## DAMIR KINZEBULATOV, Université Laval

Heat kernel bounds and stochastic equations with singular (form-bounded) drift

I will talk about recent results on sharp two-sided heat kernel bounds for divergence-form parabolic equations with drift having critical singularities, and related results on stochastic differential and stochastic transport equations. The talk is based on joint papers with K.R.Madou, Yu.A.Semenov and R.Song.