Albert Jeu-Liang Sheu* (asheu@ku.edu). Vector Bundles over Multi-pullback Quantum Projective Spaces. Preliminary report.

By realizing $C\left(\mathbb{P}^n(T)\right)$ and $C\left(S^{2n+1}_H\right)$ as groupoid C*-algebras for the quantum complex projective spaces $\mathbb{P}^n(T)$ constructed from the multi-pullback quantum spheres $S^{2n+1}_H$ introduced by Hajac and collaborators, we study the classification of the unitary equivalence classes of projections or equivalently the isomorphism classes of finitely generated projective modules over $C\left(\mathbb{P}^n(T)\right)$ and $C\left(S^{2n+1}_H\right)$, and identify those quantum principal $U(1)$-bundles introduced by Hajac and collaborators among the projections classified. (Received September 01, 2016)