1096-14-2182 **Amy Ksir** (ksir@usna.edu) and **Caroline Grant Melles*** (cgg@usna.edu). *Automorphisms of genus 2 Berkovich analytic 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 Σ 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 Σ.

We study the homomorphism of automorphism groups $\mathrm{Aut}(X^*) \to \mathrm{Aut}(\Sigma)$ for some examples. We use examples in which X has genus 2 to show that this homomorphism is not necessarily injective or surjective. We investigate conditions that must hold for a metric graph automorphism of Σ to be the restriction of an automorphism of X^*. (Received September 17, 2013)