1108-14-83   **Jie Wang*** (`jiw254@ucsd.edu`) and **Elham Izadi** (`eizadi@ucsd.edu`). *The primitive cohomology of theta divisors.*

The primitive cohomology of the theta divisor of a principally polarized abelian variety of dimension g is a Hodge structure of level g-3. In this talk, I will present some general facts and questions (eg. the Hodge Conjecture) about the primitive cohomology and discuss a recent result (joint with E. Izadi) that the primitive cohomology is an irreducible Hodge structure for the theta divisor in a general abelian fivefold. (Received December 31, 2014)