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Jane M. Hawkins* (jmh@math.unc.edu), Mathematics Department CB #3250, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599. *Dynamics of dianalytic maps on Klein surfaces*. Preliminary report.

We discuss analytic maps of the sphere, the torus, and the punctured plane with extra symmetries; namely they project to well-defined maps on corresponding nonorientable Klein surfaces. We consider Julia and Fatou sets on the Klein surfaces and discuss some topological dynamical and ergodic properties. In particular we construct many examples where the Julia set is the entire Klein surface. (Received September 02, 2014)