$$R\_{2}=\left(\frac{1+2}{1+3∙2}\right)∙\frac{2∙1.38×10^{-23}∙300}{\left(1.7×10^{-12}\right)^{2}}\left[\sqrt{1+\left(\frac{1+3∙2}{1+2}\right)\left(\frac{2.5×10^{-9}}{2∙1.38×10^{-23}∙300}\right)^{2}}-1\right]$$

$$R\_{2}=\left(\frac{3}{7}\right)∙2865.05\left[\sqrt{1+\left(\frac{7}{3}\right)\left(30193267150\right)^{2}}-1\right]$$

$$R\_{2}=\left(\frac{3}{7}\right)∙2865.05\left[\sqrt{2.12×10^{23}}-1\right]$$

$$R\_{2}=\left(\frac{3}{7}\right)∙2865.05∙\left[46120930973-1\right]$$

$$R\_{2}=too big$$