Workshop dedicated to the memory of Professor Gabriela Kohr
(6th edition)
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Sharp stability in hypercontractivity estimates and logarithmic Sobolev inequalities

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Abstract

Recent years have seen a trend in analysis to study stability questions of various geometric and functional inequalities, including isoperimetric and Sobolev inequalities. In this talk I will present results in this direction for hypercontractivity estimates of the Hopf-Lax semigroup and the related logarithmic Sobolev inequalities. This is a joint work with Alexandru Kristály.