THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Department of Mathematics

Seminar on Pure Mathematics

Modular Categories II

by

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Abstract

Using the structure elements that we have discussed in the first talk, one can define two matrices, the so-called Verlinde matrix and the so-called Dehn matrix. A category is called modular if its Verlinde matrix is invertible. In this case, these two matrices lead to a representation of the modular group, which explains the name of the concept. We prove this fact in detail. We also explain briefly how modular categories arise from Hopf algebras or quasi-Hopf algebras.

Date	28 May 2010, Fri
Time	3:30PM-4:30PM
Venue	Room 3416, near lifts 17&18

All are welcome!

Posted by majw