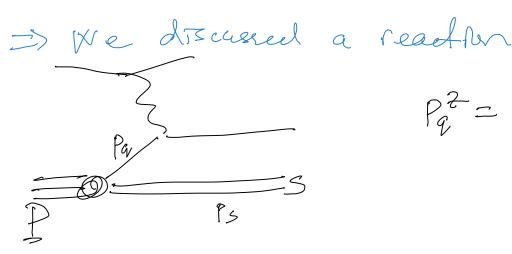
Lecture13

Wednesday, November 15, 2017 12:49 PM

(2CD Evolution Equation.



 $P_q^2 = \chi P_p$

Introduced $Y_p(X, P_{i}) = \frac{Y_{i}}{2E_2} \frac{|I_{si}(F_{s})|}{|I_{sp}(F_{s})|} \frac{|V_{sp}(F_{s})|}{|I_{sp}(F_{s})|} \frac{|V_{sp}(F_{s})|}{|V_{sp}(F_{s})|} \frac{|V_{sp}(F_{s})|}{|I_$

 $A^{\mu} = \sum U_{sf} (P_{af}) R_{g} S^{\mu} U_{si} (P_{ai}) \frac{Y(X_{j} P_{ji})}{Y(X_{j} P_{ji})}$

M = U(Kf) 8" H(Kr) gul AV electron 92 Muleon

[M] = In Fin <u>ey</u> 9.4 $W_{\mathcal{N}} = \frac{1}{4\pi M_{\mathcal{N}}} \frac{1}{4\pi} \left(\frac{1}{2} \frac{1}{\sqrt{2}} \left(\frac{1}{\sqrt{2}} \frac$

TEy (24)3 TEx (25)3 For = la 2 Tr (Pay Jon Pa: W)= $C_{y}^{2} \left[\frac{4(P_{q_{i}}^{d} + \frac{q_{y}}{2})(P_{q_{q}}^{d} + \frac{q_{v}}{2})}{\frac{1}{2}} + \frac{P_{q}^{2}(q_{q}^{d} + \frac{q_{v}}{2})}{\frac{q_{s}^{2}}{2}} + \frac{P_{q}^{2}(q_{q}^{$ $-\frac{d'P_{q}r}{dr} = S'(P_{qq} - n^2) d^{q}_{q}$ WW = 1 2 FIN (24) S (P+3 - M?) SP35 4FM12 7.F. (75)3 / $P_{fg}^2 - m^2 = (P_{fi} + g)^2 - M_g^2 = 2P_{fi} - Q^2 = 2P$ X.7.R.19-Q2 $=\frac{1}{2}\overline{F}_{HN} \frac{1}{2} \frac{5(X-X_{B_5})}{X_5} \frac{dX_5}{X_5} \frac{dP_{B_5}}{Z_{P_1}}$ $= \frac{1}{2M_N} \frac{\left(\frac{1}{2}\left(X, P_{\overline{2}i}\right)\right)^2}{X^2 2(2\overline{u})^3} \frac{1}{2P_N q} \frac{\int (X - X_{B_j}) \frac{dX_S}{dP_{AS_j}} \frac{dP_{AS_j}}{X}}{X 2(2\overline{u})^3}$ $\frac{1}{7M_{I}\sqrt{2}} = \frac{1}{2} \int_{0}^{2} \int_{0}^{$ 101.110 1/2 (1-X:-Xs) 5(X-Xor)

Khene,

 $f_{q}(x) = \left[\frac{1}{4} \left(x \right)^{q} \frac{1}{2} \right] 0$ X S (PastPase) d X+ d Par dX3 d Pase X i 2020 + s 20073

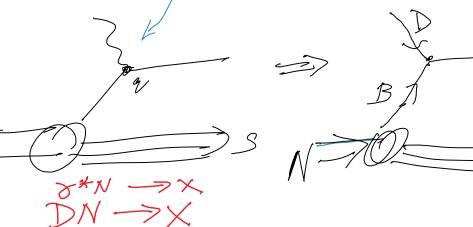
 $W_{\mathcal{W}} = \frac{z}{2} \hat{w_{g}} + \frac{f_{g}}{f_{g}} + + \frac{f$

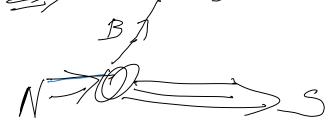
= From Lechne 10

de ex de de qui E (len) Word

 $\frac{2}{2} \frac{1}{4^{4}} \frac{1}{8} \int \frac{1}{8} \int \frac{1}{8} \frac{1}$

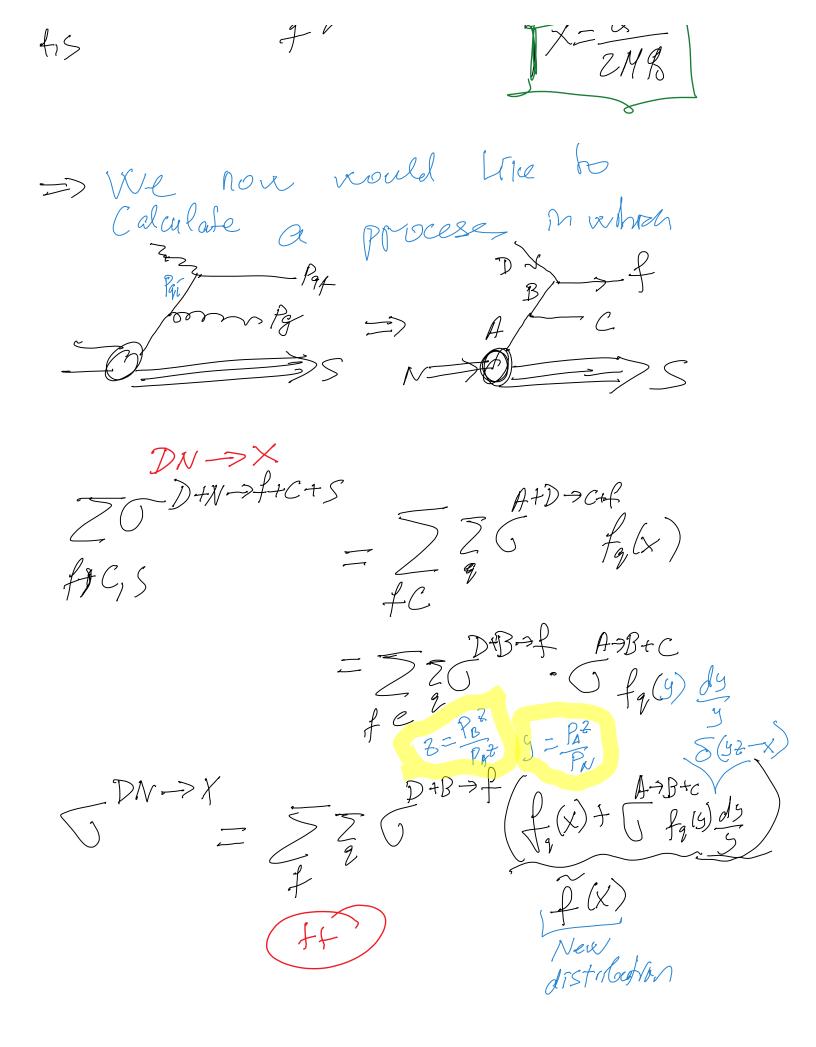
= I do eq la 2 fact) E dE'AUR







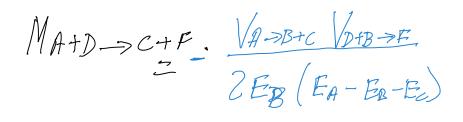




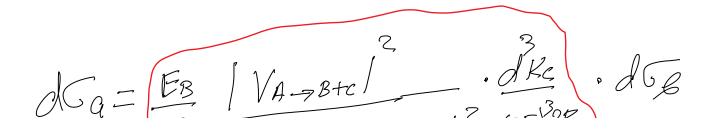
Can be This scheme to more splitings generalized B C Pf1 Ao/ co 20 definitiv of portour distribution! => Calculation of A+D->C+f through B+D-> B >F Ŵ in PN->0 => Considering PA ZZ PN $\frac{D}{B_1^{\prime}}$ $> \downarrow$ Do B Infroducchy Mafrix Bleman C

 $V_{D+B} \rightarrow f$

 $(\gamma_{U})^{3}\mathcal{K}_{P}$



 $M_{B+D\to F} = V_{B+D\to F} = V_{D+B\to F}$ $\frac{dCa \Xi}{4 \left[\frac{1}{P_A P_B} \right]^2} \frac{\overline{Z}}{\overline{Z}} \frac{1}{\sqrt{2}} \frac{V_A \rightarrow B + c \left(\frac{1}{\sqrt{D} + B \rightarrow F} \right)^2}{(2E_B)^2 (E_B + E_c - E_A)^2}$ $\times (2\pi)^{4} \mathcal{F}^{4} (K_{A} + k_{D} - k_{c} - k_{F}) \frac{\partial^{3} k_{c}}{\partial t_{r}} \frac{\partial^{3} k_{F}}{\partial t_{F}}$ $(2\pi)^{3} \mathcal{U}_{F} (2\pi)^{3} (2k_{F})$ PATUPS PAPS = 2EAED >> Ref. France PBT & PA - where J approxination => Assumily $d\sigma_{B} = \frac{1}{\left| V_{B+B} \rightarrow F \right|^{2} (W)} \frac{4}{S(k_{D}+k_{B}-k_{F})} \frac{3}{dP_{F}}$

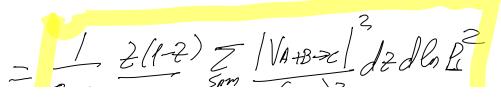


8 EBED

 $EA = (2E_3)^2 (E_3 + E_c - E_A)^2 (2U) (E_c)$ Lprobalish of finding P_{A} P_{C} vice Bin A d PBA(Z) dZ $\int \frac{D+A>C+F}{C} = \int \frac{D+B-F}{C} \int \frac{D+B-F}{C} = \int \frac{D+B-F}{C}$ dPBA(7) dz= <u>EB</u> <u>IVA > B+cl</u> <u>PKc</u> <u>EA</u> <u>(ZEB)</u>²(EB+E-EA)²(20)²(ZEE) RZP - negleofty masses - KA = (PA, PA, OO) $-K_{B}=\left(\begin{array}{c}2P+P_{1}\\2,2P\end{array}\right)\begin{array}{c}2P\\2,2P\end{array}\right)$ $-K_{C} = K_{A} - K_{B} = \left((1 - 2) P_{+} P_{1}^{2} + (1 - 2) P_{+} - P_{1} - P_{1} + P_{1}^{2} + (1 - 2) P_{+} - P_{1} + P_{1}^{2} + P_$ $(2E_B)^2(E_B+E_L-E_A)^2 = \left(2(2P+P_1^2)^2\right)^2 \times (2E_B)^2(E_B+E_L-E_A)^2 = \left(2(2P+P_1^2)^2\right)^2 \times (2E_B)^2 \times (2E_B+E_L-E_A)^2 = \left(2(2P+P_1^2)^2\right)^2 \times (2E_B+E_L)^2 = \left(2(2P+P_1^2)^2\right)^2 \times (2E_B+E_L)^2 = \left(2(2P+P_1^2)^2\right)^2 \times (2E_B+E_L)^2 = \left(2(2P+P_1^2)^2\right)^2 \times (2E_B+E_L)^2 = \left(2(2P+P_1^2)^2 + 2(2P+P_1^2)^2\right)^2 \times (2E_B+E_L)^2 = \left(2(2P+P_1^2)^2 + 2(2P+P_1^2)^2 = \left(2(2P+P_1^2)^2 + 2(2P+P_1^2)^2 + 2$ $x \int D P_{\perp} P_{\perp}^{2} P_{\perp}^{2} = D^{2} =$

220 7/1-2)P $= 4 2^{2} p^{2} \left(\frac{p_{1}^{2}}{2p} + \frac{p_{1}^{2}}{2(1-2)} \right)^{2} = \frac{\left(p_{1}^{2}\right)^{2}}{\left(1-2\right)^{2}}$ $(2E_B)^2 (E_B + E_c - E_A)^2 = \frac{(P_1^2)^2}{(1-2^2)^2}$ $\frac{\partial^{3}Kc}{\partial u^{3}(2E_{0})} = \frac{\partial kc^{2}kc^{2}dKc}{(2u)^{3}(2E_{0})} = \frac{\partial kc^{2}kc^{2}dKc}{(2u)^{3}(2E_{0})} = \frac{\partial kc}{\partial u^{3}(2E_{0})}$ $= \frac{P dz_{2} dP_{1}^{2}}{4\pi^{2} z (1-z)P} - \frac{dz dP_{1}^{2}}{16\pi^{2} (1-z)}$ $\int P_{BA}(2) d2 = Z \overline{Spm} \frac{|V_{A+B-3c}|^2}{(P_1^2)^2} \frac{d2 dB_1^2}{(1-2)^2} \frac{d2 dB_2^2}{(1-2)^2}$

 $= \frac{1}{2} \frac{2(1-2)}{2} \frac{1}{2} \frac{1}{4+B-3c} \frac{1}{d^2} \frac{1}{d^2}$



877² 2 ⁽') (P_L)^e > Considery Back He Equally FF One obtaing $f(x) = f(x) + dP_{BA}(z)dz \cdot f(y)dy$ +++ $\begin{array}{cccc}
\mathcal{G} = & \frac{k_{A}^{2}}{P_{A}} & \frac{\mathcal{Z} = & \frac{k_{B}^{2}}{K_{A}} \\
P_{A} & & \frac{\mathcal{K}_{A}}{K_{A}}
\end{array}$ -jor electrodproduetlus reaction x= 02 $-(k_{D}+k_{B})^{2}=k_{P}^{2}=\alpha m_{p}^{2}=(2+k_{B})^{2}=\alpha m_{p}^{2}$ $-Q^2 + 29/k_B + M_B^2 = M_g^2$ $-Q^{2}+2QK_{B}=0$ $-\chi + C UKB - C = 0 = 0 = 0^{2} - 0^{$ $y = \frac{|k_A|^2}{|P_n|}$

ie expressed $f(x) = \int dy \int dz \, \delta(2y - x) f(y) \int \delta(2 - 1) + dP_{CA}(y) \int \delta(2 - 1) + dP_{C$ => checking j dy j dz 5(2 y - x) f(y) 5(2-1) = $= \int d_5 \, \delta(g - \chi) f(g) = f(\chi)$ $= \int_{0}^{1} \frac{dy}{y} f(y) dP_{BA}\left(\frac{x}{y}\right) //$