

**A WARNING ABOUT AN INDEPENDENCE PROPERTY RELATED TO
RANDOM BROWNIAN SCALING**

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Abstract: In this note, which develops a part of our paper [2], we consider independence properties between Brownian motion, after Brownian scaling on a random interval (a, b) , and the length $(b - a)$ of the interval. We indicate three examples for which the Brownian scaled process is independent of the corresponding length. On the other hand, we discuss a case where this independence property does not hold and investigate further results for that example.

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