1093-22-286   **Mary Clair C Thompson*** (`thompsmc@lafayette.edu`), 202 Pardee Hall, Lafayette College, Easton, PA 18042, and **Tin-Yau Tam**. *Asymptotic Results in Noncompact Semisimple Lie Groups.*

Many well-known matrix results involve the convergence of specially constructed matrix sequences. For example, the QR algorithm and Rutishauser's LR algorithm are known to produce sequences that converge to a matrix with certain desirable properties.

This behavior is actually not special to matrix groups; we will discuss the extension of the Aluthge sequence and Rutishauser's LR algorithm to noncompact semisimple Lie groups, as well as conditions on the convergence of these sequences. (Received August 19, 2013)