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Imaginaries in rigid analytic geometry

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Let K be an algebraically closed field equipped with a non-trivial non-archimedean valuation. Haskell, Hrushovski and Macpherson gave a geometric characterization of the imaginaries of K, i.e., they showed that a certain geometrically reasonable part of K^{eq} eliminates imaginaries. Haskell and I have been working to extend this result to analytic expansions of K, that is expansions of K where function symbols are added for various convergent power series. These analytic expansions provide a setting for rigid analytic geometry. I will give some background on these analytic structures, explain some of the ideas of the original HHM proof and describe our progress in adapting them to the analytic case.