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The structure sets of a manifold pair

Abstract. Let $Y \subset X$ be a closed manifold pair. We shall explain how to construct various structure sets of a manifold pair and develop exact sequences and braids of exact sequences comparing the structure sets and surgery and splitting obstruction groups. We shall describe the deep analogy between structure sets of a manifold pair $Y \subset X$ and structure sets of a closed manifold pair with boundary. We shall give several examples of computations of the structure sets.