

Ayala, R.

An axiomatic exposition of cobordism theories on Euclidean polyhedra. (Une présentation axiomatique des théories de cobordisme sur les polyèdres euclidiens.) (French) [Zbl 0628.55002](#)
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The essential ingredients of a cobordism theory are codified in a categorical framework. In particular, the notion of a cobordism category is developed and applied to obtain, for each such category, a generalized cohomology theory on Euclidean polyhedra. Furthermore, analogous to the situation for PL-cobordism, a description is given of the Ω -spectrum associated to any such generalized cohomology theory.

Reviewer: [John F. Oprea \(Cleveland\)](#)

MSC:

- [55N22](#) Bordism and cobordism theories and formal group laws in algebraic topology
- [55N20](#) Generalized (extraordinary) homology and cohomology theories in algebraic topology
- [57Q60](#) Cobordism and concordance in PL-topology
- [57Q50](#) Microbundles and block bundles

Keywords:

[mockbundles](#); [cobordism category](#); [generalized cohomology theory on Euclidean polyhedra](#); [PL-cobordism](#); [\$\Omega\$ -spectrum](#)

Full Text: [Numdam](#) [EuDML](#)

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