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Graph complexes and their interrelations

Thursday 21 September 2023 09:00 (55 minutes)

There are many different graph complexes which are often used in applications, e.g. in the deformation quantization theories, in the algebraic topology, in the theory of moduli spaces of algebraic curves, in the Lie theory, etc. Examples include the Kontsevich graph complex, its directed version, the complex of oriented graphs, the one of sourced graphs, the one of sourced-and-targeted graphs, several variants based on the notion of ribbon graph.

We shall attempt to give an overview of the current status of our knowledge about these complexes, about their (sometimes surprising) inter-relations and their applications. We shall not assume prior knowledge of the theories of graph complexes.

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