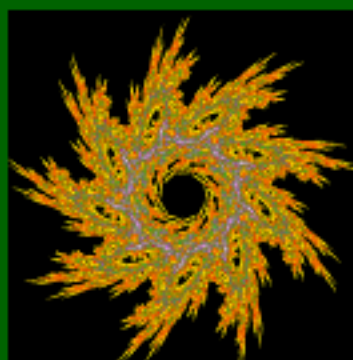
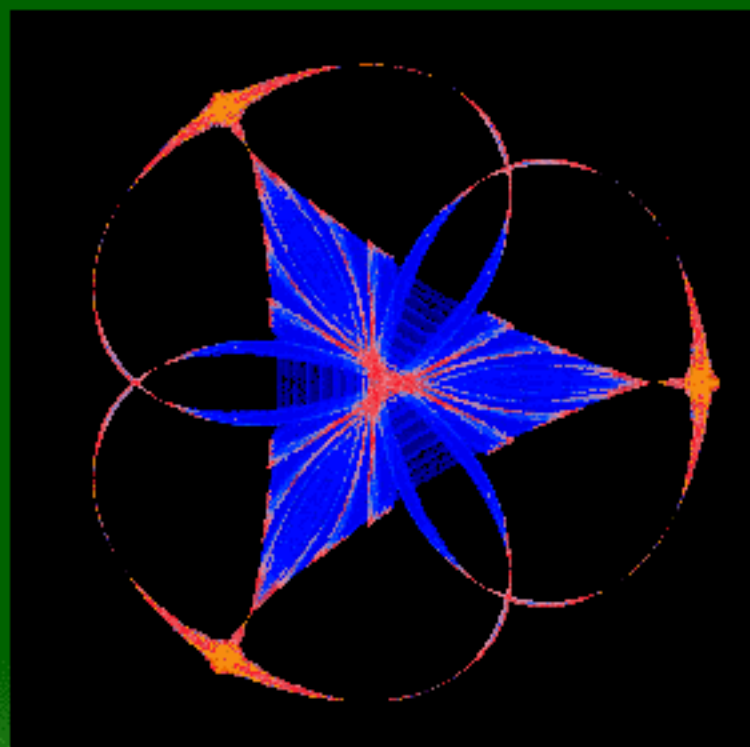


Institute for Mathematics and its Applications



Symmetric fractals constructed using iterated function systems (IFS) where the functions in the IFS are obtained from a single generating function by rotation (M. Field & M. Golubitsky).

EMERGING APPLICATIONS OF DYNAMICAL SYSTEMS

September 1997- June 1998

A one-year program with three components:

Fall: September - December, 1997

**NUMERICAL ANALYSIS
OF DYNAMICAL SYSTEMS**

Winter: January - March, 1998

**DYNAMICS IN MEDICINE
AND CHEMISTRY**

Spring: April - June, 1998

**SYMMETRY AND
PATTERN
FORMATION**

Organizing Committee:

John Guckenheimer (Chair)
Eusebius Doedel
Martin Golubitsky
Yannis Kevrekidis
Rafael de la Llave
John Rinzel

Co Sponsors: MSI, Geometry Center

IMA Participating Institutions:

Centre National de la Recherche Scientifique, Consiglio Nazionale delle Ricerche, Georgia Institute of Technology, Indiana University, Iowa State University, Kent State University, Michigan State University, Northern Illinois University, Ohio State University, Pennsylvania State University, Purdue University, Seoul National University (RIM-GARC), Texas A&M University, University of Chicago, University of Cincinnati, University of Houston, University of Illinois (Chicago), University of Illinois (Urbana), University of Iowa, University of Kentucky, University of Manitoba, University of Maryland, University of Michigan, University of Minnesota, University of Notre Dame, University of Pittsburgh, University of Southern California, University of Wisconsin, Wayne State University.

IMA Participating Corporations:

Bellcore, Cray Research, Eastman Kodak, EPRI, Ford, Fujitsu, General Motors, Honeywell, IBM, LORAL, Motorola, Siemens, GM

Postdoctoral Memberships

All requirements for a doctorate should be completed by September 1, 1997. Applicants must show evidence of mathematical excellence, but they do not need to be specialists in the field.

The following materials must be submitted:

- 1) Personal statement of scientific interests, research plans, and reasons for wishing to participate in the Emerging Applications of Dynamical Systems program. (This is an essential part of the application.)
 - 2) Curriculum vitae and a list of publications.
 - 3) Three letters of recommendation, to be sent directly to the IMA.
- All materials should arrive by January 15, 1997.

Senior Memberships

Preference will be given to supplementary support for persons with sabbatical leaves, fellowships, or other stipends.

All correspondence should be sent to:

Visiting Membership Committee
Institute for Mathematics and its Applications
University of Minnesota
514 Vincent Hall, 206 Church St. SE
Minneapolis, MN 55455-0436

The University of Minnesota is an equal opportunity educator and employer.