Hopf25

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Remarks on Hopf categories

The Hopf V-categories are multi-object generalizations of Hopf monoids in some symmetric monoidal category V. It consist of a family of comonoid in V double indexed by some set X together with a global multiplication and units, satisfying associativity and unitality conditions as well as an antipode. One can similarly define Hopf (G, V)-categories by indexing over any groupoid G. In this talk we will discuss generalities about Hopf V- and (G, V)-categories and give an outlook on upcoming work on their representation theory.