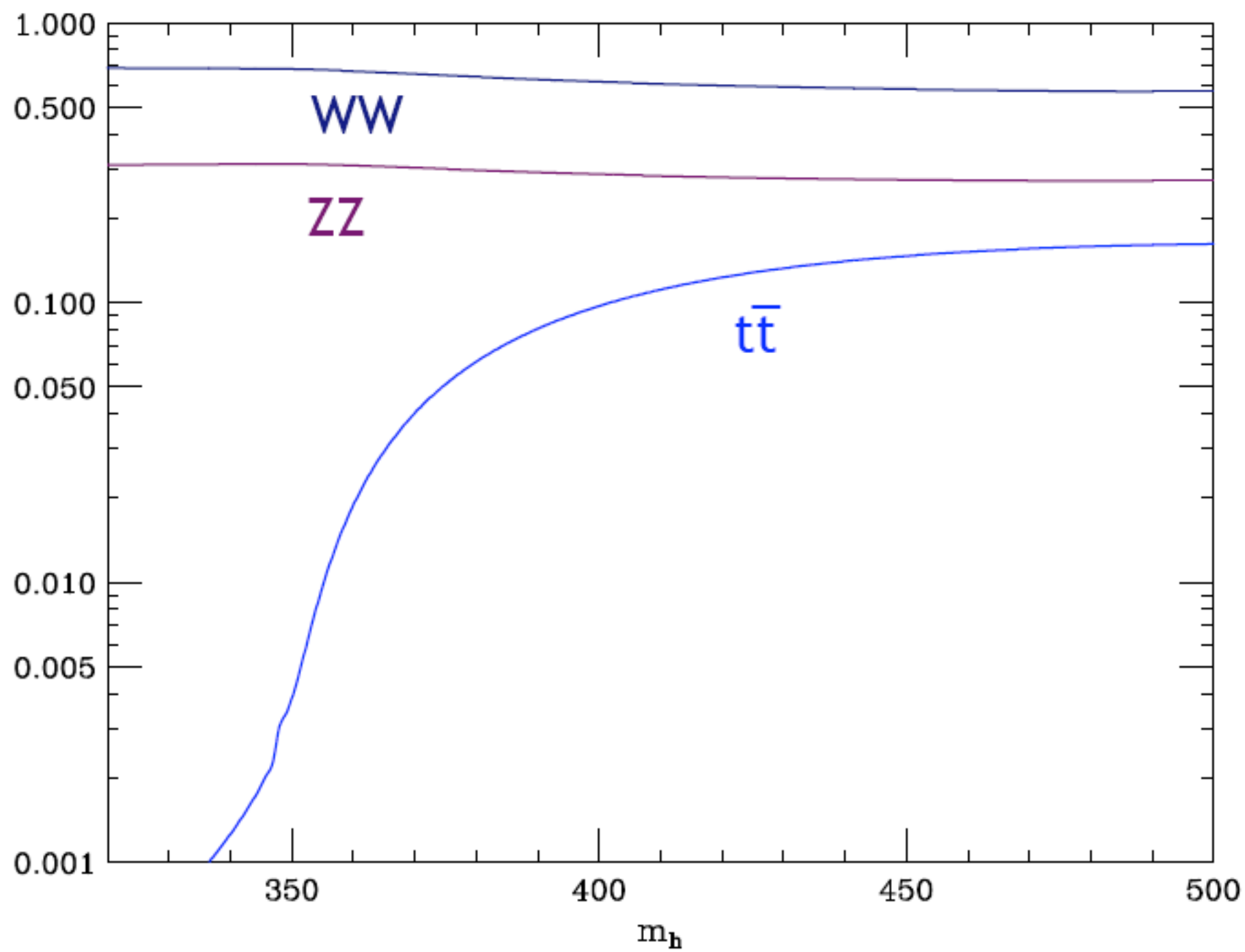
the Standard Model of Particle Physics

figures: Dec. 18
Higgs boson

M. E. Peskin
PSI, December 2009

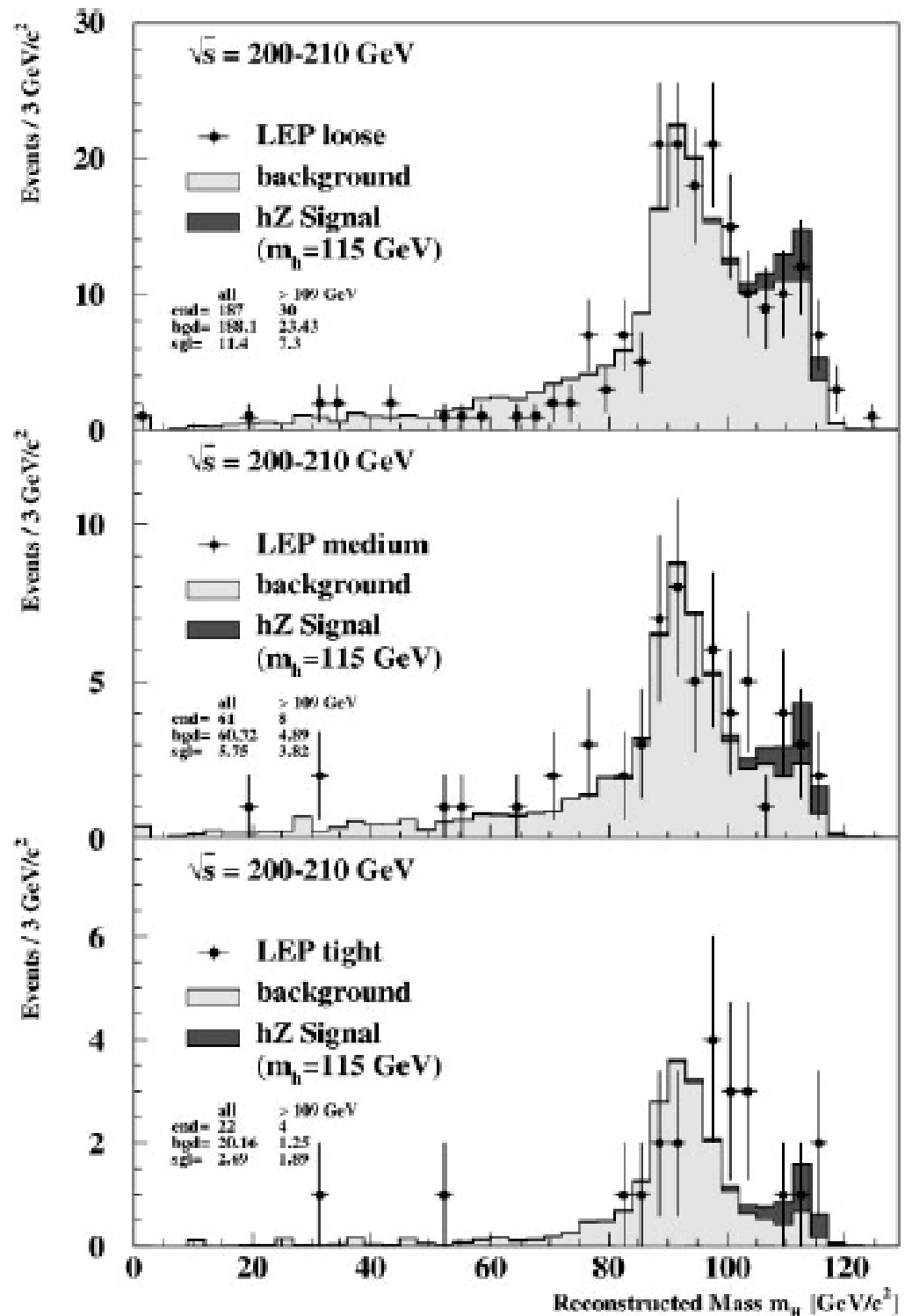




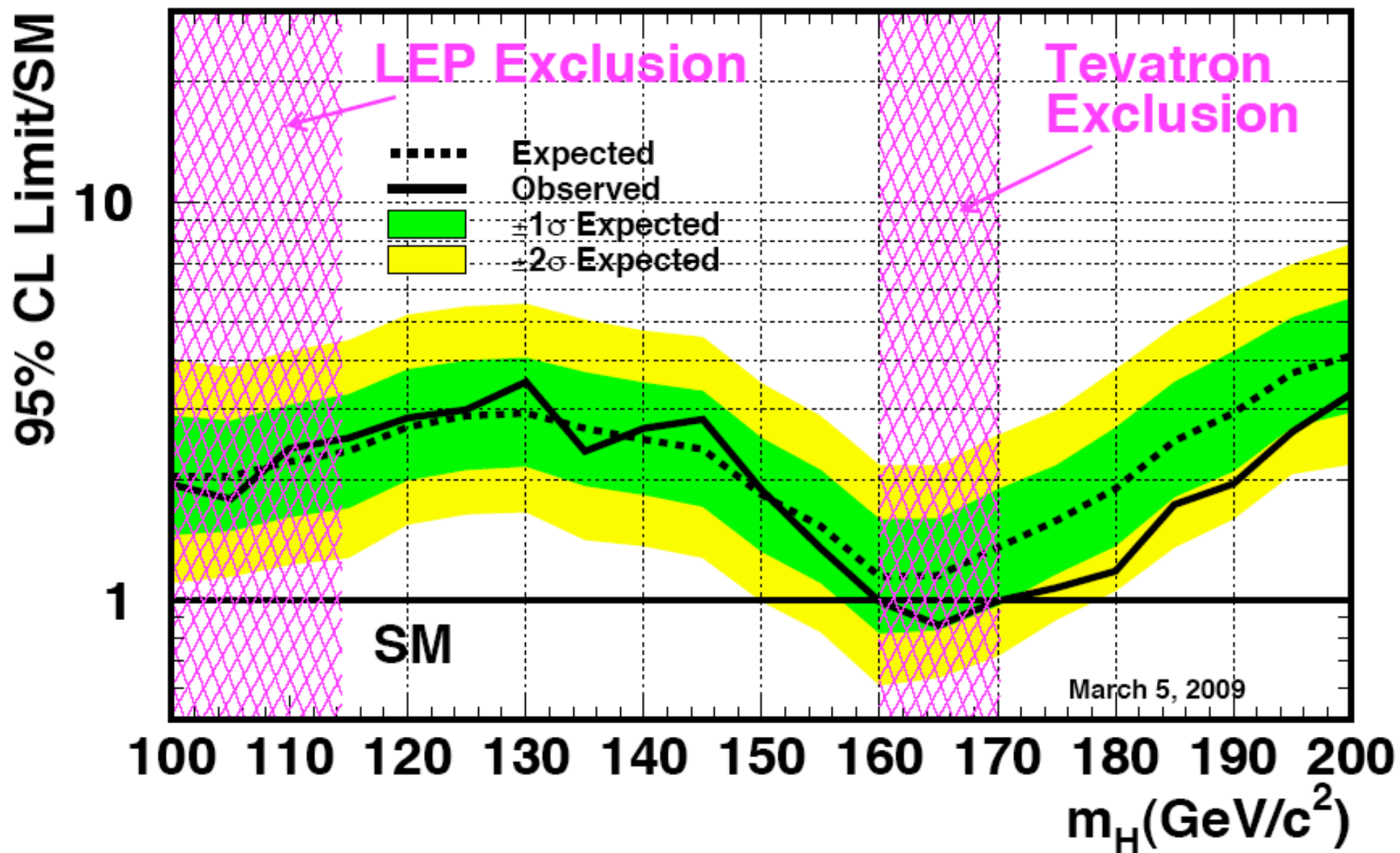


events recorded,
background, and
and expected signal
for $m(h) = 115$ GeV,
from the four LEP
experiments

review of Kado and
Tully

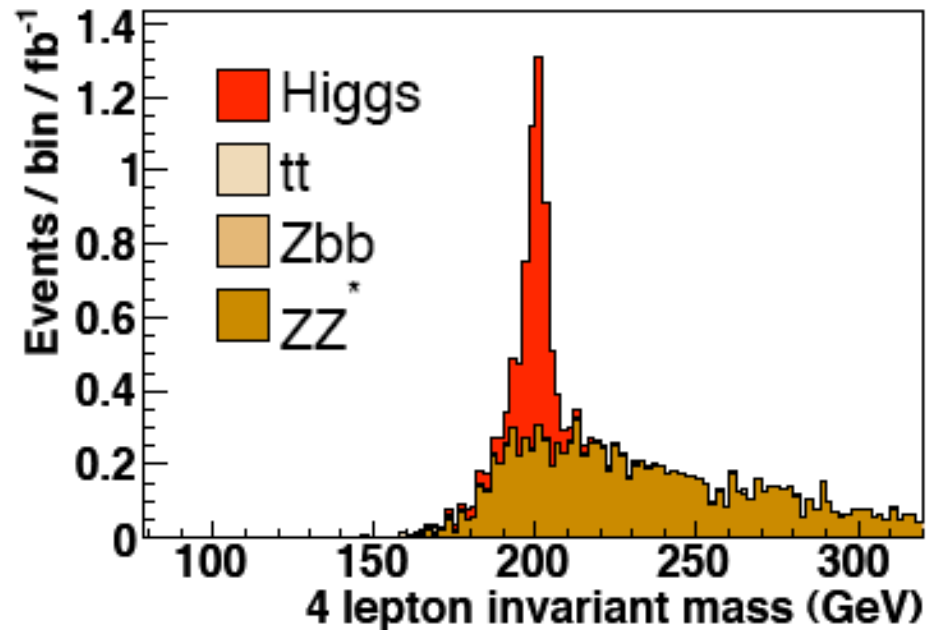
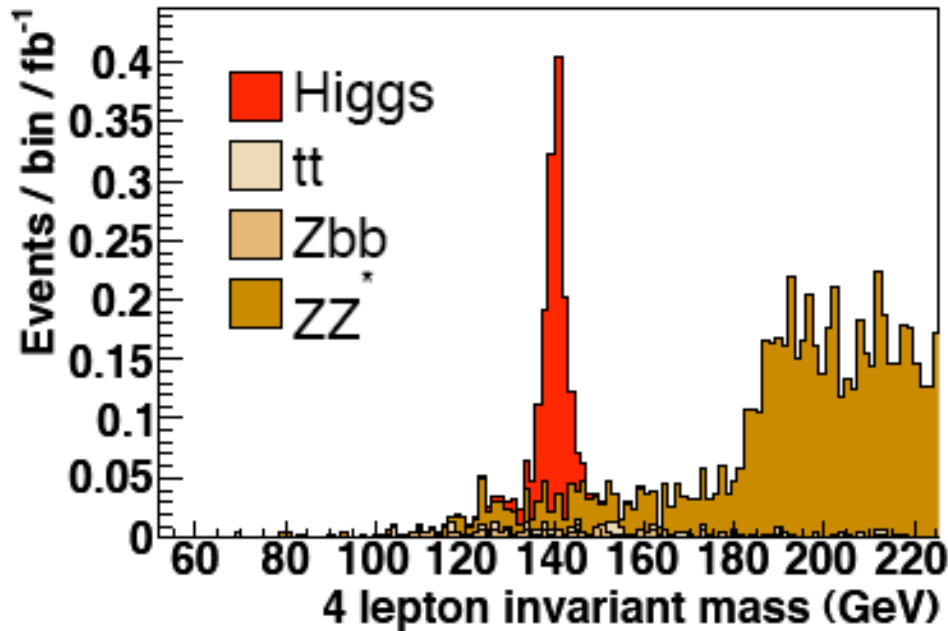
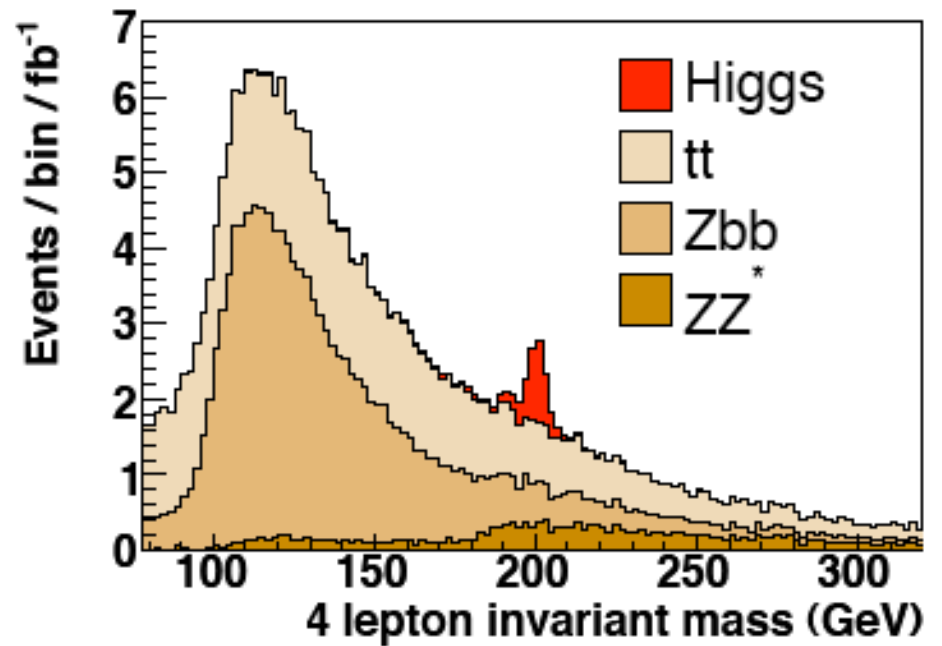
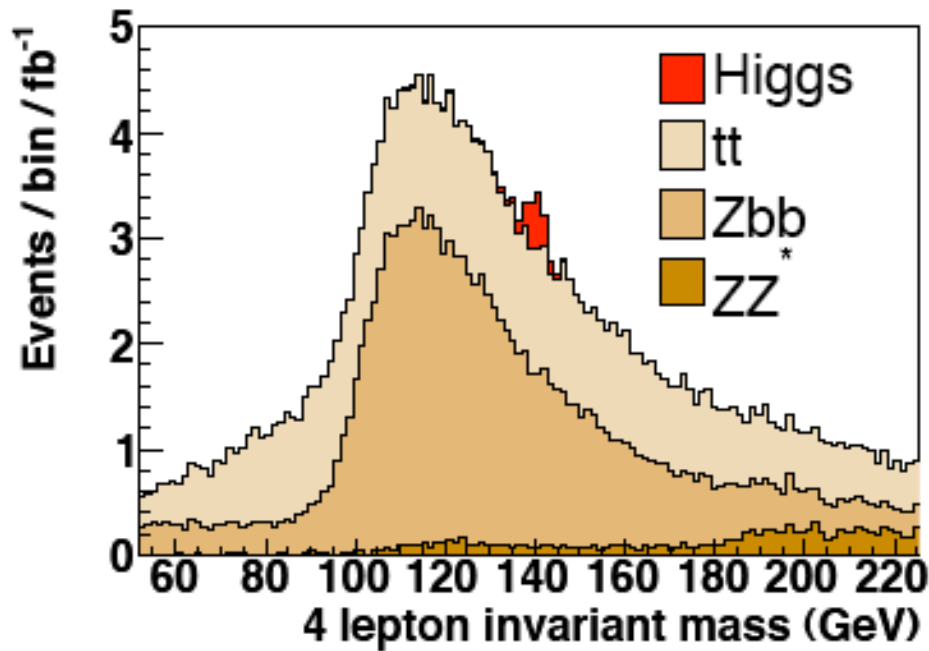


Tevatron Run II Preliminary, $L=0.9-4.2 \text{ fb}^{-1}$



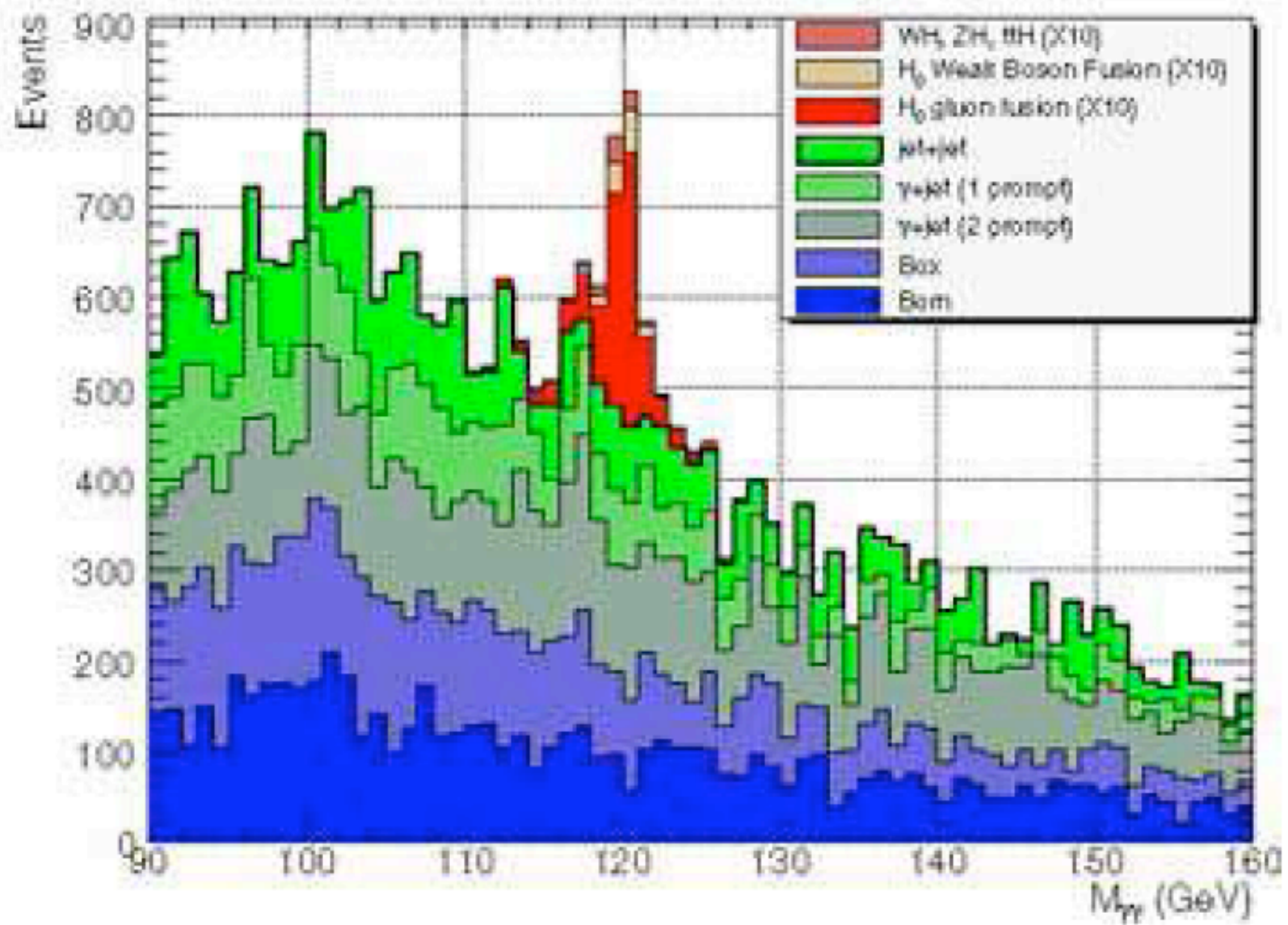
$$h^0 \rightarrow ZZ \rightarrow 4\ell$$

$$m_h = 140, 200 \text{ GeV}$$



CMS

CMS $h^0 \rightarrow \gamma\gamma$ 7.7 fb^{-1}



signal x 10 for visibility

CMS

$$h^0 \rightarrow \tau^+ \tau^- \quad 30 \text{ fb}^{-1} \quad m(h) = 135 \text{ GeV}$$

