

NON-GAUSSIAN LOCAL LIMIT PROPERTIES FOR PATTERN STATISTICS IN RATIONAL STOCHASTIC MODELS

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I would like to present some local limit properties for the number of occurrences of a given symbol in a word of length n generated at random in a regular language. The stochastic model for the random generation is defined by a rational formal series with non-negative real coefficients, recognized by a weighted finite state automaton with two primitive components having equal dominant eigenvalue. According with the value of certain parameters, related to mean value and variance of these stats.