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Masha Gordina* (maria.gordina@uconn.edu), Department of Mathematics, Storrs, CT 06269. Heat kernel analysis on infinite-dimensional curved spaces.

The heat kernel analysis has long been an essential tool in diverse areas of mathematics such as analysis, geometry, and probability, as well as in physics. We will review recent developments of the subject in the case of infinite-dimensional curved spaces. (Received September 13, 2010)