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Michael S. Chmutov* (mchmutov@gmail.com), **Pavlo Pylyavskyy** and **Joel Lewis**. *Affine Robinson-Schensted correspondence in Kazhdan-Lusztig theory.*

Using affine Robinson-Schensted correspondence, we describe the structure of undirected edges in the Kazhdan-Lusztig cells in affine type A . Equivalently, we give a comprehensive description of the Knuth equivalence classes of affine permutations. In addition, we lift several well-known properties of the Robinson-Schensted correspondence to the affine setting. (Received July 19, 2016)