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Jen Paulhus* (paulhus@math.grinnell.edu). *Decomposable Jacobian Varieties.*

Curves whose Jacobian varieties can be factored into many elliptic curves have interesting applications to rank and torsion questions. Given a group acting on a curve, we have developed several techniques to decompose the corresponding Jacobian variety. We will briefly discuss the techniques and give numerous interesting examples, such as Jacobians which factor completely into elliptic curves, and families of curves where there is a fixed factor across all Jacobians in that family. (Received September 13, 2017)