Dynamics of the outer automorphism group on the second bounded cohomology of a free group

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The $\operatorname{Out}(G)$ -action on the group cohomology $H^k(G)$ of a group G is an important object of study in group theory. On the contrary, almost nothing is known about the corresponding $\operatorname{Out}(G)$ -action on the bounded group cohomology $H_b^k(G)$. For the free group F_n and k = 2, this action is given by the action of $\operatorname{Out}(F_n)$ on quasimorphisms $Q(F_n)$. In this talk, we will study the action of $\operatorname{Out}(F_n)$ on counting quasimorphisms, which form an invariant, dense subspace of $Q(F_n)$. There the dynamics of the unipotent elements in $\operatorname{Out}(F_n)$ will be presented concretely and visualized. In particular we will explicitly characterize all invariant finite-dimensional subspaces.