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Triangulations of surfaces and conjugacy classes in the modular group

In this talk, we shall review counting techniques for maps on surfaces related to subgroup counting in infinite groups introduced by Breda-d'Azevedo, Nedela and Mednykh, rather than the classical approach based on the symmetric group and developed by Jones and Singerman, Bousquet-Mélou, Goulden and Jackson, and many other authors. We shall apply these techniques to the modular group in order to count the number of triangulated surfaces with n triangles up to (triangulation-preserving) homeomorphism.