

Geometry, Topology and Dynamics Seminar

The Extended Haagerup fusion categories

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Abstract: Sometimes, two fields of math realize they are talking about the same objects, but in sufficiently different ways that it is hard to know whether they are seeing the same aspects in different disguises, or authentically distinct aspects. This is the story of what happened when subfactors and fusion categories were observed to be two sides of the same coin. In this case the work of translation turned out to be highly profitable: subfactor examples disproved some conjectures about fusion categories, and recently, fusion category techniques have provided a framework to answer some questions about subfactors, including the question of Morita equivalence. This talk will attempt to explain the connection between these fields and one of these results (arXiv:1810.06076), without assuming any background on subfactors or fusion categories. This is joint work with Grossman, Morrison, Penneys and Snyder.

Monday, April 22 at 3:00 PM in 636 SEO
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