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Sergey Fomin* (fomin@umich.edu), Department of Mathematics, University of Michigan, 530 Church Street, Ann Arbor, MI 48109-1043. *Cluster algebras*.

Cluster algebras arise in various algebraic and geometric contexts, with combinatorics providing a unifying framework. My presentation of the basic definitions and results of this emerging theory will be guided by two sets of examples: coordinate rings of classical algebraic varieties, and cluster algebras associated with bordered oriented surfaces with marked points. (Received January 02, 2007)