

*Department of Mathematics,  
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## Math 292 - Topology Seminar

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## Equivariant Steenrod Operations

### Abstract:

Classical Steenrod algebra is one of the most fundamental algebraic gadgets in stable homotopy theory. It led to the theory of characteristic classes, which is key to some of the most celebrated applications of homotopy theory to geometry. The  $G$ -equivariant Steenrod algebra is not known beyond the group of order 2. In this talk, I will recall a geometric construction of the classical Steenrod algebra and generalize it to construct  $G$ -equivariant Steenrod operations. Time permitting, I will discuss potential applications to equivariant geometry.

Host: Zhouli Xu

**Tuesday, October 26, 2021**

**10:30 AM**

**<https://ucsd.zoom.us/j/99777474063>**

**password = topology**

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