

**Anděl, Jiří; Dupač, Václav**

**An extension of the Borel lemma.** (English) Zbl 0678.60030  
Commentat. Math. Univ. Carol. 30, No. 2, 403-404 (1989).

Let  $A_n$ ,  $n \geq 1$ , be independent events, and let  $B_n$ ,  $n \geq 1$ , be events such that  $\lim P(B_n|A_n) = 1$ . The purpose of this paper is to show that

$$P(\limsup A_n B_n) = 1 \text{ whenever } \sum_{n=1}^{\infty} P(A_n B_n) = \infty.$$

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**MSC:**

[60F15](#) Strong limit theorems  
[60F20](#) Zero-one laws

Cited in **2** Reviews  
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**Keywords:**

[Borel-Cantelli lemma](#)