

College of Arts and Sciences
Department of Mathematics
University of South Carolina

Math Colloquium

Some Novel Applications of Algebra

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Thursday
December

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4:30 PM
LeConte 412

I shall introduce entropy regions, motivated by network coding, and then note how they are equivalent to basic objects in finite group theory, allowing us to address fundamental questions regarding these regions. Then I shall introduce the Belgian Chocolate Problem, a question from robust control theory amenable to algebraic attack and mysteriously connected to the abc conjecture.