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Alexander Melnikov*, Massey University, INMS, Auckland, New Zealand. *Computability and the classification of compact groups.*

In my talk I will try to explain how one can use computability to attack classification problems in topological group theory. It follows that compact connected topological (abelian) groups are "unclassifiable". We will also look at computability of profinite groups and see that the index set of computably categorical profinite abelian groups is Π_4^0 -complete. (Received January 17, 2017)