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Carlos Villegas-Blas* (villegas@matcuer.unam.mx), Av. Universidad S/N, Col. Lomas de Chamilpa, 62210 Cuernavaca, Morelos, Mexico. *Szego-type theorems for the n-sphere and the hydrogen atom problem.*

We describe Szego-type theorems involving perturbations of the Laplacian on the n-sphere and the hydrogen atom Hamiltonian. A suitable representation for the corresponding projectors in terms of coherent states will be included. We will also give an Egorov type theorem for Toeplitz operators in related Bargmann spaces. (Received April 12, 2010)