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Aaron T Hill* (aaronhill@gmail.com). *Centralizers of Rank-1 Homeomorphisms of Zero-dimensional Polish Spaces.*

We define rank-1 homeomorphisms of zero-dimensional Polish space X , analogous in many ways to rank-1 invertible measure-preserving transformations of a standard Lebesgue space. We give necessary and sufficient conditions for a rank-1 homeomorphism to commute only with its integral powers in the group of homeomorphisms of the zero-dimensional Polish space X and discuss connections with the group of invertible measure-preserving transformations. (Received June 27, 2011)