



# Simplicial Homeology and Homeotopy

Qibing Zheng, Feifei Fan

(Submitted on 1 Jul 2011)

In this paper, we define homeology group, reduced homeology group, cohomeology group and reduced cohomeology group on finite simplicial complexes and prove that these groups are homeomorphism invariants of polyhedra. We also define homeotopy type of polyhedra which is finer than homotopy type but coarser than homeomorphism class.

Comments: 13pages,2figures

Subjects: **Algebraic Topology (math.AT)**

Cite as: **arXiv:1107.0232 [math.AT]**

(or **arXiv:1107.0232v1 [math.AT]** for this version)

## Submission history

From: Qibing Zheng [[view email](#)]

[v1] Fri, 1 Jul 2011 14:13:01 GMT (19kb)

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

## Download:

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

Current browse context:

math.AT

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

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

Change to browse by:

[math](#)

## References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

