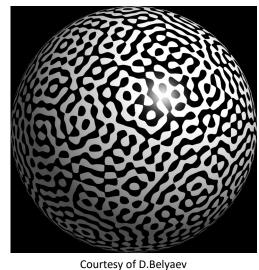
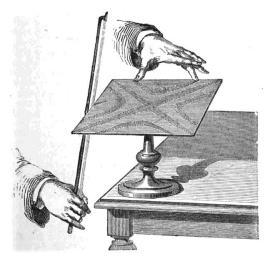
The College of Arts & Sciences Department of Mathematical Sciences Colloquium

Professor Aleksandr Logunov

The Massachusetts Institute of Technology Monday, April 8, 2024 French Hall West, Room 4221 3:35-4:35pm

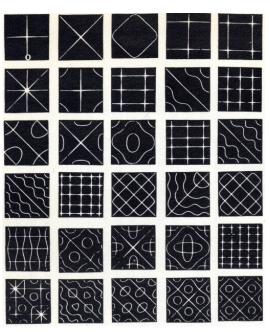


Nodal Geometry



William Henry Stone, Elementary Lessons on Sound, Macmillan and Co., London, p. 26, fig. 12

In the beginning of the 19th century Napoleon ordered the Paris Academy of Sciences to set a prize for the best mathematical



Chladni's patterns published by John Tyndall in 1869.

explanation of mysterious curves appearing in Chladni's resonance experiments. Nodal geometry studies the zeroes of solutions to elliptic differential equations such as the visible curves that appear in these physical experiments. We will discuss geometrical and analytic properties of the zero sets of harmonic functions and eigenfunctions of the Laplace operator.

Refreshments will be served 2:45-3:15pm in the Faculty Lounge 4118 French Hall West

