NORTHERN ARIZONA UNIVERSITY

Department of Mathematics and Statistics

COLLOQUIUM
Tuesday, September 9th, 2014
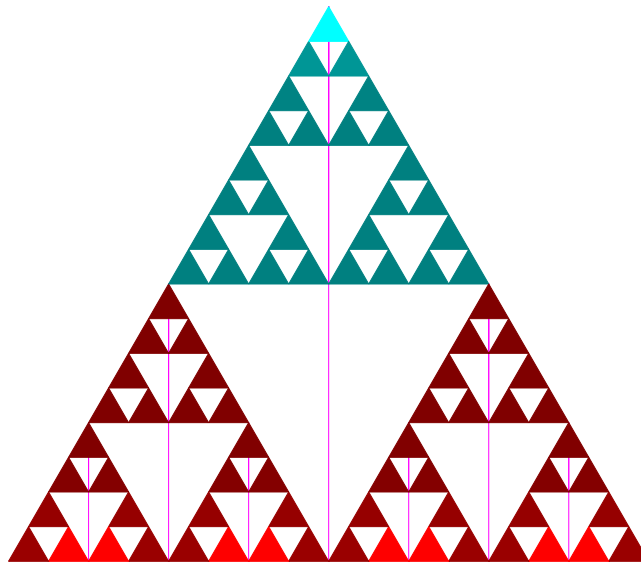4:00 – 5:00 pm, Adel Mathematics Bldg., Room 164
(refreshments at 3:45)

James W. Swift
Northern Arizona University

A PDE on the Sierpinski Gasket

Abstract: We numerically approximate solutions to the nonlinear Partial Differential Equation

$$-\Delta u = s\,u + u\hat{\ }3$$

for real-valued functions u on the Sierpinski Gasket, also known as the Sierpinski Triangle. Special attention is paid to the "local symmetry" of the solutions, which goes far beyond the symmetry of the triangle.

ACGT Seminar: Tuesday September 9th, 12:45 – 1:45 pm, AMB 164. Speaker: Stephen E. Wilson (NAU), series continues.

Applied Math Seminar (AMS): Thursday, September 11th, 12:45 – 1:45 pm, AMB 164. Speaker: Thomas Holtzworth.

Friday Afternoon Undergraduate Mathematics Seminar (FAMUS) meets Friday at 3pm.