## The Howson property for one-sided ideals of semigroups

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## Abstract

A group exhibits the Howson property if the intersection of any two finitelygenerated subgroups is itself finitely-generated. This is a finitary condition for groups: any finite group will satisfy this property. Finitary conditions, including the Howson property, have been well-studied for other classes of algebras (notably for rings and (free) inverse semigroups). We say a semigroup S is right ideal Howson if the intersection of  $xS^1 \cap yS^1$  is finitely generated for any  $x, y \in S$ . We define left ideal Howson dually. In this talk, I will be discussing (right) ideal Howson semigroups with a particular emphasis on semigroups of idempotents. This is part of joint work completed with my Ph.D. Supervisor, Prof. Victoria Gould, at the University of York.

**Keywords:** Howson property, semigroup, idempotents.