

ERRATUM TO “A NOTE ON REGULAR  
DIRICHLET SUBSPACES”

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There is a flaw in the proof of Theorem 2 in [1]. Theorem 1 should be corrected to the following weaker assertion for which the present proof works.

**Theorem.** *Let  $\tilde{\mathcal{F}}$  be a subspace of  $\mathcal{F}$  such that  $(\mathcal{E}, \tilde{\mathcal{F}})$  is a regular Dirichlet space on  $L^2(\bar{I}, \rho dx)$ . Assume that a scale function  $s$  of the diffusion process on  $\bar{I}$  associated with  $(\mathcal{E}, \tilde{\mathcal{F}})$  admits an absolutely continuous inverse  $t$ . Then  $\tilde{\mathcal{F}} = \mathcal{F}$ .*

If the assumption on  $t$  in the above statement is not satisfied, then  $\tilde{\mathcal{F}}$  could be a proper subset of  $\mathcal{F}$ . Accordingly, Corollary 1 and an example following it are incorrect.

REFERENCES

1. M. Fukushima and J. Ying, *A note on regular Dirichlet subspaces*, Proc. Amer. Math. Soc. **131** (2003), 1607–1610.

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