

Rechnerübung: Periodische Lösungen

Literatur:

J.D. Murray: Mathematical Biology I, 3rd ed.
Springer - 2002. Section 3.4.

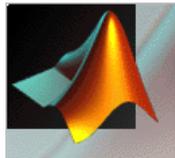
Räuber-Beute-Modell

$$u'(t) = u \cdot (1 - u) - \frac{auv}{u + d}$$

$$v'(t) = bv \cdot \left(1 - \frac{v}{u}\right)$$

Stabiler Grenzzyklus für

$$a = 2.0, \quad b = 0.1, \quad d = 0.2$$



see [perrhs.m](#)

