

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, October 10
3:00 – 4:00 PM
Maria Sanford, Room 101

COMPACTIFICATIONS OF TOPOLOGICAL SPACES

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Abstract: Compact topological spaces play very important role in mathematics, and they are extensively studied in General Topology. For some non-compact spaces, it is possible to “add” some points to the space so that the new space becomes compact. The resulting space is called compactification of the original space.

In this presentation we will discuss what kind of topological spaces have compactifications. We will examine key compactifications like the one-point compactification, called Alexandroff compactification, and the so-called Stone-Čech compactification. In some sense, these two compactifications of a given space, when they exist, are respectively the smallest and the largest one possible.

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