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*Mapping a quantum group into a quantum Weyl algebra and applications*

The representation of a reductive Lie algebra on a polynomial space by differential operators plays a pivotal role in classical invariant theory. In this talk, we describe a quantum analogue of this idea. We present some results, a conjecture, and an application to the quantum First Fundamental Theorem. This talk is based on joint work with Gail Letzter and Siddhartha Sahi.