Please join the Mathematics Department and welcome guest Speaker François Apéry

Professor of Mathematics, Université de Haute-Alsace, Mulhouse, France.

Professor Apéry is well known for his powerful visualizations of results in geometry and topology, and as an artist producing computer-generated models.

Using Wire Models to Evert the Sphere

Abstract: Even though a clockwise circle cannot be smoothly deformed into a counterclockwise circle, surprisingly a sphere in three-dimensional space can be smoothly deformed into the same sphere turned inside out. The original proof due to Stephen Smale did not provide any way of seeing how this could be done, but now it is possible to observe physical models that demonstrate this "eversion". This presentation will be illustrated by computer graphics images made possible by newly developed algebraic formulas for these surfaces.

Tuesday, February 3, 2015
6:00 - 7:00 PM
Woods Labs 121