

Alex Fink:

Tropical Bott-Samelson varieties?

With Luca Moci, I introduced so-called "matroids over rings" as an attempt to generalise the theory of "arithmetic matroids" and give them an axiom system more likely to yield to structural analysis. Indeed, when the base ring R is a DVR, the parameter space of matroids over R proved to be a directed union of spaces which can reasonably be called (a piece of) tropical Bott-Samelson varieties for various words, most of them non-reduced. I will explain.