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**smooth *projective*  $\mathbb{C}$ -curves of genus  $\geq 2$**

$\leftrightarrow$

**$\mathbb{C}$ -*fields* of transendence degree 1, not isomorphic to  $\mathbb{C}(t)$  or ...**

$\leftrightarrow$

***compact* Riemann surfaces of genus  $\geq 2$**

$\leftrightarrow$

***compact* Riemann surfaces whose universal covering space is biholomorphic to  $H^2_{\mathbb{U}}$**

$\leftrightarrow$

***cocompact* torsion-free Fuchsian groups**

$\leftrightarrow$

**$\pi_1(T^2_g, *) \hookrightarrow PSL(2)(\mathbb{R})$  with discrete image for  $g \geq 2$**

$\leftrightarrow$

***compact*, oriented hyperbolic 2-manifolds**

$\leftrightarrow$

**convex *compact* polygons in  $\mathbb{R}H^2$  equipped with a proper  $\text{Isom}(\mathbb{R}H^2)_{\circ}$ -side-pairing**

Current note has 0 direct children and 0 total descendants.

- [stem](#)
  - [Objects stemming from  \$\mathbb{R}\$ -spaces of dimension 2](#)
    - [Riemann surfaces](#)
  - [Objects stemming from  \$PSL\(2\)\(\mathbb{R}\)\$](#) 
    - [Fuchsian groups  \$\Gamma <\_{\mathfrak{d}} PSL\(2\)\(\mathbb{R}\) \leftrightarrow\$  oriented hyperbolic 2-manifold/orbifolds  \$\rightarrow\$  Riemann surfaces with branching signature](#)
      - [Cocompact torsion-free Fuchsian groups](#)

And it has 17 siblings.

- [stem](#)
  - [Objects stemming from  \$PSL\(2\)\(\mathbb{R}\)\$](#) 
    - [Fuchsian groups  \$\Gamma <\_{\mathfrak{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](#)
      - [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](#)