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Alexandru Chirvasitu*, Department of Mathematics, 244 Mathematics Building, Buffalo, NY 14260, and **Jacek Krajczok** and **Piotr Soltan**. *Quantum disks, balls and groups*.

The Toeplitz algebra attached to the unit disk is the universal C^* -algebra generated by an isometry, and is a non-commutative analogue of the unit disk. Similarly, one can attach algebras to “quantum spaces” that can be regarded as non-commutative versions of non-compact Hermitian symmetric spaces. I will discuss results to the effect that such quantum spaces (e.g. the non-commutative cousins of the unit balls in complex spaces \mathbb{C}^n) cannot admit quantum group structures, i.e. their attached non-commutative “function algebras” do not admit reasonable Hopf algebra structures. (Received August 24, 2020)