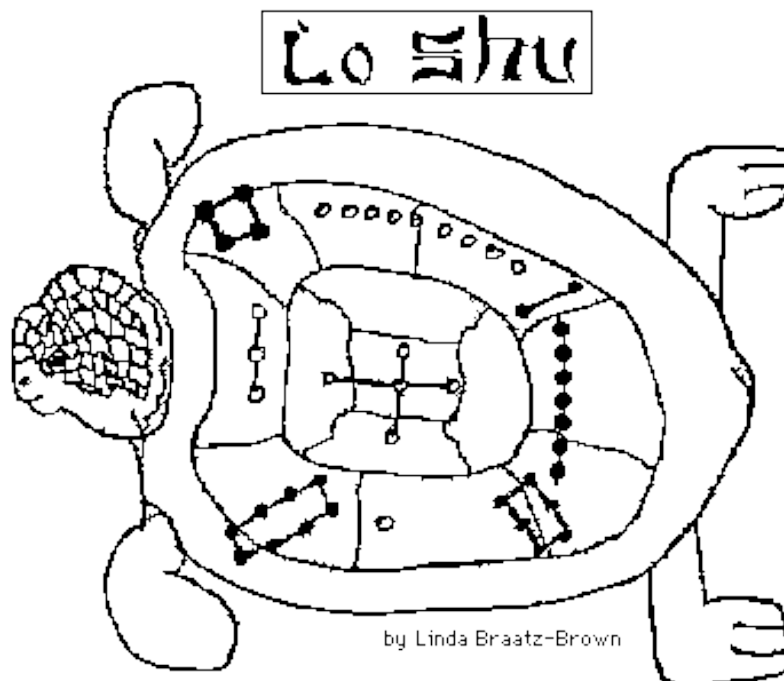


**Undergraduate Math Club  
Fall 2006**

**2<sup>nd</sup> floor Nesbitt Common Room  
Thursday, October 26, 4:10-5:00pm  
(free pizza and pop, as always)**



# **Constructing Magic Cubes**

**Johnson Jia**

## **Abstract**

If you fill up a square grid with consecutive numbers so that the entries in any row or column sum up to a fixed given number, then you have constructed a Magic Square. A Magic Cube is just a natural higher-dimensional analogue of such an object. We will survey some techniques (brute force not included) for constructing them, and discuss some interesting connections with objects in number theory.