

# Which arithmetic parabolics are finitely presented?

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## Abstract

It is still a mystery which  $S$ -arithmetic groups can be described with finitely many generators and relations. From the 1950s (after Nagao) until the 1990s (after Behr), we learned how to detect whether  $S$ -arithmetic subgroups of reductive groups (that is, those we use to construct buildings) or Borel subgroups thereof are finitely presented. The landscape in-between is given by the so-called parabolic subgroups, which are simplex stabilizers in a building. In this talk we shall give a partial classification of finitely presentable  $S$ -arithmetic parabolics.

**Keywords:** Arithmetic groups, parabolic subgroups, finitely presented.

**MSC:** 11E57, 20F05, 20F12, 20H25, 20G30.

## References

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