

Andrei Rapinchuk

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will speak on

**Weakly commensurable groups, with applications to
differential geometry**

ABSTRACT: The notion of weak commensurability was introduced in the ongoing joint work with Gopal Prasad on length-commensurable and isospectral locally symmetric spaces. We have been able to determine when two arithmetic subgroups are weakly commensurable. This leads to various geometric results, some of which are related to the famous question "Can one hear the shape of a drum?"

MONDAY, OCTOBER 8, 2012

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3:40 PM

ROOM 617, WACHMAN BUILDING

DEPARTMENT OF MATHEMATICS