MARLENE FRIGON, Universite de Montreal

Existence and multiplicity results for systems of differential equations

In this talk, we will present existence and multiplicity results for systems of first order differential equations. One should point out that one can find very few multiplicity results for systems of differential equations in the literature. Our results will rely on a new notion called the method of solution-region. This notion generalizes the method of upper and lower solutions in the scalar case.