



Mathematics > Geometric Topology

# Finiteness of nonzero degree maps between three-manifolds

Yi Liu

(Submitted on 29 Jul 2011 (v1), last revised 19 Sep 2011 (this version, v2))

In this paper, we prove that every orientable closed 3-manifold dominates at most finitely many homeomorphically distinct irreducible non-geometric 3-manifolds. Moreover, for any integer  $d > 0$ , every orientable closed 3-manifold  $d$ -dominates only finitely many homeomorphically distinct 3-manifolds.

Comments: 23 pages, 3 figures

Subjects: **Geometric Topology (math.GT)**

MSC classes: 57M

Cite as: [arXiv:1107.5855](#) [math.GT]

(or [arXiv:1107.5855v2](#) [math.GT] for this version)

## Submission history

From: Yi Liu [[view email](#)]

[v1] Fri, 29 Jul 2011 01:35:21 GMT (34kb)

[v2] Mon, 19 Sep 2011 04:25:22 GMT (35kb)

*[Which authors of this paper are endorsers?](#)*

Link back to: [arXiv](#), [form interface](#), [contact](#).

## Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

math.GT

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1107](#)

Change to browse by:

[math](#)

## References & Citations

- [NASA ADS](#)

[1 blog link](#) (what is this?)

Bookmark (what is this?)

