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KMS states of self-similar k-graph C*-algebras

Let G be a discrete amenable group, and Λ be a strongly connected finite k-graph. In this talk, we will describe the structure of the KMS simplex of the C*-algebra $\mathcal{O}_{G,\Lambda}$ associated to (G, Λ) when (G, Λ) is a pseudo free and locally faithful self-similar action. This is joint work with Hui Li.