

Neutron stars have been shown to exhibit a set of universal relations independent of their equation of state that bears semblance to the black hole no hair relations. In this talk, I will show that a rescaled entropy measure also possesses nearly universal behavior for an equilibrium sequence of isolated neutron stars. Moreover, as the stellar compactness (or central density) in the sequence is increased, the degree of universality increases, the entropy approaches the black hole limit, and the entropy scales more and more with the stellar surface area instead of the stellar volume. All of these results point strongly to the existence of an entropy-area law for neutron stars near the threshold of gravitational collapse.