



Astrophysics with Pulsar/Main Sequence Star Binaries

Victoria Kaspi

Infrared Processing & Analysis Center, California Institute of Technology, Jet Propulsion Laboratory

Until very recently, all known radio pulsars in binary orbits had as companions old, degenerate stars, either neutron stars or white dwarfs. In this talk we introduce a new class of binary radio pulsars having as companions young, massive stars. Concentrating on one system in particular, we show that these systems open a new phase space for studying a variety of physical phenomena, including post-Keplerian dynamics, physics of stellar winds and interiors, and binary evolution theory.