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*Equilibrium states on  $C^*$ -algebras of right lcm monoids*

Left cancellative monoids with right lcm's (least common multiples) for every pair of elements with a common right multiple cover a variety of examples, such as Zappa-Szep products from self-similar actions of groups, and several classes of semidirect products. The  $C^*$ -algebras of such monoids that display a generalised scale, namely a particular type of monoid homomorphism into the multiplicative natural numbers, admit a characterisation of all their equilibrium states. I will present some of the key ideas in this characterisation. The talk is based on a joint work with Nathan Brownlowe, Jacqui Ramagge and Nicolai Stammeier.