1024-37-92Marcy M Barge* (barge@math.montana.edu), Department of Mathematics, Montana State
University, Bozeman, MT 59717, and Richard C Swanson (rswanson@math.montana.edu),
Department of Mathematics, Montana State University, Bozeman, MT 59717. Rigidity in
one-dimensional substitution tiling spaces.

We prove that if the tiling spaces associated with two primitive and aperiodic substitutions are homeomorphic, then some powers of the inflation-and-substitution dynamics are conjugate. (Received January 02, 2007)