

# SEMINARIO DI GEOMETRIA

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@ Dipartimento di Matematica, Università di Torino,  
via Carlo Alberto 10  
AULA C

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## On the automorphism group of homogeneous tube CR manifolds

CR manifolds are real manifolds with a complex structure defined on a subbundle of the tangent bundle. The main example are real submanifolds of complex manifolds, with the induced partial complex structure. Among these, CR manifolds of tube type are those of the form  $M = N + iR^n$ , where  $N$  is a submanifold of  $R^n$ . In this talk I will describe the automorphisms of CR manifolds that are locally homogeneous and of tube type, and give a classification in the semisimple and Levi-nondegenerate case.