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James S Wolper* (wolpjame@isu.edu), Dept. of Mathematics and Statistics, Idaho State University, 921 S. 8th Ave., MS8085, Pocatello, ID 83209. *Are hard questions in algebraic geometry approximately easy?* Preliminary report.

Is a Prym the jacobian of a curve? Can an abelian variety contain a hyperelliptic curve? Is the intermediate jacobian of a cubic threefold the jacobian of a curve?

A new way to approach these and similar questions is through studying the statistics of the periods, which can be done numerically using current day software. Can statistical and numerical techniques makes these hard questions approximately easy? (Received September 20, 2016)