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Brunsden (vwb2@psu.edu), Department of Mathematics and Statistics, Penn State Altoona, 3000 Ivyside Park, Altoona, PA 16601. A Manifold Structure for the Group of Orbifold Diffeomorphisms of a Smooth Orbifold.

For a compact, smooth C^r orbifold (without boundary), we show that the topological structure of the orbifold diffeomorphism group is a Banach manifold for $1 \le r < \infty$ and a Fréchet manifold if $r = \infty$. In each case, the local model is the separable Banach (Fréchet) space of $C^r(C^{\infty}, \text{resp.})$ orbisections of the tangent orbibundle. (Received January 10, 2007)