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**Representation of  $c_0$ -semigroups of operators by a chronological integral.** (English)

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Mem. Differ. Equ. Math. Phys. 11, 47-66 (1997).

Summary: Right and left chronological integrals are defined for a function of real variable whose domain of values is endowed with minimal algebraic and limiting structures. It is proved that an exponential function of a linear (possibly unbounded) operator can be represented by means of a chronological integral which preserves a number of properties of a chronological exponent.

**MSC:**

47D06 One-parameter semigroups and linear evolution equations

28B10 Group- or semigroup-valued set functions, measures and integrals

**Keywords:**

monoid; arrow inversion; integration by parts;  $c_0$ -semigroup of operators; right and left chronological integrals; exponential function; chronological exponent

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