



BOSON STARS

Juan Carlos Degollado Daza¹

¹Instituto de Ciencias Físicas, Universidad Nacional Autónoma de México, Coyoacán, 04510, México

In this talk I will review some properties of solutions to the static, spherically symmetric Einstein-Klein-Gordon system for a collection of an arbitrary odd number N of complex scalar fields with an internal $U(N)$ symmetry and no self-interactions known as l-boson stars. These new solutions are compact, globally regular, configurations of self-gravitating boson fields characterized, besides the mass of the field, by an angular momentum number.