ANNA FELIKSON, Independent University of Moscow, B. Vlassievskii 11, 119002, Moscow, Russia *Combinatorics of Coxeter polytopes*

We discuss combinatorial properties of Coxeter polytopes in terms of their missing faces. This leads to a set of simplicial complexes which is useful to differ combinatorial types of simple polytopes. We describe properties of this set and state some conjectures.