

## **Combinatorial tools in Teichmueller theory.**

**Valentina Disarlo** (IRMA Strasbourg)

**Abstract:** The goal of this talk is to illustrate some aspects of the interplay between Teichmueller theory and the combinatorics of some "natural" simplicial complexes encoding the topology of a surface: curve complex, pants graph and arc complex. Some new large scale properties of another combinatorial tool, the so-called complex of domains, will be also discussed.