Nihonkai Math. J.
Vol.8 (1997), 123-131

ON THE SPACE SATISFYING CONDITION (T^{**})

SANG-EON HAN

Department of Mathematics
College of Natural Sciences, Honam University
Kwangju 506-090, Korea

ABSTRACT. In this paper,we define the locally nilpotent space as the extensive concept of the nilpotent space and the condition (T^*) and (T^{**}). We study the conditions that locally nilpotent space has a fixed point free deformation with relation to the condition (T^{**}).

1. Introduction

There are many results on the nilpotent space with respect to the homotopy equivalence,localization,completion and Euler characteristic [3,7,8,9,].

In this paper, we define the locally nilpotent spaces as the extensive concept of the nilpotent space. There is an effort applying the fixed point free deformation property to the space satisfying condition (T^{**}).

We make some results of the locally nilpotent spaces with relation to the condition (T^*) and (T^{**}). Furthermore, we study the homotopy equivalent conditions of the locally nilpotent spaces and spaces satisfying condition (T^{**}).

This work was partially supported by BSRI program, Ministry of education under the project number BSRI-96-1425.