

**EQUIVARIANT COHOMOLOGY OPERATIONS AND THE
RELATIONSHIP BETWEEN SQUARING OPERATIONS
ACROSS FIXED-POINT FUNCTORS**

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Let G be a finite 2-group. In this talk, I will explain a general method for constructing $RO(G)$ -graded cohomology operations on G -equivariant spaces. One could hope that this method will shed light on the relationship between the $RO(H)$ -graded cohomology operations and $RO(G)$ -graded cohomology operations under the fixed-point and restriction functors, where H is a normal subgroup of G . This is certainly the case when $G = C_2$, which appears in the recent work <https://arxiv.org/pdf/2106.10769.pdf> joint with B. Guillou and A. Li.

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