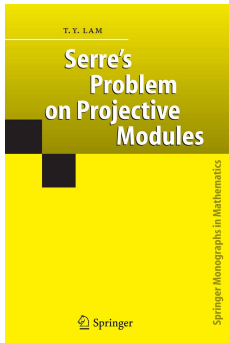


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## SERRE S PROBLEM ON PROJECTIVE MODULES EBOOKS 2019



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"Serre's Conjecture", for the most part of the second half of the 20th century, referred to the famous statement made by J. -P. Serre in 1955, to the effect that one did not know if finitely generated projective modules were free over a polynomial ring  $k[x_1, \dots, x_n]$ , where  $k$  is a field. This statement was motivated by the fact that in the affine scheme defined by  $k[x_1, \dots, x_n]$  is the algebro-geometric analogue of  $n$ -space over  $k$ . In topology, the  $n$ -space is contractible, so there are only trivial bundles over it. Would the analogue of the latter also hold for the  $n$ -space in algebraic geometry? Since algebraic vector bundles over  $\text{Spec} k[x_1, \dots, x_n]$  correspond to finitely generated projective modules over  $k[x_1, \dots, x_n]$ , the question was tantamount to whether such projective modules were free, for any base field  $k$ . It was quite clear that Serre intended his statement as an open problem in the she-theoretic framework of algebraic geometry, which was just beginning to emerge in the mid-1950s. Nowhere in his published writings had Serre speculated, one way or another, upon the possible outcome of his problem. However, almost from the start, a surmised positive answer to Serre's problem became known to the world as "Serre's Conjecture". Somewhat later, interest in this "Conjecture" was further heightened by the advent of two new (and closely related) subjects in mathematics: homological algebra, and algebraic K-theory.

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