1011-58-89   **Juan B. Gil**, **Thomas Krainer** and **Gerardo A. Mendoza*** (`gmendoza@math.temple.edu`), Department of Mathematics, Temple University, Philadelphia, PA 19122. *Rays of minimal growth for elliptic cone operators.*

The existence of rays of minimal growth for an elliptic cone operator A with a given domain D depends on the existence of such rays for the b-symbol (on the interior) and for the model operator, $A_\wedge$, of A. The latter, typically a partial differential operator, comes equipped with a domain $D_\wedge$ determined by D. Quite remarkably, the condition that $A_\wedge$ with domain $D_\wedge$ admits a ray of minimal growth can be expressed in geometric terms. The talk will describe this and other aspects pertaining spectral properties of cone operators. (Received August 16, 2005)

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