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Lihan Wang*, The department of Mathematics, UC Riverside, 900 University Ave., Riverside, CA 92527. *Symplectic Laplacians, cohomology and boundary conditions.*

New elliptic operators, called symplectic Laplacians, are introduced to study cohomology of symplectic manifolds. In this talk, we focus on the study of these operators on symplectic manifolds with boundary. In order to relate these operators to cohomology, we introduce so-called symplectic boundary conditions on forms. Properties and theorems about these boundary conditions, operators and cohomology will be discussed. This is a joint work with Li-Sheng Tseng. (Received August 28, 2016)