

1056-K1-1588 **Nathan Carter** (ncarter@bentley.edu), Department of Mathematics, Bentley University, 175 Forest St., Waltham, MA 02452, **Paul F Christiano**, Random Hall, 290 Massachusetts Ave., Cambridge, MA 02139, and **Kenneth G Monks*** (monks@scranton.edu), Department of Mathematics, University of Scranton, Scranton, PA 18510. *The Lurch Project: Validation on Demand*. Preliminary report.

We report on the current status of the *Lurch* project, a mathematical word processor capable of validating the steps of the user's work. We illustrate the concept of "validation on demand," which allows students to write mathematics, then request certain portions of it be checked for validity. Supported in part by NSF grant #0736644. (Received September 22, 2009)