

1135-54-1171      **Jingyu Zhao\*** (jzhao0105@gmail.com), 70 Adams St, Hoboen, NJ 07030. *A Smith inequality for fixed point Floer cohomology.*

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. This work in progress is based on the previous work by P. Seidel in the case of  $p=2$ . (Received September 20, 2017)