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Istvan Heckenberger* (heckenberger@mathematik.uni-marburg.de). *On an equivalence of categories of relative Yetter-Drinfeld modules.*

The structure theory and the classification of pointed Hopf algebras is greatly influenced by the Weyl groupoid action on categories of semisimple Yetter-Drinfeld modules. The Weyl groupoid was introduced first in a joint paper of Andruskiewitsch, Schneider and the presenter. In this talk a very general equivalence between categories of Yetter-Drinfeld modules is presented which explains the existence of the Weyl groupoid. The talk is based on joint work with H.-J. Schneider. (Received September 15, 2011)