(5.1) Pour o composed a complete :

$$tx = \int \frac{d^3k}{(2\pi)^3 aw} \left[a(k^2) e^{kx} + b^4 e^{kx} \right]$$

$$\pi(x) = \int \frac{d^3k}{(2\pi)^3 aw} \left[-iwa(k^2) e^{kx} + iwb e^{kx} \right]$$

$$\int dx^2 e^{ikx} \phi(x) = \int d^3x \int \frac{d^3k}{(2\pi)^3 aw} \left[a(k^2) e^{kx} + ba e^{ixk} \right]$$

$$= \frac{a(k^2)}{aw} + \frac{b^4 (-k^2)}{aw} e^{ixk} e^{ixk}$$

$$\int dx^2 e^{ikx} \pi(x) = \int d^3x \int \frac{d^3k}{(2\pi)^3 aw} \left[-iwa(k^2) e^{ixk} + iwb e^{ixk} \right]$$

$$= -ia(k^2) + ib^4 (-k^2) e^{ixk}$$

$$a(k^2) = \int d^3x e^{ikx} \left[w \phi(x) + i\pi tv \right]$$

$$\phi(x) = \int d^3k e^{ixk} \left[w \phi(x) + iwb e^{ixk} \right]$$

$$b(k^2) = \int d^3x e^{ikx} \left[w \phi(x) + i\pi (x) \right]$$

$$b(k^2) = \int d^3x e^{ikx} \left[w \phi(x) + i\pi (x) \right]$$

analogo mente, queremos

$$a_{1}^{\dagger}(+\alpha) - a_{1}^{\dagger}(-\alpha) = \int_{0}^{+\infty} d \cdot \partial_{1} d$$

portonto uma emplitude de n porticular e m onti porticular n' porticulos e m' onti porticulos $\langle f|i \rangle = \langle 0|Q_1(+\alpha) \cdots Q_n(+\alpha) b_1(+\alpha) \cdots b_m(+\alpha) a_1(-\alpha) \cdots a_n(+\alpha) b_1(-\alpha) \cdots b_n \rangle$ = (0/17/10)/10> $= \gamma^{n+m+n+m'} \int dx_1 e^{jk_1 x_1} (-\partial_1^2 + m^2) \cdots (o|T_1^2 + o(x_1) \cdots o(x_n^2) \cdots (o|T_n^2 + o(x_n^2) \cdots o(x$ pora porticulo inicial: " (d'x e kx (-22+m²) \$ (x) (a) portiule final: if d'xe (-22-mi) of(1) (b) omti portial inicial: if shx eikx (-22+m2) of (n) i [] + e (- 22+m2) \$ (n), (b) entiportiul final:

(3

Collected the property of the second of the second