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Bach Nguyen*, bnguy38math@gmail.com, and **Martin Lorenz** and **Ramy Yammine**.

Representations of Hopf Algebra and noncommutative prime spectra.

Let H be a Hopf algebra and A be a left H -module algebra. Then the spectrum of A admits a stratification with its strata indexed by " H -prime" ideals of A . Using this stratification to study A was initiated by K. Goodearl and E. Letzter and then M. Lorenz, where they considered group actions. In this talk, we will provide a description of the H -strata for any A when H is cocommutative. This is a joint work with M. Lorenz and R. Yammine. (Received September 15, 2020)