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Manifolds of quasiconformal mappings and the nonlinear Beltrami equation

We show that homeomorphic solutions to a given nonlinear Beltrami equation form a two dimensional manifold of Sobolev maps whose tangent plane is given by solutions to the linear Beltrami equation. We also show that under regularity conditions on the nonlinearity there is a one to one correspondence between an H equation and the manifold. This is a joint work with Kari Astala, Daniel Faraco and Jarmo Jäskeläinen.