Let us use the proposed procedure by Peter

$$g_{T}^{a}(x,k_{1}^{2}) = g_{T}^{a}(x) \frac{1}{\pi_{2}k_{1}^{2}g_{1}^{2}} e^{-k_{1}^{2}/(k_{1}^{2})g_{1}}$$

where  $g_{T}^{a}(x) = \int_{y}^{y} g_{1}^{a}(y)$ 

nou ve have:

$$\int d^{2}P_{4T}F_{LT}^{cos}\Phi_{4} = -\frac{2H}{Q}\chi^{2}\sum_{q}e_{q}^{2}g_{T}^{q}(x)D_{1}^{q}(z)$$

counstent with 7,2 a and 2.2 b

Now we nowiset

$$g_{1T}^{1}(x,k_{T}^{2}) = \frac{2H^{2}x}{k_{T}^{2}}g_{T}^{q}(x)\frac{1}{\pi^{2}k_{1}^{2}}e^{-\frac{k_{T}^{2}}{(k_{T}^{2})}g_{1}} = \frac{2H^{2}}{k_{T}^{2}}g_{1T}^{1}(x_{1})\frac{1}{\pi^{2}k_{1}^{2}}g_{1}^{2}$$
thus has to be if we choose the grant of  $g_{T}^{q}(x,k_{1}^{2})$ 
thus have now weturn two of  $g_{T}^{q}(x,k_{1}^{2})$ 
thus will be one frumla 6.1

above paremeturation of ga(x,k2)

So that we have 
$$F_{LT} = C \left[ J_{B}^{13} g_{17} D_{1} \right]$$

$$F_{LT} = x \left[ \frac{e^{2} g_{1T}^{1(1)}(x_{1}) D_{1}(z_{2})}{\pi z (k_{1}^{2})_{3}^{2}} + \frac{e^{2} (k_{1}^{2})_{3}^{2}}{\pi z (k_{1}^{2})_{3}^{2}} + \frac{e^{2} (k_{1}^{2})_{3}^{2}}{\pi z (k_{1}^{2})_{3}^{2}} + \frac{e^{2} (k_{1}^{2})_{3}^{2}}{P_{1T}} \right]$$

this will be the formula