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Studies of neutron stars lie at the intersection of astrophysics, nuclear physics, and condensed matter physics. Theories developed over many decades tell us much about the interior of neutron stars, including the presence of superfluid neutrons, the equation of state of nuclear matter up to several times nuclear saturation density, and the role of strong interactions of a nucleon as radio pulsars and magnetars. We will discuss the merging of neutron stars, the response of the star to some external perturbations, and the open questions in learning and the open questions in the field of neutron stars. This is a fascinating nuclear astrophysics topic. We will discuss the proton drip line to the neutron drip line.

**Wednesday . January 5 . 4 2 3 ;  
5 : 5 2 p.m.  
Glliott Building Room 3 8 9**