Stein's conjecture and other fair representation problems

Date Tuesday, October 14

Time 3 pm

Location 303 Mudd

Abstract: Stein's conjecture states that if an nxn matrix has entries 1...n, where each symbol appears exactly n times then there exists a generalized diagonal where each symbol appears exactly once for the case that n is odd. In the case that n is even it is conjectured that there exists a generalized diagonal where all but two symbols appear exactly once. I will talk about this conjecture and other settings in which we look for a small structure proportionally representing the bigger structure from which it is taken.