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**Irene Bouw, Jenny Cooley, Kristin E. Lauter\*** (klauter@microsoft.com), **Elisa Lorenzo Garcia, Michelle Manes, Rachel Newton and Ekin Ozman.** *Bad reduction of genus 3 curves with complex multiplication.*

Let  $C$  be a smooth, absolutely irreducible genus-3 curve over a number field  $M$ . Suppose that the Jacobian of  $C$  has complex multiplication by a sextic CM-field  $K$ . Suppose further that  $K$  contains no imaginary quadratic subfield. We give a bound on the primes  $\mathfrak{p}$  of  $M$  such that the stable reduction of  $C$  at  $\mathfrak{p}$  contains three irreducible components of genus 1. (Received September 09, 2014)