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Discrete subgroups with limit set a discontinuum

Theorem 7.7. (*N. Gusevskii* [90].) *Suppose that the limit set of $\Gamma \subset \mathbf{Mob}(\mathbb{S}^n)$ is totally disconnected. Then Γ admits a fundamental domain Φ of the same shape as in Example 7, only the fundamental domains Φ_i for Γ_i ’s are not required to be topologically standard.*

Let $\Gamma <_{\mathbf{d}} \mathbf{Isom}(\mathbb{R}\mathbf{H}^n)$ have a totally disconnected limit set $\Lambda(\Gamma)$. Then Γ is geometrically finite.

Convex cocompact $F_g \cong \Gamma <_{\mathbf{d}} \mathbf{Isom}(\mathbb{R}\mathbf{H}^n)$ such that $\Lambda(\Gamma)$ is a wild discontinuum

[2]

Current note has 0 direct children and 0 total descendants.

- stem
 - O+ R1 n
 - Discrete subgroups of $O^+(1, n)$ ↔ hyperbolic n -manifolds/orbifolds
 - Discrete subgroups with limit set a discontinuum

And it has 11 siblings.

- stem
 - O+ R1 n
 - Discrete subgroups of $O^+(1, n)$ ↔ hyperbolic n -manifolds/orbifolds
 - Convex cocompact discrete subgroups
 - Combination of discrete subgroups of $O^+(1, n)(\mathbb{R})$
 - Exponential sum of a discrete subgroup of $\mathbf{Isom}(\mathbb{R}\mathbf{H}^n)$
 - $\text{RepDF}(F_g, O^+(1, n)(\mathbb{R}))$
 - Measure homology on a hyperbolic manifold
 - Discrete subgroups with limit set a discontinuum
 - Limit sets of discrete subgroups
 - Discrete subgroups with limit set a $k - 1$ -sphere
 - Counting orbits of discrete subgroups of $O^+(1, n)(\mathbb{R})$ in $\mathbb{R}\mathbf{H}^n$
 - Rigidity of $\mathbb{R}$ -hyperbolic manifolds
 - $\text{RepDF}(\pi_1(T_g^2, \bullet), O^+(1, n)(\mathbb{R}))$

1. [@2007kapovich_kleinian_p.513](#) ↔
2. [Nikolay Gusevskij, Helen Klimenko, 1995 - Fox-artin arc and constructing kleinian groups acting on s3 with limit set a wild cantor set](#) ↔