

INTERNATIONAL CONFERENCE ON DYNAMICAL SYSTEMS
IN HONOUR OF MICHAŁ MISIUREWICZ ON HIS 60TH BIRTHDAY

BĘDLEWO, POLAND, JUNE 30 – JULY 5, 2008

Conley index and the Leray–Schauder degree

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Let H be a real Hilbert space. With an isolated invariant set $\text{inv}(N)$ of a flow ϕ^t generated by an \mathcal{LS} -vector field $f: H \supseteq \Omega \rightarrow H$, $f(x) = Lx + K(x)$, where $L: H \rightarrow H$ is strongly indefinite linear operator and $K: H \supseteq \Omega \rightarrow H$ is completely continuous, one can associate a homotopy invariant $h_{\mathcal{LS}}(\text{inv}(N), \phi^t)$ called the \mathcal{LS} -Conley index. In fact, this is a homotopy type of a finite CW-complex. We will show how to define Euler characteristic of such index (through cohomology). The formula relating this number to the Leray–Schauder degree will be given.