1120-05-271   **Michael S Chmutov*** (`mchmutov@umn.edu`), **Pavlo Pylyavskyy** and **Elena Yudovina**. *Matrix ball construction for affine Robinson-Schensted correspondence.*

In his study of Kazhdan-Lusztig cells in affine type A, Shi has introduced an affine analog of Robinson-Schensted correspondence. We generalize the Matrix-Ball Construction of Viennot and Fulton to give a more combinatorial realization of Shi's algorithm. As a byproduct, we also give a way to realize the affine correspondence via the usual Robinson-Schensted bumping algorithm. Next, inspired by Honeywill, we extend the algorithm to a bijection between the extended affine symmetric group and collection of triples (P, Q, ρ) where P and Q are tabloids and ρ is a dominant weight. (Received February 23, 2016)