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Nota di contenuto	Title page; Contents; Preface; Biography of Uno Kaljulaid; Bibliography of Uno Kaljulaid; Representations of semigroups and algebras; [K69a] On the cohomological dimension of some quasiprojective varieties; [K77a] Triangular products of representations of semigroups and associative algebras; [K79a] Triangular products and stability of representations. Candidate dissertation; [K79b] Triangular products and stability of representations. (Author review of Candidate thesis in Physico-Mathematical Sciences); [K87a] Some remarks on Shevrin's problem; [K90] Transferable elements in group rings [K00] Omega-rings and their flat representationsAutomata theory; Preamble; Automata and their decomposition; [K97] On two algebraic

constructions for automata; [K98c] Revisiting wreath products, with applications to representations and invariants; Majorization; Generalized majorization; Van der Waerden's conjecture and hyperbolicity; On generalized majorization; Combinatorics; [K88a] On Stirling and Lah numbers; Letter (or draft of letter) c. 1991 from Uno Kaljulaid to Torbjorn Tambour; On Fibonacci numbers of graphs; History of Mathematics; Th. Molien, an innovator of algebra [K87e] On the results of Molien about invariants of finite groups and their renaissance in contemporary mathematics Theodor Molien, about his life and mathematical work as seen a century later. (A biographical sketch and a glimpse of his work); Notes on five 19th century Tartu mathematicians (Backlund, Kneser, Lindstedt, Molien, Weihrauch); Popularization of Mathematics; [K68a] and [K69b] On the geometric methods of Diophantine Analysis; [K68b] Lenin prize for work in Diophantine geometry; [K69c] The history of solving equations; [K70] Additional remarks on groups [K73a] Polynomials and formal series [K75a] On Galois theory; [K75b] Theory of automata; [K93c] Mordell's problem; [K96] On two discrete models in connection with structures of mathematics and language; Index of Names; Subject Index

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Sommario/riassunto

Presents the English translation of Kaljulaid's 1979 Tartu/Minsk Candidate thesis. The thesis was devoted to representation theory in the spirit of his thesis advisor BI Plotkin. Through representation theory, Kaljulaid became also interested in automata theory, which at a later phase became his main area of interest.

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