

$$= \frac{m e^4}{8 \epsilon_0^2 h^3} \left[\frac{2np - p^2}{n^2(n-p)^2} \right]$$

$$n \gg p \Rightarrow \begin{aligned} 2np - p^2 &\approx 2np \\ (n-p)^2 &\approx n^2 \end{aligned}$$

$$V = \frac{m e^4}{8 \epsilon_0^2 h^3} \left(\frac{2p}{n^3} \right) \quad (\%)$$

$$p=1 \Rightarrow f=V \quad (*) = (\%)$$

$n=2$ (*) a (%) sa lišia o 300%

$n=10000 \Rightarrow$ (*) a (%) sa lišia o 0.01%