



Seminar/Talk

Atiyah-Segal completion theorem for singular varieties

Vladimir Sosnilo

University of Regensburg

Host: Tamas Hausel / Jakub Löwit

We prove the AS completion theorem for almost toric actions on singular varieties in characteristic 0. The strategy is based on the two ingredients: 1. the A_1 -invariant AS completion theorem proved by Amalendu Krishna; 2. a completion theorem for Hochschild homology proved by Harrison Chen. To get the result the two ingredients are combined using the cyclotomic trace techniques. As an application, we construct a complete motivic filtration on the AS completion of the equivariant K-theory, extending Elmanto-Morrow filtration from the case of schemes. This is based on joint work in progress with Elden Elmanto and Dmitry Kubrak.

Thursday, January 23, 2025 01:00pm - 03:00pm

Office Bldg West / Ground floor / Heinzl Seminar Room (I21.EG.101)



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