

Auburn Montgomery  
Department of Mathematics  
**Colloquium/MAMS**

**Time:** Friday, October 19, 2007, 2:00pm

**Place:** Auburn Montgomery, Goodwyn Hall, Room 202

**Speaker:** Professor Michael K. Kinyon, Department of Mathematics University of Denver

**Title:** Applications of Automated Reasoning to Problems in Quasigroup Theory and Loop Theory or How I Learned to Stop Worrying and Start Using Computers to Prove Theorems

**Abstract:**

In the past few years, automated reasoning tools, particularly OTTER and its successor Prover9, have proven to be very effective in resolving open problems in the theory of quasigroups and loops. In this talk I will survey some of these results. No background in quasigroup or loop theory is needed; what is necessary will be developed in the course of the talk.

**Refreshments will be served at 1:30pm; colloquium begins at 2:00pm.**