

Poincaré inequality and Wasserstein contraction with variable curvature bounds

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Abstract: (in collaboration with P. Cattiaux and M. Fathi) We present in this talk an attempt to do a self improvement of Bakry-Emery's criterion for Poincaré inequality, as well as Wasserstein contraction for reversible diffusions, in presence of variable curvature bounds in the Γ_2 sense.