The Living Art of Mathematics

Cédric Villani, University of Lyon & Institut Henri Poincaré

Villani will explore how mathematicians, obsessed with the notion of elegance, consider themselves as artists and poets in a form of art that is more alive than ever. Examples include the collaborative images of mathematician Richard Palais and graphic artist Luc Bénard created using 3D-XplorMath software, and Man Ray's *Shakespearean Equations* paintings that were inspired by photographs of mathematical models made in the 1930s. Villani will also show how the intuition and creative genius of mathematicians have been inspiring artists for years.

IMAGE BY LUC BÉNARD AND RICHARD PALAIS

SIXTH ANNUAL ARNOLD FAMILY LECTURE

April 22, 2015 / 7:00 p.m.

2-470 Phillips-Wangensteen Building • 516 Delaware St. SE
East Bank, University of Minnesota, Minneapolis

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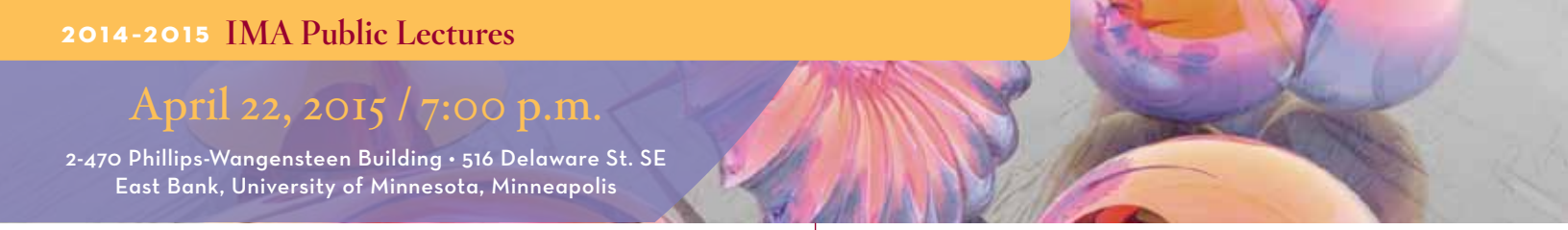

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Cédric Villani is a French mathematician working primarily on partial differential equations and mathematical physics. He is a professor at the University of Lyon and the director of the Institut Henri Poincaré. Villani has been the recipient of the Jacques Herbrand Prize, the Prize of the European Mathematical Society, the Fermat Prize, and the Henri Poincaré Prize. In 2010, he was awarded the Fields Medal for his work on nonlinear Landau damping and the Boltzmann equation.

Villani is the author of *Birth of a Theorem: A Mathematical Adventure*, a memoir of the years leading up to his Fields Medal. The book will be available for purchase and signing at the lecture.

For more information: 612-624-6066 • www.ima.umn.edu

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