

1044-54-171

Akira Iwasa* (iwasa@uscb.edu), 801 Carteret Street, Beaufort, SC 29902. *Characterization of a space topologized by functions from ω to ω .*

We consider a space $\langle X, \tau(F) \rangle$, where $X = \{p\} \cup [\omega \times \omega]$ and $F \subseteq {}^\omega\omega$. Each point in $\omega \times \omega$ is isolated and a basic nbhd U of the point p has the form $U = \{p\} \cup \{(i, j) : i \geq n, j \geq f(i)\}$ for some $n \in \omega$ and $f \in F$. We characterize the space $\langle X, \tau(F) \rangle$ when F is a dominating subfamily of ${}^\omega\omega$, and give a partial characterization of the space when F is a bounded subfamily of ${}^\omega\omega$. (Received August 31, 2008)