



The Olivetti Club Presents

## **Lucien Clavier**

Tuesday 4:25 pm

30 August 2011

406 Malott

### **Visualizing Poincaré Duality**

Poincaré isomorphisms are well-known but their definition is basically algebraic. Moreover, historically, these morphisms were defined in another manner. We are going to show try to answer to the following questions: Are the two ways of defining the Poincaré Duality related? Can we see both of these in a geometric way? Our answer to these questions only works in dimension 2, but we still believe it is quite insightful.

*Refreshments will be served at 3:55 pm in the math lounge.*