1022-32-161   **Nils Øvrelid** (`nilsov@math.uio.no`), Department of Mathematics, University of Oslo, P.B. 1053 Blindern, N-0316 Oslo, Norway, and **Sophia Vassiliadou*** (`sv46@georgetown.edu`), Department of Mathematics, St. Mary's Hall, Georgetown University, Washington, DC 20057. *L^2-$\overline{\partial}$-cohomology of complex spaces with arbitrary singularities.*

We will discuss a finite dimensionality result for the L^2-$(p,1)$-$\overline{\partial}$-cohomology groups (with respect to the Fubini-Study metric) of an irreducible, n-dimensional projective variety with arbitrary singular locus ($0 \leq p \leq n$). Using this we will prove a similar result for Stein neighborhoods of isolated singular points of irreducible n-dimensional subvarieties of $\mathbb{C}^N$ when $p = n - 1$. This is joint work with Nils Øvrelid. (Received September 12, 2006)