

Meeting: 1001, Evanston, Illinois, SS 7A, Special Session on Geometric Partial Differential Equations

1001-58-246 **Juan B Gil*** (jgil@psu.edu), 3000 Ivyside Park, Altoona, PA 16601, and **Thomas Krainer**
and **Gerardo A Mendoza**. *Resolvents of elliptic cone operators*. Preliminary report.

We prove the existence of sectors of minimal growth for general closed extensions of elliptic cone operators under natural ellipticity conditions. This is achieved by the construction of a suitable parametrix and reduction to the boundary. Some interesting spectral properties of cone operators will also be discussed. (Received August 27, 2004)