1117-22-498   **Evgeny Mukhin***, Department of Mathematical Sciences, IUPUI, 402 N. Blackford St., LD270, Indianapolis, IN 462023216. *Bethe ansatz for toroidal algebras.*

We describe the spectrum of integrable system associated with the quantum toroidal gl(1) using Bethe ansatz. Our approach allows to deduce the Bethe ansatz equations and the spectrum of the model solely from the representation theory. This is a report on a joint work with B. Feigin, M. Jimbo, and T. Miwa. (Received January 19, 2016)