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## Homotopy type of G/TOP and G/O

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The classification of smooth structures on a manifold  $X$  is a classical problem in topology. Surgery theory provides a framework for solving this problem by calculating the structure set of  $X$ . One of the steps in this process involves finding normal invariants, which can be represented by a homotopy class of maps from  $X$  to the space  $G/O$ . A similar notion exists in the TOP category, in which the space  $G/TOP$  plays a central role. In this work, we study the homotopy types of both  $G/TOP$  and  $G/O$ , with the aim of applying these results to the study of lens spaces.

### Pracovisko fakulty (katedra)/ Department of Faculty

Katedra algebry a geometrie

### Tlač postru/ Print poster

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