1009-33-167 **Gestur Olafsson*** (`olafsson@math.lsu.edu`), Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803, and **Mark Davidson** and **Michael Aristidou**. *Differential Recursion Relations for Laguerre Functions on Symmetric Cones.*

Let Ω be a symmetric cone and V the corresponding simple Euclidean Jordan algebra. We will discuss recent results on explicit second order differential operators which give a differential equation for the generalized Laguerre functions on Ω as well as recursion relations generalizing the classical relations for the Laguerre functions on $\mathbb{R}^+$. (Received August 15, 2005)