

TEMPLE UNIVERSITY MATHEMATICS COLLOQUIUM

**Bruce Kleiner**

New York University

will speak on

**Mean Curvature Flow**

ABSTRACT: A mean curvature flow is an evolving submanifold  $M_t$  whose velocity is equal to its mean curvature. Mean curvature flow is in some respects the most natural evolution equation for a moving submanifold: it is the gradient flow of the area functional, as well as the analog of the heat equation for submanifolds. The lecture will survey mean curvature flow for a general audience.

MONDAY, APRIL 6, 2015

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3:40 PM

ROOM 617, WACHMAN HALL

DEPARTMENT OF MATHEMATICS