

סמינר מדעי היסוד
יום ראשון 20.12.2015 בשעה 15:00-15:50 בפיקוס 205

ד"ר אבנר הלוי
Adventures in High Dimensions

Abstract

Go ahead, put on your n-dimensional goggles. To be sure, we're not talking $n=3$ (for kids and the faint-hearted). Think higher; so high your head has almost disappeared; so high your neighbors are all suspiciously alike and almost perfectly different. As thrill-seeking mathematicians, we'll explore some mind-bending high-dimensional phenomena, including: Surprising methods for eliminating surprises, saving space with low-distortion inter-dimensional travel, what the laws of large numbers don't tell you, how geometry and probability are sometimes the same thing, mowing your hyper-spherical lawn, and where to look for your hat in a high-dimensional room. As you transition back to the familiar three dimensions, stay away from heavy machinery!

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