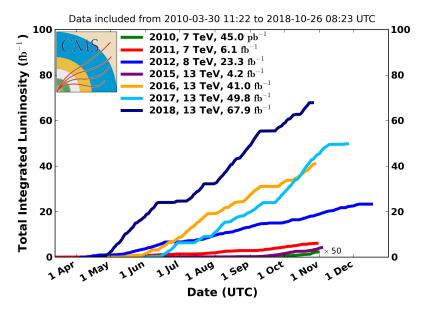
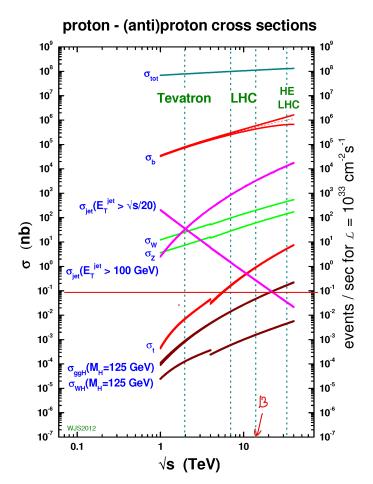
Token 879 199

$$\frac{dNr}{d^{\frac{1}{4}}} = \nabla \mathcal{L} \implies Nr = \int \mathcal{L} \cdot dt$$

Lint lun. (6-1)
integrate.

CMS Integrated Luminosity Delivered, pp



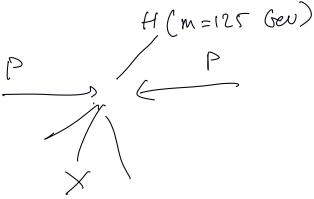


$$N_{H} = 160 \text{ fb} \times 0.1 \text{ nb}$$

$$= 2 \times 10 \times 10 \times 10 \times 10 \times 10^{-9} \times 10^{-9}$$

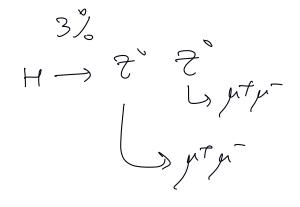
$$= 2 \times 10 \times 10^{-9} \times 10^$$

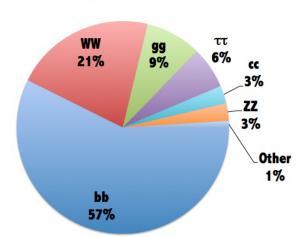
0.1 ab = TH



JS = 13 x 20 GeV

Higgs decays at m_H=125GeV





Broadery Frection H

Z DECAY MODES

	Mode	Fraction (Γ_i/Γ)	Scale factor/ Confidence level
Γ_1 Γ_2 Γ_3	$e^{+}e^{-}\ \mu^{+}\mu^{-}\ au^{+} au^{-}$	(3.363 ± 0.004) % (3.366 ± 0.007) % (3.370 ± 0.008) %	
Γ_4	$\ell^+ \ell^-$	[a] (3.3658±0.0023)%	
Γ_5	invisible	(20.00 ± 0.06) %	
Γ_6	hadrons	(69.91 ± 0.06) %	
Γ_7	$(u\overline{u}+c\overline{c})/2$	(11.6 \pm 0.6) %	
Γ ₈	$(d\overline{d} + s\overline{s} + b\overline{b})/3$	(15.6 \pm 0.4) %	
Γ_9	$c\overline{c}$	(12.03 ± 0.21) %	
Γ_{10}	$b\overline{b}$	(15.12 ± 0.05) %	
Γ_{11}	$b\overline{b}b\overline{b}$	(3.6 ± 1.3) \times	10^{-4}
Γ_{12}	ggg	< 1.1 %	
Γ_{13}	$\pi^0 \gamma$		10 ⁻⁵ CL=95%
Γ_{14}	$\eta \gamma$	< 5.1 ×	10 ⁻⁵ CL=95%
Γ_{15}	$\omega \gamma$	< 6.5 ×	10 ⁻⁴ CL=95%
Γ_{16}	$\eta'(958)\gamma$	< 4.2 ×	10 ⁻⁵ CL=95%
Γ_{17}	$\gamma \gamma$		10 ⁻⁵ CL=95%
Γ_{18}	$\gamma \gamma \gamma$	< 1.0 ×	10 ⁻⁵ CL=95%
Γ ₁₉	$\pi^{\pm}W^{\mp}$	$[b] < 7 \times$	10 ⁻⁵ CL=95%

H → マママ 3).

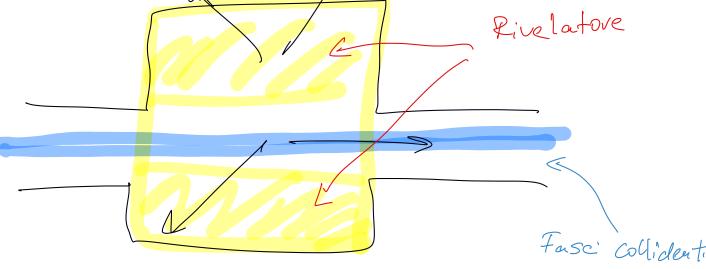
2° → パケ 3%

HTTP://PDG.LBL.GOV

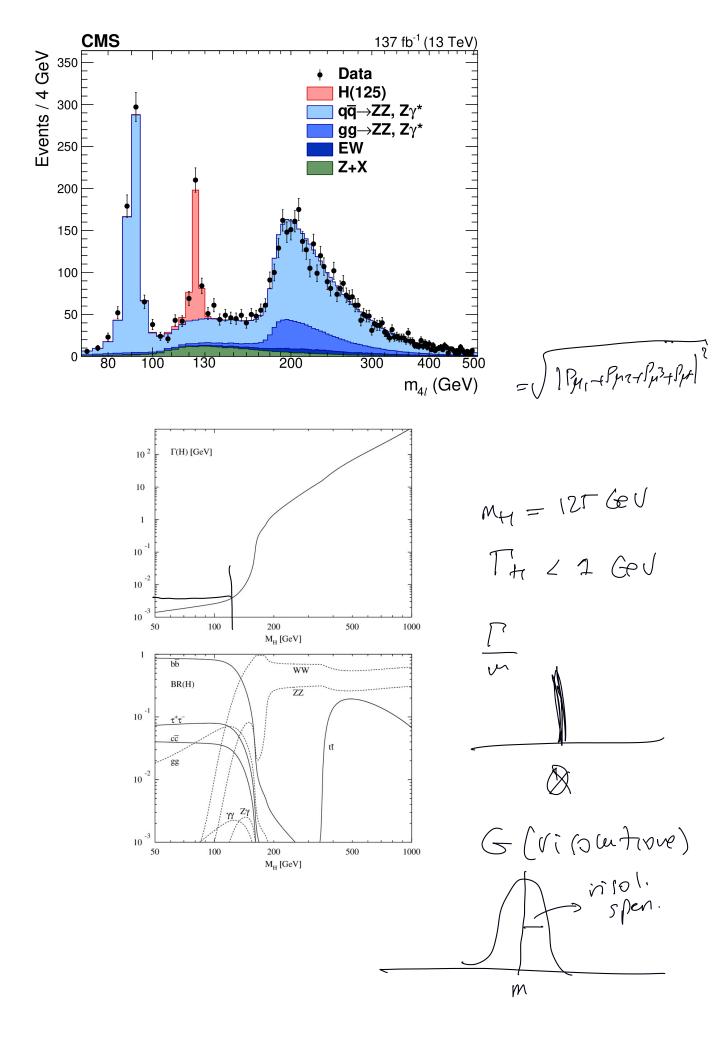
Page 3

Created: 6/18/2012 15:10

 $P+P \rightarrow H+X \rightarrow P^{\circ} T^{\circ} \rightarrow M^{\circ} T^{\circ}$ $Navarti = Lint \cdot T \cdot X BF(H \rightarrow 77) \times BF(T^{\circ} \rightarrow M^{\circ}) \times BF(T^{\circ}$



Min = 1 PM1 + PAR + PM3 + PM6/2



$$\begin{array}{lll}
\overline{X} &=& \beta \Upsilon C T & T &=& 2.2 \mu S. \\
\beta \Upsilon &=& \frac{P}{m} & m_{\pi} &=& 9.1 \text{ GeV} \\
\hline
P_{\sigma} &=& 45 \text{ GeV}.
\end{array}$$

$$\begin{array}{lll}
\overline{P} &=& 45 \text{ GeV}.
\end{array}$$

BVCZ = 4.5× 40° × 3×10° × 2.2× 10° m