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Recent approaches in 4-dimensional surgery theory

Abstract. The 4-dimensional surgery program is still not completed. This talk is about ideas of some recent attempts to overcome the problems. After an introduction to the subject we will discuss issues of the papers quoted below.

References:

[1] F.Quinn, *Homology manifolds and 4-dimensional surgery*, preprint, arXiv.math:GT/0504258v1,12.4.2005 (recalled)

[2] V.Krushkal, *Surgery and involutions on 4-manifolds*, preprint, arXiv:math.GT/0505394v1,18.5.2005.

[3] F.Hegenbarth and D.Repovš, *Applications of controlled surgery in dimension 4*, preprint, Univ. of Ljubljana 2004, to appear.