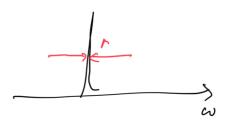
Teplosu rozoviem spekshalm cary

Rosdelen younge from

$$P_{\lambda \vec{q}} = \frac{1}{2 \epsilon_0 t_1 \omega_q} \frac{\left| \vec{E}_{\lambda q} \cdot \vec{d}_{\lambda u_M} \right|^2 \left(\vec{E}_{\alpha l} \cdot \vec{E}_{\alpha l} \right)^2}{\left(\vec{E}_{\alpha l} \cdot \vec{E}_{\alpha l} + t_1 \omega_q \right)^2 + \left(\frac{t_1^2}{t_1^2} \right)^2}$$

Pridphladame, år rædirim v du bledlen T gê rela

ma prévorena sirha cary:





Prirozmou can nahradime J-fember

lyers Jeme

$$pod limitin =) \frac{1}{+^2+q^2} \rightarrow \frac{\pi}{a} \delta(+)$$

Del ta fember

$$\delta(t) = \frac{1}{2\pi} \lim_{\alpha \to 0} \int_{-\infty}^{\infty} ds \, e^{isx - a|s|}$$

$$= \frac{1}{2\pi} \lim_{\alpha \to 0} \left\{ \frac{1}{ix - \alpha} \left\{ \frac{1}{ix + \alpha} \right\} \right\}_{0}^{\infty} + \frac{1}{ix + \alpha} \left\{ \frac{1}{ix + \alpha} \right\}_{0}^{\infty} \right\}$$

$$= \frac{1}{2\pi} \lim_{\alpha \to 0} \left\{ -\frac{1}{ix - \alpha} + \frac{1}{ix + \alpha} \right\} = \frac{1}{2\pi} \lim_{\alpha \to 0} \left\{ \frac{1}{ix + \alpha} + \frac{1}{ix + \alpha} \right\}$$

$$= \frac{1}{2\pi} \lim_{\alpha \to 0} \left\{ \frac{1}{ix - \alpha} + \frac{1}{ix + \alpha} + \frac{1}{ix + \alpha} \right\} = \frac{1}{2\pi} \lim_{\alpha \to 0} \left\{ \frac{1}{ix + \alpha} + \frac{1}{ix + \alpha}$$

nos pripad pro Pti

$$\frac{h}{2\pi} \rightarrow 0$$
 $a = E_m - E_m \approx h\omega_q$

Uvrdujeme atomy o hmotnosti <u>m</u> a Maxwelloro rædelem sydlæsti :

$$f(\vec{v}) = \left(\frac{m}{2\overline{\epsilon}_{R}T}\right)^{3/2} - \frac{mv}{2\xi_{R}T}$$

Záhn sachoracu hybrosti mir = mi + hg buen fotour I hybrost po vysa run lybrost po vysa run $\overrightarrow{v} = \overrightarrow{u} + \frac{t \overrightarrow{q}}{m} \quad \overrightarrow{u} = \overrightarrow{v} - \frac{t \overrightarrow{q}}{m}$ Latin oachram energie 2mv+ En = tag + 2mu + Eu though = Em-Em + 1 me (2-12) maly! $= \pm_{u} - \pm_{u} + \frac{1}{2} m \left(v^{2} - (\vec{v} - \frac{t \vec{q}}{m})^{2} \right)$ = Eq - Eu + 1 m (or - or + 2 m - th/2)2 = Eu-Eu + to v.g Vyshidujeme moarine fotous pers rozdélem ny Alaste Pro = Sar f(r) Tem lengt due (Eu-Eu) S(Eu-Eu+tro-d-two) a not oardene $\sigma = \vec{\partial} \cdot \vec{q}$ | mignet v do s |

men your oracu Ted minume nyshidoral pris slory v koline na q Pxq = TT (m / 1 / duan) (Em-Eun) / 20 40 T du l = 29/27

$$\begin{array}{c}
\times \delta\left(E_{n}-E_{nn}+tn vq-tn \varphi\right) \\
\times \delta\left(E_{n}-E_{nn}+tn vq-tn \varphi\right) \\
\times \delta\left(E_{n}-E_{nn}+tn vq-tn \varphi\right) \\
= \frac{E_{n}-E_{nn}}{tn} + tn vq-tn eq = 0$$

$$v = \frac{E_{n}-E_{nn}}{tn} + tc$$

$$v = \frac{E_{n}-E_{nn}}{tn} + c$$

$$\frac{\partial}{\partial t} \frac{\partial}{\partial t}$$

sirla cary

$$co_7 = \frac{|E_n - E_m|}{t} \sqrt{\frac{2\xi_e T}{mc^2}}$$

Solitia day rook o odmocnimou a T ~ TT