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国台学术报告 NAOC COLLOQUIUM

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Time: Wed. 2:30 PM, Dec. 6th Location: A601 NAOC

The Neutron Star Zoo

Dr. Stephen Ng

University of Hong Kong

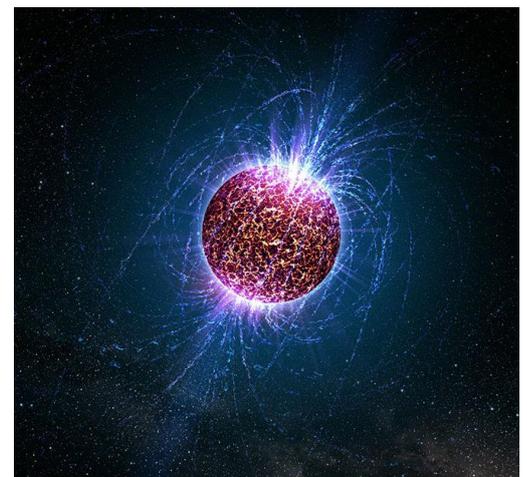


Dr. Stephen Ng studied his bachelor and master degrees in the University of Hong Kong, and received PhD from Stanford University in 2006. He then worked as a postdoctoral fellow in the University of Sydney and McGill University, and he was awarded the Tomlinson and CRAQ postdoctoral fellowships in McGill. Dr. Ng returned to the University of Hong Kong in 2013 and joined the Department of Physics as an assistant professor. He won the Early Career Award of the Research Grant Council of Hong Kong in the same year. Dr. Ng's research focuses on neutron stars, pulsar wind nebulae, and supernova remnants using radio and X-ray telescopes around the world, and he has been granted observing time on many world class telescopes.

Abstract

Neutron stars are compact cores left over from supernova explosions in the end stage of massive stellar evolution. They provide excellent laboratories for the test of physics under extreme conditions that can never be produced on Earth. Since the first pulsar was discovered in the 1960s, all neutron stars were thought to spin rapidly, have strong magnetic fields, and emit broadband radiation. However, the emergence of different populations, including magnetars, dim isolated neutron stars, central compact objects, and millisecond pulsars, over the past decades has revolutionized this simple picture.

In this talk, I will describe the diverse properties of the neutron star populations and highlight some recent results from multi-wavelength studies. I will also discuss attempts to unify different classes of objects.



All are welcome! Tea, coffee, biscuits will be served at 2:15 PM