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**Kurzweil-Stieltjes integration for operators with applications**

The contribution deals with initial value problems for the semilinear measure driven equations of the form

\[ du = Au \, dt + f(t,u) \, dg, \]

where the real valued function \( g \) is non-decreasing (or, more generally, simply regulated), while \( A \) is an infinitesimal generator of a \( C_0 \)-semigroup of bounded linear operators on a given Banach space.

The existence of solutions with a bounded variation will be provided via an appropriate fixed point theorem.