CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Monday, April 9
9:45 – 10:35 AM
Davidson Hall (LD) 207

WHAT IS HOMOLOGY GOOD FOR?

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Abstract: Homology is the mathematics that arises in the attempt to answer local-to-global questions. For instance, imagine a swarm of sensors spread inside a forest. We know which sensors are near each other or near the boundary, but we do not know their GPS locations. If each sensor covers a small area, can we determine whether the network covers the forest? In this talk we give a brief introduction to homology and show how it can be applied to this type of questions.