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Karen Staley* (Karen.Staley@ndsu.edu), Department of Mathematics, 300 Minard Hall, Fargo, ND 58105-5075. *The Primitive Spectrum of the Quantum Symplectic 4-Space.*

Quantized coordinate rings are typically formed by twisting the multiplication of a classical coordinate ring. As in the classical case, prime and primitive ideals are of interest in describing the structure of the rings. We will provide an overview of the Quantum Symplectic 4-Space $\mathcal{O}_q(\mathfrak{sp} \mathbf{k}^4)$ and describe its prime and primitive ideals. In particular, we will show that the primitive spectrum is a topological quotient of \mathbf{k}^4 . (Received February 18, 2005)