

1014-11-1412 **Carl Erickson*** (cerickson@stanford.edu), Department of Mathematics, Bldg. 380, 450 Serra Mall, Stanford, CA 94305-2125, and **Nathan Kaplan** (nathank@princeton.edu), **Neil Mendoza**, **Allison Pacelli** (Allison.Pacelli@williams.edu) and **Todd Shayler**. *3-rank in Class Groups of Quadratic Number Fields.*

In this second talk on work completed at the SMALL REU at Williams College this past summer, we will describe polynomial parameterizations of quadratic number fields with 3-rank at least 2 in the class group. Using class field theory, we draw on previous results regarding class number divisibility by 3 that were discussed in the previous talk. Extending the techniques involved in these results gives us multiple parameterizations of quadratic fields with 3-rank at least 2 in the class group. (Received September 28, 2005)