Algebra and Number Theory Seminar

Title: Counting the Number of Site Swap Juggling Patterns with Respect
to Particular Ceilings

Speaker: Carl Bracken (UCD)

Date: Mon 4th February 2008 at 4:00PM

Location: Mathematical Sciences Seminar Room

Abstract: Site swap is a mathematical notation used by jugglers to communicate, create and study complex juggling patterns. Determining the number of possible site swap juggling patterns, with respect to certain limiting parameters such as number of balls etc., is a problem that has been much studied and solved by many mathematicians. However, when the patterns have a throw height restriction (ceiling) the problem becomes difficult and is, in general, still open. In this talk we derive some formulae for computing the number of possible juggling patterns with respect to certain ceiling types.