ANDREW BERGET, Mathematical Sciences Building, One Shields Avenue, University of California, Davis, CA 95616, USA *On the rank partition of a matroid*

The rank partition measures how close a matroid is to being a union of bases. I will discuss how the rank partition is nicely reflected in decompositions of matroid base polytopes. There is a proof of this that uses representation theory and degenerations of torus orbits in Grassmannians. I will talk about what this proof suggests about representation generated by decomposable tensors.