## Clans and homogeneous cones

## $\underline{\mathbf{Michael\ Orlitzky}^1}$

**Abstract:** Vinberg showed that there is a one-to-one correspondence between homogeneous cones and clans with a unit element. We introduce the concept of a clan and walk through the construction. Afterwards we prove some results about their automorphisms.

 $<sup>\</sup>begin{array}{cc} ^{1} \ \ \text{Developer of Gentoo Linux} \\ michael@orlitzky.com \end{array}$