

Fixed point index for boundary-preserving maps

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In some situations the fixed point index of a map defined on a given space may be calculated using fixed point index of its restriction to a subspace. In this talk we consider pairs of maps $(f, f_0): (M, \partial M) \rightarrow (M, \partial M)$, where M is a manifold with a boundary ∂M . Under the assumption that $x_0 \in \partial M$, we study the relations between fixed point indices $\text{ind}(f_0, x_0)$ and $\text{ind}(f, x_0)$.