

# Seifert manifolds and 0-surgery

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**Abstract.** For closed connected orientable 3-manifold  $M$ , let  $c(M)$  be the minimal number of the component number of any link  $L$  whose each component is the unknot in  $S^3$  such that  $M$  is obtained by the 0-surgery of  $S^3$  along  $L$ . Then  $c(M)$  is an invariant of closed connected orientable 3-manifold  $M$ . We have already obtained  $c(M)$  for some lens spaces. In this talk, we consider some Seifert manifolds obtained by the 0-surgery of  $S^3$  along a pure 3-braid link, and we determine  $c(M)$  for some Seifert manifolds. Moreover, we calculate the bridge genus and the braid genus for some Seifert manifolds.