MONICA GARCIA, LACIM

Infinite superfriezes

A frieze is an infinite arrangement of integers that satisfies the simple unimodular rule $ad - bc = 1$. Since their introduction by Coxter, friezes have become an important topic in algebraic combinatorics due to their connections to cluster algebras, triangulations of surfaces and perfect matchings. In this talk, I will introduce the notion of a superfrieze: a generalization of friezes where the entries are elements of a supercommutative algebra, and recall some of their geometric and combinatorial realizations. I will report on joint work with A. Burcroff, İ. Çanakçı, F. Fedele and V. Klász on how to construct infinite superfriezes from decorated skeletal triangulations of annuli.