Theorem 1. *Assume* CH. *The group* $(\mathbb{R},+)$ *has a directed* T_∞*-terrace* $g:\mathbb{R}\longrightarrow\mathbb{R}$.

Proof. Consider the poset $\mathbb{P}$ of partial, directed, countable T_∞-terraces, partially ordered so that $a \leq c$ if and only if $\operatorname{dom} a \subseteq \operatorname{dom} c$ and $c \restriction \operatorname{dom} a = a$. Each condition $a \in \mathbb{R}$ should satisfy the property that in fact for each $d \in \mathbb{R}$, the function $b_{(d)} : \operatorname{dom} a \longrightarrow \operatorname{range} a \setminus \{0\}$ defined by $b_{(d)}(i) = a(i+d) - a(i)$ is a bijection.

Need to establish:

1. $\mathbb{P}$ is countably closed.
2. It is dense to add a real number r to the range of a condition.

$\square$