

1086-22-1154

**Firas Y Hindeleh\*** (hindelef@gvsu.edu), 1 Campus Dr., Allendale, MI 49426, and **Kermit L Sharp** (sharpkl@mail.gvsu.edu) and **Nick C Benthem**. *Low dimension Lie algebra dimension reduction by modding by the center*. Preliminary report.

We investigate reducing the order of real low dimensional Lie algebras by modding by the center. We find the isomorphism between the reduced algebra and one of the non-decomposable Lie algebras and explain why in certain cases the reduced algebra decomposes. (Received September 19, 2012)