$$g_{2}(x) = \frac{1}{2} \sum_{a} g_{1}(x) - g_{1}(x) - g_{1}(x)$$
 2.220
 $g_{1}^{a}(x) = \int_{x}^{1} \frac{dy}{y} g_{1}^{a}(y)$ 3. 29

$$x g_{\tau}^{q} (x, k_{\perp}^{2}) \lesssim g_{1\tau}^{\perp (2)} (x, k_{\perp}^{2}) \lesssim e$$
where $g_{1\tau}^{\perp (2)} (x, k_{\perp}^{2}) \equiv \frac{k_{\perp}^{2}}{2\pi^{2}} g_{1\tau}^{\perp} (x, k_{\perp}^{2})$

so we get

$$\int d^{2}k_{1} \times g_{T}^{2}(x,k_{1}^{2}) = \int d^{2}k_{1} \frac{k_{1}^{2}}{2M^{2}} g_{17}^{1}(\alpha,k_{1}^{2})$$

$$\times g_{T}^{2}(x) = g_{1T}^{1}(x) = x \int_{x}^{x} \frac{dy}{y} g_{1}^{2}(x)$$

Now 1 have from 3,3 e

$$xg_{\tau}^{c}(x,k_{\perp}^{c}) = \frac{k_{\perp}^{c}}{2M^{2}}g_{1\tau}^{c}(x_{\parallel}^{c}) = \frac{k_{\perp}^{c}}{2M^{2}}e^{-k_{\perp}^{c}}/(k_{\perp}^{c})g_{1}$$

note that

whether

$$x g_{\tau}^{a}(x,k_{\perp}) + x g_{\tau}^{a}(x) \frac{1}{\pi \langle k_{\perp}^{2} \rangle_{g_{1}}} e^{-k_{\perp} \langle k_{\perp}^{2} \rangle_{g_{1}}}$$

as thus will violete 3.3 e as function of k1

Now I have

$$F_{LT}(P_{T}) = -\frac{2 \times M}{\pi Q \lambda^{3}} e^{-\frac{P_{LT}}{\lambda}} \sum_{\alpha} e^{\frac{1}{\alpha} g_{1T}(x)} D_{1}(x) D_{1}(x) (cp_{2})^{2} + ck_{1}^{2} g_{1}(P_{11} + cp_{1}^{2}) e^{2}$$

$$\int d^{2} P_{4T} F_{LT}^{\omega_{3} \varphi_{3}}(P_{T}) = -\frac{2 \times M}{Q} \sum_{\alpha} e_{\alpha}^{2} g_{1T}^{(2)}(x) D_{1}(x)$$

$$= -\frac{2xM}{Q} \sum_{q} e_{q}^{2} \times g_{T}^{2}(x) = -\frac{2xM}{Q} 2(g_{1}(x) + g_{2}(x)) \times$$