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Gamma-ray Pulsars - A Cosmic Treasure Chest

Tuesday, 4 July 2017 14:00 (20 minutes)

The number of gamma-ray pulsars has been steadily increasing since the launch of the Fermi Large Area Telescope in 2008, which was the catalyst for a great number of new pulsar detections. These rapidly rotating neutron stars exhibit rich phenomenology, indicating that there are still many unsolved mysteries regarding the magnetospheric conditions in these stars after 50 years of research. Indeed, this year marks the golden anniversary of the discovery of the first radio pulsar, and theorists and observers alike are looking ahead to another half-century of discovery, with many new experiments coming online in the next decades. In this talk, I will give an overview of recent pulsar observations and describe their multiwavelength properties. I will also briefly allude to some theoretical models that provide a framework within which to make sense of these extreme cosmic light houses.

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No

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