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Bratteli-Vershik models for partial actions of $\mathbb{Z}$

Herman, Putnam, and Skau proved that given a Cantor minimal system (X, f) one can construct a simple ordered Bratteli diagram with unique max and min paths whose Vershik map is conjugate to (X, f). They also proved that any two diagrams constructed from (X, f) are equivalent. Of course there are simple ordered Bratteli diagrams which do not have unique max and min paths, and here the Vershik map is still a minimal homeomorphism between open subsets of the path space. We prove the converse of this statement, that given a minimal homeomorphism h: U –¿ V between open proper subsets of the Cantor set, there exists an ordered Bratteli diagram whose Vershik map is conjugate to h, and that any two such diagrams are equivalent. This is joint work with Thierry Giordano and Daniel Gonçalves.