

**10/27/11      MATHEMATICS DEPARTMENT, FERRIS STATE UNIVERSITY  
MATH COLLOQUIUM, THURSDAY, OCTOBER 27, 2011,  
11:00 AM, STARR 138**

**SPEAKER:** Daniel S. Durusoy, Department of Mathematics, Ferris State University

**TITLE:**      **Alternating knots, adjacent trees in a forest and computer experimets**

**Abstract:**

Given an alternating diagram of an alternating knot, one can obtain a directed graph whose all directed rooted trees correspond to monomials for a knot polynomial. I will define proximity of these trees and discuss properties of the forest they form, illustrating it with a computer implementation as well. The geometric nature of the problem and the figures in the talk should make this accessible to a wide mathematical audience.

**REFRESHMENTS:** 11:00 AM, STARR 138

Please visit Math Colloquium website at

[http://www.ferris.edu/htmls/colleges/artsands/Math/MATH\\_COLLOQUIUM/ColloquiumWeb/index.html](http://www.ferris.edu/htmls/colleges/artsands/Math/MATH_COLLOQUIUM/ColloquiumWeb/index.html)