

1112-14-25

**Milagros Izquierdo\*** ([milagros.izquierdo@liu.se](mailto:milagros.izquierdo@liu.se)), Department of Mathematics, Linköping University, 58183 Linköping, Sweden, and **Antonio F. Costa** ([acosta@mat.uned.es](mailto:acosta@mat.uned.es)) and **Ana M. Porto** ([asilva@mat.uned.es](mailto:asilva@mat.uned.es)). *On Branch Loci of Moduli Spaces of Hyperelliptic Klein Surfaces with.*

In 1982 Mika Seppälä showed that the space of hyperelliptic Riemann surfaces of given genus is connected. In this work we study branch loci of moduli spaces of hyperelliptic Klein surfaces with one boundary component. The behavior is very different whether the surfaces are orientable or not: while branch loci in spaces of orientable hyperelliptic Klein surfaces with one boundary component are connected, the branch locus of moduli space of non-orientable hyperelliptic Klein surfaces with one boundary component are disconnected. In fact it consists of  $g/2$  components for even genera  $g$ , and  $(g-1)/2$  components for odd genera. This is a joint work with Antonio F. Costa and Ana M. Porto (Received June 01, 2015)