

Title: Mapping class groups and group cohomology

Abstract: In the first volume of ‘Hochschild cohomology, modular tensor categories, and mapping class groups,’ S. Lentner, S. N. Mierach, C. Schweigert, and the speaker have constructed mapping class group representations on the so-called derived block spaces, using a framework created by V. Lyubashenko. In the forthcoming second volume, we will compute these representations in explicit examples. In this talk, we will briefly review these results, but the main focus will be on the necessary tools from group cohomology that are used in this computation. The talk is based on joint work with the authors mentioned above.