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## **On the number of connected and disconnected coverings over a manifold**

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### **Abstract**

A general formula is obtained for the number of non-equivalent coverings (possibly disconnected) over a connected manifold with an arbitrary finitely generated fundamental group. Some illustrative examples are considered.

**Keywords:** Counting homomorphisms, non-equivalent coverings, disconnected coverings, fundamental Group, Euler transform.

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# **O številu povezanih in nepovezanih krovov nad mnogoterostjo**

## **Povzetek**

V članku izpeljemo splošno formulo za število ne-ekvivalentnih krovov (morda nepovezanih) nad povezano mnogoterostjo s poljubno končno generirano fundamentalno grupo. Obravnavamo tudi nekaj ilustrativnih primerov.

**Ključne besede:** Štetje homomorfizmov, ne-ekvivalentni krovi, nepovezani krovi, fundamentalna grupa, Eulerjeva transformacija.