

A FAMILY OF SYMMETRIC STABLE-LIKE PROCESSES AND ITS
GLOBAL PATH PROPERTIES

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Abstract: We extend the idea of the symmetric stable-like processes so that it includes the Brownian motion as well as the symmetric α -stable processes. We exhibit some sufficient conditions for their recurrence and conservativeness relying on the notion of Dirichlet forms. A criterion for conservativeness (Lemma 3.2) is also shown in terms of general Dirichlet forms and the associated generators.

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