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Elham Izadi, CS Tamás and **Jie Wang*** (jiewang@math.uga.edu), Department of Mathematics, University of Georgia, Athens, GA 30602. *The primitive cohomology of the theta divisor of an abelian fivefold.*

The primitive cohomology of the theta divisor of a principally polarized abelian variety of dimension g is a Hodge structure of level $g - 3$. The Hodge conjecture predicts that it is contained in the image, under the Abel-Jacobi map, of the cohomology of a family of curves in the theta divisor. In this talk, I will explain how one can use the Prym map to show that this version of the Hodge conjecture is true for the theta divisor of a general abelian fivefold. (Received September 15, 2013)