EXPONENTIAL STABILITY OF EVOLUTION OPERATORS IN LOCALLY CONVEX SPACES

SIMONA DRAGAN

Abstract. In this paper we consider a class of evolution operators in locally convex spaces for which we introduce the concepts of uniform stability and uniform exponential stability. We obtain a variant of the Datko’s theorem for this class of evolution operators.

Department of Mathematics and Computer Science, University of Oradea, str. Universitatii nr. 1, 410087 Oradea, Romania
E-mail address: sdragan@uoradea.ro

2000 Mathematics Subject Classification. 34G10, 47D06.
Key words and phrases. locally convex space, evolution operator, uniform stability, exponential stability.