



28TH WORKSHOP '3IN1' 2019
DOŚŁOŃCE, POLAND
NOVEMBER 21-23, 2019

CELLULAR AUTOMATA SOME CLASSIFICATION PROBLEMS

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Cellular automata are models of discrete processes studied in physics, chemistry, biology, economics, and perhaps above all, they are models of broadly understood computational processes. The idea belongs to John von Neumann - the 1940s. In the presentation we give a very short introduction to the subject. Then we will outline the problems of classification of cellular automata, difficult problems because they are associated with the undecidability of some properties of these automata. Finally, we will present one of our results related to these problems.