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Ramy Yammine*, ramy.yammine@temple.edu. *On actions of connected Hopf algebras.*

Let H be a connected Hopf algebra acting on an algebra A . Working over a base field having characteristic 0, we show that for a given prime (semi-prime, completely prime) ideal I of A , the largest H -stable ideal of A contained in I is also prime (semi-prime, completely prime). We also prove a similar result for certain subrings of convolution algebras. (Received August 17, 2020)