
DILIAN YANG, University of Windsor

Factoriality and type classification of k -graph von Neumann algebras

Consider a (single vertex) k -graph, and the von Neumann algebra \mathfrak{M} induced from the GNS representation of a distinguished state of its graph C^* -algebra. In this talk, we will present some results characterizing when \mathfrak{M} is a factor under certain conditions, and further determine its type. As an immediate consequence, the case of $k = 2$ is completely settled.