1 Erreurs flagrantes du cours numéro 4:

Au bas de la page 3:

$$S_{A_i A_i}(-t) = S_{A_i A_i}(t - i\hbar\beta). \tag{1}$$

$$S_{A_j A_i}(-\omega) = e^{-\beta \hbar \omega} S_{A_i A_j}(\omega). \tag{2}$$

Au milieu de la page 5.

$$\int_{-\infty}^{\infty} \frac{d\omega}{\pi} \omega^n \chi_{A_i A_j}^{"}(\omega) = \left[\int_{-\infty}^{\infty} \frac{d\omega}{2\pi} \left(i \frac{\partial}{\partial t} \right)^n e^{-i\omega t} 2 \chi_{A_i A_j}^{"}(\omega) \right]_{t=0}$$
 (3)

11.5
$$P_{o,i}$$
 it is, $t \in \alpha_i^* \cup X_{A,A_i}^{i'} a_i > 0$

$$SH(t) = -\int a^3 r A_i(r) \cdot \alpha_i(r,t) = -A_i a_i(t)$$

$$\int_{At}^{1/2} \frac{\partial K(t)}{\partial t} = W = \int_{At} \left((A_i) \frac{\partial a_i}{\partial t} \right)$$

$$= \int_{At} - \left(A_i(t) \right) \frac{\partial a_i(t)}{\partial t}$$

$$= \int_{2\pi}^{AU} \alpha_i(-u) X_{A,A_i}^{R}(u) i \omega \alpha_i(u)$$

$$cos(t) = e^{iut}, e^{iut}$$

II.8 F.D.

$$S_{A_{1}A_{2}}(c) = \langle (A_{1}(t) - \langle A_{1} \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \rangle$$

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$$S_{A_{1}A_{2}}(c) = \frac{2\pi}{16} \langle (A_{1}(t) - \langle A_{1} \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \langle A_{2}(t) \rangle$$

$$= \frac{1}{2\pi} \{ \langle (A_{1}(t) - \langle A_{1} \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \langle A_{2}(t) \rangle$$

$$= \frac{1}{2\pi} \{ \langle (A_{1}(t) - \langle A_{1} \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \langle A_{2}(t) \rangle$$

$$= \frac{1}{2\pi} \{ \langle (A_{1}(t) - \langle A_{2}(t) \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \langle A_{2}(t) \rangle$$

$$= \frac{1}{2\pi} \{ \langle (A_{1}(t) - \langle A_{2}(t) \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \langle A_{2}(t) \rangle$$

$$= \frac{1}{2\pi} \{ \langle (A_{1}(t) - \langle A_{2}(t) \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \langle A_{2}(t) \rangle$$

$$= \frac{1}{2\pi} \{ \langle (A_{1}(t) - \langle A_{2}(t) \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \langle A_{2}(t) \rangle$$

$$= \frac{1}{2\pi} \{ \langle (A_{1}(t) - \langle A_{2}(t) \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \langle A_{2}(t) \rangle$$

$$= \frac{1}{2\pi} \{ \langle (A_{1}(t) - \langle A_{2}(t) \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \langle A_{2}(t) - \langle A_{2}(t) \rangle \langle A_{2}(t) \rangle$$

$$= \frac{1}{2\pi} \{ \langle (A_{1}(t) - \langle A_{2}(t) \rangle) (A_{2}(t) - \langle A_{2}(t) \rangle) \langle A_{2}(t) - \langle A_{2}(t) \rangle \langle A_{2}(t) \rangle \langle A_{2}(t) \rangle \langle A_{2}(t) \rangle \langle A_{2}(t) - \langle A_{2}(t) \rangle \langle A_{2}(t) - \langle A_{2}(t) \rangle \langle A_{2}(t) \rangle \langle A_{2}(t) \rangle \langle A_{2}(t) \rangle \langle A_{2}(t) - \langle A_{2}(t) \rangle \langle A_{2}(t) - \langle A_{2}(t) \rangle \langle A_$$

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11.9 Règles de somme.

- Règle de somme T. D.

$$8 \langle A_i(\omega=0) \rangle = X_{A_iA_j}^{R_{(u=0)}} \delta a_i (u=0)$$

$$\frac{\partial n}{\partial x_i} = X_{n_1}^{R_{(u=0)}} \delta a_i (u=0)$$

$$\frac{\partial n}{\partial x_j} = X_{n_1}^{R_{(u=0)}} \delta a_i (u=0)$$

$$= \int \frac{du'}{n} \frac{X_{n_1}^{l_{(u=0)}}}{u'} \frac{X_{n_1}^{l_{(u=0)}}}{u'}$$

$$\underbrace{Cas plus général}_{\text{Règles de somme}}$$

$$\underbrace{Cas plus général}_{\text{rob}}$$

$$\underbrace{Règles de somme}_{\text{moments}}$$

$$\underbrace{Cas plus général}_{\text{moments}}$$

$$\underbrace{Cas$$

Compositement hands friguence

$$\chi^{R}_{A:A;}(\omega) = \int \frac{d\omega'}{\pi} \frac{\chi''_{A:A;}(\omega')}{\omega' - \omega - i\eta}$$

$$\omega >> donaine au $\chi''(\omega) \neq 0$

$$\chi^{R}_{A:A;}(\omega) = -\frac{1}{\omega} \int \frac{d\omega'}{\pi} \frac{\chi''_{A:A;}(\omega')}{1 - (\frac{\omega'}{\omega})}$$

$$= -\frac{1}{\omega} \int \frac{d\omega'}{\pi} \sum_{n=1}^{\infty} (\frac{\omega'}{\omega})^{2n-1} \chi''_{A:A;}(\omega')$$

$$\eta = 1 \longrightarrow \frac{1}{\omega^{2}}$$$$

Règle de sonne f

$$\frac{\int_{-\infty}^{\infty} w' w' \chi''_{nn}(b,w') = \frac{na^2}{na^2}}{\int_{-\infty}^{\infty} w' \chi''_{nn}(b,w') = \frac{na^2}{na^2}}$$

$$= \left(i\frac{3}{3t} < \int_{-\infty}^{\infty} \eta(t), n - a\right) > \int_{t=0}^{t} \frac{1}{t} \pi$$

$$= \int_{0}^{\infty} \frac{1}{2t} \left(\frac{1}{t} + \frac{1}{t}}{t} + \frac{1}{t} + \frac{1}{t} + \frac{1}{t} + \frac{1}{t}}{t} + \frac{1}{t} + \frac{1}$$

$$\frac{R^{a}b^{b}}{E} = \frac{3A}{2} - \nabla Q$$

$$\frac{R^{a}b^{b}}{E} = \frac{A^{a}b^{b}}{A}$$

$$\frac{R^{a}b^{b}}{E} = \frac{A^{a}b^{b}}{A}$$

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$$\frac{R^{a}b^{b}}{A} = \frac{A^{a}b^{b}}{A}$$

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