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RANDOMNESS IN COMPUTATION

A Lecture by Professor Shubhangi Saraf

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ABSTRACT:

In this talk we will see the amazing power of randomness in computation.

In a wide variety of settings such as cryptography, machine learning, sublinear time algorithms, and many many more, the use of randomness has led to far more powerful and efficient algorithms than would have been possible otherwise.

I will also discuss some beautiful and quite surprising results from complexity theory which indicate why people believe that for efficient polynomial time computation, every randomized algorithm can also be efficiently derandomized.

MONDAY
OCTOBER 14, 2019
HILL 423 AT 6:00 PM

**Pizza and refreshments will be served*

Join our email list! Email us at math.ruma@gmail.com, or go to bit.ly/RUMA2019.