HOLOGRAPHIC MODEL FOR NEUTRON STAR WITH COLOR SUPERCONDUCTIVITY IN THE INNER CORE

N. Hoang Vu[1], H. Nam Cao[2]

[1]*Joint Institute for Nuclear Research;* [2]*Phenikaa University, Vietnam*

E-mail: ahxdhv@gmail.com

In this holographic model, we use the 6d AdS black hole in Einstein-Gauss-Bonnet gravity for the dual to the color superconductivity in the inner core of the heavy neutron star and the baryonic matter dual to instanton gas. By holography, we find the equation of state of color superconductivity in the inner core of neutron star.