1025-03-224   **Jennifer Anne Brown*** (`brownja@kenyon.edu`), Kenyon College, Department of Mathematics, Gambier, OH 43022-9623. *The interval topology on pseudotrees.* Preliminary report.

A pseudotree is a partial order $(T, \leq)$ such that for every t in T, the set $\{s \in T : s \leq t\}$ is linearly ordered. The interval topology on T is generated by sets of the following types: $(x, y) = \{t \in T : x < t < y\}$ where $x < y$; $[x, y)$ where x is minimal; and $(x, y]$ where y is maximal. We investigate topological properties of pseudotrees with the interval topology under various set-theoretic assumptions. (Received January 23, 2007)