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Generalized ODEs and measure differential equations: results and applications

In this talk, we present results concerning prolongation of solutions, boundedness of solutions as well as stability results for generalized ODEs. Also, using the correspondence between the solutions of generalized ODEs and the solutions of measure differential equations, we extend our results for these last equations, obtaining more general results than the ones found in the literature. Finally, by the correspondence between measure differential equations and dynamic equations on time scales, we also prove our the results for these last ones.