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Joseph A Ross* (josephr@usc.edu). *Cohomology Theories with Supports*.

For a cohomology theory E defined on the category of smooth schemes over a field (for example, algebraic K -theory), we prove a duality theorem relating E -cohomology to E -homology of a scheme that is either affine or projective. The techniques are geometric in nature, the main tool being a moving lemma. We will spend some time discussing a broader context for the problem before sketching the proof. (Received September 25, 2012)