

---

**STEPHEN ANCO**, Brock University, St. Catharines, Ontario

*Symmetry analysis of nonlinear wave equations in  $n > 1$  dimensions*

Symmetry analysis has several important uses in the study of nonlinear evolution equations, particularly for

- (1) identifying critical dimensions,
- (2) deriving conserved norms and conservation identities, and
- (3) finding explicit solutions with invariance properties.

Applications to semilinear wave equations, Schrodinger equations, and generalized Kortevég–de Vries equations in  $n > 1$  dimensions will be presented.