

1112-16-298

Mitja Mastnak* (mmastnak@cs.smu.ca). *Deformations of graded bialgebras.*

I will present some aspect of deformation theory for graded bialgebras and how it relates to the lifting method of Andruskiewitsch and Schneider. Some tools based on joint works with F. Fantino, G. Garcia, L. Grunenfelder, and S. Witherspoon for explicitly computing the relevant cohomology groups and universal deformation formulas will be presented.

I will also briefly mention a braided version of this theory and how it might be used to define a concept of a quantum Lie algebra. This part is based on joint work with I. Angiono and M. Kochetov. (Received August 07, 2015)