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Olav K. Richter* (richter@unt.edu), Department of Mathematics, University of North Texas, Denton, TX 76203, **Kathrin Bringmann**, Department of Mathematics, University of Wisconsin, Madison, WI 53706, and **Charles H. Conley**, Department of Mathematics, University of North Texas, Denton, TX 76203. *Jacobi forms over complex quadratic fields*. Preliminary report.

I will discuss Jacobi forms over complex quadratic fields. In particular, I will report on recent joint work with K. Bringmann and C. Conley where we define such forms as eigenfunctions of a differential operator that satisfy a certain transformation law. (Received September 11, 2005)