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Abstract:

New examples of quantum principal bundles or principal comodule algebras are presented. The first class of examples includes $U(1)$ and quantum $SU(2)$ bundles over quantum real projective spaces. All these bundles are obtained by prolongation of the defining Z_2 actions. The second class contains bundles over quantum weighted projective spaces or quantum teardrop manifolds.

The results presented in this talk were obtained in collaboration with Simon A Fairfax and Bartosz Zielinski.