

Near Group Categories and Their Relatives: Cuntz Algebra Approach

Masaki Izumi
Kyoto University, Japan

Abstract

A near-group category is a fusion category with one additional irreducible object other than invertible ones. I discuss how to use Cuntz algebra endomorphisms to construct and classify near-group categories and their relatives. I also discuss the classification of 3^n subfactors with odd n , including the Haagerup subfactor as a special case with $n = 3$.