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On modified log-Sobolev inequalities

Abstract:

In order to prove concentration estimates for (products of) measures with heavier tails than the standard Gaussian measure one can use several variants of the classical log-Sobolev inequality, e.g., Beckner-type inequalities of Latala and Oleszkiewicz or modified log-Sobolev inequalities of Gentil, Guillin, and Miclo. The main result I plan to present asserts that a probability measure on $\mathbb{R}^d$ which satisfies the former inequality satisfies also the latter. Based on joint work with Franck Barthe.