

Representation of surface automorphisms by tête-à-tête graphs

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In this talk we will introduce the notions of tête-à-tête graph and mixed tête-à-tête graph. These are metric ribbon graphs with some properties that codify the topology of a surface and a mapping class in its mapping class group. We will look at some examples and state some applications of this theory. This is joint work with Javier Fernández de Bobadilla and María Pereira.