

Hirschowitz, André

Une conjecture pour la cohomologie des diviseurs sur les surfaces rationnelles générique.
(A conjecture for the cohomology of divisors on generic rational surfaces). (French)

Zbl 0686.14013

J. Reine Angew. Math. 397, 208-213 (1989).

Let S_r be the blowing-up of \mathbb{P}^2 at r general points. Here it is given a very precise conjecture about the cohomology of line bundles on S_r . It would be nice to have similar (or even much weaker) conjectures about other surfaces and/or to know more about the blowing-up at not too general points. The paper contains also a proof of an interesting special case of the conjecture.

Reviewer: [E.Ballico](#)

MSC:

[14F99](#) (Co)homology theory in algebraic geometry

[14M20](#) Rational and unirational varieties

[14C22](#) Picard groups

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Keywords:

rational surfaces; divisor; cohomology of line bundles; blowing-up

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