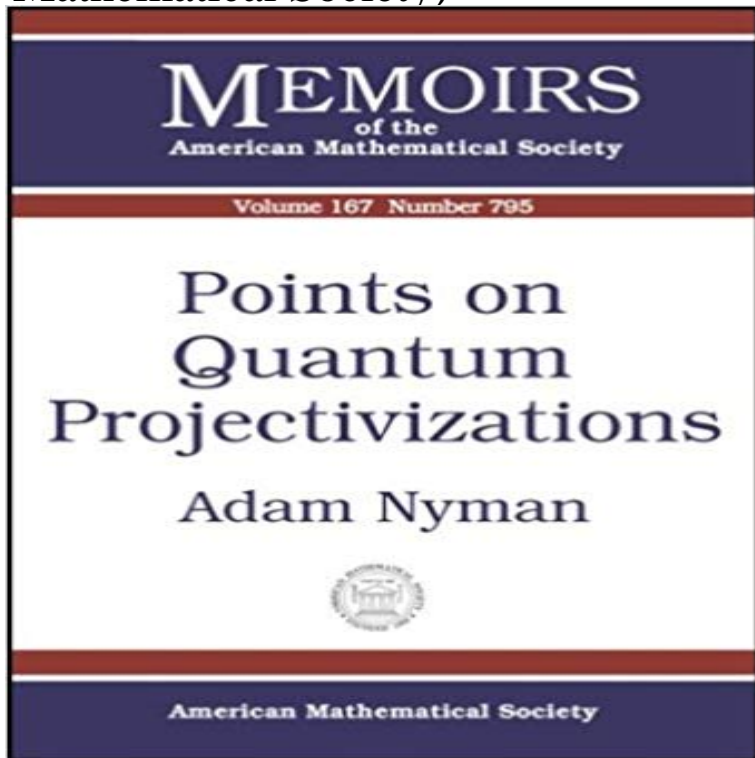


# Points on Quantum Projectivizations (Memoirs of the American Mathematical Society)



The use of geometric invariants has recently played an important role in the solution of classification problems in non-commutative ring theory. We construct geometric invariants of non-commutative projectivizations, a significant class of examples in non-commutative algebraic geometry. More precisely, if  $S$  is an affine, noetherian scheme,  $X$  is a separated, noetherian  $S$ -scheme,  $\mathcal{E}$  is a coherent  $\mathcal{O}_X$ -bimodule and  $\mathcal{I} \subset T(\mathcal{E})$  is a graded ideal then we develop a compatibility theory on adjoint squares in order to construct the functor  $\Gamma_n$  of flat families of truncated  $T(\mathcal{E})/\mathcal{I}$ -point modules of length  $n+1$ . For  $n \geq 1$  we represent  $\Gamma_n$  as a closed subscheme of  $\mathbb{P}^{X^2}(\mathcal{E}^{\otimes n})$ . The representing scheme is defined in terms of both  $\mathcal{I}_n$  and the bimodule Segre embedding, which we construct. Truncating a truncated family of point modules of length  $i+1$  by taking its first  $i$  components defines a morphism  $\Gamma_i \rightarrow \Gamma_{i-1}$  which makes the set  $\{\Gamma_n\}$  an inverse system. In order for the point modules of  $T(\mathcal{E})/\mathcal{I}$  to be parameterizable by a scheme, this system must be eventually constant. In [20], we give sufficient conditions for this system to be constant and show that these conditions are satisfied when  $\mathcal{P} = T(\mathcal{E})/\mathcal{I}$  is a quantum ruled surface. In this case, we show the point modules over  $T(\mathcal{E})/\mathcal{I}$  are parameterized by the closed points of

$$\mathbb{P}^2(\mathbb{E})$$

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