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Teresa Hughes and **James R. Valles, Jr.*** (jrvalles@pvamu.edu), Department of Mathematics, Prairie View A&M University, P. O. Box 519 – Mailstop 2225, Prairie View, TX 77446-0519. *Critical thinking through student-led error analysis in algebra*. Preliminary report.

A preponderance of mathematics instruction involves students watching examples, which are worked by an instructor, and then the students will complete similar exercises, essentially mimicking work and procedure. If students make errors in their work, then emphasis is placed on how to perform the work correctly and avoid the error(s) being made in the future.

This talk will introduce one method, developed by Teresa Hughes in the Cypress-Fairbanks ISD, for student-led identification of mistakes made in their own algebraic work. Students are shown how to code the work (e.g. Careless Mistake, Did not Understand the Question) as well as asked to provide an explanation of the error made. Students are then asked to provide a correction to the work. The increased participation among the students, as well as observed results, will be discussed. (Received January 31, 2017)