C-distribution semigroups and C-ultradistribution semigroups in locally convex spaces

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The main purpose here is investigation of the C-distribution semigroups and C-ultradistribution semigroups in the setting of sequentially complete locally convex spaces. There are a few important theoretical novelties in this field and there are some interesting examples that are given. Stationary dense operators in sequentially complete locally convex space are considered.