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Alan Koch* (akoch@agnesscott.edu). *Kisin modules which correspond to monogenic Hopf algebras*. Preliminary report.

Let R be a complete discrete valuation ring of mixed characteristic $(0, p)$. Finite, flat, commutative, cocommutative Hopf R -Hopf algebras of p -power rank are classified by Kisin modules. We will describe when a Kisin module corresponds to an R -Hopf algebra which is monogenic, i.e., generated as an algebra by a single element. (Received September 17, 2013)