

CONVERGENCE OF 2-DIMENSIONAL h -PROCESSES

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Abstract: Suppose that $D \subset C$ is a simply connected domain and p is a minimal Martin boundary point. Assume that there exists a curve in D which converges to p in the Martin topology and to $z \in C$ in the Euclidean topology. Then the same holds for almost all h -paths, where h is a minimal harmonic function represented by p . In such a case almost all h -paths have finite lifetime. This permits to define a Brownian excursion law in D starting from such a point p .

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