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Relative hyperbolicity, trees of spaces and Cannon-Thurston maps. (English) Zbl 1222.57013
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This paper proves a Cannon-Thurston map theorem for trees of relatively hyperbolic spaces. It generalizes previous Cannon-Thurston theorems of Bowditch and the first author.

The main theorem is stated in terms of trees of relatively hyperbolic spaces whose vertex spaces satisfy the quasi-isometrically embedded condition due to *M. Bestvina* and *M. Feighn* [*J. Differ. Geom.* 35, No. 1, 85–102 (1992; [Zbl 0724.57029](#))]. Under some natural conditions of relative hyperbolicity, the inclusion of any vertex space in the tree of spaces has a Cannon-Thurston map, namely the embedding extends continuously to the boundary.

This is part of Pal's PhD thesis supervised by Mj.

Reviewer: [Joan Porti \(Bellaterra\)](#)

MSC:

[57M50](#) General geometric structures on low-dimensional manifolds
[20F65](#) Geometric group theory

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