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Green Bank, West Virginia

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Spring 2019

Harcourt Vernon Lecture

April 24, 2019

Clayton Hall 7:30 pm

Featuring Guest Speaker

Dr. Joseph Taylor,

1993 Nobel Prize Laureate

Prof. Emeritus at Princeton University

Discovering the First Pulsar in a Binary Star System

Join Dr. Taylor as he describes how he and his graduate student Russell Hulse discovered the first pulsar in a binary system, named PSR B1913+16, while conducting a survey for pulsars in 1974.

Taylor has used observations of pulsar to demonstrate the existence of gravitational radiation in the amount and with the properties first predicted by Albert Einstein.

Today a Pulsar Group at Princeton continues to explore problems in astrophysics and gravitational physics by means of radio-wavelength studies of pulsars.

The subsequent observations yield important results spanning a wide range of topics in gravitational physics, stellar evolution, cosmology, and fundamental astrometry.



Left: the 1000 foot radio dish at Arecibo Observatory.
Right: an artists rendition of a binary pulsar system.

