1027-30-162 **Emilio Bujalance** and **Francisco Javier Cirre*** (jcirre@mat.uned.es), Dep. Matematicas Fundamentales, Facultad de ciencias, UNED, 28040 Madrid, Spain, and **Jose Manuel Gamboa**.

Double coverings of hyperelliptic real algebraic curves.

We consider double and (possibly) branched coverings $\pi : X \to X'$ between real algebraic curves where X is hyperelliptic. We analyze the topological features and ramification data of such coverings. For each isomorphism class of these coverings we also describe a representative, with defining polynomial equations for X and for X', a formula for the involution that generates the covering transformation group, and a rational formula for the covering projection $\pi : X \to X'$. (Received February 26, 2007)