

Year: 2017

Vol.: 91

Fasc.: 3-4

Title: B -spectral theory of linear relations in complex Banach spaces

Author(s): Marcel Roman and Adrian Sandovici

Let \mathfrak{X} and \mathfrak{Y} be two complex Banach spaces. Let A be a multi-valued linear operator (a linear relation) from \mathfrak{X} to \mathfrak{Y} , and let B be an everywhere defined bounded operator also from \mathfrak{X} to \mathfrak{Y} . Operator B plays the role of a transition operator from \mathfrak{X} to \mathfrak{Y} . It is the main goal of the present note to study the basic spectral properties of A linked to the transition operator B .

Address:

Marcel Roman
Department of Mathematics
and Informatics
“Gheorghe Asachi” Technical
University of Iași
B-dul Carol I, nr. 11
700506, Iași
Romania

Address:

Adrian Sandovici
Department of Mathematics
and Informatics
“Gheorghe Asachi” Technical
University of Iași
B-dul Carol I, nr. 11
700506, Iași
Romania