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Brauer-Manin obstructions and Sha of genus-2 jacobians.

We report on an application of a method (due originally to van Luijk and Logan) which exhibits nontrivial elements of the Tate-Shafarevich group of the Jacobian of a genus-2 curve, by means of a Brauer-Manin obstruction on an associated K3 surface. (Received September 15, 2008)