

Gabriele Villari
Università di Firenze
Italia

The phase-portrait of the second order differential equation

$$\ddot{x} + \sum_{l=0}^n f_l(x) \dot{x}^l = 0$$

is studied. Some results concerning existence, non-existence and uniqueness of limit cycles are presented. Among these, a generalization of a classical Massera uniqueness result is proved.