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Thomas G. Leness* (lenesst@fiu.edu), Department of Mathematics, Florida International University, Miami, FL 33139. *Degeneracy loci of Dirac operators*. Preliminary report.

We compute some formulas for the Poincare dual of the degeneracy locus of families of Dirac operators given by moduli spaces of anti-self-dual connections on a four-manifold. In addition, we explain how these formulas fail to relate the Donaldson and spin invariants of the four-manifold. (Received January 18, 2008)