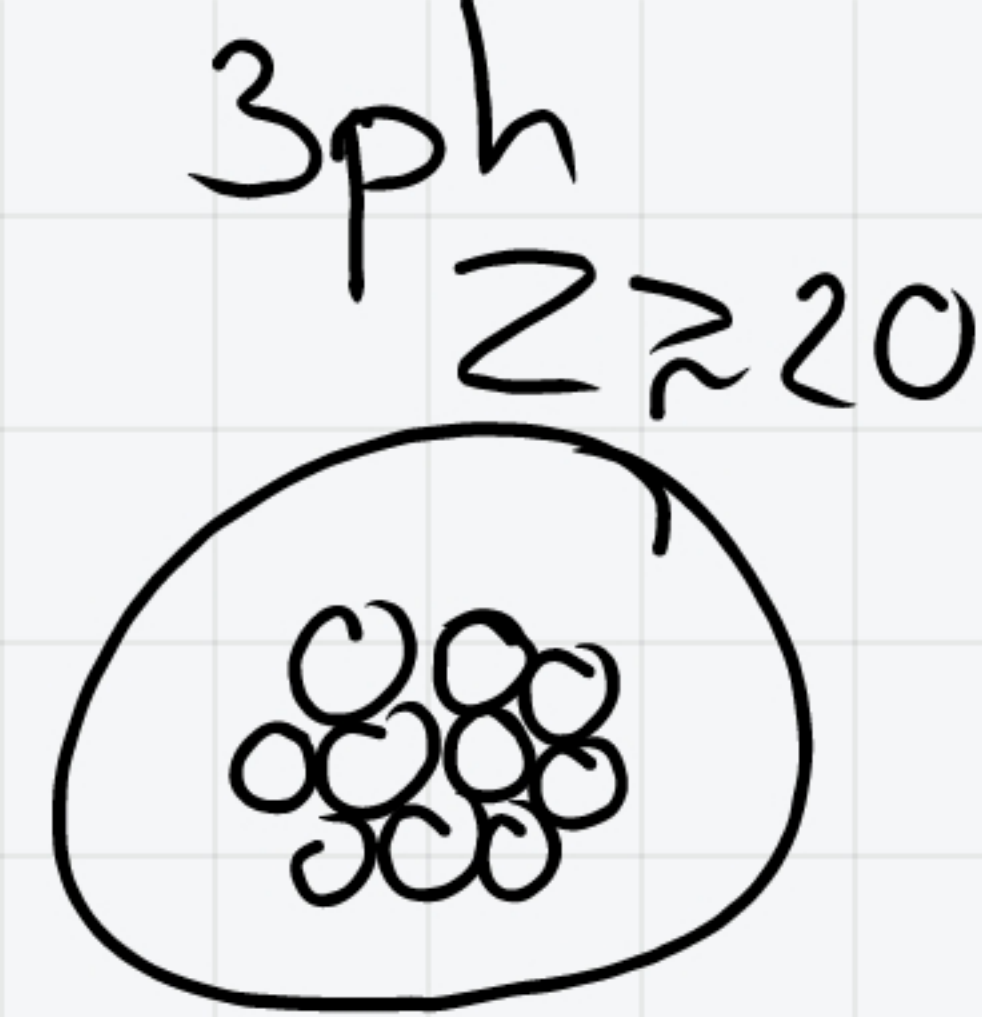
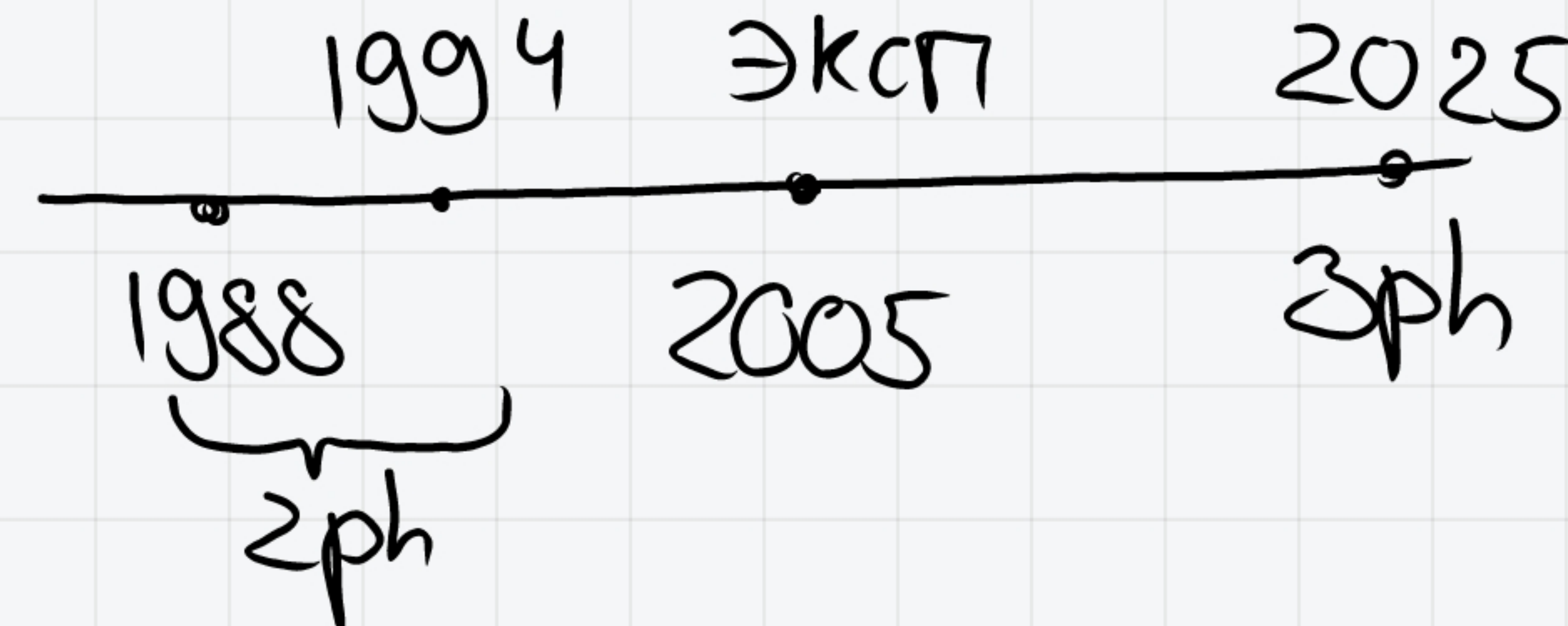




$$(\hat{D} + V(x)) \psi_n(x) = \varepsilon_n \psi_n(x)$$

$$S(\omega; x, y) = \sum_n \frac{\psi_n(x) \bar{\psi}_n(y)}{\omega - \varepsilon_n(1 - i0)}$$

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TTGF+
 Wolfram Math

$$\Delta E \sim \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{I(\omega_1, r_1) I(\omega_1 - \omega_2, r_2) I(\omega_2, r_3)}{(\omega_1 - i0)^2 (\omega_2 - i0)^2}$$

$$I(\omega, r) = \frac{\alpha}{r} \alpha_{(1)}^{\mathcal{P}} \otimes \alpha_{\mathcal{P}(2)} \exp(i \sqrt{\omega^2 - \mu^2 + i0} r)$$

IR-расх-тб: $\frac{\ln^2 \mu}{2} + (\gamma_e - \ln 2 + 1) \ln \mu$

$$(\Delta E - IR) \psi \psi \psi$$