Seminar/Talk

Atiyah-Segal completion theorem for singular varieties

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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 A1-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 / Heinzel Seminar Room (I21.EG.101)