

# “What's Inside Neutron Stars?”

**Speaker:** Dr. Peter Rau

**When:** Friday February 6<sup>th</sup> 7:00 - 9:00pm

**Location:** Columbia University, Pupin 301

Neutron stars are the remnants of massive stars left behind after supernova explosions. They are the densest directly-observable objects in the universe, containing more mass than the Sun within a city-sized volume. They also possess the strongest known magnetic fields of any object. These properties make neutron stars extraordinary laboratories for testing the laws of physics, in addition to being fascinating from an astronomical perspective. In this talk, we will see how combining observations and our understanding of a wide range of physics allows us to understand a great deal of the goings-on inside neutron stars. It also raises interesting new questions, which we will hopefully begin to answer in the coming years.

Observing will follow the talk, weather permitting.

**MANDATORY REGISTRATION FORM:** <https://tinyurl.com/yc5tp6nu> by **February 4**

Bring the QR code and your ID to 116th and Broadway to enter

Register here  
by February  
6 —>



For directions to Pupin visit:  
<https://outreach.astro.columbia.edu/directions.html>