

Coulbois, Thierry; Hilion, Arnaud; Lustig, Martin **\mathbb{R} -trees and laminations for free groups. I: Algebraic laminations.** (English) Zbl 1197.20019
J. Lond. Math. Soc., II. Ser. 78, No. 3, 723-736 (2008).

Summary: This paper is the first of a sequence of three papers, where the concept of a real tree dual to a measured geodesic lamination in a hyperbolic surface is generalized to arbitrary real trees provided with a (very small) action of a free group by isometries. Laminations for free groups are defined with care in three different approaches: algebraic laminations, symbolic laminations, and laminary languages. The topology on the space of laminations and the action of the outer automorphism group are detailed.

MSC:

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

Cited in **1** Review
Cited in **26** Documents**Keywords:**

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

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