

Estimates of the derivatives for a class of parabolic degenerate operators with unbounded coefficients in \mathbb{R}^N

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Abstract. We consider a class of perturbations of the degenerate Ornstein-Uhlenbeck operator in \mathbb{R}^N . Using a revised version of Bernstein's method we provide several uniform estimates for the semigroup $\{T(t)\}_{t \geq 0}$ associated with the realization of the operator \mathcal{A} in the space of all the bounded and continuous functions in \mathbb{R}^N .

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