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Scaling Properties of First Return Times of Extreme Events

M. Ausloos (1), K. Ivanova (2)

(1) University of Liège, B-4000 Liège, Belgium, (2) The Pennsylvania State University, University Park, PA 16802, USA

article

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Rainfall statistics is investigated from the point of view of occurrence of extreme events. An important problem in extreme value statistics is the re-occurrence of events exceeding certain threshold. Thus it is essential to study the statistical properties of the time periods between occurrences of such rare events. We study the scaling properties of first return times of extreme rainfall events.