

LU CFI EKSELENCES CENTRA ZINĀTNISKAIS SEMINĀRS

**Piektdien, 4.jūnijā
plkst. 14.30, konferenču zālē**

*Prof. A. Afanasjev
University of Mississippi*

Nuclear burning in neutron star crust

Neutron stars are one of most interesting objects in Universe. While their central region is characterized by several nuclear saturation densities, the outer transitional region called crust is characterized by the densities which are changing from nuclear saturation density down to zero. This is a region where the nuclei still exist. In my talk I will first present a general overview of the neutron star physics. Then I will concentrate on the nuclear burning processes which take place in the crust of neutron stars and on physical consequences of these processes.