1106-L5-1210 **Beth Schaubroeck***, beth.schaubroeck@usafa.edu, and **Michael Brilleslyper**, mike.brilleslyper@usafa.edu. *Discovering the Gauss-Lucas Theorem.* Preliminary report.

The Gauss-Lucas Theorem states that the zeros of the derivative of a polynomial are contained within the convex hull of the zeros of the original polynomial. This result is not always apparent in the real domain. However, like many other results in analysis, extending to the complex domain resolves the apparent inconsistencies seen when restricting to the reals. This beautiful result has an elementary proof but is rarely mentioned in an undergraduate course. We present a possible path for introducing the topic. (Received September 11, 2014)