

1072-05-82

**Jacob Anthony White\*** (uaswitch@gmail.com). *Hopf Monoids in Graphical Species*.

We investigate monoidal structures on the category of graphical species. Graphical species are functors from the category of graphs (with isomorphisms) to the category of vector spaces over a fixed field. We focus on studying 'graphical analogues' of results for Hopf monoids in species. For this talk, we will focus on some basic examples, while showing new structures that arise in graphical species. (Received June 20, 2011)