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Type III von Neumann algebras associated with rank 2 graphs

Let \mathbb{F}_θ^+ be a rank 2 graph, where θ is a permutation encoding the factorization property in the rank 2 graph, and ω be a distinguished faithful state associated with its graph C*-algebra. In this talk, we will discuss when the von Neumann algebra induced from the GNS representation of ω is a factor and its type.