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Algebraic K-theory of hyperbolic reflection groups. Preliminary report.

Given a geodesic polyhedron P in \mathbb{H}^3 with finitely many faces, and all angles subintegral multiples of π , one can consider the associated subgroup Γ_P of $Isom(\mathbb{H}^3)$ generated by reflections in the sides of P . For such groups Γ_P , we will obtain formulas for the lower algebraic K-theory of the integral group ring $\mathbb{Z}\Gamma_P$, in terms of the combinatorics of the polyhedron P . This is work in progress with B. Magurn and I. Ortiz. (Received February 12, 2008)