$\left[\frac{1}{2}m(\rho^2)^{\frac{A}{2}}\right] \xrightarrow{2} \frac{1}{2}m\left(\bar{\rho} - \frac{e}{c}\bar{A}\right)^2 = \frac{1}{2}m + \frac{e}{c}m\bar{A} = \frac{1}{2}m - \frac{e}{c}\bar{A}$ 2008 11.3) (2000 11.2) (2010 11.3) = +(SV).F F= EA= EWEW < < v; > = dr(w) · F = dr(w) e E J= e << vi>= d(w). e² = = Tw Ew $\operatorname{Imd}(\omega) = \frac{\omega}{e^2} \cdot \operatorname{Re}(\tau_w) \leftarrow (2/\omega) = \frac{1\omega}{e^2} \tau_w$ Q = 2 W Im d(w) |F|2 = 1 w2. 62 (Tw) Q 2138W27 Ju Re (ru) En 7/28 : PP/10 pln no Gp $W \operatorname{Im} dv(\omega) = \frac{W^2}{Q^2} \operatorname{Re}(\Gamma_{\omega}) \geqslant 0$ W--W-F 1000 Re(PW) = Re(D-W) PEPU W--W 2188 108 In(\(\bar{\pi_w}\) = -\frac{1}{17} P\int_{\infty}^{\infty} Re(\(\bar{\pi_w}\)) = \frac{1}{17} (\(\bar{\pi_w}\)) = -\frac{1}{17} (\(\bar{\pi_w} That Imd (w) = Pr(w) 2405T ez. Re(Ow) = Sdt. etint. < EV:(0) EV;(+)> 'UNN = $\int dt \cdot cos(ut) \cdot \langle j(t=0)j(t) \rangle$ $Pe(\Gamma_n) = \frac{1}{n_0 t} \left(dt \cdot cos(ut) \cdot \langle j(0)j(t) \rangle \right)$

$$C_{5} = \begin{cases} V_{5}(0) \stackrel{?}{A}(1) > A + \langle V_{5}(0) \stackrel{?}{A}(1$$

$$S(w) = \int_{0}^{\infty} dt \cos \omega t \cdot \langle ja(t)ja(0)+ja(0)ja(t) \rangle$$

$$S(w) = \int_{0}^{\infty} k(\tau) e^{j\omega t} d\tau \qquad \int_{0}^{\infty} \sin \omega t K(\tau) = 0$$

$$S(w) = \int_{0}^{\infty} k(\tau) e^{j\omega t} d\tau \qquad \int_{0}^{\infty} \sin \omega t K(\tau) = 0$$

$$S(w) = \int_{0}^{\infty} cot k(\frac{\beta tw}{2}) \operatorname{Trn} (dv(w))$$

$$= \frac{\hbar w}{2} \operatorname{cot} k(\frac{\beta tw}{2}) \operatorname{Reff} w$$

$$S(w) \stackrel{hoo}{=} 2k\tau \operatorname{Ref} (w)$$

$$S(w) \stackrel{hoo}{=} 3(0), j(\tau) \operatorname{compate} je.$$

$$S(w$$