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Hopf algebras and generalisations

Hopf monads are a generalisation of Hopf algebras that have helped to clarify several aspects of their theory, especially those relating to the extra structure carried by the category of representations of a Hopf algebra. There are, however, other structures that qualify as "Hopf" but are outside the reach of the Hopf monads, such as the quasi Hopf algebras of Drinfel'd. This talk reports on current work on a notion of Hopf monad that encompasses the two examples mentioned (joint with Alain Bruguières & Mariana Haim).