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Arithmetic Fuchsian groups



Arithmetic hyperbolic 2-orbifolds

Let Γ be an arithmetic Fuchsian group. Then Γ is not cocompact $\iff$ it is commensurable with a finite index subgroup of $PSL(2, \mathbb{Z})$ and Γ is cocompact $\iff$ it is conjugate to the image of an order $\mathcal{O}$.

Current note has 0 direct children and 0 total descendants.

- stem
 - Objects stemming from $PSL(2)(\mathbb{R})$
 - Fuchsian groups $\Gamma <_d PSL(2)(\mathbb{R}) \leftrightarrow$ oriented hyperbolic 2-manifold/orbifolds $\rightarrow$ Riemann surfaces with branching signature
 - Artihmetic Fuchsian groups and Artihmetic hyperbolic 2-orbifolds

And it has 17 siblings.

- stem
 - Objects stemming from $PSL(2)(\mathbb{R})$
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 - Artihmetic Fuchsian groups and Artihmetic hyperbolic 2-orbifolds
 - Cocompact Fuchsian groups
 - Central simple algebra
 - Elementary Fuchsian groups
 - Finitely generated Fuchsian groups $\leftrightarrow$ geometrically finite Fuchsian groups
 - Fuchsian groups of finite coarea
 - Geodesic flow of Fuchsian groups and hyperbolic surfaces
 - Decomposition of hyperbolic surfaces
 - Infinitely generated Fuchsian groups
 - Limit set of Fuchsian groups
 - Marked hyperbolic surfaces
 - subst.R PSL 2 discrete subg.over $\mathbb{Q}$ -bar
 - Fuchsian Schottky groups
 - Spectrum of hyperbolic surfaces
 - Torsion-free Fuchsian groups
 - Cocompact torsion-free Fuchsian groups
 - Fuchsian triangle groups