

# The Oliver Club

[www.math.cornell.edu/~oliver/](http://www.math.cornell.edu/~oliver/)

## ***Sheaves and Sensors***

*This work is motivated by a fundamental problem in sensor networks — the need to aggregate redundant sensor data across a network. This talk will show a clear, simple application of the topology of constructible sheaves to data aggregation and, more suggestively, data integration. The talk will use tools from constructible sheaves,  $\mathfrak{o}$ -minimal structures, and Morse theory. However, little to no knowledge of these subjects is required for the talk; even less background on sensor networks will be assumed.*

## **Robert Ghrist**

University of Illinois at Urbana

Refreshments will be served at 2:15 PM in the Mathematics Department lounge (532 Malott Hall).



**Monday, March 24, 2008**  
**at 2:45 PM in 406 Malott Hall**