



# **Buchsbaum Rings and Applications: An Interaction Between Algebra, Geometry and Topology**

*Jurgen Stuckrad, Wolfgang Vogel*

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Da die algebraische Geometrie wesentlich vom Fundamentalsatz der Algebra ausgeht, den man nur deshalb in der gewohnten allgemeinen Form aussprechen kann, weil man dabei die Vielfachheit der Lösungen in Betracht zieht, so muß man auch bei jedem Resultat der algebraischen Geometrie beim Zuriickschreiten die gemeinsame Quelle wiederfinden. Das wäre aber nicht mehr möglich, wenn man auf dem Wege das Werkzeug verlore, welches den Fundamentalsatz fruchtbar und bedeutungsreich macht. Francesco Severi Abh. Math. Sem. Hansischen Univ. 15 (1943), p. 100 This book describes interactions between algebraic geometry, commutative and homological algebra, algebraic topology and combinatorics. The main object of study are Buchsbaum rings. The basic underlying idea of a Buchsbaum ring is a continuation of the well-known concept of a Cohen-Macaulay ring, its necessity being created by open questions of algebraic geometry and algebraic topology. The theory of Buchsbaum rings started from a negative answer to a problem of David A. Buchsbaum. The concept of this theory was introduced in our joint paper published in 1973.

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