

Short Research Talks

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Title: Steenrod squares for quantum cohomology, and other symplectic invariants.

Abstract:

The Steenrod square is a ring homomorphism from the cohomology of a topological space to the $\mathbb{Z}/2$ -equivariant cohomology of this space (with the trivial $\mathbb{Z}/2$ -action). I will briefly describe up to three different generalisations of this operation: the first is in the setting of quantum cohomology, the second (due to Seidel) is in the setting of symplectic cohomology, and the third is work in progress for real Lagrangian submanifolds.