

1103-14-140

**Amy Ksir\*** (ksir@usna.edu) and **Caroline Grant Melles** (cgg@usna.edu). *Automorphisms of genus 2 curves and their skeletons.*

Let  $K$  be an algebraically closed non-Archimedean field which is complete with respect to a non-trivial Archimedean valuation. For each smooth projective algebraic curve  $X$  over  $K$ , there is a Berkovich analytification  $X^*$ . When  $X$  has genus at least 1, there is a unique minimal skeleton  $\Sigma$  in  $X^*$  with the structure of a finite metric graph. An automorphism of  $X$  induces an automorphism of  $X^*$  which restricts to a metric graph automorphism of  $\Sigma$ . In some cases, however, the group of automorphisms of the metric graph is larger than the automorphism group of the original curve. I will describe the situation in some detail in the genus 2 case. (Received August 17, 2014)