



MSRI/Evans Talk

MONDAY, APRIL 25, 2011

4:10PM; 60 EVANS HALL

UNIVERSITY OF CALIFORNIA, BERKELEY

“BOUNDARY SINGULAR SOLUTIONS ASSOCIATED WITH CONNECTING THIN TUBES”

**Dr. Susanna Terracini
(Università di Milano Bicocca)**

Consider two domains connected by a thin tube so that the mass of a given eigenfunction (linear or nonlinear) concentrates in only one of the two domains. The restriction on the other domain develops a singularity at the junction of the tube, as the section of the channel shrinks to zero. The asymptotics for this type of solutions can be precisely described.

**Refreshments at a nearby establishment immediately following the talk!
Graduate students and Postdoctoral Fellows are particularly welcome.**

<http://www.msri.org>