

Folding lines in Outer space determine the dual lamination of their limit \mathbb{R} -tree

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Abstract:

The purpose of this talk is to draw a connection between *folding lines* and *dual laminations for \mathbb{R} -trees*, two subjects within the domain of Outer space and free group automorphisms which have received recently much attention.

Both subjects will be introduced with some care. We will then prove that for any folding line $(\tilde{\Gamma}_t)_{t \in I}$ in Outer space which converges towards an \mathbb{R} -tree T with dense orbits, the intersection of the *totally illegal* laminations of all $\tilde{\Gamma}_t$ is equal to the dual lamination $L^2(T)$ of T .

The talk will end with some questions relating to discussions in which the author was involved, during a recent workshop at the AIM in Palo Alto.