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**Anton Lukyanenko\*** ([anton@lukyanenko.net](mailto:anton@lukyanenko.net)) and **Joseph Vandehey**. *Geodesic coding on the complex hyperbolic modular surface*. Preliminary report.

Continued fractions have been used to study the behavior of geodesics in the modular line  $H^2/SL(2, Z)$ . Is a similar approach available for other quotients of symmetric spaces? We study the notion of a continued fraction on the Heisenberg group, a step-2 nilpotent group that serves as the boundary of complex hyperbolic plane  $CH^2$ , and its connection to geodesics in the modular surface  $CH^2/SU(2, 1; Z[i])$ . (Received August 15, 2012)