

Meeting: 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-54-820 **Akira Iwasa*** (iwasa@gwm.sc.edu), University of South Carolina Beaufort, 801 Carteret St,
Beaufort, SC 29902. *Subspaces of ω_n that are paracompact in a forcing extension.*

We discuss which subspaces of ω_n are paracompact in a cardinal-preserving forcing extension. In 1977, Engelking and Lutzer showed that a generalized ordered space is paracompact iff it does not contain a closed copy of a stationary subset of a regular uncountable cardinal. So in order for $X \subseteq \omega_n$ to be paracompact in some forcing extension, closed copies of such stationary subsets in X must be rendered non-stationary in the extension. To establish this, we use a notion of forcing which adds a closed and unbounded subset of a regular uncountable cardinal. (Received September 30, 2004)