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Nicole J. Snashall* (njs5@mcs.le.ac.uk), Department of Mathematics, University of Leicester, University Road, Leicester, LE1 7RH, England. *Koszul self-injective algebras and their deformations.*

Koszul self-injective algebras play an important part in many aspects of the representation theory of algebras. In this talk we consider a class of such algebras which arise in the representation theory of $U_q(sl_2)$, in the Drinfeld double of generalized Taft algebras, in the study of Hopf algebras associated to infinitesimal groups and as quantum complete intersections. We describe the structure of the Hochschild cohomology ring of these algebras and their formal deformations. (Received February 10, 2010)