

**ESTIMATES OF GREEN FUNCTIONS AND  
HARMONIC MEASURES FOR ELLIPTIC OPERATORS  
WITH SINGULAR DRIFT TERMS**

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*Abstract*

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In this paper, we prove the existence and uniqueness of the continuous Green function  $G$  for the elliptic operator  $L = \operatorname{div}(A(x)\nabla_x) + B(x) \cdot \nabla_x$  with singular drift term  $B$  on a  $C^{1,1}$  bounded domain  $D$  in  $\mathbb{R}^n$ ,  $n \geq 3$ , and its comparability to the Green function  $G_0$  of  $L_0 = \operatorname{div}(A(x)\nabla_x)$ . Basing on this result we establish the equivalence of the  $L$ -harmonic measure and the surface measure on  $\partial D$ . These results extend some first ones proved for elliptic operators with less singular drift terms.

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2000 *Mathematics Subject Classification*. 35J15, 31B25, 31B05, 35-99.

*Key words*. Elliptic operator, drift term, Green function, Poisson kernel, harmonic measure, Kato class.