

ALGEBRA
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New building blocks for \mathbb{F}_1 -geometry: band and band schemes

Tong Jin
Georgia Institute of Technology

Abstract: Algebraic geometry over the “field with one element” was an idea first introduced by Jacques Tits in the 1950s. After motivations from algebraic group theory and matroid theory, I will sketch the idea for band and band schemes along with their basic properties. There are various different topological spaces which one can associate to a band scheme X , and they correspond to various interesting combinatorial structures. This is based on a joint work with Matt Baker and Oliver Lorscheid.

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