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Hoare, G.T.Q.; Lord, N.J.

'Intégrale, longueur, aire' the centenary of the Lebesgue integral.

Math. Gaz. 86, No. 505, 3-27 (2002).

This longish paper celebrates the centenary of the Lebesgue integral, which even now is seen as the cornerstone of measure theory. Lebesgue wrote his thesis in 1902, one of the finest ever written, a paradigm for all modern theories of integration. A thematic rather than chronological account is given of a saga riddled with surprises.

Classification: A30 I50

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