



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 24. Januar 2017

17 Uhr s.t., Geom H4

Prof. Dr. Christoph Schweigert
(Universität Hamburg)

Radford's S^4 theorem — old and new

Abstract:

Hopf algebras are an algebraic structure generalizing group algebras; they have applications in combinatorics, geometry, representation theory and mathematical physics. A classical theorem of Radford, dating back to 1976, describes the forth power of the antipode, a structure generalizing the inverse in a group.

In the talk, we relate this theorem to other algebraic structures of independent interest: we present Morita-invariant versions of Eilenberg-Watts theorems which give equivalences of categories. These equivalences turn out to be compatible with the structure of module categories over finite tensor categories, leading to a natural generalization of Radford's S^4 -theorem to bimodule categories.

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