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The cone of curves of algebraic varieties. (English) [Zbl 0544.14009](#)
Ann. Math. (2) 119, 603-633 (1984).

In this paper two of the four steps are proved toward the theory of minimal models of algebraic varieties according to the program of M. Reid; we have proved: (1) the cone theorem; (2) the contraction theorem, and there remains: (3) the flip conjecture; (4) the induction conjecture. - *J. Kollár* [ibid. 120, 1-5 (1984; see the following review)] proved the discreteness of the extremal rays and completed the picture of the cone. We note here that our theorems are easily generalised to the relative case starting from a projective morphism $f : X \rightarrow S$ instead of a projective variety X .

MSC:

[14E30](#) Minimal model program (Mori theory, extremal rays)
[14J30](#) 3-folds

Cited in **5** Reviews
Cited in **88** Documents

Keywords:

cone of curves; vanishing theorem; minimal models of algebraic varieties; contraction theorem

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