MATH, MAGIC, & MYSTERY

at the 2014 Joint Mathematics Meetings

Two great sessions...open to the public...and FREE!

Movie Magic

The Mathematics behind Hollywood's Visual Effects

FEATURING

Eitan Grinspun
Columbia University

3:00-4:00 p.m.
Ballrooms I & II
400 Level, BCC

Weird Ways to Work with Pi

An accessible and interactive presentation for middle- and high-school educators

FEATURING

James Tanton
Mathematical Association of America

10:00-10:50 a.m.
Room 327, BCC

Baltimore Convention Center
January 18, 2014

Check out our full program
jointmathematicsmeetings.org/jmm

MAA
MATHEMATICAL ASSOCIATION OF AMERICA

Mathematical Association of America
P.O. Box 90973 • Washington, DC 20090-0970

DON'T MISS THIS BLOCKBUSTER EVENT!

One day only.

MAA-AMS-SIAM Gerald and Judith Porter Public Lecture

Movie Magic: The Mathematics behind Hollywood's Visual Effects

Eitan Grinspun, Columbia University

Blockbuster films have amazing visual effects. Virtual stunt doubles, animated characters, and imaginary creatures are built from mathematical models of hair, fur, skin, and clothing. Explosions, floods, and disasters that would be dangerous if not impossible to film in real life are instead simulated on computers using mathematical models of fracture, fire, granular media, and liquids. This is the world of applied mathematics with an artistic flair. In this talk, aimed at the general audience, we will explore various aspects of movie magic and the exciting mathematical questions that arise.

SIGMAA on Math Circles Workshop

Weird Ways to Work with Pi: An accessible and interactive presentation for midde- and high-school educators

James Tanton, Mathematical Association of America

Many a mathematical scholar has contemplated the meaning and mystery of the number pi: the ratio of the circumference of a circle to its diameter. But I ask... Who said the concept of pi should apply only to circles? What is pi for a square? What is pi for a right triangle? What interesting non-circular problems can be solved with non-circular pi-values?

Let's get weird and quirky and let pi loose on all kinds of wild shapes!

Let's strengthen our understanding of geometry by pushing concepts to the edge.

Be sure to bring pencil and paper: You won't be able to resist jotting down thoughts, working through some curious ideas, and doing some weird calculations. Bring your students too!

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