Title: Frobenius monoidal functors and extensions of Hopf algebras

Speaker: Robert Laugwitz (University of Nottingham)

Abstract: In this talk, I will explain conditions that ensure that ambiadjoints of strong monoidal functors are Frobenius monoidal functors. I will also discuss stronger conditions under which such functors extend to braided Frobenius monoidal functors between the respective Drinfeld centers. If the strong monoidal functors are obtained from Frobenius extensions of Hopf algebras, sufficient conditions for both results, involving unimodularity or (co)semisimplicity for the stronger conditions, will be discussed if time permits. Examples include extensions of Hopf algebras involving quantum groups at unity. This is joint work with Johannes Flake (Bonn) and Sebastian Posur (Münster).