

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on July 12, 2026 7:46:04 AM, was last modified on August 30, 2026 3:55:23 PM, and was exported on September 7, 2026 3:04:04 PM.

$$T_g^2 \times [0, 1]$$

The "*thick genus g surface*" $T_g^2 \times [0, 1]$ is a compact-3 manifold with two boundary components both diffeomorphic to T_g^2 and fundamental group

$$\pi_1(T_g^2 \times [0, 1], \bullet) \cong \pi_1(T_g^2, \bullet)$$

Current note has 0 direct children and 0 total descendants.

- [stretchy](#)
 - $T_g^2 \times [0, 1]$

And it has 62 siblings.

- [stretchy](#)
 - [Trefoil 3₁ knot](#)
 - [The only compact connected Lie group that can act faithfully on a torus is itself](#)
 - [Hecke algebras](#)
 - $\overline{B^n}$
 - $\mathrm{BS}(1, 2)$
 - $(\mathbb{C}, +, \times)$
 - $D^* := D \setminus \{0\}$
 - [Cantor set](#)
 - [Configuration space of \$N\$ rigid points in \$\mathbb{R}^3\$](#)
 - [Free groups](#)
 - $GL(2)(\mathbb{Z}) \curvearrowright T^2$
 - H_2^3
 - $[a, b]$
 - [Figure 8 knot](#)
 - [Lamplighter group on \$\mathbb{Z}_2\$](#)
 - $\beta\mathbb{N}$
 - $\#_2\mathbb{R}P^2$
 - $\prod_{i \in \mathbb{N}} \{1, \dots, n_i\}$
 - $\mathbb{R}P^n$
 - $(\mathbb{Q}, +, \times, <)$
 - $\mathbb{Q}_{\hat{p}}$
 - $\overline{\mathbb{Q}}$
 - $\mathbb{Q}_{\mathrm{constr}}$
 - $\mathbb{Q}(\xi_n)$
 - $\mathcal{O}_{\overline{\mathbb{Q}}}$
 - $(\mathbb{R}, +, \times, <, \sup)$
 - [Homeomorphism of \$\mathbb{R}^2\$ that sends \$\mathbb{N}\$ to a countable closed discrete subset](#)
 - $\mathbb{R}^2 \times S^1$
 - $\mathbb{R}^n$
 - $\mathbb{R} \times S^1$
 - $\mathbb{R} \times S^2$
 - S^1
 - $S^1 \wedge S^1$
 - $S^1 \times S^n$
 - S^2 [and](#) $\mathbb{C}P^1$
 - [Mapping torus of the antipodal map of \$S^2\$](#)
 - S^3
 - S^n
 - [I-bundle](#)
 - [Symmetric group](#)
 - $\mathbb{I}$
 - T^2
 - T_g^2
 - $T_{0,0,3}^2$
 - $\mathbb{R}^2 \setminus \{0\}$
 - [Three \$T_{1,0,1}^2\$ -glued at their boundaries](#)
 - $T_{1,1,0}^2$
 - T_2^2
 - $T_g^2 \times [0, 1]$
 - $\#_{\mathbb{N}}T^2$
 - [Thompson's group](#)
 - T^n
 - [3-valent tree](#)
 - [4-valent tree](#)
 - $[0, 1]^{\mathbb{N}}$ [with product topology](#)
 - [Whitehead manifolds](#)
 - $\mathbb{Z}$
 - $\mathbb{Z}[\sqrt{m}]$
 - $\mathbb{Z}[X]$

- $\mathbb{Z}^{\mathbb{N}}$
- $\mathbb{Z}[i]$
- $\mathbb{Z}[i\sqrt{5}]$