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Tree-graded asymptotic cones

Alessandro Sisto

(Submitted on 3 Apr 2012)

We study the bilipschitz equivalence type of tree-graded spaces, showing that asymptotic cones of relatively hyperbolic groups (resp. asymptotic cones of groups containing a cut-point) only depend on the bilipschitz equivalence types of the pieces in the standard (resp. minimal) tree-graded structure. In particular, the asymptotic cones of many relatively hyperbolic groups do not depend on the scaling factor. We also describe the asymptotic cones as above "explicitly". Part of these results were obtained independently and simultaneously by D. Osin and M. Sapir.

Comments:	Part of this http URL, that has been split. To appear in Groups, Geometry and Dynamics
Subjects:	**Geometric Topology (math.GT)**
Cite as:	**arXiv:1204.0682** [math.GT]
	(or **arXiv:1204.0682v1** [math.GT] for this version)

Submission history

From: Alessandro Sisto [view email]

[v1] Tue, 3 Apr 2012 13:04:13 GMT (37kb)

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