

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Monday, October 10

4:30 – 5:30 PM

Maria Sanford, Room 108

**ON STRONG LOCAL AND
COUNTABLE DENSE HOMOGENEITY**

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ABSTRACT

It is known that a Polish strongly locally homogeneous space is countable dense homogeneous. We present an example of a connected, Polish, countable dense homogeneous space X that is not strongly locally homogeneous. In fact, X has the following property: if f is a homeomorphism of X that is the identity on some nonempty open subset of X , then f is the identity. This answers Question 1 of Fitzpatrick and Zhou in their paper in "Open Problems in Topology".

AFTERMATH:

Refreshments will follow the colloquium.

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