

Info

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Seifert–Weber dodecahedral 3-manifold

#wiki/Man/R/3

[1]

```
import snappy
M = snappy.Manifold("ododecl01_00007(1,0)")
print("Is orientable: ",M.is_orientable())
print("Is hyperbolic:", M.solution_type())
print("Volume:", M.volume())
print("Fundamental group presentation:")
G =
M.fundamental_group(minimize_number_of_generators=True,simplify_presentation=True)
print(G)
for i in 'abcd':
    print(i,G.SL2C(i))
print(M.dirichlet_domain())
# M.dirichlet_domain().view()
print("Homology: ",M.homology())
# print(M.identify())
# print(M.length_spectrum(0.75, include_words=True))
```

Current note has 0 direct children and 0 total descendants.

- [squishy](#)
 - [Seifert–Weber dodecahedral 3-manifold](#)

And it has 30 siblings.

- [squishy](#)
 - $SL(2)(\mathbb{R}) \curvearrowright \mathbb{R}^2$
 - $SL(2)(\mathbb{R}) \curvearrowright H^2_{\mathbb{U}}$
 - $\text{Mat}_{\mathbb{C}}(2)$
 - $A_{r,-\langle z \mapsto \lambda z \rangle} \backslash \mathbb{R}H^2_{\mathbb{U}}$
 - $\mathbb{C} \setminus \{0\}, -\langle z \mapsto z+1 \rangle \backslash \mathbb{R}H^2_{\mathbb{U}}$
 - $\mathbb{C} \setminus \{0,1\}, -PSL(2)(\mathbb{Z})[2] \backslash \mathbb{R}H^2_{\mathbb{U}}$
 - $\mathbb{R} \ltimes_{\theta} \mathbb{C}^2$
 - $\boldsymbol{CI}(\mathbb{R}^n, \langle \cdot, \cdot \rangle_{0,n})$
 - $\mathbb{C}^n$
 - $U(\mathbb{C} \setminus \{0\})$
 - $PSL(2)(\mathbb{C}) \curvearrowright \mathbb{C}P^1 \cong_{\text{Man}} S^2$
 - $\mathbb{C}P^n$
 - [Farey_graph_complex and tree](#)
 - GL
 - [Heisenberg.group](#)
 - [Incomplete hyperbolic polygon mod side-pairing](#)
 - $\mathbb{R}H^2, \mathbb{R}H^2_{\mathbb{U}}, D^2$
 - $\mathbb{R}H^n$
 - [D_n_lattice](#)
 - [Matrices](#)
 - $\text{Mat}_{\mathbb{R}}(2)$
 - [Mobius endomorphisms](#)
 - [Elementary_group with finite and infinite sided Dirichlet polyhedra](#)
 - [Polynomials](#)
 - $T^*S^1 \not\cong_{\text{Sym}} (\mathbb{R}^2 \setminus \{0\}, dx \wedge dy)$
 - $Z\left(\sum_{1 \leq j \leq n} z_j^2 - 1\right)(\mathbb{C}) \cong_{\text{Sym}} T^*S^{n-1}$
 - SL
 - SO
 - [Seifert–Weber dodecahedral 3-manifold](#)
 - $U(n, \mathbb{C})$

1. [A sketchy surgery description of the Seifert-Weber Dodecahedral space](#) | [Sketches of Topology](#) ↩