

Dr. Fabian Ziltener (Toronto) A Maslov Map for Coisotropic Submanifolds

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Let

be a symplectic manifold, a coisotropic submanifold, a finite union of isotropic leaves, and a compact oriented real surface. This gives rise to a natural real valued map on the set of homotopy classes of continuous maps from to that map the boundary of to . This map agrees with the usual Maslov index if is Lagrangian. The main result is a lower bound on the number of leaf-wise fixed points of a Hamiltonian diffeomorphism if is closed and is a closed, monotone and regular coisotropic submanifold.

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