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Logarithmic Sobolev inequalities on some infinite-dimensional groups

The logarithmic Sobolev inequality has been first introduced and studied by L. Gross on a Euclidean space, and since then it found many applications. In particular, many existing results concern the question on how the constant in the logarithmic Sobolev inequality depends on the geometry of the underlying space. As for many of such infinite-dimensional groups curvature bounds (or classical Bakry-Emery estimates) are not available, we use different techniques. Examples are provided.