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Milen Yakimov* (yakimov@math.lsu.edu), Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803. *Multiparameter quantum groups and quantum Schubert cells.*

Multiparameter twists of quantum groups and quantum Schubert cell algebras were considered by many authors after the work of Artin, Shelter and Tate. We will prove a conjecture of Brown and Goodearl that the prime ideals of the first class of algebras are completely prime. For the second class of algebras we will prove a conjecture of Goodearl and Lenagan that their H-primes are polynormal, compute the dimensions of the Goodearl-Letzter strata of their spectra, and prove that they are catenary. (Received December 10, 2011)