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Alice Guionnet*, Ecole Normale Supérieure de Lyon, Lyon, France. *Free probability, Random matrices and map enumeration, III.*

Random matrices can be used to represent loop models on planar maps, including for instance the Potts model on random planar maps or more generally tracial states on planar algebras. We shall discuss this connection in this talk (which will not require to have followed the first two talks). (Received April 10, 2012)