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Changeable Sets and their Application to Investigation of Abstract Kinematics

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The present talk is devoted to the development of mathematical tools for investigation of abstract kinematics, that is mathematical objects, in which changeable sets [1] are equipped by different geometrical or topological structures, namely by metric, topological, linear and other spaces. Investigations in this direction may be interesting for astrophysics, because there exist the hypothesis, that in the large scale of Universe, physical laws (in particular, the laws of kinematics) may be different from the laws, acting in the neighborhood of our solar System.

[1] Ya.I. Grushka, *Abstract concept of changeable set*. Preprint arXiv:1207.3751v1, (2012), (<http://arxiv.org/abs/1207.3751v1>).