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Brandon Levin* (bwlevin@math.uchicago.edu). *An HN-theory for Kisin modules.*

We begin by introducing Kisin varieties in the context of Galois deformation rings. We will then describe a generalization of Fargues' HN-theory for finite flat group schemes to the larger category of Kisin modules. This HN-theory gives rise to stratifications of Kisin varieties. We also discuss partial results towards a tensor product theorem in this context. This is joint work with Carl Wang Erickson. (Received September 10, 2014)