

COLLOQUIUM

3:30 P.M.

TUESDAY, NOVEMBER 10, 2009

BOEHM HALL 260

The Stable Marriage Problem

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ABSTRACT

In a matchmaking club, if there are n boys and n girls, is there a way to pair them to date? If yes, how many different ways can the matchmaker pair them to date? Furthermore, if each girl has a rank of preference of the boys and each boy has a rank of preference of the girls, is there a way to pair them to date and make sure the relationship stable?

In this talk, some basic definitions of graph theory will be introduced. Then the problems above will be addressed and the corresponding results will be introduced.

3:00 p.m.
refreshments served

3:30 p.m.
talk begins