1. E=hV=h·テ, AE=hc·公, 由AE·At 2至 $\Rightarrow \Delta t = \frac{\pi}{2} \cdot \frac{\lambda^2}{hc} \cdot \frac{1}{\Delta \lambda} = \frac{\lambda^2}{4\pi c \Delta \lambda} = \frac{\lambda}{4\pi c \Delta \lambda} \approx 1.59 \times 10^{-9} \text{ s}$ $2.\Delta X \cdot \Delta D_X \ge \frac{\pi}{2} \Rightarrow \Delta P_X \ge \frac{\pi}{2\Delta X}$ APX = V[PX-PX)2 / TO PX = DPX = APX 意= 维, 统计下 PX = PX = PZ => PT = 3 PX Ex= = = 21.87 × 08 eV 3. $\Delta X \cdot \Delta P_x \ge \frac{1}{2}$, $E = \frac{P_x^2}{2m} \Rightarrow \frac{\Delta P_x^2}{2m}$ 24 = Akgos (tx-wt) Awsin Ckx-wt = -AKSin(KX-Wt) 左式= it. Awsin(kx-wt) 古士= ⇒验证证W≠型·K2 ⇒ i. E