1067-11-1255 Eric Errthum* (eerrthum@winona.edu), Winona State University, 322 Gildemeister Hall, Winona, MN 55987. *Minimal Polynomials of Singular Moduli*. Preliminary report.

We will demonstrate a technique to algebraically determine the minimal polynomials for singular moduli with small discriminants on the classical modular curve. We then extend this technique to computing the minimal polynomials for a significant number of singular moduli on small Shimura curves. With the minimal polynomials at hand, we examine the ABC ratios of these algebraic numbers and discuss the likelihood of finding "good" ratios. (Received September 21, 2010)