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Section:

8. Analysis

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A Characterization of Uniform Continuity for Volterra Equations in Hilbert Spaces

We show that the norm continuity of the resolvent for a Volterra equation of scalar type is equivalent to the decay to zero of an holomorphic operator family along some imaginary axis. The result extends a characterization of eventually norm continuous semigroups obtained by P. You (Proc. Amer. Math. Soc. 116 (1992)).