

1117-22-294

**Sam Evens\*** ([sevens@nd.edu](mailto:sevens@nd.edu)), Department of Mathematics, University of Notre Dame, Notre Dame, IN 46556. *The Gelfand-Zeitlin integrable system for the orthogonal Lie algebra.*

Kostant and Wallach introduced the Gelfand-Zeitlin integrable system on  $\mathfrak{gl}(n, \mathbb{C})$  and studied the flows of maximal dimension. We will primarily discuss its analogue for  $\mathfrak{so}(n, \mathbb{C})$ , and recent results describing the flows of maximal dimension by using the Luna slice theorem. We will also discuss implications for  $\mathfrak{gl}(n, \mathbb{C})$ . This talk is based on joint work with Mark Colarusso. (Received January 16, 2016)