

## **Noetherian bases of lexicographically ordered trees**

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The main goal of this research is to prove that every linearly ordered space has a Noetherian base, or to determine whether there is a linearly ordered space with no Noetherian base. In this talk I will construct a Noetherian base for the double arrow space, as a lexicographically ordered tree and generalize this construction for certain partition trees, ordered lexicographically.