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Christelle Vincent*, 82 University Place, Burlington, VT 05405. *Computing hyperelliptic invariants from period matrices*. Preliminary report.

In this talk we present an obstacle to computing invariants of curves whose Jacobian has CM (complex multiplication), when the genus of the curve is greater than 1. The problem is essentially that while the Jacobian has everywhere potential good reduction, the curve does not. We show the connection between this obstacle and a certain embedding problem which we define in the talk, and present our progress on analyzing the embedding problem. This is joint work with Ionica, Kilicer, Lauter, Lorenzo Garcia and Manzateanu. (Received August 18, 2020)