

**Speaker:** Vera Serganova (UC Berkeley)

**Title:** On abelian envelope of the Deligne category  $GL(t)$ .

**Abstract:** We discuss properties of the abelian envelope of the Deligne category  $\text{Rep } GL(t)$  in the case when  $t$  is an integer. We compute dimension of certain objects, define the character ring and explore its connection with symmetric and supersymmetric polynomials. We also study the Grothendieck ring of  $\text{Rep } GL(t)$  as a module over  $\mathfrak{sl}(\infty)$ .