

## Evolutional Extensions and Analogues of the Operation of Union for Kinematic Sets

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Theory of kinematic changeable sets [1] is based on the theory of changeable sets [2]. This theory may be used for simulation of the evolution of physical systems in the framework of different laws of kinematics.

In the present talk we introduce analogs of set-theoretic inclusion relation and set-theoretic operation of disjoint union for kinematic changeable sets and investigate their properties. The obtained results may be used for formulation of mathematical foundations of special relativity in the framework of theory of kinematic changeable sets.

- [1] Grushka Ya.I. *Abstract Coordinate Transforms in Kinematic Changeable Sets and their Properties*. Preprint: arXiv:1504.02685v2, (2015).
- [2] Ya.I. Grushka, *Abstract concept of changeable set*. Preprint: arXiv:1207.3751v1, (2012).