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Existence of solutions for integrodifferential inclusions in Banach spaces

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Abstract: In this paper we examine nonlinear integrodifferential inclusions defined in a separable Banach space. Using a compactness type hypothesis involving the ball measure of noncompactness, we establish two existence results. One involving convex-valued orientor fields and the other nonconvex valued ones.

Keywords: sublinear measure of noncompactness, orientor, field, selector, upper semicontinuity, lower semicontinuity, graph measurability, weak measurability
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