

PAVAGE DE VORONOÏ ASSOCIÉ AU GROUPE DE CREMONA

ANNE LONJOU

Abstract: The action of the Cremona group of rank 2 on an infinite dimensional hyperbolic space is the main recent tool to study the Cremona group. Following the analogy with the action of $\mathrm{PSL}(2, \mathbb{Z})$ on the Poincaré half-plane, we exhibit a fundamental domain for this action by considering a Voronoi tessellation. Then we study adjacent cells to a given cell, as well as cells that share common points in the boundary at infinity.

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Key words: Cremona group, hyperbolic space, Voronoi tessellation, fundamental domain.