

***Годографы относительного
напряжения проходного
преобразователя при изменении
параметров круглого цилиндра.***

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$$\mu_{\text{эфф}} = \frac{2 I_1(x)}{x I_0(x)};$$

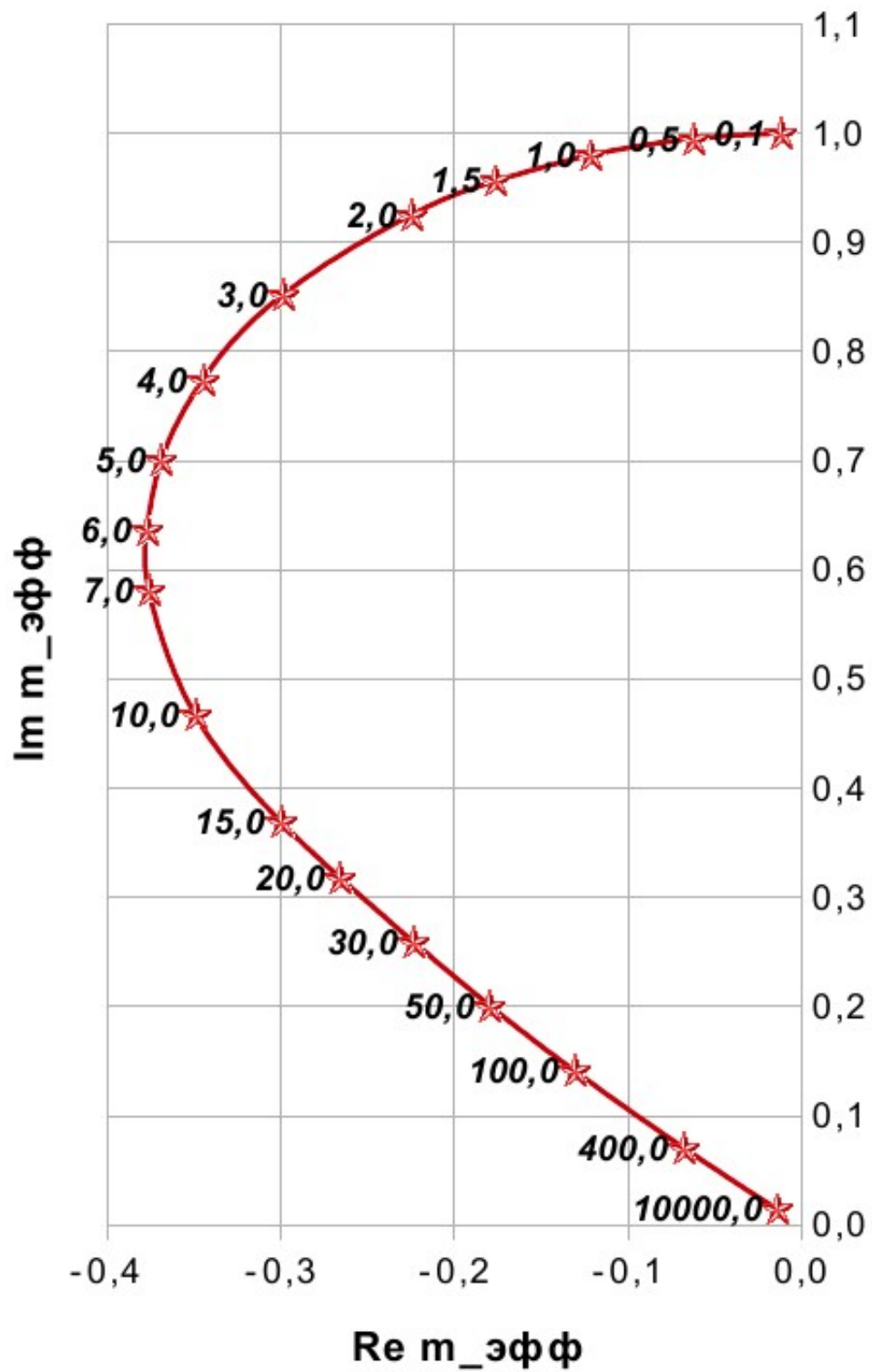
$$x = k R; \quad k = \sqrt{(-i \mu_0 \mu \omega \sigma)};$$

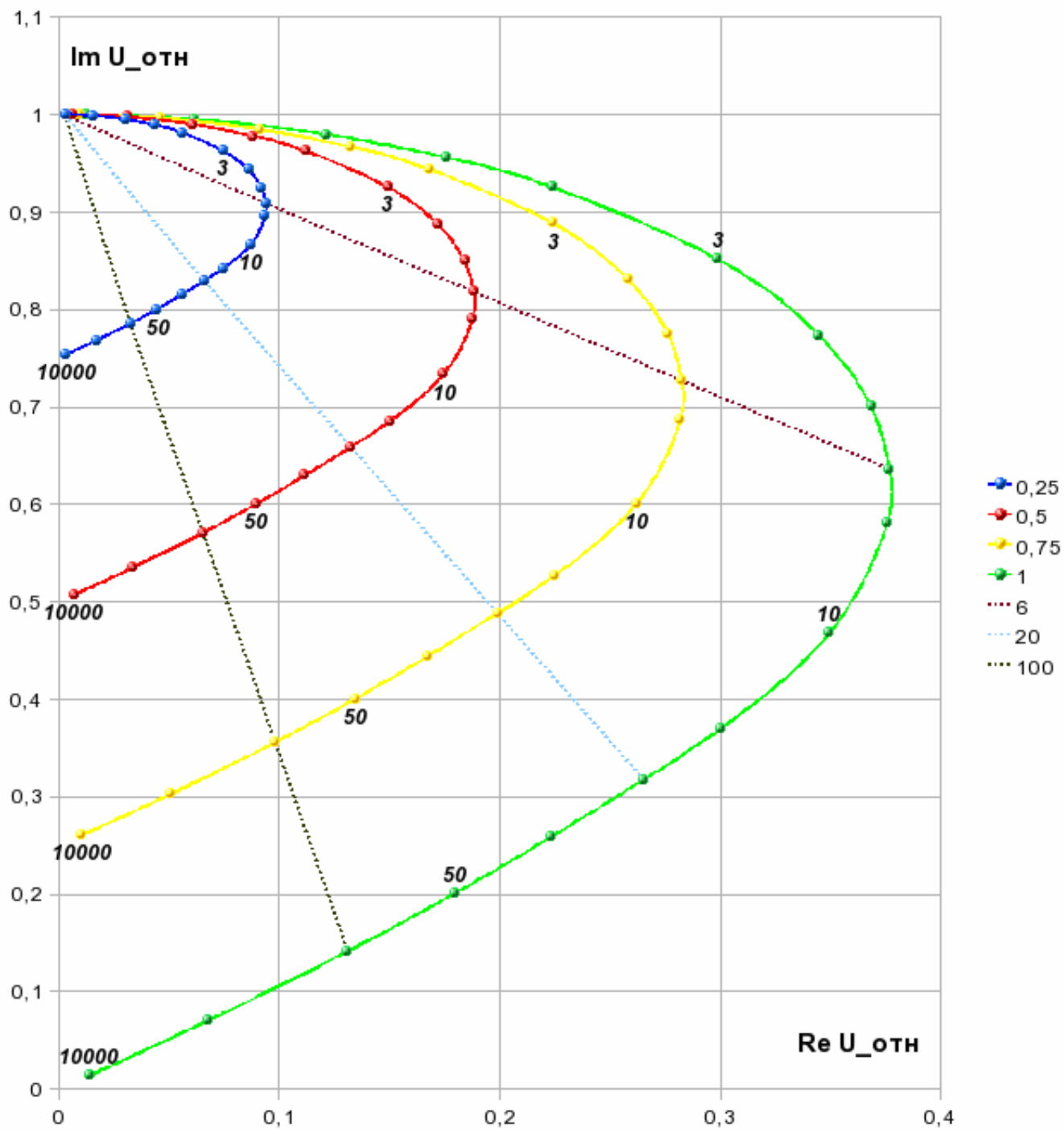
$$U_{\text{отн}} = i \left(1 - \eta + \eta \mu \mu_{\text{эфф}} \right)$$

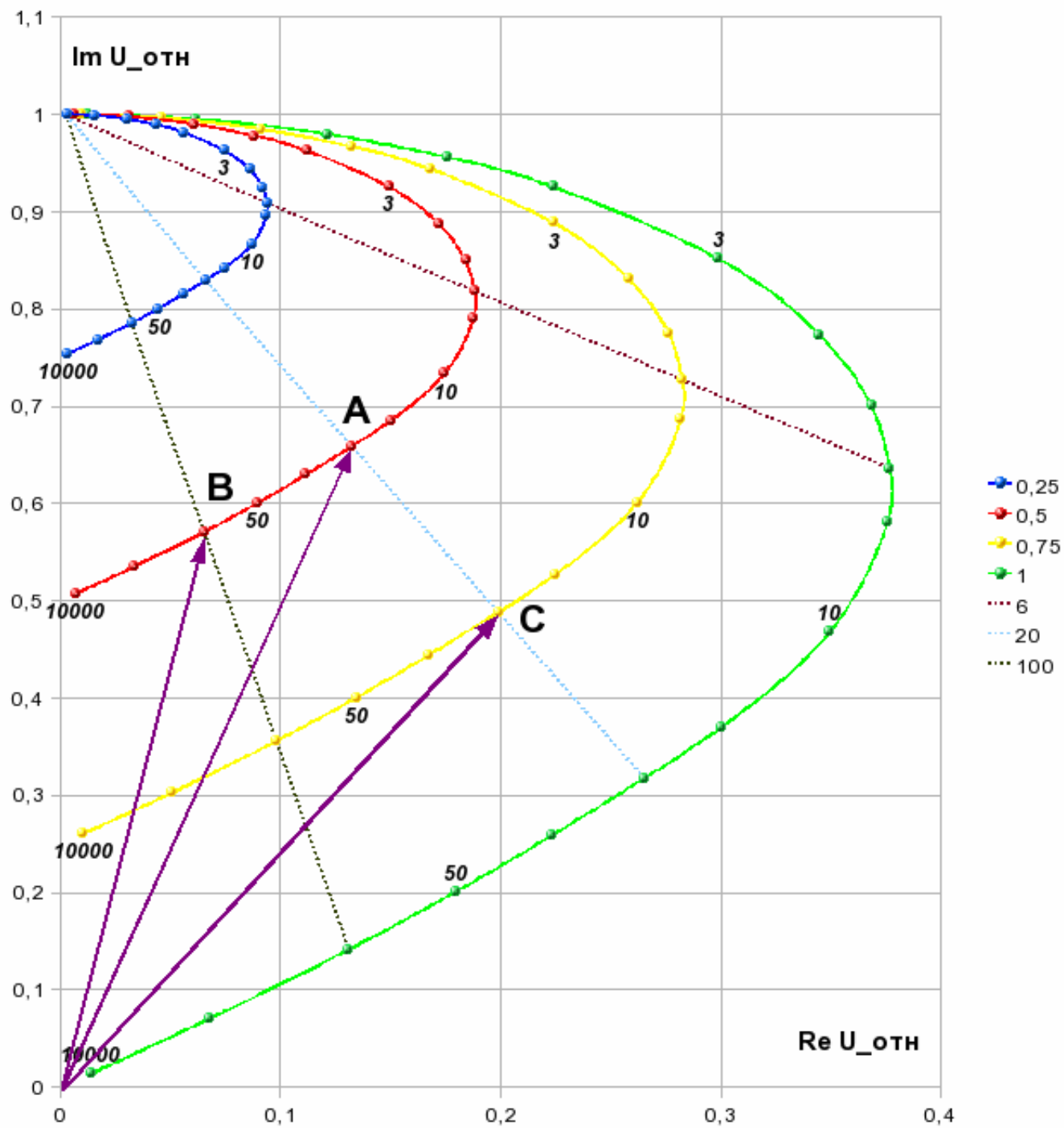
$$I_0(z \sqrt{-i}) = \text{ber } z - i \text{bei } z ;$$

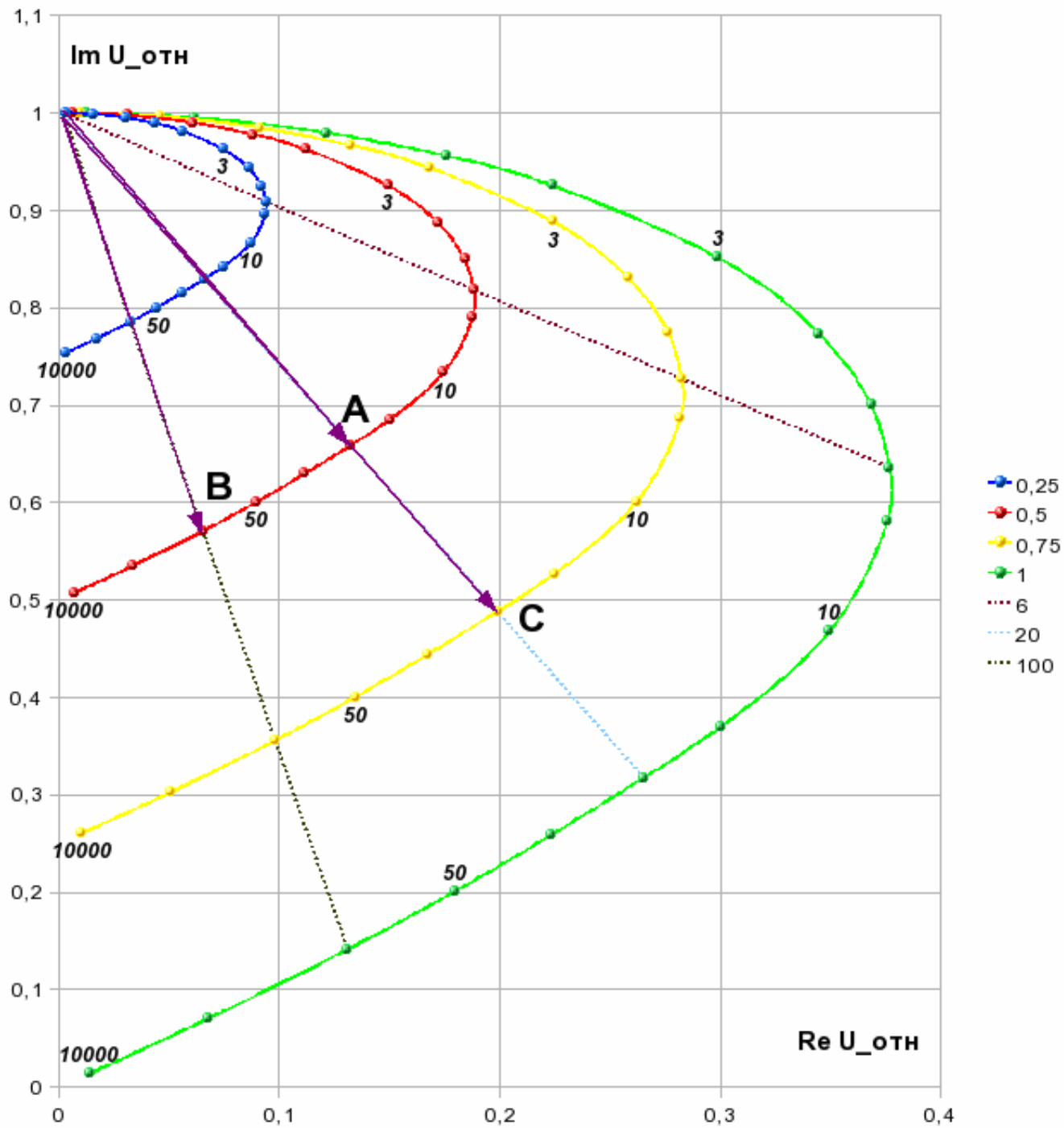
$$\text{ber } z = \frac{\sum_{m=0}^{\infty} (-1)^m (z/2)^{4m}}{(2m)!^2} ;$$

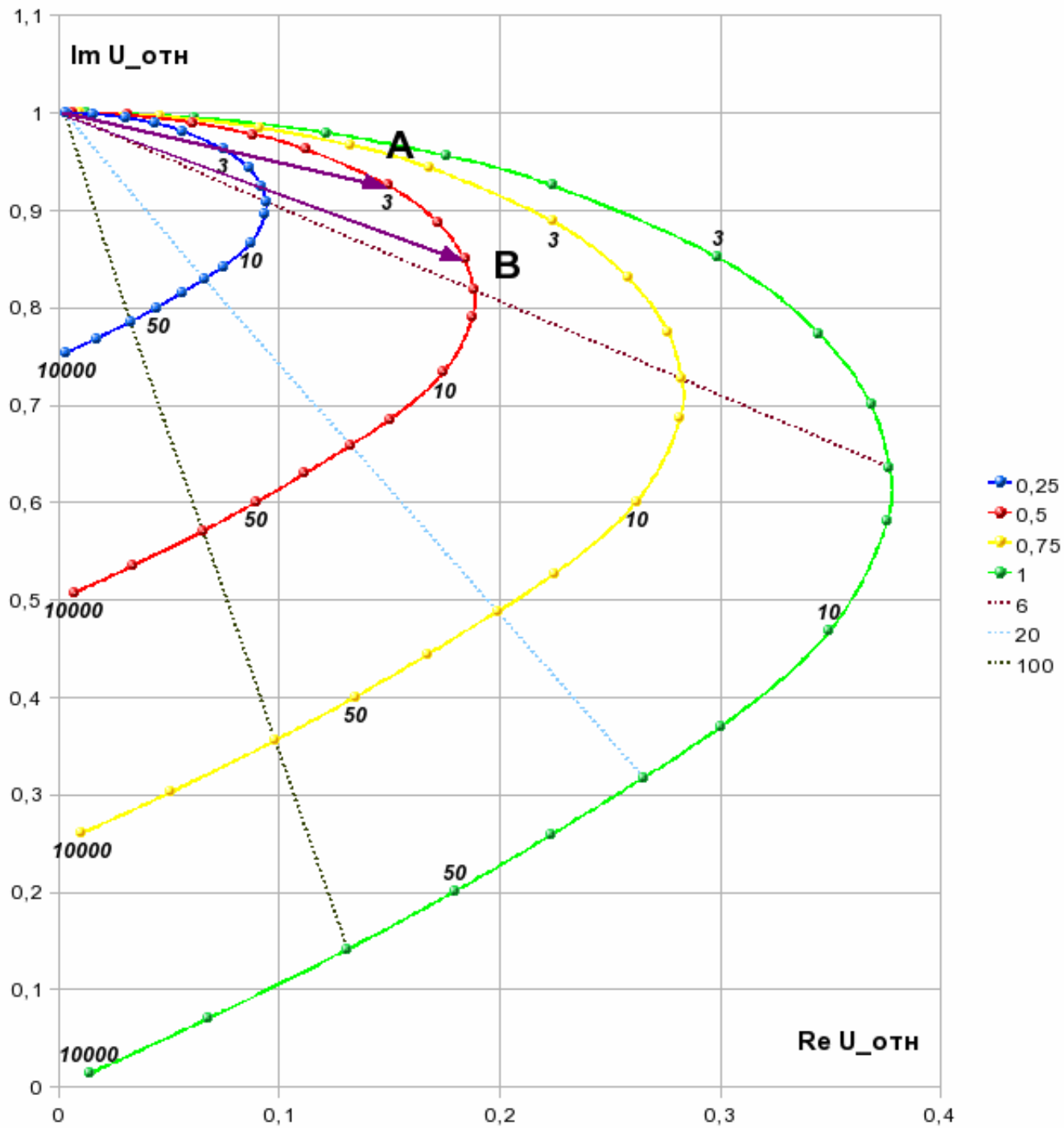
$$\text{bei } z = \frac{\sum_{m=1}^{\infty} (-1)^{m-1} (z/2)^{4m-2}}{(2m-1)!^2}$$







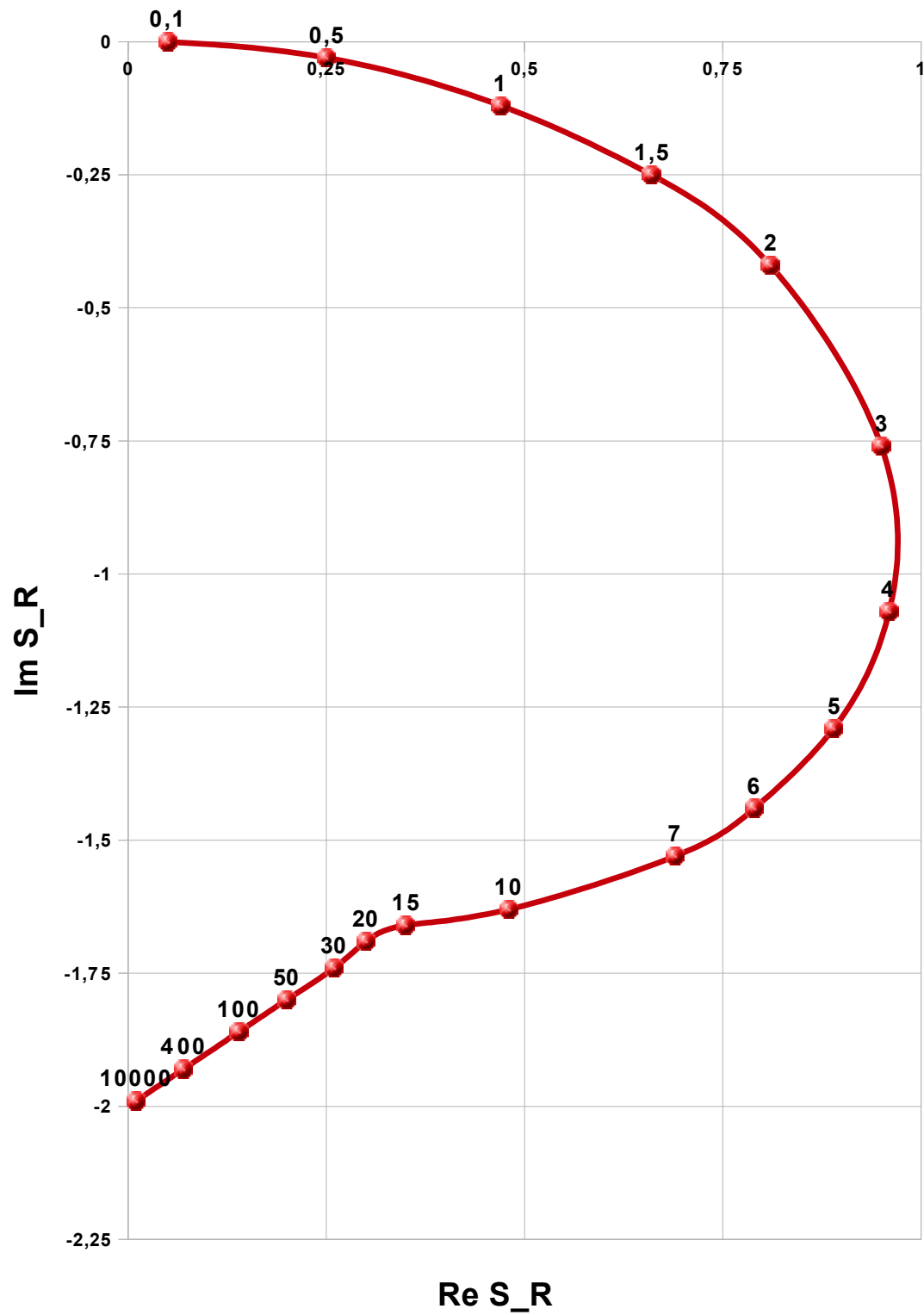


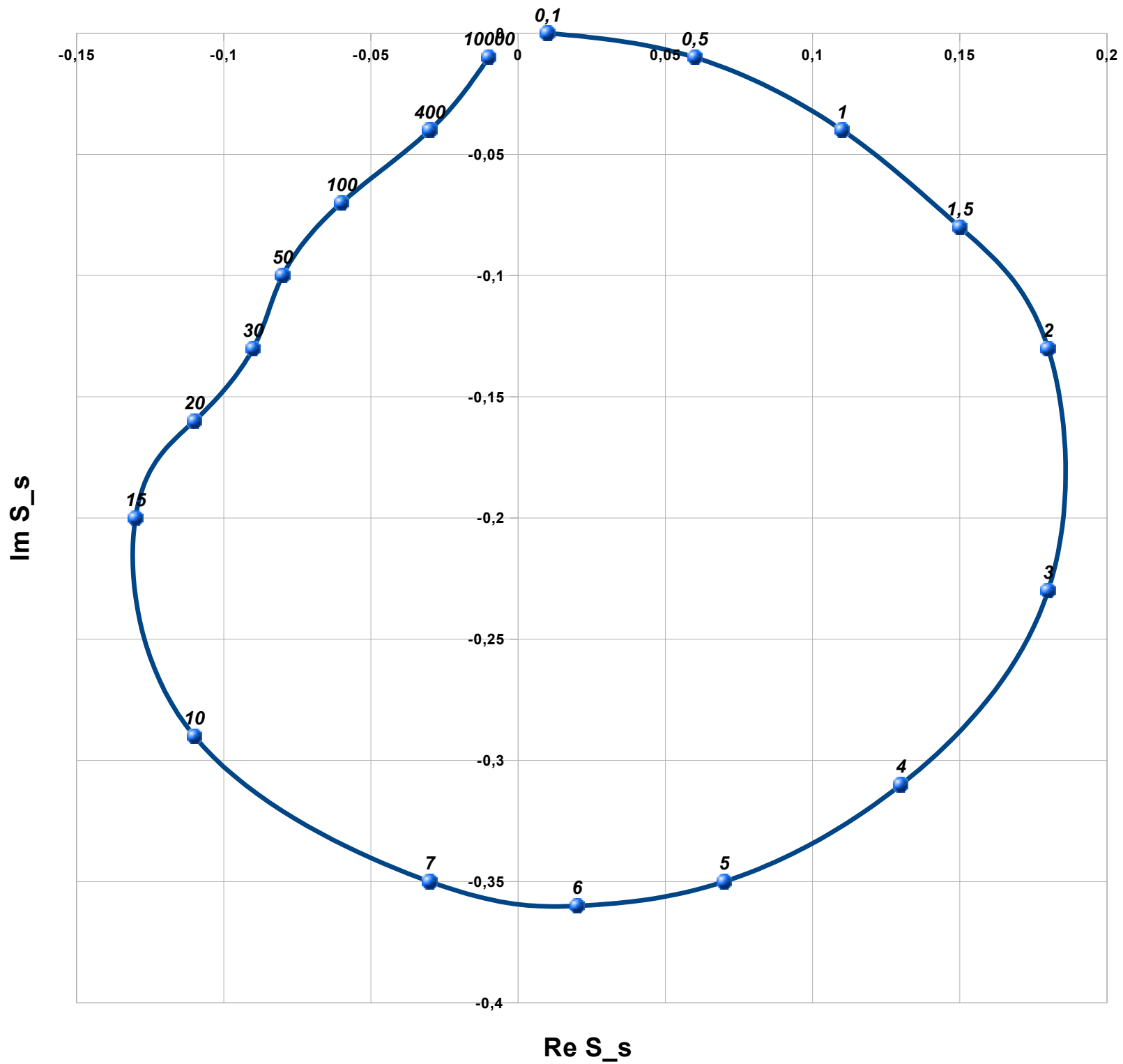


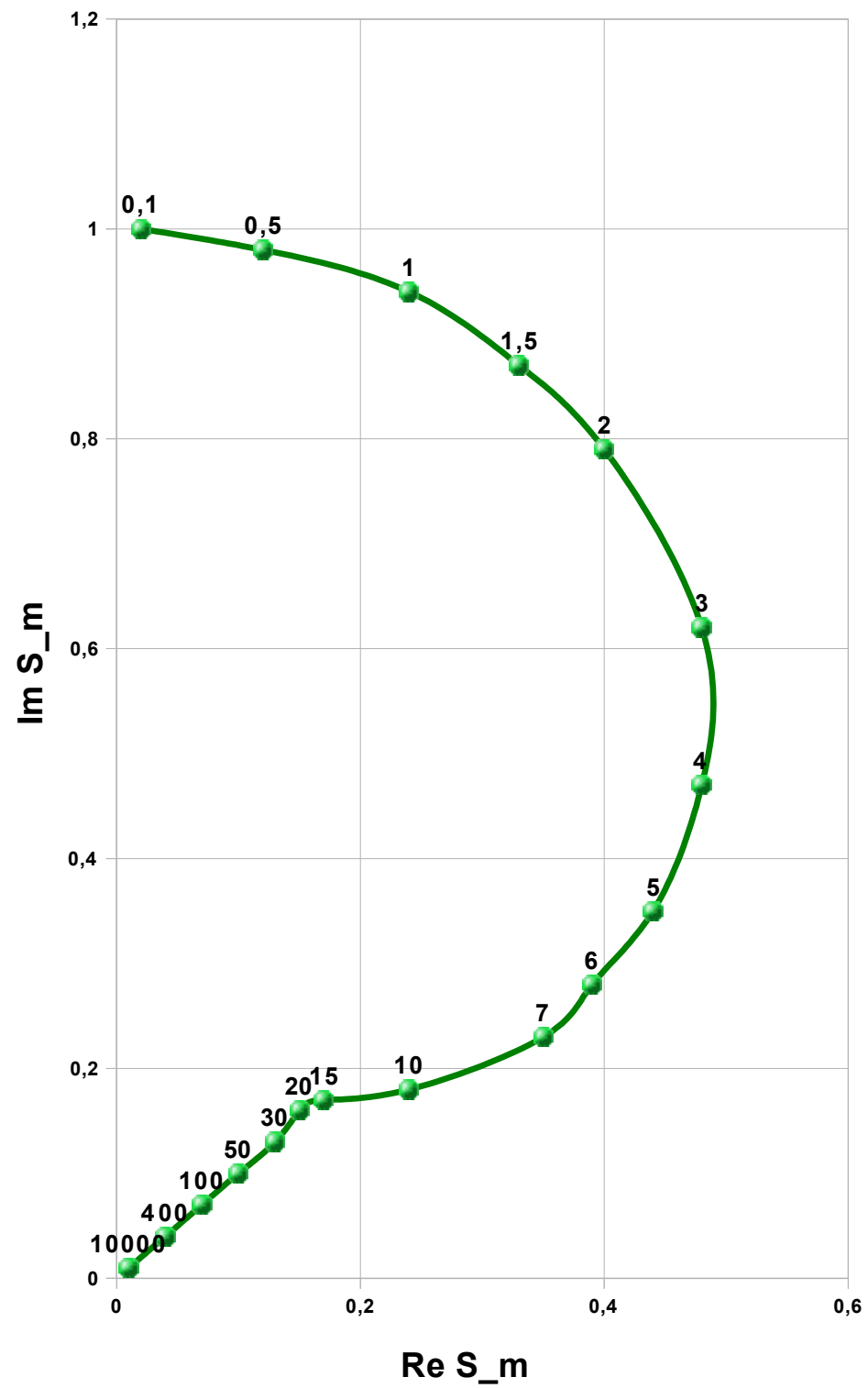
$$S_R = 2i\eta\mu\left(1 - \frac{1}{\mu} - \frac{x^2}{4}\mu_{\text{эфф}}^2\right);$$

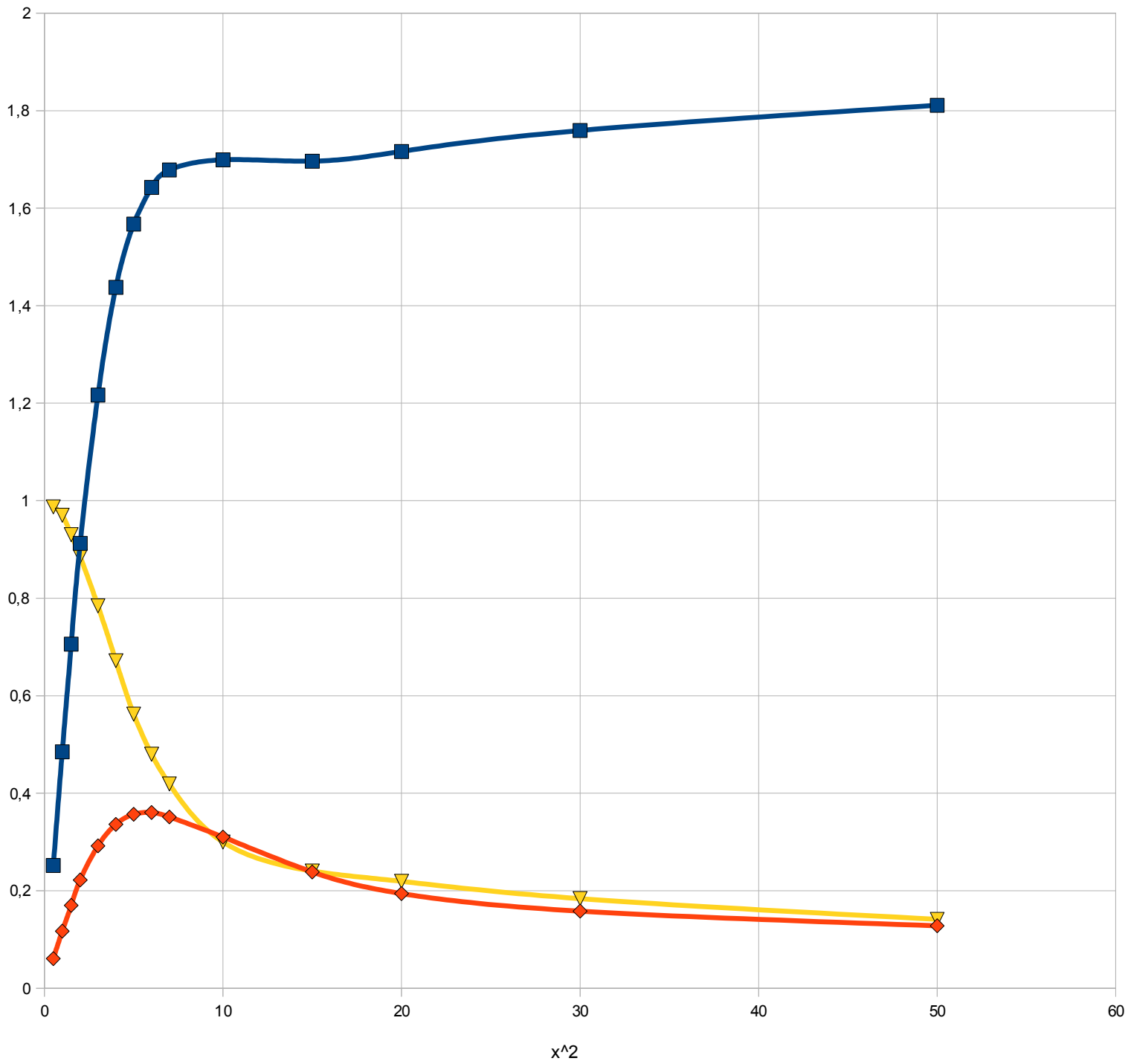
$$S_\sigma = i\eta\mu\left(1 - \mu_{\text{эфф}} - \frac{x^2}{4}\mu_{\text{эфф}}^2\right);$$

$$S_\mu = i\eta\mu\left(1 - \frac{x^2}{4}\mu_{\text{эфф}}^2\right)$$









■ Mod Sr
◆ Mod Ss
▼ Mod Sm