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Hopf algebraic techniques applied to affine algebraic supergroups

I will report my recent results on affine algebraic supergroups, joint with Alexandr Zubkov, Taiki Shibata and Craig Pastro, emphasizing the Hopf algebraic techniques applied. The results will include a basic result on the quotient sheaf G/H (joint with Zubkov), a category equivalence between the Harish-Chandra pairs and the affine algebraic supergroups (by myself), a Hopf algebraic construction of the Chevalley supergroups over \mathbb{Z} (joint with Shibata), and some results on integrals (joint with Patro).