1099-58-81 **Gerardo A Mendoza*** (gmendoza@temple.edu), Philadelphia, PA 19122. *Spectral instability of selfadjoint extensions.*

Let M be a smooth compact manifold with boundary, boundary defining function x, and smooth b-density $\mathfrak{m}_b$. Further let $E, F \to M$ Hermitian vector bundles and $A : C_c^\infty(\overset{\circ}{M}; E) \subset x^{-\nu/2}L_b^2(M;E) \to x^{-\nu/2}L_b^2(M;F)$ a symmetric elliptic cone operator which is bounded from below and admits more than one selfadjoint extension. The family, $\mathfrak{S}\mathfrak{A}$, of domains of such extensions has the structure of a smooth compact real-analytic manifold. The spectrum of A with any domain $D \in \mathfrak{S}\mathfrak{A}$ is bounded below, but there exist domains D_0 which admit a neighborhood $U \subset \mathfrak{S}\mathfrak{A}$ in which the property $\forall \zeta \in \mathbb{R}\ \exists D \in U$ s.t. $\zeta > \inf \operatorname{spec}(A_D)$ holds. I will give a characterization of these spectrally unstable domains. (Received January 28, 2014)