

Friday, November 2., 2007

Root Hall A186, ISU

12:00 p.m., noon

Professor Geoffrey Exoo

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RECENT DEVELOPMENTS IN CAGE CONSTRUCTIONS

A (k, g) -**cage** is the smallest k -regular graph that does not contain circles of length smaller than g .

The history of the study of cages is almost as long as the history of graph theory itself, and despite a vast number of papers and results, and even some few settled cases, it is still a wide open and lively area. The possibility of being a “record holder” has an appeal that goes beyond the usual excitement from a new mathematical discovery and the tables of the best known cages are one of the most visited graph related sites.

In our talk, we will give a brief survey of the current state of affairs, present the classical geometrical methods, and discuss some of the most recent developments.

For more information write to jajcay@cayley.indstate.edu
or visit <http://marilyn.indstate.edu/jajcay/seminar.html>