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Federico Ardila, Alex Fink and **Felipe Rincon*** (feliper84@gmail.com),
feliper84@gmail.com. *Valuations for matroid polytope subdivisions.*

I will talk about valuations for matroid polytope subdivisions, i.e., functions that are “well behaved” under subdivisions of a matroid polytope into smaller matroid polytopes. I will show that this is a very interesting class of functions that contains many well-known matroid invariants, including the functions that encode the activities on the bases, the ranks of the subsets, or even the ranks of all maximal flags in a matroid. (Received March 02, 2009)