1100-22-163    **Raul Gomez\*** (`gomez@cornell.edu`), Mathematics Department, Cornell University, Malott 593, Ithaca, NY 14853. *On a conjecture of Sakellaridis-Venkatesh on the unitary spectrum of a spherical variety.*

In this talk, we will use the theory of dual pairs and $\theta$-lifting of generalized Whittaker models to prove some cases of a conjecture announced in a recent preprint of Sakellaridis and Venkatesh. Furthermore, we will consider a family of examples that seem to suggest that the theory developed by Sakellaridis and Venkatesh may be extendable to a larger class of homogeneous spaces. (Received February 06, 2014)