

1162-18-186

Julia Plavnik* (jplavnik@iu.edu). *Cohomology of finite tensor categories: duality and Drinfeld centers.*

In the talk, we consider the *finite generation property* for cohomology of a finite tensor category \mathcal{C} , which requires that the self-extension algebra of the unit $\text{Ext}_{\mathcal{C}}^*(\mathbf{1}, \mathbf{1})$ is a finitely generated algebra and that the graded extension group $\text{Ext}_{\mathcal{C}}^*(\mathbf{1}, V)$ is a finitely generated $\text{Ext}_{\mathcal{C}}^*(\mathbf{1}, \mathbf{1})$ -module, for all V in \mathcal{C} . We explore how this cohomological finiteness property is affected by different constructions of finite tensor categories, such as duality (with respect to exact module categories) and taking the Drinfeld center. This talk is based on a joint work with Cris Negron. (Received August 31, 2020)