
CHRISTINE EAGLES, University of Waterloo

Internality of autonomous algebraic differential equations

Sometimes, solutions to a system of differential equations can be considered as a subset of the constants of some differentially closed field of characteristic zero together with some fixed solutions. When this happens, we say the set of generic solutions is internal to the constants of this field. This talk describes progress, from joint work with Léo Jimenez, on developing an algebraic criterion for when solutions sets are almost internal to the constants.