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Polynomial identities of algebras with the action of Hopf algebras

In a joint paper with Felipe Yukihide Yasumura, we prove the following. Suppose we are given a Hopf algebra H and two H -simple finite-dimensional H -algebras A and B , over an algebraically closed field F . If A and B have the same polynomial H -identities then A and B are isomorphic as H -algebras.