

# Topology Seminar

**Melody Chan**

of Brown University will be speaking on

## A Hopf algebra in the cohomology of moduli of abelian varieties

on May 5 at 4:30 in  
MIT Room 2-131

I will discuss aspects of joint work with Brown, Galatius, and Payne. In particular, we identify a Hopf algebraic structure in the weight 0 cohomology with compact supports of the moduli space of abelian varieties, and we deduce exponential growth results as a corollary. A key role is played by the moduli space of tropical abelian varieties, which is stratified by locally symmetric spaces  $GL_n(\mathbb{Z})\backslash GL_n(\mathbb{R})/O(n)$ . *I will try to emphasize aspects of this work not discussed*

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