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Factorization of analytic self-maps of the upper half-plane.

We extend a classical factorization result of Krein to arbitrary analytic functions from the upper half-plane to itself. The factorization represents every such function as a product of fractional linear factors times a function which, generally, has fewer zeros and singularities than the original one. Interpolation results are presented as applications. This is joint work with Hari Bercovici.