

ANALYSIS SEMINAR

Some results concerning Volterra–Stieltjes integral equations**Anna Carolina Lafetá**

Universidade de Brasília

Date: November 13, 2020

Time: 10:00 am

Abstract. In this seminar, we present some results about solutions of integral equations in the sense of Henstock–Kurzweil–Stieltjes. We give conditions to the existence and uniqueness of solutions and some results about stability. Moreover, we present a connection between generalized ODEs and Volterra–Stieltjes integral equations.

References

- [1] M. Bohner and A. Peterson, *Dynamic Equations on Time Scales: An Introduction with Applications*, Birkhauser, Boston, 2001.
- [2] M. Federson, R. Grau and J. G. Mesquita, Prolongation of solutions of measure differential equations and dynamical equations on time scales, *Math. Nachr.* 2018.
- [3] Š. Schwabik, *Generalized Ordinary Differential Equations*, World Scientific, Series in Real Anal., vol. 5, 1992.