

**Sadyrkhanov, R. S.**

**A finite-to-one criterion for covering maps.** (English. Russian original) [Zbl 0558.54011](#)  
*Sov. Math., Dokl.* 28, 587-590 (1983); translation from *Dokl. Akad. Nauk SSSR* 273, 54-58 (1983).

The author characterizes finite-to-one covering maps within the class of local homeomorphisms of Hausdorff spaces satisfying some other conditions; he gives, among others, sufficient conditions under which a precisely  $m$ -fold covering map of a compact subset  $Q$  of a Hausdorff space has an extension onto an open neighbourhood of  $Q$  which is also a precisely covering map. In the case of domains in Banach spaces he obtains conditions sufficient for a map to be a precisely  $m$ -fold covering map.

Reviewer: [J Chvalina](#)

**MSC:**

[54C10](#) Special maps on topological spaces (open, closed, perfect, etc.)

Cited in **2** Documents

**Keywords:**

finite-to-one covering maps; local homeomorphisms of Hausdorff spaces; precisely  $m$ -fold covering map