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Spectral sequence analysis of surgery problems and the inertia law of manifolds

Abstract: Cutting global surgery problems into small pieces leads to a generalized homology theory. We shall describe and analyse elements of these generalized homology groups and prove its inertia property under some assumption. This gives answers to a problem recently raised in the paper "Surgery obstructions on closeed manifolds and the inertia subgroup" by I.Hambleton (arXive 2010).