Info

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I-bundle

Definition. **2)** Let S_i denote a surface of genus i with one (open) disk removed. We consider the I-bundle $J_i = S_i \times [0,1]$ and let $\partial_r J_i = \partial S_i \times [0,1]$. Let $\{A_i\}_{i=1}^n$ be a collection of disjoint, parallel, consecutively ordered longitudinal annuli in the boundary of a solid torus V. Then M_n is formed from V and $\{J_1, \dots, J_n\}$ by attaching $\partial_r J_i$ to A_i. The manifolds M_n are examples of books of I-bundles, see Culler-Shalen [27].

Consider

$$T^2_{g,0,1} \times [0,1]$$

whose boundary $\partial T^2_{g,0,1} \times [0,1]$ is a cylinder. Let $\{A_1, \dots, A_n\}$ be a collection of disjoint annuli in the boundary of $\overline{D^2} \times S^1$. Then

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Current note has 0 direct children and 0 total descendants.

- stretchy
  - I-bundle

And it has 62 siblings.

- stretchy
  - Trefoil 3_1 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^3_2
  - $[a,b]$
  - Figure 8 knot
  - Lamplighter group on $\mathbb{Z}_2$
  - $\beta\mathbb{N}$
  - $\#_2\mathbb{R}P^2$
  - $\prod_{i\in\mathbb{N}}\{1,\dots,n_i\}$
  - $\mathbb{R}P^n$
  - $(\mathbb{Q}, +, \times, <)$
  - $\mathbb{Q}_{\hat{p}}$
  - $\overline{\mathbb{Q}}$
  - $\mathbb{Q}_{\text{constr}}$
  - $\mathbb{Q}(\xi_n)$
  - $\mathcal{O}_{\overline{\mathbb{Q}}}$
  - $(\mathbb{R}, +, \times, <, \sup)$
  - 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
  - $\mathbb{T}$
  - T^2
  - T^2_g
  - $T^2_{0,0,3}$
  - $\mathbb{R}^2 \setminus \{0\}$
  - Three $T^2_{1,0,1}$ glued at their boundaries
  - $T^2_{1,1,0}$
  - T^2_2
  - $T^2_g \times [0,1]$
  - $\#_{\mathbb{N}}T^2$
  - Thompson's group

- T^n
- 3-valent tree
- 4-valent tree
- $[0, 1]^{\mathbb{N}}$ with product topology
- Whitehead manifolds
- $\mathbb{Z}$
- $\mathbb{Z}[\sqrt{m}]$
- $\mathbb{Z}[X]$
- $\mathbb{Z}^{\mathbb{N}}$
- $\mathbb{Z}[i]$
- $\mathbb{Z}[i\sqrt{5}]$