



ANALYSIS SEMINAR

Prolongation of solutions for functional Volterra Stieltjes integral equations of convolution type

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Abstract. In this work, we present some results concerning local existence and uniqueness of solution for functional Volterra Stieltjes integral equations of convolution type. We also prove the existence and uniqueness of maximal solutions of these type of equations. Lastly we exhibit some examples.

References

- [1] M. Bohner and A. Peterson, *Dynamic Equations on Time Scales: An Introduction with Applications*, Birkhauser, Boston, 2001.
- [2] M. Bohner and A. Peterson, *Advances in Dynamic Equations on Time Scales*, Birkhauser, Boston, 2003.
- [3] M. Federson, R. Grau and J. G. Mesquita, Prolongation of solutions of measure differential equations and dynamical equations on time scales, *Math. Nachr.* 2018.