

1156-30-279

Emilio Bujalance, Javier Cirre* (jcirre@mat.uned.es) and **Jesús Rodríguez**. *Abelian group actions on pseudo-real Riemann surfaces.*

A compact Riemann surface is called pseudo-real if it admits anti-conformal (orientation-reversing) automorphisms, but no anti-conformal automorphism of order two. In the talk we will describe necessary and sufficient conditions for a finite abelian group to act as a group of automorphisms containing orientation reversing elements, on some pseudo-real surface of genus bigger than one. Some applications, as the minimum genus and maximum order problems, will also be considered. The main tool is the combinatorial theory of non-euclidean crystallographic groups. (Received January 26, 2020)