

MONTHLY MATH HOUR AT UW

An hour of fun math for middle school students



A glimpse into the sixth dimension

Professor Sándor Kovács, UW, Mathematics

Higher dimensional geometry is used in more places than most people realize. Anyone who uses a mobile phone takes advantage of higher dimensional geometry during every call. Higher dimensional geometry is used in robotics and cryptography. If you have ever bought something on the internet, you were able to do that safely because of higher dimensional geometry. Do you think that everything there is to know about geometry was already discovered ages ago? Think again. Since the time of Euclid, the history of geometry has been a

dramatic saga that your middle school teachers probably won't tell you about. It led, more than a century ago, to the mind-bending mathematical discovery that the three-dimensional space we live in might be "curved," in much the same way as the two-dimensional surface of the earth is curved. The main purpose of this talk is to discuss higher dimensions from a practical angle. After this lecture the idea of higher dimensions will seem perhaps less romantic and exotic, but more approachable and useful and definitely at least as intriguing as it had been before.

UW Seattle campus, Savery Hall, Room 260

Sunday, March 13th, 1-2pm

This event is part of a series.

Further information, campus maps and driving directions can be found at

www.math.washington.edu/~mathcircle/mathhour