

## **Random walks on Baumslag groups**

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Baumslag groups are finitely presented groups containing Lamplighter groups as a subgroup. While in other dimension and in  $d=2$  for torsion by-Abelian Baumslag groups these groups are Liouville or not Liouville when the same property holds for Lamplighters, we show that dimension 2 torsion-free Baumslag groups have non-trivial Poisson boundary.

**(joint work with Josh Frisch, Mark Rychnovsky)**