Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

Fakultät für
Mathematik, Informatik
und Naturwissenschaften

Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 30. Januar 2018

17 Uhr s.t., Geom H4

Prof. Dr. Yi-Zhi Huang

Rutgers University, New Jersey

Affine Lie algebras and tensor categories

Abstract:

I will give a survey on the constructions of and conjectures on various tensor category structures on module categories for affine Lie algebras. I will review the construction by Kazhdan-Lusztig in the case that the sum of the level and the dual Coxeter number is not a nonegative rational number and the constructions by myself and by Finkelberg (after a gap was filled using the Verlinde formula) in the case that the level is a positive integer. I will discuss my recent construction, jointly with Creutzig and Yang, in the case that the level is admissible and will also present the conjectures on its rigidity, modularity and equivalence with a suitable quantum group tensor category.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.