1108-14-41 Luigi Lombardi and Sofia Tirabassi* (sofia@math.utah.edu), Department of Mathematics - University of Utah, 155 South 1400 East, JWB 233, Salt Lake City, UT 84112. Deformations of minimal cohomology classes on abelian varieties.

We show that, given $C$ a smooth non-hyperelliptic curve, there is a one-to-one correspondence between infinitesimal deformations of the Brill–Noether loci $W_d(C) \subset J(C)$ and the infinitesimal deformation of $C$. As an application we provide evidence for a conjecture of Debarre classifying ppav admitting a subscheme representing the minimal cohomology class. (Received December 07, 2014)