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**Abel-Radon transform and applications.** (English) Zbl 1075.44002

Laudal, Olav Arnfinn (ed.) et al., The legacy of Niels Henrik Abel. Papers from the Abel bicentennial conference, University of Oslo, Oslo, Norway, June 3–8, 2002. Berlin: Springer (ISBN 3-540-43826-2/hbk). 567-584 (2004).

This paper sums up several recent results in complex and real integral geometry inspired by Abel's addition theorem, i.e. the complex and real Abel-Radon transforms, and sketches some applications to differential and functional equations.

For the entire collection see [\[Zbl 1047.00019\]](#).

Reviewer: [Na Jisheng \(Beijing\)](#)

**MSC:**

[44A12](#) Radon transform

[32C30](#) Integration on analytic sets and spaces, currents

Cited in **6** Documents

**Keywords:**

complex and real Abel-Radon transforms; meromorphic form; Abel addition theorem; Abel functional equation; integral geometry