1056-17-363          **Kristen Stagg\*** (`klstagg@ncsu.edu`), 3300 Walnut Creek Pkwy Apt. F, Raleigh, NC 27606.
*Properties of the Frattini Subalgebra in a Lie algebra.* Preliminary report.

For any Lie algebra $L$, the Frattini subalgebra $F(L)$ is the intersection of all maximal subalgebras of $L$. Properties of the Frattini subalgebra have been investigated by a number of authors. We will discuss concepts which evolve when considering the Frattini subalgebra and its properties. Many of the discussed concepts have analogues in group theory. (Received September 02, 2009)