

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, April 12
2:00 – 3:00 PM
Maria Sanford, Room 101

ON SOME OPEN PROBLEMS ABOUT CARDINAL FUNCTIONS ON TOPOLOGICAL SPACES

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Abstract: In 1969, answering a nearly fifty-year old question raised by Alexandroff and Urysohn, Arhangel'skiĭ proved that for every Hausdorff topological space X , $|X| \leq 2^{\chi(X)L(X)}$, where $\chi(X)$ is the character of X and $L(X)$ is the Lindelöf degree of X . But it is still unknown if Arhangel'skiĭ's inequality is true for T_1 -topological spaces.

In this talk we will discuss the recent progress on this and some other open problems about cardinal functions on topological spaces.

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