

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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