

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, November 1

3:00 – 4:00 PM

Maria Sanford, Room 101

PULL-BACK CARS: PLAYING AT THE INTERSECTION OF DIFFERENTIAL EQUATIONS AND MATHEMATICAL MODELING

TOVA BROWN

WISCONSIN LUTHERAN COLLEGE

and

BRODY JOHNSON

SAINT LOUIS UNIVERSITY

Abstract: The focus of this talk is a mathematical modeling problem concerned with the motion of toy pull-back cars. Using real data, it will be shown that the motion of pull-back cars can be modeled reasonably well with standard tools from calculus and differential equations. A secondary goal of the talk is to promote the inclusion of modeling projects early in the undergraduate mathematics curriculum, in order to develop research skills and experience with open-ended problems.

To join us online use the following link: <https://ccsu.webex.com/meet/gotchev>
For further information: gotchevi@ccsu.edu; 860-832-2839; <http://mathcolloquium.sites.ccsu.edu/>