

TEMPLE UNIVERSITY MATHEMATICS COLLOQUIUM

**Robert Ghrist**

University of Pennsylvania

will speak on

**Euler calculus for data**

ABSTRACT: This talk covers the basics of an integral calculus based on Euler characteristic, and its utility in data problems, particularly in aggregation of redundant data and inverse problems over networks. This calculus is a blend of integral-geometric and sheaf theoretic techniques, and leads to surprisingly practical algorithms and computations.

MONDAY, 2 NOVEMBER 2009

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3-5 PM

ROOM 617, WACHMAN BUILDING

DEPARTMENT OF MATHEMATICS