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Daniel Meyer* (danimey@umich.edu), Department of Mathematics, 2074 East Hal, 530 Church Street, Ann Arbor, MI 48109-1043. *Invariant Peano curves of expanding Thurston maps.*

We consider postcritically finite branched coverings f of the 2-sphere S^2 that are expanding in a suitable sense. It is shown that there is a Peano-curve $\gamma: S^1 \rightarrow S^2$ that is a semi-conjugacy of the dynamics of an iterate $F = f^n$. This means that $F \circ \gamma = \gamma \circ z^d$, where $d = \deg F$. This corresponds to results by Cannon and Thurston about Kleinian groups. (Received February 12, 2008)