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**Sergey Fomin\*** (fomin@umich.edu), 530 Church Street, Ann Arbor, MI 48109-1043, and  
**Michael Shapiro** and **Dylan Thurston**. *Cluster complexes of bordered surfaces*.

To an oriented surface with boundary and finitely many marked points one can associate a pure simplicial complex, the cluster complex of the corresponding cluster algebra. We provide an explicit combinatorial description of this complex, and determine its homotopy type and its growth rate. (Received February 23, 2007)