

1086-20-300

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Closure Properties of Stackable Groups. Preliminary report.

A Cayley graph is a geometric representation of a group that encodes the group elements and the relations between them. Studying the geometric properties of the Cayley graph can provide valuable information about the group. One such geometric property, recently introduced by Brittenham and Hermiller, is called *stackability*. Stackability captures the geometric properties of both almost convex groups and rewriting systems for groups, and holds for all geodesically automatic groups. Closure properties for stackability are of interest, not only for providing more examples of classes of stackable groups, but also because some of the classes of groups that are stackable have restricted closure properties. This poster will present the current known information about the closure properties of stackable groups, as well as some other interesting examples of stackable groups. (Received August 17, 2012)