

MATHEMATICAL IMAGERY



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The connection between mathematics and art goes back thousands of years. Mathematics has been used in the design of Gothic cathedrals, Rose windows, oriental rugs, mosaics and tilings. Geometric forms were fundamental to the cubists and many abstract expressionists, and award-winning sculptors have used topology as the basis for their pieces. Dutch artist M.C. Escher represented infinity, Möbius bands, tessellations, deformations, reflections, Platonic solids, spirals, symmetry, and the hyperbolic plane in his works.

Mathematicians and artists continue to create stunning works in all media and to explore the visualization of mathematics--origami, computer-generated landscapes, tessellations, fractals, anamorphic art, and more.

A mathematician, like a painter or poet, is a maker of patterns. If his patterns are more permanent than theirs, it is because they are made with ideas.

—G. H. Hardy,
A Mathematician's Apology

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2009 Mathematical Art Exhibition



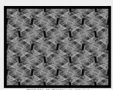
The Mathematical Art Exhibition held at the 2009 Fathauer was the curator of the exhibition, and along with Nat Friedman and Reza Sarhangi. Mathematical Society and the Mathematical A (32), 2006;" Second Prize to Carlo Séquin, for No. 1, 2008." The Prize "for aesthetically pleasing to the American Mathematical Society by an mathematics expressed in a visual art form. T

Crocheted Lorenz Manifolds



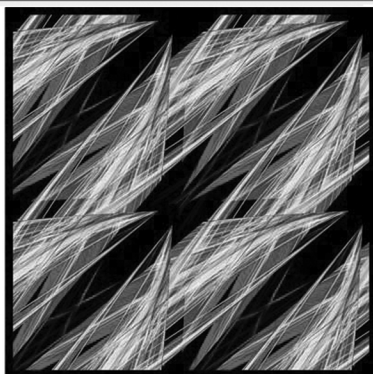
Dr. Hinke Osinga and Professor Bernd Krausk (Engineering Mathematics, University of Bristol) have turned the famous Lorenz equations into a beautiful real-life object, by crocheting computer-generated instructions of the Lorenz manifold.

Mike Field : Realizations



An aspect of my art work that I particularly enjoy is that I write the software for all the programs I use and build the computers that run the software. In this sense, I like to feel that theory (mathematics), art (outcome), software (algorithms) and engineering (hardware) are integrated and interdependent and that no part survives without the others.

—Mike Field



"InHotPursuit," by Mike Field (University of Houston)



Dear Bill,
Here's one of the e-postcards from the site.

Annette

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Journal of Mathematics and the Arts
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