

Unimodular covers of rational cones

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Let P be a d -dimensional lattice polytope. In the paper *Unimodular Covers of Multiples of Polytopes* (appeared in Documenta Mathematica 7 (2000), 463-480) Bruns and Gubeladze showed that there exists a natural number c_d , only depending on d , such that the multiples cP have an unimodular cover for every natural number $c \geq c_d$. They also provided an exponential upper bound for c_d , which was done by giving an analogous result for unimodular covers of rational cones. We will discuss a new covering procedure for rational cones. It provides us with a better and subexponential result concerning the unimodular covers of rational cones and finally results into a subexponential upper bound for c_d .