## Global normalizations for centers of planar vector fields

Clodoaldo Ragazzo

ragazzo@usp.br

Universidade de São Paulo, Brazil

In this talk we answer a question posed by Carmen Chicone on whether an analytic vector field with a non-degenerate global center can be transformed into a classical Newtonian equation  $\ddot{x} = -V'(x)$ . Additionally, we establish a global Poincaré normal form for planar centers.