

**Lecomte, Florence**

**Simplicial schemes and Adams operations.** (English) [Zbl 0969.55008](#)

Bass, H. (ed.) et al., Algebraic  $K$ -theory and its applications. Proceedings of the workshop and symposium, ICTP, Trieste, Italy, September 1-19, 1997. Singapore: World Scientific. 437-449 (1999).

Working in the homotopy category of schemes over a scheme  $S = \text{Spec } A$  due to *J. F. Jardine* [Can. J. Math. 39, 733-747 (1987; [Zbl 0645.18006](#))] an algebraic  $K$ -theory spectrum is constructed by a method parallel to that of Segal for topological  $K$ -theory. Adams operations are constructed in the associated  $K$ -theory of schemes and extended to simplicial schemes; a  $\lambda$ -ring structure is also defined on the rational version of the latter.

For the entire collection see [[Zbl 0949.00018](#)].

Reviewer: [A.J.Baker \(Glasgow\)](#)

**MSC:**

[55S25](#)  $K$ -theory operations and generalized cohomology operations in algebraic topology

[19E08](#)  $K$ -theory of schemes

Cited in **1** Review  
Cited in **2** Documents

**Keywords:**

simplicial scheme;  $K$ -theory; Adams operation