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Michelle B. Snider* (msnider@math.cornell.edu). *Affine Patches on Positroid Varieties and Affine Pipe Dreams*. Preliminary report.

I will discuss affine patches in positroid varieties on the Grassmannian, indexed by juggling patterns. My main result corresponds these affine patches to Kazhdan-Lusztig varieties in the affine Grassmannian with a proof by construction. With a new term order, these spaces are related to subword complexes and Stanley-Reisner ideals. There is also an extension of pipe dreams in the affine case. (Received August 06, 2010)