Tony Shaska* (shaska@oakland.edu), Rochester, MI 48309. Theta functions and symmetric weight enumerators for codes over imaginary quadratic fields.

We study codes over imaginary quadratic fields, their weight enumerators and theta functions. We present new examples of non-equivalent codes over rings of characteristic $p = 2$ and $p = 5$ which have the same theta functions. We also look at a generalization of codes over imaginary quadratic fields, providing examples of non-equivalent pairs with the same theta function for $p = 3$ and $p = 5$. (Received July 24, 2015)