

1120-47-60

**Dilian Yang\*** ([dyang@uwindsor.ca](mailto:dyang@uwindsor.ca)), Department of Mathematics & Statistics, University of Windsor, Windsor, ON N9B 3P4, Canada. *The Yang-Baxter Equation and affine actions on groups.*

Our motivation of studying the Yang-Baxter equation is from higher rank graphs. In this talk, we will show how to classify solutions of the Yang-Baxter equation using affine actions on groups. Also, we will give a connection with  $C^*$ -dynamical systems. (Received February 08, 2016)