

Mathematics Colloquium

Sagun Chanillo

Rutgers New Brunswick

**Problems in
Geometric Analysis and
Eigenvalue Optimization
in Composite Materials**

We show how to build a body of prescribed shape and prescribed mass with different materials of varying density, so that the basic frequency of the body is as small as possible. This problems leads to interesting questions of symmetry, break of symmetry and a free boundary problem. We shall also present several open questions.

Wednesday, March 23

4:00 pm

204 Smith Hall