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**Alex Fink\*** ([a.fink@qmul.ac.uk](mailto:a.fink@qmul.ac.uk)) and **Felipe Rincón**. *Stiefel tropical linear spaces*.

The Stiefel map is the obvious rational map from a space of matrices to the Grassmannian given by taking the span of the rows. Unlike the classical situation, it is not surjective tropically. The linear spaces in its image are the *Stiefel tropical linear spaces*, and are in various senses the only linear spaces one can easily get at by imitating classical techniques.

We discuss the combinatorics of Stiefel tropical linear spaces as polyhedral complexes, and a useful collection of local coordinate systems which together cover the image of the Stiefel map, allowing investigations into its global structure. (Received September 06, 2013)