1006-57-262   **Fernando J. O. Souza*** (`fernando-souza@uiowa.edu`), Department of Mathematics, 14 MLH, University of Iowa, Iowa City, IA 52242. *Non-additive versions of the Hennings (KRH) invariant.* Preliminary report.

The Kauffman-Radford reformulation of the Hennings invariant (KRH invariant) of orientable, closed 3-manifolds is defined via surgery instructions in terms of formal sums involving diagrams and Hopf-algebra objects. We consider and explore variations of that definition, retaining the use of diagrammatic Hopf-algebra objects, but not the assumption that the underlying category is additive. One of our focuses is the study of the relationship between the KRH and other invariants.

1