



# MATH HOUR @ UNIVERSITY OF WASHINGTON

A MATH LECTURE FOR GRADES 6-10

[www.math.washington.edu/~mathcircle/mathhour](http://www.math.washington.edu/~mathcircle/mathhour)

UW Seattle campus

Savery Hall 260



*Dr. Henry Cohn*

*Microsoft Research*

## Dense sphere packing in a million dimensions

**Abstract:** The packing problem looks for the most efficient ways to cram objects, be it oranges, apples, or spheres, into a given space. This problem is solved in the familiar 3D world, but why and how would one think about dense packing in four, let alone a million dimensions? The answer to “why” is data – the world of information is modeled using higher dimensions. As to “how” – we’ll try our best to visualize it at the talk.

March 25, 2018

Sunday, 1-2pm