

# Strong representability of 1-cycles on rationally connected threefolds

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We show that for any smooth projective rationally connected threefold  $X$ , there exist a smooth projective variety  $M$ , which can be taken to be a surface, and a family of 1-cycles on  $X$  parameterized by  $M$ , such that the induced morphism from  $\text{Alb}(M)$  to  $J(X)$  is an isomorphism. This statement had been conjectured by Clemens in the 1980's and proved for many Fano threefolds. It implies that the degree 3 integral cohomology modulo torsion of  $X$  is of strong coniveau at least 1.