

1106-G1-1981 **Greg Stuart Mayer*** (greg.mayer@gatech.edu), School of Mathematics, 686 Cherry Street,
The Georgia Institute of Technology, Atlanta, GA 30332. *Collaboration and Community in Fully
Online Synchronous Linear Algebra Recitations*. Preliminary report.

This presentation describes the results of an ongoing project, currently in its third year, aimed at introducing web conferencing software into two multi-section synchronous online courses for advanced high school students at The Georgia Institute of Technology, the first of which focuses on linear algebra. The primary goals of this project are to increase enrollment in these courses from high schools that are unable to purchase the necessary equipment to participate in the existing delivery model, and to identify factors that lead to student success in the alternate delivery model that uses web conferencing software. This presentation will focus on recent findings that explore the role of online collaboration and the development on community during linear algebra recitations. Findings are based on results from a (qualitative) content analysis of discussions held during recitations, as well as student interview and survey data. Results will be presented that compare how interaction patterns 1) vary across different learning activities, including collaborative group work, and 2) differ between students who have no peers at their school in this program to those students who do. (Received September 15, 2014)