

TENTATIVE ABSTRACT

Title: On generalized order statistics and Pfeifer records.

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Abstract: To explore the interrelationship between Pfeifer records (P-records) and generalized order statistics, we begin by considering a Markov process which we call a uniform generalized order statistic process. A standard transformation leads to a generalized order statistic process related to non-uniform generalized order statistics. Interpretation of P-records and generalized order statistics in terms of this process facilitates the study of the asymptotic distribution of P-records and sheds light on the asymptotic behavior of extreme generalized order statistics.

(Joint work with Jose A. Villasenor, Colegio de Postgraduados, Mexico).