Coulbois, Thierry; **Hilion, Arnaud**; **Lustig, Martin**

$\mathbb{R}$-trees and laminations for free groups. II: The dual lamination of an $\mathbb{R}$-tree. (English)

Zbl 1198.20023
J. Lond. Math. Soc., II. Ser. 78, No. 3, 737-754 (2008).

Summary: We define a dual lamination for any isometric very small F_N-action on an $\mathbb{R}$-tree T. We obtain an $\mathrm{Out}(F_N)$-equivariant map from the boundary of the outer space to the space of laminations. This map generalizes the corresponding basic construction for surfaces. It fails to be continuous. We then focus on the case where the tree T has dense orbits. In this case, we give two other equivalent constructions, but of different nature, of the dual lamination.

For part I cf. the authors, ibid. 78, No. 3, 723-736 (2008; Zbl 1197.20019).

MSC:

20E05	Free nonabelian groups
20E08	Groups acting on trees
20F65	Geometric group theory
37B10	Symbolic dynamics
57M07	Topological methods in group theory

Keywords:

real trees; actions of free groups by isometries; algebraic laminations; symbolic laminations; laminary languages; outer space; outer automorphism groups

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