

Cyclotron Colloquium, Tuesday, March 9, at 3:45 pm

"Neutron Stars as Astrophysical Laboratories for Nuclear and Particle Physics"

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Abstract:

Neutron stars are among the most enigmatic objects that exist in the Universe. They are as massive as our Sun but are trillions of times smaller in volume. The matter in the cores of neutron stars is therefore compressed to densities that are several times greater than the densities of atomic nuclei. This feature, combined with the unprecedented progress in observational astronomy, makes neutron stars superb astrophysical laboratories for a broad range of physical studies. Several such studies will be discussed in this talk.