

16 November, 2022

NOTICE

Speaker : Yashonidhi Pandey

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Title : Bruhat-Tits theory over a smooth higher

dimensional base

Date & Time : Wednesday, 23 November, 2022, 11:00-12:00 PM (Via Zoom)

Abstract

We report on a joint work with Vikraman Balaji. It addresses the following question:

Let G be an almost simple, split, simply connected Chevalley group scheme over \mathbb{Z} . Let \mathbb{A}° denote the complement of the "axes" in \mathbb{A}^n_k , and let U be its union with Spec of DVRs which are the local rings at the generic points of the axes in \mathbb{A}^n_k . Given BT group schemes adapted to the axis divisors of \mathbb{A}^n_k , using the identity function, we glue them with $G \times \mathbb{A}^{\circ}$ to get a group scheme on U. Does it extend to the whole space \mathbb{A}^n_k ?

Milind Pilankar