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**Department of Mathematics and Statistics**

**COLLOQUIUM**

**Tuesday, November 1st, 2016**

4:00 – 5:00 pm, Adel Mathematics Bldg., Room 164

(refreshments at 3:45)

Dr. Stephen E. Wilson

Semi-Transitive Orientations of Dart-transitive Graphs

Abstract: A semi-transitive orientation of a graph is a digraph , disjoint from its reverse, such that Aut() is transitive on the vertices and on the edges of .   If Aut() = Aut() then we say that is 1/2-transitive ( or 1/2-arc-transitive).  These are graphs of interest to a lot of us.  
        But in this talk, I would like to explore the opposite direction:  Given a graph whose group is known to be transitive on darts (directed edges), when does it have a semitransitive orientation?  How many might it have?  Can it have non-isomorphic orientations?

Algebra Combinatorics Geometry and Topology (ACGT) Seminar meets every Tuesday, 12:45 – 1:45 pm, AMB 146.

Applied Math Seminar (AMS) meets on Thursdays, 12:45 – 1:45 pm, AMB 164. Jim Swift will speak about pair-coupled oscillators this week.

Friday Afternoon Undergraduate Mathematics Seminar (FAMUS) meets Fridays, 3pm, AMB 164.