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Phase transitions from dilation matrices and self similar actions

I will talk about some recent computations of equilibrium states for the natural periodic dynamics of Cuntz-Pimsner algebras and their Toeplitz extensions. The main examples arise from integer dilation matrices, and, more generally, from self-similar group actions. This is joint work with Iain Raeburn, Jacqui Ramagge, and Michael Whittaker.