

## **Residual properties of rank n GBS groups**

**Jone Lopez de Gamiz Zearra**

Vanderbilt University

`jone.lopez.de.gamiz.zearra@vanderbilt.edu`

A rank  $n$  Generalized Baumslag-Solitar group (rank  $n$  GBS group, for short) is a group that splits as a finite graph of groups such that all edge and vertex groups are isomorphic to  $\mathbb{Z}^n$ . When  $n$  equals 1, these groups are just known as Generalized Baumslag-Solitar groups (GBS groups).

In this talk we review historical results about residual finiteness and (cyclic) subgroup separability of Baumslag-Solitar groups and GBS groups, and we discuss how these results extend to this new more general class of groups.

**(joint work with Sam Shepherd)**