Noncommutative homotopy scheme: universal noncommutative flag variety

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The universal noncommutative flag variety NGL(n)/B is represented by certain category of equivariant "sheaves" over a noncommutative analog NGL(n) of GL(n). Various standard examples like quantum flag varieties are closed subschemes in it, and the calculations of Gel'fand and Retakh with quasi-Plücker coordinates have natural interpretations there in. In this talk I will show the role of the infinity descent in the description of local structure. The quasicoherent sheaves over schemes may be obtained from the restrictions from affine covers by the usual descent and here a coherent homotopy version of descent does the same. For coherent sheaves however one does not need to invoke the higher descent but the usual descent suffices. Our example is different than the example of the noncommutative flag variety of Kontsevich and Rosenberg which is rather based on a group functor analog of NGL(n), rather than on universal matrix Hopf algebras which we employ.