1134-05-153 **Jake Levinson*** (jlev@uw.edu) and **Maria Gillespie**. *Axioms for shifted tableau crystals.* Preliminary report.

We give a combinatorially-local characterization of the crystal-like structure on shifted semistandard tableaux. This crystal structure is formed by two pairs of raising and lowering operators, each of which are coplactic for shifted jeu de taquin. Our description is in terms of local axioms satisfied by these operators. The axioms turn out to resemble those discovered by Stembridge for regular $\mathfrak{gl}_n$ crystals. This is joint work with Maria Gillespie. (Received September 01, 2017)