Serie 03

Autorbe 7

A) 
$$g = 0.498 \sin(\frac{\pi}{4} \times) \cos(5616) = 0.418$$
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 $g =$ 

Physik II Aufgaben Benjamin OROPMANN

ich bin hier steden geblieben ...

Ablabe 4 a, De kindrische Energiedichle ist 
$$\frac{dE_{lin}}{dV} = \frac{1}{2}p_{L}\left(\frac{3}{3}e^{-\frac{1}{2}}\right)^{2}$$
,  $\frac{3}{3}e^{-\frac{1}{2}}$  - Smort  $U$  Sin( $kx - VE$ )

$$\frac{dE_{GL}}{dV} = \frac{1}{2}p_{L}e^{i}\left(\frac{3}{3}e^{-\frac{1}{2}}\right)^{2} \Rightarrow \frac{dE_{GL}}{dV} = \frac{1}{7}p_{L}e^{i}S^{2}k^{2}$$

$$\frac{dW}{dV} = \frac{1}{4}\int_{U}^{GL} + \frac{dE_{kin}}{dV} = \frac{2}{7}p_{L}S_{min}^{*}W^{2}e^{-\frac{1}{2}}$$

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$$\frac{dW}{dV} = \frac{1}{4}\int_{U}^{GL} + \frac{1}{4}\int_{U}$$

Ye 2 + V(F) V5

 $= > \frac{\xi(x,t)}{\xi(x,t)} = Ae^{\xi \left[\frac{2\pi}{Y_Q + \frac{V(\xi)}{Y_Q}}x + 2\pi \left[\frac{Y_Q + \frac{V(\xi)}{Y_Q}}{Y_Q}\right]\xi\right]}{2\pi \left[\frac{2\pi}{Y_Q}\right]} = Ae^{2\pi \xi}$ 

$$I_{min} \text{ bei } OL = \frac{\pi \lambda}{2}$$