1044-54-189   **Alan Dow*** (`adow@uncc.edu`), Mathematics and Statistics, UNC Charlotte, Charlotte, NC 28223.
Forcing and non-trivial copies of $\beta\omega \setminus \omega$. Preliminary report.

We continue a line of research begun by Velickovic, Steprans and Shelah in which models of Martin's Axiom are created by forcing over a model of PFA. The forcing posets are designed to add new ultrafilters on ω or maps on ω^* without adding new subsets of ω.

A long-standing open question by van Douwen asks if there exist homeomorphic copies of ω^* which are not merely the remainders of countable discrete sets. We consider this question in some of these special models. (Received September 01, 2008)