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Some conjectures on tiling cohomology

Tiling cohomology (that is, the cohomology of the hull of an aperiodic material) has been studied quite intensely over the past fifteen years. Overall, its role as a quantification of aperiodic order remains unclear. In particular, there are some very basic questions concerning the first cohomology group which remain open. I will discuss a couple of these and some other related open problems.