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Tassos Vogiannou* (vogiannou@math.umass.edu), Dept. of Math & Stats, LGRT, University of Massachusetts, 710 N. Pleasant Street, Amherst, MA 01002. *Spherical tropicalization*.

After giving a brief review on spherical varieties, we introduce tropicalization and tropical compactifications in spherical homogeneous spaces in the constant coefficient case. This is a natural extension of tropicalization in tori. We provide some examples and discuss possible applications. (Received February 05, 2016)