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**GERARDO MENDOZA**, Temple University

*Spectral instability of selfadjoint extensions of symmetric elliptic cone operators*

Let  $A : C_c^\infty(\dot{M}; E) \subset x^{-\nu/2}L_b^2(\dot{M}; E) \rightarrow x^{-\nu/2}L_b^2(\dot{M}; F)$  be an elliptic cone operator acting on sections of a vector bundle  $E$  over a smooth compact manifold  $M$  with boundary  $\partial M = \{x = 0\}$ . Suppose  $A$  is symmetric, bounded from below, and admits more than one selfadjoint extension. The family,  $\mathfrak{S}\mathfrak{A}$ , of domains of such extensions is 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  $U \subset \mathfrak{S}\mathfrak{A}$  for which the property  $\forall \zeta \in \mathbb{R} \exists D \in U$  s.t.  $\inf \text{spec}(A_D) < \zeta$  holds. The set of such domains is a codimension 1 (real-)analytic variety in  $\mathfrak{S}\mathfrak{A}$  which will be described explicitly.