

TITLE:

"WHAT DO STOCK MARKET AND POSITIVE L^1 OPERATORS HAVE IN COMMON?"

ABSTRACT

It should be made clear that neither the stock market nor ergodic theorem will be the main subject of this colloquium. No knowledge of either topic will be assumed and the talk will be accessible (and hopefully interesting) to all mathematicians and math enthusiasts. We will, in a sense, look for the largest class of operators that satisfy the so called mean ergodic theorem. The first example of a non-power bounded mean ergodic operator in L^1 was given in 1945 by Einar Hille. A class of numerical sequences intimately related to the problem of the growth of norms, will be introduced. Sequences from this class appear to resemble the recent bear behavior of the stock market as well. Simple exercises and open questions will be mentioned.



**UCCS MATH COLLOQUIUM
PRESENTED BY:**

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THURSDAY

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UC 307

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