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

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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.

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