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The search for the exotic in Subfactors and Conformal Field Theory

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Groups can act as symmetries of physical systems and on their mathematical models as in conformal field theory.

Vaughan's subfactor theory provides a framework for quantum symmetries beyond those arising from groups or their deformations as quantum groups or loop groups. The accepted position was that the Haagerup system, associated with the a subfactor at index $(5 + \sqrt{(13)})/2$, was exotic and surely could not be constructed from group like symmetries. I discuss work with Terry Gannon that this should be considered as misconception and the more general issue of constructing conformal field theories from subfactors and their associated modular tensor categories.

Presenter: EVANS, David