THE INVESTIGATION OF TOPOLOGICAL AND GENERATIVE DEVICES APPLIED TO SONOROUS FORMS

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A study has been made of the behaviour of the sound forms under the action of the group of topological transformations. It has been proved that a great number of procedures currently used in musical creation — such as harmony, counterpoint a.o. — can be viewed as particular cases of topological transformations of the sound form.

In cooperation with Professor Dr. Wilbur R. Le Page of the Syracuse University (Syracuse, New York), several programmes of topological transformations of sound forms have been carried out in APL language on an IBM 360 computer, at the Syracuse University.