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Title:	Boundaries of graphs of relatively hyperbolic groups with cyclic edge groups
Authors:	Tomar, Ravi (/jspui/browse?type=author&value=Tomar%2C+Ravi)
Keywords:	Relatively hyperbolic groups Cyclic edge groups
Issue Date:	2022
Publisher:	Springer Nature
Citation:	Proceedings of the Indian Academy of Sciences: Mathematical Sciences, 132(2), 47.
Abstract:	We prove that the fundamental group of a finite graph of convergence groups with parabolic edge groups is a convergence group. Using this result, under some mild assumptions, we prove a combination theorem for a graph of convergence groups with dynamically quasi-convex edge groups (Theorem 1.3). To prove these results, we use a modification of Dahmani's technique [8]. Then we show that the fundamental group of a graph of relatively hyperbolic groups with edge groups either parabolic or infinite cyclic is relatively hyperbolic and construct Bowditch boundary. Finally, we show that the homeomorphism type of Bowditch boundary of the fundamental group of a graph of relatively hyperbolic groups with parabolic edge groups is determined by the homeomorphism type of the Bowditch boundaries of vertex groups (under some additional hypotheses) (Theorem 7.1). In the last section of the paper, we give some applications and examples.
Description:	Only IISER Mohali authors are available in the record.
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