A SMITH INEQUALITY FOR FIXED POINT FLOER COHOMOLOGY

Jingyu Zhao
Brandeis/Harvard University

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Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: We will describe an analogue of the classical Smith inequality for cyclic group of prime order p for fixed point Floer cohomology, which compares the ranks of the fixed point Floer cohomology of a symplectomorphism to its p-th iterations. The proof uses a construction of an equivariant p-th power map, which can be viewed as a noncommutative version of the classical Frobenius map. This work in progress is based on the previous work by P. Seidel in the case of p = 2.

See http://math.bu.edu/research/geom/seminar.html or contact Yoosik Kim (yoosik@bu.edu) or Siu-Cheong Lau (lau@math.bu.edu) for more information.