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**Sara Maloni\*** ([sm4cw@virginia.edu](mailto:sm4cw@virginia.edu)), **Frederic Palesi** and **Tian Yang**. *On type-preserving representations of thrice punctured projective plane group.*

In this talk we consider type-preserving representations of the fundamental group of the three-holed projective plane  $N$  into  $\mathrm{PGL}(2, \mathbb{R})$ . First, we prove Kashaev's conjecture on the number of connected components with non-maximal euler class. Second, we show that for all representations with euler class 0 there is a one simple closed curve which is sent to a non-hyperbolic element, while in euler class 1 or -1 we show that there are six components where all the simple closed curves are sent to hyperbolic elements and 2 components where there are some simple closed curves sent to non-hyperbolic elements. This answers a generalisation of a question asked by Bowditch. In addition, we show also, in most cases, that the action of the pure mapping class group  $\mathrm{Mod}(N)$  on these non-maximal components is ergodic. (This is joint work with F. Palesi and T. Yang.) (Received January 23, 2019)