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Pete Goetz* (pdg11@humboldt.edu), Mathematics Department, Humboldt State University, 1 Harpst St, Arcata, CA 95521. *Point Modules over a \mathbb{Z}^2 -graded quantum \mathbb{P}^3 .*

Let Γ be a finitely generated abelian group. Let A be a Γ -graded ring and \mathfrak{a} a graded ideal. We will first define the non-commutative space $\text{Proj}(A, \Gamma, \mathfrak{a})$. Then we present some preliminary computations of the point modules over a specific \mathbb{Z}^2 -graded quantum \mathbb{P}^3 . (Received January 08, 2007)