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Filipp Uvarov* (filuvaro@iu.edu), @iu.edu. *Duality for Bethe algebras acting on polynomials in anticommutative variables.* Preliminary report.

We consider the actions of the current Lie algebras $\mathfrak{gl}(n)[t]$ and $\mathfrak{gl}(k)[t]$ on the space of polynomials in kn anticommuting variables. We show that the images of the Bethe algebras under these actions coincide. To prove the statement we use the Bethe ansatz description of eigenvalues of the actions of the Bethe algebras via spaces of quasi-exponentials and establish explicit correspondence between these spaces. (Received September 18, 2019)