Videolezione-2020-03-20

$$\frac{NP}{d+ \cdot S} = \emptyset = NP \cdot |\overrightarrow{NP}|$$

$$\frac{1}{NB} \frac{1}{NP \cdot NP} \frac{dNr}{d+}$$

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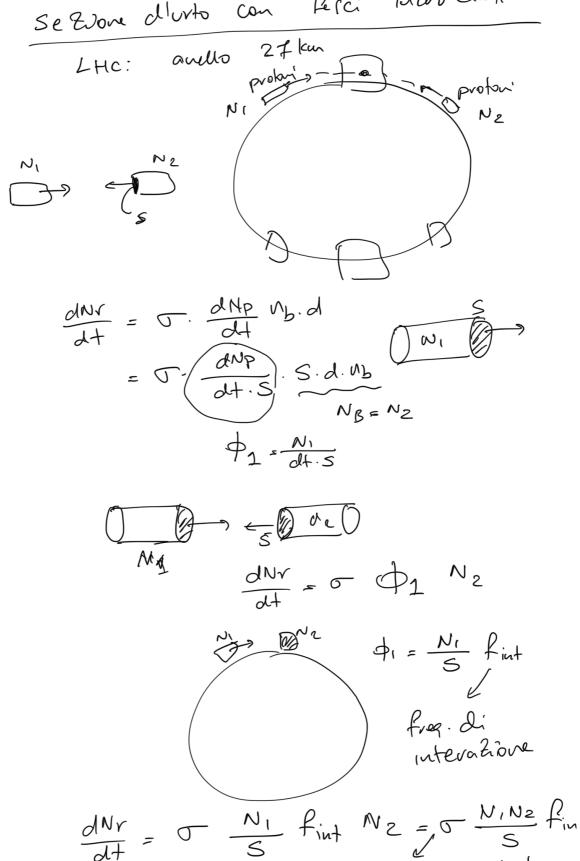
$$\frac{1}{NB} \frac{1}{NP \cdot NP} \frac{1}{NP \cdot NP} \frac{1}{NP \cdot NP}$$

$$\frac{1}{NB} \frac{1}{NP \cdot NP} \frac{1}{NP \cdot NP} \frac{1}{NP \cdot NP}$$

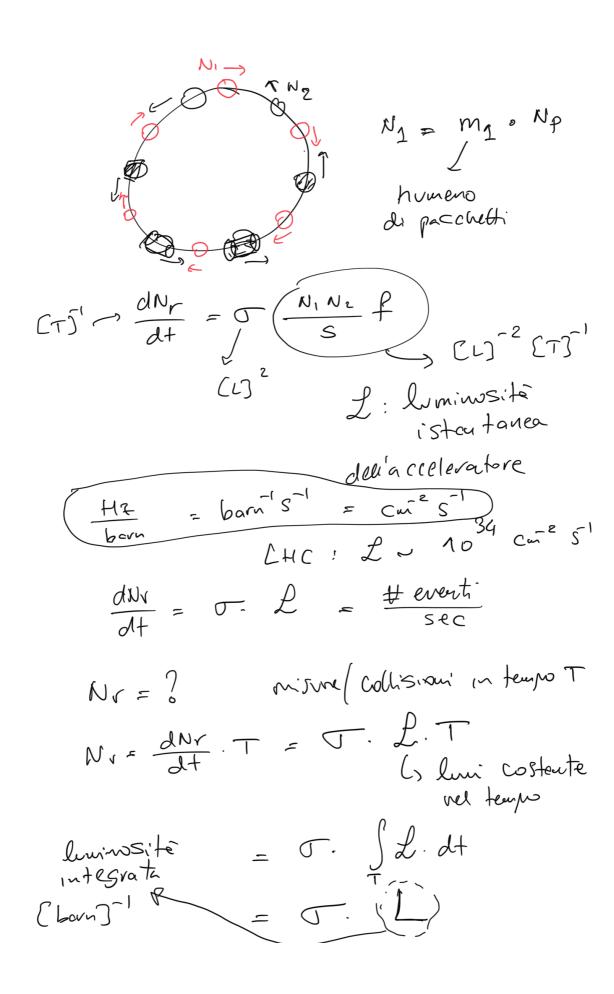
$$\frac{1}{NP \cdot NP} \frac{1}{NP \cdot NP} \frac{1}{NP \cdot NP} \frac{1}{NP \cdot NP} \frac{1}{NP \cdot NP}$$

$$\frac{1}{NP \cdot NP} \frac{1}{NP \cdot NP}$$

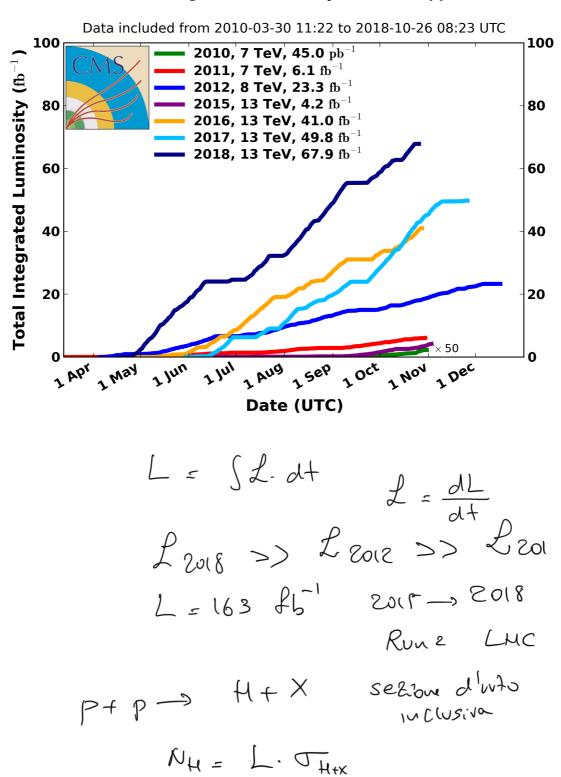
Se Evone d'unto con Perci muro cieti



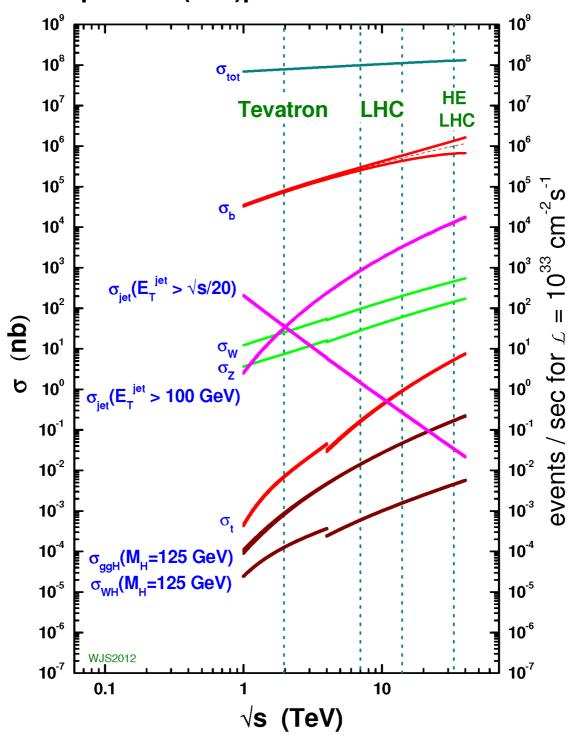
prop fisia dell'inter.



CMS Integrated Luminosity Delivered, pp



proton - (anti)proton cross sections



F = 0.1 Nb = 20 10 b.

FS = 13 TeN

NHiggs = L. T = 163 fb x 10 10 b

= 163 x 10 1 x 10 10 b

= 163 x 10 5

= 16 x 10 6

16 millioni d: Higgs del 20(5-)2018

H-> bb BFi
27

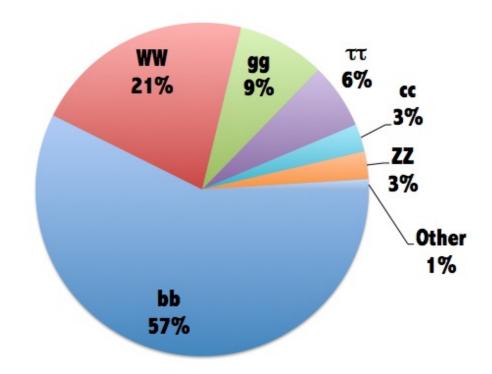
27

WW

Quent H-> 25?

NH-ST = NH. BF(H-) JT)

Higgs decays at m_H=125GeV



$$8 + (H -) = 3 /.$$
 $N(H -) = 16 \times 10^{6} \times 3 \times 10^{-2}$
 $= (8 \times 10^{4} = 480 \times 10^{4})$
 $= 4 \times 10^{4} = 480 \times 10^{4}$
 $= 4 \times 10^{4} = 480 \times 10^{4}$
 $= 4 \times 10^{4} = 480 \times 10^{4}$
 $= 4 \times 10^{4} = 480 \times 10^{4}$

Z DECAY MODES

| | Mode | Fraction (Γ_i/Γ) | onfidence level |
|--|--|---|--|
| Γ ₁ Γ ₂ Γ ₃ Γ ₄ Γ ₅ Γ ₆ Γ ₇ Γ ₈ Γ ₉ Γ ₁₀ Γ ₁₁ Γ ₁₂ Γ ₁₃ Γ ₁₄ Γ ₁₅ Γ ₁₆ Γ ₁₇ | $\begin{array}{c} e^{+}e^{-}\\ \mu^{+}\mu^{-}\\ \tau^{+}\tau^{-}\\ \ell^{+}\ell^{-}\\ \text{invisible}\\ \text{hadrons}\\ (u\overline{u}+c\overline{c})/2\\ (d\overline{d}+s\overline{s}+b\overline{b})/3\\ c\overline{c}\\ b\overline{b}\\ b\overline{b}b\overline{b}\\ ggg\\ \pi^{0}\gamma\\ \eta\gamma\\ \omega\gamma\\ \eta'(958)\gamma\\ \gamma\gamma\end{array}$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | -4 CL=95% -5 CL=95% -4 CL=95% -5 CL=95% -5 CL=95% |
| Γ ₁₈ Γ ₁₉ | $_{\pi^{\pm}W^{\mp}}^{\gamma\gamma\gamma}$ | $< 1.0 \times 10^{-1}$ [b] $< 7 \times 10^{-1}$ | |

HTTP://PDG.LBL.GOV Page 3 Created: 6/18/2012 15:10

Scale factor/

Se non Compico OH: Come Si misone? NH = J. BF(H->77)(BF(2->ee))²

Confessio

S; misure

Calcolo

Heorico

Sperim.

O.m.L.bra Ruelatore Pertet J(P+P-) H*) = JH = NH L. BF(H-) EF) (B=(8-188) E: Sele-Lave + vi costru Zon + vivetutore NH - Contegsio Misure Sezone d'unto 60 C0 met Rivelatore

Setore d'un molusive ed esclusive tipo di reazone P+P -> H+X Ji PTP 2+x91 + 92 W+W-+X TA J (PP) I 10 mb totale eterete-Come Sepens H+X XXXXX P+P XXXX Jtot = Zi Ji Sez. d'who esclusive per supola rectione P+P->X

P+P-> Stationi> ete- ete-P+P->H+X

4-1 22

