

Surgery on stratified spaces

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Abstract

We construct the algebraic surgery theory for filtered manifolds and for a topological space consisting of two manifolds which intersect transversally. We show that structure sets and obstruction groups in these cases can be realized on the level of spectra. We construct commutative braids of exact sequences which relate the new notions to their classical counterparts and generalize the splitting theory to the case of stratified manifolds.

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