$$\int_0^{t_c} i(t)dt = Q,\ U(t)=\frac{1}{C}\int_0^t i(t')\exp\left(\frac{t'-t}{RC}\right)dt',\ H\equiv U_{max}=\frac{Q}{C},\ N(H_1<H<H_2)=\int_{H_1}^{H_2}\frac{dN}{dH}dH,\ G(H)=\frac{N_0}{\sigma\sqrt{2\pi}}\exp\left(-\frac{(H-H_0)^2}{2\sigma^2}\right),\ R=\frac{\Delta H}{H_0}=\frac{\Delta E}{E_0},\ Q=N_c e,\ H=KN_c,\ \sigma_H=K\sqrt{\bar N_c},$$

$$\Delta H=2{,}35\sigma,\ F\equiv\frac{D_{N_c}}{\bar N_c},\ E_f=h\nu-\varepsilon_r,\ E_{C\,max}=\frac{h\nu}{1+\frac{m_0c^2}{2h\nu}},\ h\nu'_{min}=h\nu-E_{C\,max},\ E_C(\theta)=h\nu\frac{\frac{h\nu}{m_0c^2}(1-\cos\theta)}{1+\frac{h\nu}{m_0c^2}(1-\cos\theta)},\ h\nu=\frac{E_C}{2}\left[1+\sqrt{1+\frac{4m_0c^2}{E_C(1-\cos\theta)}}\right],\ i=\frac{Q\mathsf{E}\upsilon}{U_0},\ i_0^{\pm}=N\frac{e\upsilon^{\pm}}{d},$$

$$U_{max}\approx U^-_{max}\approx\frac{Ne}{C}\frac{\upsilon^-}{d}t^-=\frac{Ne}{C}\frac{x_0}{d},\ \mathsf{E}(r)=\frac{U_0}{r\ln\frac{r_k}{r_a}},\ \frac{dN}{N(r)}=-\Sigma_{jon}(r)dr,\ \Sigma_{jon}=\frac{p\sigma_{sm}}{kT}\exp\left(-\frac{E_{jon}\sigma}{kTe}\cdot\frac{p}{\mathsf{E}}\right),\ K=\frac{N}{N_0}=\exp\left[\int_{r_a}^{r_0}\Sigma_{jon}(r)dr\right]\approx\exp\left[\int_{r_a}^{r'}\Sigma_{jon}(r)dr\right],\quad \sigma\sim\frac{1}{\upsilon},$$

$$^{10}_{5}\mathrm{B}+{}^{1}_{0}\mathrm{n}\rightarrow\begin{cases}{}^{7}_{3}\mathrm{Li}+{}^{4}_{2}\alpha & +2{,}792\ \mathrm{MeV}\\ {}^{7}_{3}\mathrm{Li}^*+{}^{4}_{2}\alpha & +2{,}310\ \mathrm{MeV}\end{cases}\ dn=np(\upsilon)d\upsilon,\ dj=\upsilon dn,\ R=\sigma Nj,\ R\sim Nn.\ m_{Li}\upsilon_{Li}=m_\alpha\upsilon_\alpha,\ \sqrt{2m_{Li}E_{Li}}=\sqrt{2m_\alpha E_\alpha},\ E_{Li}+E_\alpha=Q,\ E_{Li}=0{,}84\ \mathrm{MeV},\ E_\alpha=1{,}47\ \mathrm{MeV};$$

$$E_{at}=E_n\frac{2A}{(1+A)^2}(1-\cos\Theta)=E_n\frac{4A}{(1+A)^2}\cos^2\theta,\ P(\Theta)d\Theta=P(E_{at})dE_{at}=\frac{\sigma(\Theta)d\Omega}{\sigma_s}=2\pi\sin\Theta d\Theta\frac{\sigma(\Theta)}{\sigma_s},\ P(E_{at})\sim\sigma(\Theta),\ \sigma(\Theta)=\frac{\sigma_s}{4\pi}=const,\ H=kE^{3/2},\ \frac{dN}{dH}\equiv\frac{dN/dE}{dH/dE},$$

$$\Delta E=E_{R1}+E_{R2}-E_R,\ U(R)=\frac{1}{4\pi\varepsilon_0}\cdot\frac{Z_1Z_2e^2}{R},\ E_R=\alpha A-\beta A^{2/3}-\gamma Z(Z-1)A^{-1/3}-\eta(N-Z)^2A^{-1}+C,\ ^{235}\mathrm{U}+\mathrm{n}\rightarrow{}^{93}\mathrm{Rb}+{}^{141}\mathrm{Cs}+2\mathrm{n},\ k_\infty=\eta\varepsilon pf,\ \eta=\nu\frac{\sigma_d}{\sigma_d+\sigma_p},\ p=\exp\left[-\frac{2{,}73}{\langle\xi\rangle}\left(\frac{N_{238}}{N_L\Sigma_s}\right)^{0{,}514}\right],$$

$$f=\frac{\Sigma_a(K)}{\Sigma_a(K)+\Sigma_a(L)+\Sigma_a(S)},\ \frac{dN}{dt}=\frac{(k-1)N}{\tau},\ 1<k<\frac{1}{g},\ Q=E_R-E_{R1}-E_{R2},\ d+t\rightarrow{}^4\mathrm{He}+n,\ \frac{m_x\upsilon_x^2}{2}+\frac{m_Y\upsilon_Y^2}{2}\approx Q,\ m_x\upsilon_x=m_Y\upsilon_Y,\ \sigma=\pi(R+\lambda\!\!\!^{-})^2,\ \sigma\sim\frac{1}{\upsilon^2}e^{-2G},\ G\sim\frac{1}{\upsilon},$$

$$\Phi=n_1n_2\langle\sigma\upsilon\rangle,\ \langle\sigma\upsilon\rangle=\int_0^\infty p(\upsilon)\sigma(\upsilon)\upsilon d\upsilon,\ p(\upsilon)\sim\upsilon^2\exp\left(-\frac{m\upsilon^2}{2kT}\right),\ W=\Phi VQ,\ E_r=\Phi Q\tau=n_1n_2\langle\sigma\upsilon\rangle Q\tau,\ E_p=3nkT,\ \Phi(t_a)=\lambda N(t_a)=\sigma N_0 j(1-e^{-\lambda t_a}),$$

$$N_c=\frac{\sigma N_0 j}{\lambda}(1-e^{-\lambda t_a})e^{-\lambda t_{tr}}(1-e^{-\lambda t_m})f\varepsilon,\ E_2(180°)=E_1\left(\frac{M-m}{M+m}\right)^2,\ \sigma_\Omega=1{,}296\left(\frac{zZ}{E_1}\right)^2\left[\frac{1}{\sin^4(\theta/2)}-\left(\frac{m}{M}\right)^2+\ldots\right],\ R_X=I\sigma_X nd,\ \mu_z=g_J m_J\mu_N\ \ (m_J=-J,-J+1,\ldots,J-1,J),$$

$$\Delta E=g_J\mu_N B,\ \nu_L=\frac{\Delta E}{h},\ \delta=10^6\frac{\nu-\nu_0}{\nu_0},\ p(r,\phi)=\int_A^B f(x,y)dl,\ \ln\left(\frac{I_A}{I_B}\right)=\int_A^B\mu dl$$