

1167-22-211

**Chris Rogers** and **Jesse Wolfson\*** ([wolfson@uci.edu](mailto:wolfson@uci.edu)). *Lie theory for  $L_\infty$ -algebras*. Preliminary report.

This talk will present ongoing joint work with Chris Rogers (UNR) aimed at extending Lie theory to the context of  $L_\infty$ -algebras, i.e. higher homotopical analogues of Lie algebras. Building on work of Getzler, Henriques and Rogers-Zhu, we aim to construct a finite dimensional integrating Lie  $\infty$ -group for any finite type  $L_\infty$ -algebra. (Received March 07, 2021)