



Department of Mathematics and Statistics Colloquium

Tuesday February 19

AMB 164 4:00 pm

Numerical Semigroups and the Game of Sylver Coinage

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Abstract

Sylver Coinage is a two-player game played on the positive integers described by John Conway in the book *Winning Ways for Your Mathematical Plays*. The game is connected in a natural way to submonoids of the non-negative integers, known as numerical semigroups. We will examine the connections between these two topics and demonstrate how numerical semigroups can be used to analyze winning and losing positions in Sylver Coinage.

Refreshments at 3:45