

# Tabulation of 3-manifolds of lengths up to 10

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**Abstract.** This is a joint work with A. Kawauchi. A well-order was introduced on the set of links by A. Kawauchi. This well-order also naturally induces a well-order on the set of prime link groups and eventually induces a well-order on the set of closed connected orientable 3-manifolds. With respect to this order, we enumerated the prime links, the prime link groups and 3-manifolds with lengths up to 10. In this talk, we show a list of the enumeration of 3-manifolds and discuss a relationship between link exteriors and link groups.