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Factorization of the Abel-Jacobi maps. (English) [Zbl 07491448]
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Summary: As an application of the theory of Lawson homology and morphic cohomology, M. E. Walker [Compos. Math. 143, No. 4, 909–944 (2007; Zbl 1187.14014)] proved that the Abel-Jacobi map factors through another regular homomorphism. In this note, we give a direct proof of the theorem.

MSC:
14C25  Algebraic cycles
14C30  Transcendental methods, Hodge theory (algebro-geometric aspects)
14K30  Picard schemes, higher Jacobians
14F43  Other algebro-geometric (co)homologies (e.g., intersection, equivariant, Lawson, Deligne (co)homologies)

Keywords:
Abel-Jacobi maps; regular homomorphisms; Coniveau filtration

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