



Texas State Topology Group

Friday, October 21, noon-1:00 p.m., in DERR 338.

Dr. David Snyder facilitator

"Are monotone unions of contractible spaces contractible "

This meeting will discuss a paper recently posted on Ar iv by Bob Edwards and Ric Ancel entitled "Is a monotone union of contractible open sets contractible . The abstract states:

"This paper presents some partial answers to the following uestion.

ESTIO . If a normal space is the union of an increasing se uence of open sets U_1, U_2, U_3, \dots such that each U_n contracts to a point in U_{n-1} , must be contractible

The main results of the paper are:

THEOREM 1. If a normal space is the union of a se uence of open subsets U_n such that the closure of U_n is contained in U_{n+1} and U_n contracts to a point in U_{n+1} for each $n \geq 0$, then is contractible.

COROLLAR 2. If a locally compact sigma-compact normal space is the union of an increasing se uence of open sets U_1, U_2, U_3, \dots such that each U_n contracts to a point in U_{n+1} , then is contractible."



Texas State Topology Group

Friday, October 1, noon-1:00 p.m., in DERR 338.

Dr. Matthew Zawodiniak

"Classifying Rational Homotopy Types
of Simply Connected Topological Spaces"

The talk will be addressed primarily to those having an algebraic topology course in their background. However, the ideas presented are followable by interested audients who have not had algebraic topology .