

[Novikov, A. A.](#)

**The first exit time of the autoregressive process beyond a level and an application to the disorder problem.** (Russian) [Zbl 0702.60048](#)

[Teor. Veroyatn. Primen. 35, No. 2, 282-292 \(1990\).](#)

The exit time  $\tau_A$  of level A of an autoregressive first order stochastic process Y is investigated both for discrete and continuous time. A relation between  $E \tau_A$  and the expectation of an integral expression which includes  $Y_{\tau_A}$  is established. Applications to the disorder problem are given.

Reviewer: [F.Liese](#)

**MSC:**

[60G40](#) Stopping times; optimal stopping problems; gambling theory

Cited in **2** Reviews  
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autoregressive process; exit time; disorder problem