

SURGERY TRANSFER MAPS FOR TRIPLES OF MANIFOLDS

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Abstract

The surgery transfer map is closely related to the problem of splitting a homotopy equivalence along a submanifold and to surgery of a manifold pair. We describe relations between various natural surgery transfer maps which arise for a triple of manifolds. We obtain commutative diagrams of exact sequences for transfer maps containing surgery and splitting obstruction groups which arises in the problem of surgery on triples of manifolds. The transfer maps fit also in diagrams of exact sequences containing various structure sets and sets of normal invariants for triple of manifolds.

Joint work with Yuri Muranov.

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