

In 1997, Buzjakova proved: For pseudocompact Tychonoff space X and $\kappa = |\beta X|^+$, X condenses onto a compact space if and only if $X \times (\kappa + 1)$ condenses onto a normal space. This is a condensation form of Tamano's theorem. An interesting problem is to determine how much of Buzjakova's result can be proved with "pseudocompact" removed from the hypothesis.

In this talk, we are going to show for a Tychonoff space X , there is a cardinal κ such that if $X \times (\kappa + 1)$ condenses onto a normal space, then X condenses onto a countably paracompact space.