

David Futer

Temple University

will speak on

The Rental Harmony Theorem

ABSTRACT: The rental harmony theorem (proved by Francis Su a decade ago) is quite possibly the most practically useful theorem that I have come across. Suppose that n housemates are renting a house that has n unequal rooms. The theorem says that under mild hypotheses, there is a way to partition the total rent into rents for the individual rooms, such that every housemate will prefer a different room. Furthermore, it provides an algorithm to find this harmonious partition of the rent. I will explain the theorem and its proof.

MONDAY, 20 SEPTEMBER 2010

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3-5 PM

ROOM 617, WACHMAN BUILDING

DEPARTMENT OF MATHEMATICS