## **Undergraduate Colloquium**

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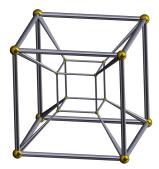
**University of Houston** 

## Making Sense of Things - Using Simple Mathematics to Visualize Objects in Multidimensional Space

November 2, 2012 1:00pm 104 AH

## **Abstract**

Most students have plotted a curve in 3 dimensional space by using a professional software package such as Matlab, SciLab, Octave, Maple, Mathematica, Spacetime or R. But not many students have taken the time to think about how this process works. We'll discuss the simplest mechanism for visualizing curves in 3 space, and just for fun, we'll implement the method using Excel. Then we will extend this idea to obtain "views" of n-dimensional cubes, for n = 3, 4, 5, 6, 7 and 8.



4-dimensional cube from wikipedia

For future talks or to be added to the mailing list: www.math.uh.edu/colloquium/undergraduate