Kolloquium Mathematische Physik

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Cluster Algebras: from Combinatorics to Statistical Physics

This is an introduction to the concept of cluster algebra, a dynamical system describing the evolution of variables at the vertices of an infinite regular tree, by "mutation" along edges. After giving definitions and summarizing the main properties of cluster algebras, we'll present the important example of the T-system, which bears connections to combinatorics (Coxeter-Conway frieze patterns), discrete integrable systems and two-dimensional statistical models.

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