



Department of Mathematics
Seminars and Colloquia

August 25–29, 2008

Function Theory Seminar (Special Lecture)

Monday
August 25

Professor Walter Bergweiler, Kiel University, Germany
“The 3-dimensional Analogue of Karpinska’s Paradox on Certain Sets in Complex Iteration”

BRNG 1230

Abstract: Consider the family of iterates of the function ce^z for $0 < c < 1/e$. Its Julia set consists of a remarkable family of curves, a ‘Cantor bouquet’ which has Hausdorff dimension one in the plane. The paradox is that the endpoints of these curves has (maximal) dimension two.

We will review the background of this theorem, and present its three-dimensional analogue (whose formulation already introduces additional subtleties).

Remark from David Drasin: Prof Bergweiler has been at Purdue several times, and gives a very good talk.

4:30 P.M.

Student Commutative Algebra Seminar

Monday
August 25

Mr. YiHuang Shen, Purdue University
“Some Results on Stanley Depth of Squarefree Monomial Ideals”
4:30 P.M.

MATH 215

Department of Mathematics Colloquium

Tuesday
August 26

Professor Louis deBranges, Purdue University
“Invariant Subspaces”
4:30 P.M.

MATH 175

Computational and Applied Mathematics Seminar

Friday
August 29

Professor Chuanju Xu, Xiamen University, China
“Some New Developments in Spectral Element Methods for Incompressible Flows”
3:30 P.M.

REC 108

You can also view this information on our departmental web page:
<http://calendar.science.purdue.edu/math/seminars>