1112-03-474 **Sylvia Carlisle*** (carlisle@rose-hulman.edu). *Types in the theory of* $\mathbb{R}$*-trees.* Preliminary report.

An $\mathbb{R}$-tree is metric space such that between any two points there is a unique geodesic segment. An $\mathbb{R}$-tree is *richly branching* if the set of points with at least 3 branches of a given length is dense. We study $\mathbb{R}$-trees as metric structures using an appropriate continuous signature. The theory rb$\mathbb{R}$T of richly branching $\mathbb{R}$-trees is the model companion to the theory of $\mathbb{R}$-trees; it is complete, has quantifier elimination, and is stable but not superstable. Here, we discuss types and type spaces for rb$\mathbb{R}$T. We describe the independence relation, canonical bases and principal types of finite tuples. We consider the d-metric on types and show that the space of 2-types over the empty set is nonseparable. (Received August 10, 2015)