Raff 6 Sonntag, 15. Juni 2025 22:48

DGL:

$$\dot{x} - 2\Omega\dot{y} - \Omega^2 x = -\left[\mu_{\Lambda} \frac{x + \mu_{\lambda}}{r_{\Lambda}^3} + \mu_{\lambda} \frac{x - \mu_{\Lambda}}{r_{\lambda}^3}\right]$$

$$\dot{y} + 2\Omega\dot{x} - \Omega^2 y = -\left[\frac{M_{\Lambda}}{r_{\Lambda}^3} + \frac{M_{\lambda}}{r_{\lambda}^2}\right] y$$

Film is ein

$$\vec{u} = \begin{pmatrix} \vec{x} \\ \vec{y} \\ \dot{\vec{y}} \end{pmatrix} = \begin{pmatrix} \dot{\vec{x}} \\ \dot{\vec{y}} \\ \dot{\vec{y}} \end{pmatrix} = \begin{pmatrix} \dot{\vec{x}} \\ 2 \dot{\vec{y}} \\ 2 \dot{\vec{y}} + \Omega^2 \times - \left(\mu_{\Lambda} \frac{x^4 \mu_{\Lambda}}{(n^3)} + \mu_{2} \frac{x^2 \mu_{\Lambda}}{(n^3)} \right) \end{pmatrix} = \epsilon$$

$$\Rightarrow d\vec{n} = \epsilon$$

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Dalcobi - const:

Ergebnisse (Plots):





