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## Finiteness of \$A\_n\$-equivalence types of gauge groups

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Let \$B\$ be a finite CW complex and \$G\$ a compact connected Lie group. We show that the number of gauge groups of principal \$G\$-bundles over \$B\$ is finite up to  $A_n$ -equivalence for n< infty. As an example, we give a lower bound of the number of  $A_n$ -equivalence types of gauge groups of principal \$\SU(2)\$-bundles over  $S^4$ .

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