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Modular Properties of Generalised Gibbs Ensembles

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Generalised Gibbs Ensembles (GGEs) appear in a wide range of contexts, from statistical physics to black hole thermodynamics and holography. They are constructed by inserting higher-spin conserved charges into a theory's partition function. A 2D Conformal Field Theory partition function is a modular invariant, so it is natural to ask about the modular properties of the GGE. In some cases this can be understood exactly, in others one can rely on integrability techniques. This talk will highlight some recent advances in understanding GGEs.

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