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## Division, group rings, and negative curvature

*Friday 26 May 2023 09:30 (45 minutes)*

A basic problem in low dimensional topology is to understand the 2-complexes with a given fundamental group  $G$ . I will explain how this can be studied using a division algorithm in the group ring of  $G$ , and describe some instances in which such an algorithm is available.

**Primary author:** AVRAMIDI, Grigori

**Presenter:** AVRAMIDI, Grigori