

Intertwining relations for one dimensional diffusion semigroups

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Abstract. In this talk, I will present new intertwining relations for diffusion semigroups mainly in the 1-dimensional case. Various applications of these results are investigated, among them the famous variational formula of the spectral gap derived by Chen and Wang together with a new criterion ensuring that the logarithmic Sobolev inequality holds. This is joint work with Aldéric Joulin.