



undergraduate mathematics colloquium
clay ▪ bluman ▪ anstee ▪ martin ▪ kohler ▪ cytrynbaum

George Bluman: *Systematic Methods for Solving
Ordinary Differential Equations (ODEs)*

In the latter part of the 19th century, Sophus Lie initiated his studies on continuous groups (“Lie” groups) in order to put order to, and thereby extend systematically, the hodgepodge of heuristic techniques for solving ODEs (that are taught in undergrad courses). Another systematic method for solving ODEs is based on finding and using integrating factors (seeking “first integrals” or “conservation laws”).

This talk will give an elementary presentation of symmetry and integration factor methods for solving ODEs (which today are the basis for the MAPLE software package DSOLVE as well as other software packages for solving ODEs).

UBC/UMC is on **wednesday**, october 7
3:00 to 4:00 in **GEOG 214** (GEOG is located just west of MATH)

drinks and snacks will be provided

for more information check out **www.math.ubc.ca/~fsl**, and follow the link at the bottom