

Department of Mathematics, BGU

AGNT

On Wednesday, May ,22 2024

At 14:10 – 15:10

In 101-

Mark Shusterman (Weizmann)

will talk about

Fundamental Groups of Projective Varieties are Finitely Presented

Abstract: Lara—Srinivas—Stix, building on joint work with Esnalt, have recently shown that the étale fundamental group of a connected proper scheme over an algebraically closed field is topologically finitely presented, thus answering a question raised in SGA. The proof relies on a finite presentation criterion of Lubotzky for profinite groups, resolutions of singularities/alterations, a theorem of Deligne—Illusie on the Euler characteristic, as well as other modern and classical results in (arithmetic) algebraic geometry.