

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, September 11
2:00 – 3:00 PM
Maria Sanford, Room 101

TOPOLOGICAL INVARIANTS

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Abstract: A topological invariant is a property of a geometric shape that is preserved under continuous deformation of that shape. For example, the Euler characteristic is a number that describes the shape/geometry of an object regardless of the way it is bent, and it can be defined for graphs, polyhedra, and more generally for CW-complexes. In Algebraic Topology, these invariants can be defined quite generally for topological spaces using ideas from Homology Theory. I'll show some of the applications of these invariants.

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